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INDIA WEATHER REVIEW, 1964

QUARTERLY ISSUE OF

MONTHLY WEATHER REPORT

JANUARY-MARCH

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September 14, 1999

Errata to Monthly Weather Report for the quarter ending January to March 1964.

Page	Item/Station	Hour	Column	For	Read
JANUARY 1964 - Surface Data.					
Table II :					
5	Maya Bandar	-	5	2.2	22
"	Port Blair	-	7	..	0
"	Golaghat	-	21	Blank	0
6	Motihari	-	20(a)	--	0
7	Ambala (Aerodrome)	-	2	17.9	18.6
"	Ambala (Aerodrome)	-	22	0	1
8	Dras	-	21	0	8
"	Srinagar	-	20(b)	11	12
"	Banihal	-	17,18	0 & 0	- & -
"	Jammu (Aerodrome)	-	15	Blank	7
"	Mahajan	-	6	Not clear	3.2
"	Phalodi	-	14	Not clear	21
"	Jodhpur	-	7	2.5	-2.5
"	Sikar	-	2	16.6	19.6
9	Ahmadabad	-	28	3	0
11	Belgaum	-	6	13.	13.5
12	Dharampur	-	14	Not clear	9
"	Lokpal	-	2	20.9	-6.9
"	Lokpal	-	4	25.2	-3.8
"	Lokpal	-	6	11.2	-11.6
"	Lokpal	-	8	8.7	-12.9
"	Lokpal	-	9	--	13
"	Katmandu	-	6 & 8	-0.3; -3.9	-0.1; -3.7
TABLE III					
14	Goalapara	0830	19	Blank	3
15	Dhubri (Rupsi)	1730	8	16.0	15.0
"	Silchar (Kumbhirgram)	1130	20	Blank	0
"	Cooch Behar	1130	10	13.3	12.3
17	Cuttack	1730	7	26.2	26.6
"	Daltonganj	0830	5	1003.3	990.4
"	Daltonganj	0830	6	+10.9	-2.0
"	Daltonganj	1730	5	998.7	986.5
"	Motihari	1730	4	1013.9	1013.7
18	Chapra	1730	4 and 5	1017.7 and 1011.0	1014.7 and 1008.0
"	Gonda	0830	10	10.9	9.5
19	Ballia	0830	4	1018.1	1018.4
"	Varanasi (Babatpur)	0530	28	0	1
"	Dehra Dun	1730	10	8.7	9.7
20	Pathankot	0830	15	3.0	2.0
"	Amritsar (Rajasansi)	0830	4	019.1	1019.1
"	Halwara (Aerodrome)	0830	11	46	86
"	Ambala	1730	15	3.9	4.9
21	Mandi	0830	6	-2	-1.2
"	Mandi	1730	4	1014.6	1014.5
"	Mandi	1730	7	12.7	12.6
"	Leh	1730	10	2.2	2.0
"	Qazigund	0830	7	-4.9	..
"	Ganganagar	1130	15	5.4	5.7
22	Phalodi	Name of Station		Jhalodi	Phalodi
"	Ajmer	1730	7	19.7	18.7
25	Baroda	2330	17	4	0
"	Jamnagar (Aerodrome)	0830	14	-0.2	+0.2
"	Jamnagar (Aerodrome)	0530	3	23	20
"	Jamnagar (Aerodrome)	All hrs.	4	-	Sea level pressure may be reduced by 0.3 mb.

Contd.2

Page	Item/Station	Hour	Column	For	Read
26	Devgarh	1730	8	22.3	22.8
"	Nandurbar	0830	22 & 23	0 & 1	1 & 3
29	Cuddalore	2330	27	Not clear	7
30	Nagapattinam	0830	12	..4	-4
"	Madurai (Aerodrome)	0530	16	Blank	0
"	Mangalore (Bajpe)	2330	17	Blank	0
"	Mangalore	1730	18	38	31
"	Raichur	0830	15	Not clear	3.7
31	Agumbe	0830	3	,,	..
"	Balehonnur	0830	28	0	..
"	Trivandrum	0230	3	84	64
"	Trivandrum	1730	3	,,	64
32	Lokpal	0830	7,8,9,10, 11	11.4,10.6,9.7, 12.0, 91	-11.4, -11.9, -1 2.0, 89
"	Kodaikanal	0830	8	6.2	6.9
33	Khijrawan	1730	22	3	5
34	Taplejung	0830	15	..	0

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV TO VI :- UPPER AIR DATA						
36	Gangtok	Lat. N	-	-	27°28'	27°03'
"	Gangtok	Long. E	-	-	88°37	88°16'
"	Gangtok	Height	-	-	1756	2115
37	Allahabad	D	1730	0.6	324	314
41	Calcutta	D	1730	1.5	291	294
44	Imphal	D	1130	7.2	172	272
45	Jodhpur	D	1130	2.1	200	260
46	Madras	n	2330	3.6	11	14
47	Nagpur	D	1130	4.5	273	274
48	Poona	V	1730	0.6	7.7	2.7
48	Port Blair	v	1130	4.5	3.6	2.8
48	Port Blair	D	1130	4.5	052	038
50	Vijayawada	D	2330	4.5	00	300
51	Visakhapatnam	Time	0530	-	0530	0530*
52	Calcutta	V	1730	10.5	4.36	43.6
53	Visakhapatnam	Time	0530	-	0530	0530*
55	Bangalore	Mean	00 GMT	400 mb.	256.1	256.6
58	Bombay	Max.	12 GMT	40 mb.	28	218
58	Calcutta	Height	12 GMT	900 mb.	1026	1025
58	Calcutta	Mean	12 GMT	Surf.	395.3	295.3
59	New Delhi	Max.	12 GMT	175 mb.	238	230
59	Port Blair	Td	12 GMT	800 mb	277.7	277.6
60	Trivandrum	Mean	12 GMT	150 mb	200.4	206.4

Page	Item/Station	Hour	Column	For	Read
FEBRUARY 1964 - SURFACE DATA					
Table II					
64	Agartala	-	12	+9.1	+4.1
"	Sagar Island	-	24	Blank	9
65	Kanpur	-	24	1	0
"	Fatehpur	-	12	6.0	-6.0
66	Dehra Dun	-	8	.2	1.2

Contd.3

Page	Item/Station	Hour	Column	For	Read
66	Adampur (Aerodrome)	-	24	0	1
"	Halwara (Aerodrome)	-	8	-1.4	-1.1
"	Ambala	-	20(a)	0	1
"	Patiala	-	22	0	1
"	Leh	-	21	6	8
"	Banihal	-	22	0	2
"	Phalodi	-	17	..	11.5
67	Pilani	-	2	Not clear	25.0
"	Jabalpur	-	22	Blank	0
70	Calicut	-	20(b)	9	0
"	Lokpal	-	2	18.9	-7.3
"	Lokpal	-	4	23.1	-4.9
"	Lokpal	-	6	9.9	-12.3
"	Lokpal	-	8	8.2	-13.2
"	Nainital	-	8	6.0	-3.1
"	Nainital	-	9	3	1,2,3
"	Mercara	-	12	-0.1	-6.1
"	Katmandu	-	6 and 8	2.5, -1.8	2.7, -1.6
TABLE III					
72	Dibrugarh (Mohanbari)	0230	7	13.4	13.1
"	North Lakhimpur	1730	4	1012.3	1012.7
73	Asansol	0230	5	988.1	998.1
75	Daltonganj	0830	4,5,6	1018.8, 1001.8, +11.8	1016.8, 990.8, +0.8
"	Daltonganj	1730	5	998.0	988.0
"	Chapra	1730	8	15.5	15.6
"	Chapra	1730	4 and 5	1015.8 & 1009.1	1011.8 & 1005.1
76	Bhagalpur	1730	11	44	48
"	Hardoi	0830	4,5,6	-	Data may be deleted
"	Gonda	0830	7,8,9,10	23.3,15.9,9.7, 12.0	15.3, 4.7, 7.9, 10.9
"	Gonda	1730	10	10.9	12.0
"	Lucknow (Amausi)	1130	13	1.0	1.4
"	Lucknow (Amausi)	1730	10	7.5	10.5
"	Kanpur (Aerodrome)	0530	15	8.0	4.0
"	Kanpur (Aerodrome)	1730	4	1011.7	1011.8
"	Sultanpur	0830	15	6.9	0.9
77	Varanasi (Babatpur)	2330	8	11.8	11.7
"	Dehra Dun	0530	15	5.0	1.0
"	Dehra Dun	1730	10	9.4	9.2
"	Bareilly (P.B.O)	2330	11	52	56
78	Pathankot	1730	10	10.3	10.1
"	Pathankot	2330	11	87	78
"	Ludhiana	0830	3	24	247
"	Ambala	1730	13	0.5	0.4
"	Ambala (P.B.O)	2330	15	7.4	7.1
"	Ambala (Aerodrome)	1730	23,24	0, 1	1, 0
"	New Delhi (Safdarjung)	0230	3	21	216
"	New Delhi (Safdarjung)	1130	15	0.4	9.4
"	Palam (Aerodrome)	2030	24	2	0
79	Srinagar	0830	6	+1.1	+1.2
"	Srinagar	1130	5	845.0	845.8
"	Srinagar (Aerodrome)	0830	13	2.5	6.9
"	Srinagar (Aerodrome)	1130	7	2.9	2.0
"	Srinagar (Aerodrome)	1130	9	-1.7	-0.7
"	Srinagar (Aerodrome)	1130	13	6.8	6.1
"	Srinagar (Aerodrome)	1730	15	4.7	4.0
"	Jammu	0830	11, 12	70, +4	74, +8

Contd.4

Page	Item/Station	Hour	Column	For	Read
131	Tangla	0830	5	1004.9	1004.4
"	Tezpur	1730	9	22.4	15.4
"	Golaghat	0830	9	15.4	15.9
132	Cooch Behar	1730	13	1.8	1.3
133	Barrackpore	0830	7	Not clear	26.7
"	Jharsuguda	1130	5	985.4	985.6
"	Keonjhargarh	0830	4	1002.1	1012.1
134	Balasore	1730	7	29.6	29.5
"	Sambalpur	1730	4	1003.3	1008.3
"	Bolangir	1730	4	1007.9	1007.3
"	Daltonganj	0830	5,6	998.4, -8.8	988 4, + 1.3
"	Daltonganj	1730	5	994.8	985.1
"	Jamshedpur P.B.O	1730	10	11.9	11.0
135	Chapra	1730	4 and 5	1013.7 & 1007.2	1007.7 & 1001.2
"	Bhagalpur	0830	27	13	12
"	Bhagalpur	2330	10	12.3	14.1
"	Hardoi	1730	13	0.3	1.3
"	Lucknow (Amausi)	1730	9	Not clear	13.7
136	Gorakhpur (P.B.O)	1130	3	72	78
"	Kanpur (Aerodrome)	1730	11	74	17
"	Ballia	0830	10	27.4	18.2
"	Allahabad (Bamhrauli)	0830	9	8.3	8.1
"	Allahabad (Bamhrauli)	1130	7,8	33.1, 18.0	33.0, 18.1
"	Varanasi (Babatpur)	1730	15	4.1	14.1
"	Dehra Dun	1730	13	2.9	2.7
"	Mansiary	0830	7 to 11	13.8, 6.9, -2.7, 4.9, 32	12.0, 5.0, -4.8, 4.1, 31
"	Mansiary	0830	13 to 28	-	Put dashes for the columns.
"	Mansiary	1730	7 to 11	14.4, 7.5, -1.3, 5.5, 34	12.8, 6.2, -2.0, 5.2, 36
"	Mansiary	1730	13 to 28	-	Put dashes for the columns.
"	Roorkee	0830	15	0.6	1.4
137	Aligarh	0830	7,8	20.6, 14.2	20.5, 14.7
"	Mainpuri	0830	15	2.5	5.1
"	Mainpuri	1730	15	8.7	2.9
"	Agra (Aerodrome)	0830	17	0	3
"	Pathankot	1730	8	16.1	16.7
"	Ambala	1730	15	3.6	5.6
138	Palam (Aerodrome)	1130	24	Not clear	3
"	Palam (Aerodrome)	2330	13	0.7	0.9
"	Leh	0530	3	149	3514
"	Leh	0530	8	-8.2	-8.9
"	Leh	0830	10	2.5 (g)	2.4 (g)
"	Leh	1730	9	-21.3	-11.3
"	Leh	1730	10	0.8	2.3
"	Srinagar (Aerodrome)	0530	18	19	9
"	Srinagar (Aerodrome)	2330	13	3.7	3.8
"	Ganganagar	0830	6	+0.9	+0.6
"	Ganganagar	2330	20	Blank	8
"	Pilani	1730	5	994.5	972.5
"	Ajmer	1730	9	5.4	0.5
140	Jhalawar	1730	9	-3.4	-0.4
"	Sagar	0830	8	13.	13.6
"	Hoshangabad	0830	6	-0.2	+0.2
142	Bhuj (Rudramata)	0230	26	Blank	2
"	Jamnagar (Aerodrome)	0530	3	23	20
"	Jamnagar (Aerodrome)	All hours	4	-	Sea level pressure may be reduced by 0.3 mb.

Contd.7

Page	Item/Station	Hour	Column	For	Read
143	Keshod	All hours	4 & 5	-	Apply a correction of -0.2 mb. to all pressure data.
145	Vidarbha	-	1	Vha (Contd.)	Vidarbha (Contd.)
	Akola (Aerodrome)	-	-	Akola (rome)	Akola (Aerodrome)
	Visakhapatnam	1730	5	1000.0	1008.0
	Visakhapatnam	2330	5	1010.4	1011.4
	Kakinada	0830	6	+0.1	+0.7
146	Cuddalore	2330	13	8	2.8
147	Tiruchchirapalli	1130	15	11.4	11.3
	Palayankottai	0830	15	Not clear	2.9
149	Lokpal	0830	7	-9.6	-9.2
	Nainital	0830	5,6	805.2, +1.0	805.2, 0
	Foot Note	-	-	*	**
150	Coonoor	-	2	1730	0830
	Konar	1730	8	Not clear	18.9
151	Barahkshetra	0830, 1130, 1730	-	-	Inter change pressure data in columns 4 and 5.
	Foot Note	-	-	Ø Nearest standard isobaric level.	Delete

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV TO VI : UPPER AIR DATA						
153	New Delhi	Date of Opening	-	-	20.10.1936	28.10.1936
157	Bhagalpur	n	1730	0.15 Km	31	30
157	Bhagalpur	n	1730	0.3 Km	31	30
157	Bhagalpur	n	1730	0.6 Km	31	30
159	Calcutta	D	2330	3.0 Km	27	297
159	Cochin	v	1730	2.1 Km	9.8	9.4
162	Jabalpur	V	1730	7.2 Km	24.8	24.0
166	Raxaul	v	1730	0.3 Km	.5	2.5
169	Dibrugarh	Time	-	-	0530	1130
170	Tichchchiranpalli	v	0530	10.5 Km	9.7	9.8
175	Bombay	Mean	12 GMT	800 mb	292.4	292.7
175	Bombay	Max	12 GMT	800 mb	296	301
176	Minicoy	Max	12 GMT	40 mb	219	215
176	New Delhi	Min	12 GMT	30 mb	Blank	212
176	Port Blair	Mean	12 GMT	125 mb	200.8	201.9

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

JANUARY

Published by authority of the Government of India

Chief features :—

(i) Movement of six western disturbances across northwest India leading to abundant precipitation in the extreme north of the country;

(ii) Mainly dry weather in the Peninsula; and

(iii) A long spell of moderate to severe cold wave affecting most parts of the north India from the middle of the month.

Of the six western disturbances which moved across northwest India during the month, five moved in quick succession during the first fortnight. The first disturbance was feeble and caused a few light showers of rain or snow in Kashmir on 3rd and 4th. This was followed almost immediately by another active western disturbance which moved across Rajasthan to Western Himalayas during the period 5th to 8th causing good precipitation in north-west India. Jammu recorded 12 cm of rain on 7th and Banihal 7 cm on 7th and 6 cm on 8th. The third disturbance moved from Baluchistan to Assam during the second week. The next two western disturbances also moved across northwest India in quick succession during the period 10th to 15th. In association with them, the precipitation over Western Himalayas and the adjoining plains continued till 15th. Banihal recorded 5 cm of rain on 9th. The last western disturbance of the month was also fairly active and induced a feeble low over west Uttar Pradesh on 22nd. Banihal recorded 5 cm of rain on 21st and 7 cm on 22nd and Dalhousie 6 cm on 23rd. The details of the movement and activity of these western disturbances are given in the accompanying statement.

Assam received a few showers on a number of days during the first fortnight. There were spells of precipitation in the south Bay Islands in association with the passage of a few troughs in the easterlies, two of them being well marked. The earlier trough of low pressure caused good rainfall in the south Bay Islands during the first week. Kondul recorded 17 cm of rain and Nancowry 6 cm on 8th. The other well marked trough of low pressure which appeared over the extreme south Andaman Sea by 18th moved away slowly westwards across Maldive area by 26th. In association with it, there was a spell of good rainfall in the south Bay Islands during the third week. Nancowry recorded 15 cm of rain on 19th. A few showers also occurred in the extreme south Peninsula on 24th and 25th. Except for this short spell of showers, mainly dry weather prevailed over the Peninsula during the month.

Night temperatures were generally above normal over northeast India during the first fortnight. They, however, fluctuated over northwest India and central parts of the country as a result of the passage of the five western disturbances in quick succession during the same period. They were appreciably to markedly above normal over northwest India on a number of days. In the wake of the fifth western disturbance of the month, a moderate to severe cold wave began to affect northwest India from 15th. The cold wave progressed slowly eastwards and by 19th it affected most parts of northeast India also. Pilani recorded the lowest minimum temperature of −4°C on 16th. With the approach of the last western disturbance of the month, the cold spell abated slightly from 20th but after the passage of this disturbance, a second wave of cold spell began over northwest India from 22nd. This wave was more severe and lasted for a longer period. Sub-freezing temperatures were reported from a number of stations in northwest India. The minimum temperature at New Delhi (Palam) also fell below the freezing point on a few days. The lowest minimum temperature of −5°C was recorded at Jaisalmer in Rajasthan on 25th. The largest departure from normal of minimum temperature touched −11°C on 26th at Bikaner. According to press reports, a few deaths occurred in Gujarat State, Uttar Pradesh and Bihar State due to the cold wave and standing crops were damaged in Gujarat and Bihar States. Water taps were also reported to have frozen at Simla and neighbouring places.

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The total rainfall for the month was in slight defect in Jammu and Kashmir, in moderate defect in Assam and in large defect in the Bay Islands, Gangetic West Bangal, Orissa, Bihar State, Uttar Pradesh, the Punjab (I), west Rajasthan, east Madhya Pradesh, Saurashtra and Kutch, coastal Andhra Pradesh, the Madras State, Kerala and the Arabain Sea Islands. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands, Orissa, east Madhya Pradesh, Vidarbha, Telangana, north Interior Mysore and the Arabian Sea Islands and below normal in Sub-Himalayan West Bengal, West Uttar Pradesh, the Punjab (I), Jammu and Kashmir, Rajasthan and Gujarat State. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in Gangetic West Bengal, Orissa and Telangana and below normal in Uttar Pradesh, the Punjab (I), Jammu and Kashmir, Rajasthan, west Madhya Pradesh, Gujarat State, the Konkan, Madhya Maharashtra and coastal Mysore. It was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in coastal Andhra Pradesh and below normal in Gangetic West Bengal, Bihar Plains, east Uttar Pradesh, Madhya Pradesh, Marathwada, Vidarbha and Rayalaseema. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was normal in the Bay Islands, Sub-Himalayan West Bengal, Orissa, Saurashtra and Kutch, the Madras State, coastal Mysore, Kerala and the Arabian Sea Islands and below normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

Poona 5;
The 28th May 1964.

R. Ananthakrishnan,
for DIRECTOR GENERAL OF OBSERVATORIES.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st—4th	North Afghanistan-Jammu and Kashmir	Kashmir	Scattered light rain or snow	3rd, 4th	Feeble upper air trough
2	5th—8th	Rajasthan-Western Himalayas	Jammu & Kashmir Himachal Pradesh Punjab (I) West Uttar Pradesh	Local/fairly widespread rain or snow Local/fairly widespread rain or snow Local/scattered rain or snow Scattered rain or snow	5th, 6th, 7th, 8th 6th, 7th, 8th 6th, 7th and 8th 6th and 7th	Active disturbance. Jammu 12 cm of rain and Banihal 7 cm on 7th
3	7th—14th	Baluchistan, Rajasthan, North Madhya Pradesh and adjoining Uttar Pradesh, Assam	Jammu & Kashmir Himachal Pradesh Punjab (I) West Uttar Pradesh	Widespread/scattered rain or snow Local/fairly widespread rain Fairly widespread/scattered rain Scattered/local rain or snow	9th and 10th 9th and 10th 9th and 10th 9th, 10th and 11th	As sea level low but weakened after 9th
4	10th—13th	Northern divisions of West Pakistan, Jammu & Kashmir	Jammu & Kashmir Himachal Pradesh Punjab (I) West Uttar Pradesh	Fairly widespread/ scattered rain or snow Fairly widespread rain Local/scattered rain or snow Local/scattered rain or snow	11th and 12th 11th and 12th 11th, 12th & 13th 12th and 13th	
5	13th—15th	Northern divisions of West Pakistan, The Punjab (I), Western Himalayas	Jammu & Kashmir Punjab (I)	Fairly widespread/scattered rain or snow Scattered/rain or snow	15th and 16th 15th	
6	20th—25th	Baluchistan, Punjab (I) Western Himalayas	Jammu & Kashmir Himachal Pradesh Punjab (I) West Uttar Pradesh	Local/Fairly widespread rain or snow Fairly widespread rain Scattered/local rain or snow Local/scattered rain or snow	21st, 22nd & 23rd 22nd and 23rd 21st, 22nd, 23rd, 24th 22nd, 23rd	Active as sea level low till 21st
6(a)	22nd—25th	West Uttar Pradesh, Assam	East Uttar Pradesh, Bihar Plains	Scattered rain Scattered rain	22nd 22nd and 23rd	Induced low

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity% 0830 hrs. IST	Relative humidity% 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
DIVISION								
1. Assam (Including Manipur and Tripura)	10·8	52	22·6	9·0	81	65	2·3	2·1
	−10·0		−0·5	−0·2	−4		−0·7	
2. West Bengal	0·1	1	25·6	12·6	68	54	1·1	1·0
	−11·5		+0·1	+0·6	−6		−0·6	
3. Orissa	0·1	1	28·8	16·4	74	60	1·7	1·7
	−10·2		+1·2	+1·3	+1		−0·1	
4. Bihar	2·0	11	24·6	9·9	67	53	1·0	0·9
	−16·5		+0·6	0	−6		−0·8	
5. Uttar Pradesh	3·8	16	22·6	6·4	71	46	1·0	1·3
	−20·1		−0·5	−1·5	−2		−1·1	
6. Punjab (India) Including Himachal Pradesh and Delhi*	20·2	49	18·0	1·8	82	52	2·3	2·5
	−21·3		−2·0	−1·3	+3		−0·6	
7. Jammu and Kashmir	53·0	86	4·4	−5·1	76	73	3·8	5·6
	−8·4		−2·9	−2·7	−5		−1·2	
Sub Division								
1. Bay Islands	16·2	36	30·1	22·0	71	78	2·9	3·5
	−29·3		+1·1	0	0		−0·3	
2. Assam (Including Manipur, Tripura).	10·8	52	22·6	9·0	81	65	2·3	2·1
	−10·0		−0·5	−0·2	−4		−0·7	
3. Sub-Himalayan, West Bengal.	0	0	22·6	8·8	79	57	0·6	1·0
	−11·8		−1·2	−0·9	−1		−1·0	
4. Gangetic, West Bengal.	0·1	1	26·5	13·8	65	53	1·3	1·1
	−11·4		+0·5	+1·1	−7		−0·1	
5. Orissa	0·1	1	28·8	16·4	74	60	1·7	1·7
	−10·2		+1·2	+1·3	+1		−0·1	
6. Bihar Plateau	1·8	8	25·7	11·2	62	50	1·1	1·2
	−21·8		+1·0	+0·6	−5		−0·7	
7. Bihar Plains	2·1	13	23·7	9·0	70	55	0·8	0·7
	−14·0		+0·2	−0·4	−7		−0·9	
8. Uttar Pradesh, East	0·1	0	22·9	6·8	73	45	0·8	1·2
	−23·9		−0·1	−1·6	−6		−1·1	
9. Uttar Pradesh, West.	8·8	33	20·5	5·9	76	47	1·2	1·5
	−17·6		−1·1	−1·5	+4		−1·1	
10. Punjab (India) (Including Delhi).	20·2	49	18·0	1·8	82	52	2·3	2·5
	−21·3		−2·0	−1·3	+3		−0·6	
11. Himachal Pradesh	74·9	..	16·7	3·9	91	63	3·5	2·3
	..		..	..	..		..	
12. Jammu and Kashmir	53·0	86	4·4	−5·1	76	73	3·8	5·6
	−8·4		−2·9	−2·7	+5		−1·2	
13. Rajasthan, West	1·2	18	21·1	5·5	61	34	1·4	1·8
	−5·6		−1·8	−2·1	−1		−0·8	
14. Rajasthan, East	0	0	22·7	6·6	57	29	1·0	1·4
	−7·8		−1·3	−2·1	+1		−0·8	
15. Madhya Pradesh (West).	0	0	25·4	8·3	55	31	0·9	1·1
	−11·1		−0·3	−1·6	−6		−1·0	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative Humidity% 0830 hrs. IST.	Relative Humidity% 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 17 hr IS
1	2	3	4	5	6	7	8	9
Division—Contd.								
8. Rajasthan	0·6	8	22·0	6·1	59	31	1·2	1
	−6·7		−1·5	−2·1	0		−0·8	
9. Madhya Pradesh	0	0	26·2	9·5	59	35	1·0	1
	−14·4		+0·3	−0·7	−6		−0·9	
10. Gujarat State	0·4	22	26·5	10·8	60	37	0·9	0
	−1·4		−1·7	−1·9	+2		−0·3	
11. Maharashtra State	0	0	29·9	14·2	57	35	0·9	1
	−4·9		+0·5	−0·7	−4		−0·7	
12. Andhra Pradesh	0·3	1	30·8	17·7	76	48	1·2	1
	−6·9		+1·1	+0·5	+3		−1·1	
13. Madras State	5·2	15	29·5	19·9	78	56	2·9	2
	−30·2		+0·2	−0·5	−2		−0·4	
14. Mysore	0	0	30·4	16·2	68	38	1·0	1
	−3·6		+0·7	−0·2	+1		−1·1	
15. Kerala	1·5	9	31·1	22·1	72	63	2·3	2
	−15·1		−0·1	−0·2	−3		−0·3	
Sub Division—contd.								
16. Madhya Pradesh (East).	0·1	1	27·2	11·0	64	39	1·1	1
	−18·6		+1·1	+0·4	−7		−0·8	
17. Gujarat Region	0	0	28·3	10·5	61	29	0·7	0
	−2·0		−1·5	−1·8	0		−0·5	
18. Saurashtra and Kutch.	0·6	37	25·3	10·9	59	42	1·0	1
	−1·0		−1·8	−1·9	+3		−0·2	
19. Konkan	0	0	28·1	17·4	65	60	0·8	0
	−1·9		−0·9	−1·2	−3		−0·6	
20. Madhya Maharashtra.	0	0	31·1	11·3	57	26	0·7	0
	−2·7		+1·0	−1·5	0		−0·6	
21. Marathwada	0	0	30·3	13·6	45	23	0·8	0
	−7·1		+0·7	−0·1	−7		−0·8	
22. Vidarbha	0	0	30·0	14·5	53	30	1·0	1
	−9·6		+1·1	+0·2	−8		−0·8	
23. Coastal Andhra Pradesh.	0·7	8	29·9	18·8	83	62	1·4	1
	−8·4		+0·9	+0·4	+6		−1·2	
24. Telangana	0	0	31·6	16·8	74	37	1·3	1
	−5·6		+1·7	+1·1	+4		−0·7	
25. Rayalaseema	0	0	31·7	16·8	65	33	0·5	0
	−5·9		+0·8	−0·7	−6		−1·3	
26. Madras State	5·2	15	29·5	19·9	78	56	2·9	2
	−30·2		+0·2	−0·5	−2		−0·4	
27. Coastal Mysore	0	0	30·7	18·8	76	60	2·1	1
	−2·4		−0·7	−1·2	+5		0	
28. Interior Mysore, North.	0	0	31·1	16·4	61	31	0·7	0
	−4·4		+1·1	+0·3	0		−0·9	
29. Interior Mysore, South.	0	0	29·7	15·0	71	33	0·7	0
	−3·5		+0·8	−0·3	0		−1·8	
30. Kerala	1·5	9	31·1	22·1	72	63	2·3	2
	−15·1		−0·1	−0·2	−3		−0·3	
31. Arabian Sea Islands.	2·5	8	31·7	23·6	75	67	2·6	2
	−29·2		+1·7	+0·5	+2		−0·3	

NOTE.—The entries in the *second line* for each division and sub division indicate departures from normal.

*Data for Himachal Pradesh not included

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·9	..	29·8	2 2	21·6	..	19·4	29	0	0·8	..	0·8	22	0	..	13·0	8·7	..	0	1	0	0	0	0	0	0	0	0	0
Long Island	29·2	..	30·1	25	20·4	..	18·2	31	5·2	50·6	..	43·2	21	2	..	5·4	3·2	..	0	2	0	0	0	0	0	0	0	0	0
Port Blair	30·1	+1·1	31·5	24	22·0	..	18·6	28	0	16·2	—29·3	11·8	21	2	—0·3	10·3	8·2	—5·5	0	2	0	0	0	0	0	0	0	0	0
Carnicobar	29·9	..	30·4	10	25·1	..	21·1	28	28.0	62·3	..	25·2	21	6	..	9·5	7·2	..	0	7	0	0	0	0	0	0	0	0	0
Nancowry	31·8	..	32·8	10	25·0	..	22·9	8	69·2	257·3	..	153·3	19	7	..	0	0·0	..	1	8	0	0	3	0	0	0	0	0	0
Kondul	28·6	..	29·6	21	26·0	..	23·0	20	47·1	173·7	..	72·6	18	4	..	..	..	..	2	9	0	0	3	0	0	0	0	0	0
Assam (including Manipur, Tripura)																													
Panighat	20·4	..	24·8	10	11·8	..	8·2	31	17·2	55·4	..	9·8	14	8		9·9	13·8	..	0	11	0	0	6	0	0	0	0	0	0
Dibrugarh (Mohanbari)	21·5	—0·1	24·7	10	8·5	+0·4	6·1	8	11·4	42·7	+1·0	10·8	13, 30	5	+1·3	4·8	2·9	+0·8	1	9	0	0	4	10	0	0	0	0	0
Digboi (R) North Lakhimpur	21·9	+0·9	25·3	10	8·6	—0·3	5·1	21	8·1	20·4	—18·7	5·6	24	4	+0·7	4·4	2·8	..	2	6	0	1	1	3	0	0	0	0	0
Sibsagar	22·3	+0·9	24·9	10	10·3	+0·5	6·8	31	2·0	25·6	—5·1	10·8	11	3	—0·5	2·5	1·8	0	0	4	0	0	0	0	0	0	0	0	0
Gohpur	21·7	..	23·3	11	9·2	..	5·6	21	0	6·2	..	6·2	13	1	..	3.7	3.3	..	0	1	0	0	0	9	0	0	0	0	0
Majbat	23.4	..	25.9	10	8.8	..	5.2	26	0	10·4	..	10·4	13	1	..	4·8	2·9	..	0	1	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	22.4	..	25·0	9	9·5	..	6·8	21,28	1·0	5·5	..	5·5	13	1	..	..	..	..	0	1	0	0	2	12	0	0	0	0	0
Tangla	24·2	..	26·3	4 days	8·7	..	4·3	30	0	0	..	0	..	0	..	3·0	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	23·1	—0·1	25·3	11	10·7	—0·7	7·9	26,30 31	0	5·6	—9·1	5·6	13	1	—0·5	4·9	3·4	+0·7	0	1	0	0	0	0	0	0	0	0	0
Golaghat	22·7	..	25.0	14	10·4	..	7.8	4 days	(d) 0	15·4	..	..	..	..	..	(d) 2.5	1.9	..	0	1		0	0	0	0	0	0	0	0
Rangia	24·3	..	26·9	7	10·1	..	5·3	30	0	3·0	..	3·0	13	1	..	(c) 4·5	(d) 2·6	..	0	1	0	0	0	0	0	0	0	0	0
Chapartmukh (R)																													
Gopalpara	24·3	..	26·7	13	8·0	..	3·3	27,31	0	0	..	0	.	0	..	4·9	(a) 2·2	..	0	0	0	0	0	1	0	0	0	0	0
Gauhati (R).																													
Gauhati (Bhorjor)	23·3	—0·4	25·7	12	8·0	—0·4	3·0	30	0	1·6	—8·1	1·6	13	0	—1·1	5·1	5·0	..	0	1	0	0	2	5	0	0	0	0	0
Dhurbi (Rupsi)	23·4	..	26·3	12	7·6	..	2·4	30	0	0	..	0	..	0	..	6·8	4·2	..	0	0	0	0	0	1	0	0	0	0	0
Dhubri	..	..	..	..	11·3	—0·5	7·8	31	0	0	—7·9	0	..	0	—0·8	7·5	5·2	+0·2	0	0	0	0	0	7	0	0	0	0	0
Lumding	24·8	+1·7	29·1	12	7·1	—1·3	2·1	28	0·5	0·5	—13·7	0·5	14	0	—1·4	3·4	2·7	..	0	1	0	0	0	4	0	0	0	0	0
Tura	22·3	..	25·6	12	8·4	..	4·4	28	0	0	..	0	..	0	..	4·8	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Haflong	20·3	..	23·9	10	10·5	..	6·3	29	1·4	11·6	—5·2	10·2	13	1	—0·1	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	23·6	..	26·8	8	11·2	..	6·2	19	0	19·0	..	14·3	13	2	..	5·5	7·5	..	0	2	0	0	1	1	0	0	0	0	0
Silchar	21·3	—4·3	26·5	10	11·8	+0·5	6·2	31	0	7·8	—11·8	6·0	13	1	—0·5	2·3	1·2	—0·6	0	2	0	0	1	0	0	0	0	0	0
Imphal (Tulihal)	20·3	—0·8	23·1	10	4·4	+0·8	—1·8	19	0	2·4	—14·9	2·4	13	0	—1·7	8·1	5·7	+0·8	0	2	0	0	0	6	0	3	0	0	0
Kailashahar	24·8	..	28·3	13	10·4	..	3·7	31	4·4	8·2	..	8·0	23	1	..	4·1	2·3	..	1	1	0	0	0	3	0	0	0	0	0
Agartala	25·0	—0.5	29·4	13	9·2	—1.2	3·5	31	0·6	0·6	—16·6	0·6	23	0	—1·3	6·8	5·4	+1·6	0	1	0	0	0	4	0	0	0	0	0
SUB-HIMALAYAN West Bengal																													
Baghdogra	25·4	—0·6	26·4	9, 10	6·8	—1·9	2·9	30	0	0	—18·9	0	..	0	—1·6	7·5	6·8	+3·1	0	0	0	0	0	1	0	0	0	0	0
Jalpaiguri	20·3	—3·3	23·7	13	8·9	—1·7	4·0	30	0	0	—7·9	0	..	0	—0·7	5·4	3·7	+2·3	0	0	0	0	0	2	0	0	0	0	0
Cooch Bihar	23·4	..	26·5	10	8·0	..	3·3	30,31	0	0	—6·6	0	..	0	—0·5	4·7	2·1	..	0	0	0	0	0	19	0	0	0	0	0
Baturghat	24·7	..	29·3	12	9·3	..	4·1	28	0·1	0·1	..	0·1	13	0	..	3·2	3·2	..	1	0	0	0	0	0	0	0	0	0	0
Malda	24·0	+0.4	29·4	13	10·8	+0·8	6·4	27,28, 31	0	0	—13·7	0	..	0	—0·9	8·3	3·1	+0·8	0	0	0	0	0	1	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	25·5	+0·7	31·8	12	11·5	—0·3	6.3	27	0	1·0	—8·7	1·0	15	0	—1·0	0·3	0·1	—1·7	0	0	0	0	0	13	0	0	0	0	0
Suri	25·3	..	30·8	12,13	12·4	..	7·3	28	..	14·8	..	14·8	22	1	..	..	..	..	0	1	0	0	0	1	0	0	0	0	0
Asansol	26·7	+1·3	31·6	11	10·6	—0·9	4·8	28	0	0	—17·0	0	..	0	—1·4	7·9	4·4	—0·9	0	0	0	0	0	0	0	0	0	0	0
Shanti Niketan	25·9	..	31·4	11,13	11·7	..	6,6	28	0	0·2	..	0·2	22	0	..	6·3	6·1	..	1	0	0	0	0	1	0	0	0	0	0
Krishnanagar	26·3	+0·7	32·2	12,13	12·0	+1·1	6·1	18, 19,28	0	0	—11·4	0	..	0	—0·9	2·1	0·8	—1·0	0	0	0	0	0	0	0	0	0	0	0
Purulia	25·9	—0.2	30·7	11,12	13·2	+0·4	8·7	28	9	0	—8·9	0	..	0	—1·1	8·9	6·5	+3·5	0	0	0	0	0	0	0	0	0	0	0
Bankura	27·4	..	32·5	11,13	12.3	..	7.5	28	0	0	—14·7	0	..	0	—1·2	2·1	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	27·3	+1·2	32·5	11,12	13·5	+0·9	8·9	31	0	0	—11·4	0	..	0	—0·9	5·6	4.2	+2·3	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	25·8	..	29·7	12	13.2	..	7.2	19	7·9	7·9	..	7·9	16	1	..	..	..	..	0	1	0	0	0	4	0	0	0	0	0

(a) Mean of 30 day (c) Mean of 28 days. (d) Mean or Total for 27 days. (R) Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetre					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum)	26·8	+0·5	32·0	12	13·4	+0·8	7·8	19	0	0	—8·6	0	..	0	—1·1	17·0	4·2	+0·2	0	0	0	0	0	11	0	0	0	0	0
Calcutta	27·5	+1·1	32·6	12	15·2	+2·6	10·0	19,30	0	0	—9·4	0	..	0	—0·8	7·2	4·5	+1·3	0	0	0	0	0	4	0	0	0	0	0
Midnapore	27·2	+0·1	32·5	13	14·5	+1·4	9·6	30	0	0	—11·9	0	..	0	—0·9	5·3	3·9	+1·3	0	0	0	0	0	0	0	0	0	0	0
Contai	26·6	—0·2	30·0	12	16·3	+1·7	11.7	30	0	0	—13·5	0	..	0	—1·0	5·8	3·1	—1·1	0	0	0	0	0	2	0	0	0	0	0
Sagar Island	25·1	+0·1	27·4	14	17·6	+2·8	12·9	19	0	0	—10·4	0	..	0	—0·9	15·5	12·3	+3·4	0	0	0	0	0	15	0	0	0	0	0
Sandheads	27.3	..	32·4	12	21·7	..	13·2	31	0	0	—4·8	0	..	0	—0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	28·6	..	33·4	23	14·2	..	9·3	30	0·4	1·6	..	1·2	4	0	..	3·5	1·7	..	0	2	0	0	0	1	0	0	0	0	0
Jharsuguda	28·7	+1·1	31·4	25	18·4	+0·7	9·4	17	0	0	—15·5	0	..	0	—1·3	7·3	5·8	0	0	0	0	0	0	0	0	0	0	0	0
Keonjhargarh	27·4	..	30·4	10	13·8	..	9·6	31	2·2	2·2	..	2·2	21	0	..	6·1	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Balasore	27·8	+0·6	32·1	23	14·9	+1·4	10·5	18,30	0	0	—13·5	0	..	0	—1·0	8·1	5·3	+2·4	0	0	0	0	0	3	0	0	0	0	0
Sambalpur	30·4	+2·7	33·4	28	14·0	+1·2	10·0	2,4	0	0	—10·9	0	..	0	—0·9	2·7	1·8	—1·6	0	0	0	0	0	0	0	0	0	0	0
Angul	28·9	+1·2	32·2	24	15·4	+2·0	11·1	30	0	0	—11·2	0	..	0	—0·9	7·0	3·9	—0·9	0	0	0	0	0	4	0	0	0	0	0
Cuttack	29·9	+1·5	33·4	26	18·0	+2·6	13·7	30	1·2	1·2	—6·9	1·2	21	0	—0·7	5·0	2·8	+1·0	0	1	0	0	0	11	0	0	0	0	0
Chandbali	28·5	+1·1	31·9	24.25	15·9	+1·5	11·0	30	0	0	—5·1	0	..	0	—0·7	8·8	6·8	+1·0	0	0	0	0	0	8	0	0	0	0	0
Bolangir	30·7	..	33·3	18	14·9	..	10·8	30	0	0	..	0	..	0	..	4·4	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Phulbani	28·0	..	29·9	23	10·9	..	6·7	17,30	0	0	..	0	..	0	..	4·8	1·9	..	0	0	0	0	0	0	0	0	0	0	0
Titlagarh	31·8	..	33·1	14.22, 23	15·9	..	11·5	17	0	0	..	0	..	0	..	3·0	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	29·4	+0·8	21·7	14	17·0	+1·1	11·1	17	0	0	—11·6	0	..	0	—0·7	13·0	9·2	+0·1	0	0	0	0	0	7	0	0	0	0	0
Puri	27·4	+0·7	29·3	27	20·4	+2·8	15·6	30	0	0	—10·4	0	..	0	—0·6	16·0	15·9	+5·9	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	28·0	+1·0	29·5	27	18·5	—1·5	15·9	1	0	0	—7·1	0	..	0	—0·5	16·2	11·3	+1·5	0	0	0	0	0	2	0	0	0	0	0
Koraput (R)		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	—	..	..	..
Bihar Plateau																													
Dumka	25·5	+1·1	31·1	1	10·4	—0·1	5·4	19,27	0	0·2	—16·8	0·2	22	0	—1·3	4·7	3·1	+1·0	1	0	0	0	0	1	0	0	0	0	0
Daltonganj	22·6	—1·8	23·1	20	10·2	+1·6	5·8	30	0	0	—23·4	0	..	0	—1·9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	22·5	—0·2	27·8	12	9·7	—0·5	4·2	31	0	0	—22·6	0	..	0	—1·9	11·0	8·7	+0·3	0	0	0	0	0	1	0	0	0	0	0
Dhanbad	25·8	..	31·0	11	13·0	..	7·5	30	0	0	..	0	..	0	..	2·1	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Ranchi	25·3	+2·2	30·7	14	10·0	—0·6	5·9	18.20	0	9·0	—44·4	5·0	21	2	+0·2	8·7	7·0	+1·4	0	2	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	23·6	..	27·8	11	11·3	..	6·7	18	0	0	..	0	..	0	..	11·3	9·0	..	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur	27·7	+0·8	32·2	11	13·4	+2·7	8·0	30	0	0	—9·1	0	..	0	—0·9	6·4	4·8	+2·4	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	26·9	..	31·4	11	12·9	..	7·5	30	0	0	..	0	..	0	..	6·8	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Chaibasa	27·5	+1·3	31·5	11,12	12·7	+1·4	8·1	31	0	0	—16·3	0	..	0	—1·4	3·7	2·1	0	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	..	..	..	..	7·7	—0.6	..	..	0	0·3	—11·6	0·3	22	0	—1.1	(e) 3·7	(g) 1·7	—0·7	..	1	0	0	0	0	0	0	0	0	0
Forbesganj	23·6	..	26·8	4days	7·9	..	3·3	30	0	0	..	0	..	0	..	9·0	5·2	..	0	0	0	0	0	3	0	0	0	0	0
Darbhanga	23·2	—0·3	30·0	13	9.9	0	5·4	27	0	0	—11·2	0	..	0	—1·0	3·6	3·0	+0·7	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	—13·2	0	..	0	—1·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	24·8	..	29·9	12	9·7	..	4·9	26	0	0·3	—14·2	0·3	12	0	—1.3	4·9	2·8	..	0	1	0	0	0	0	0	0	0	0	0
Purnea	23·7	0	28·0	12	7·7	—1·0	2·3	31	0	0	—10·4	0	..	0	—0·8	8·0	4·1	+1·8	0	0	0	0	0	1	0	0	0	0	0
Patna	23·7	+0·9	30·3	12	10·7	+0·1	5·7	19	0	13·4	—1·6	13·0	22	1	—0·3	7·1	6·6	+3·1	0	2	0	0	3	2	0	0	0	0	0
Patna Aerodrome	23·1	..	28·8	12	9·0	..	3·5	19	0	19.2	..	17·3	22	1	..	8·5	4·2	..	0	2	0	0	1	2	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	—17·0	0	..	0	—1·3	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhagalpur	24·1	+0·1	29·5	12.13	10·9	—0·9	6·7	20	2·4	2·4	—32·1	2·4	23	0	—1·8	10·4	6·3	+1·3	0	1	0	0	0	3	0	0	0	0	0
Sabaur	23·5	+0·2	27·2	10	7·9	+0·7	2·7	28	3·0	3·0	—10·7	3·0	23	1	—0·1	9·5	4·9	—0·1	0	1	0	0	1	2	0	0	0	0	0
Jamui	24·4	..	29·5	12	9·8	..	4·4	19,28	0	0	..	0	..	0	..	6·2	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	23·9	..	29·7	12	..	..	..	..	0	3·6	—13·7	3·6	22	1	—0·5	7·5	5·4	..	0	1	0	0	0	0	0	0	0	0	0
Gaya	23·7	+0·2	29·5	12	8·8	—0·8	3·0	27	0	0	—18·3	0	..	0	—1·3	8·3	5·3	+0·2	0	0	0	0	0	1	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri	22·6	+0·4	26·5	11	7·0	—2·1	2·4	27,28	0	0	—43·9	0	..	0	—3·2	5·9	3·9	+1·6	0	0	0	0	0	0	0	16	0	0	0
Baharaich	23·2	+0·6	28·1	11	7·0	—1·4	2·1	27	0	0	—20·8	0	..	0	—1·6	8·5	5·5	+2·9	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	24·2	..	28·4	10	5·9	..	1·0	30	0	0	..	0	..	0	..	4·5	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	22·0	—0·1	27·5	9	5·8	—2·7	0·7	27	0	0	—38·8	0	..	0	—2·8	9·0	6·3	+1·8	0	0	0	0	0	10	0	0	0	0	0
Gonda	22·7	—0·5	27·0	11,12	5·7	—2·0	1·0	27.31	0	0	—12·9	0	..	0	—1·2	7·5	5·5	+1·2	0	0	0	0	0	0	0	0	0	0	0

(e) Mean of 26 days. (g) Mean of 24 days. (R) Register not received

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5) mm. or more		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East) —*Contd.*																(h)	(i)													
Lucknow	22.3	—1·0	..	—	7·1	—1·3	..	..	..	..	..	..	..	..	..	2·5	2·3	+0·2	..	..	..	..	..	..	..	..	..	..	..	..
Lucknow Aerodrome	22.5	—0·4	28·6	9	4·9	—2·7	—1·0	31	0	0	—19.3	0	..	0	—1·5	11·9	8·1	..	0	0	0	0	0	3	0	0	0	0	0
Faizabad	22.9	..	27·7	12	5·5	..	0·8	27	0	0	..	0	..	0	..	5·2	2·7	..	0	0	0	0	0	8	0	0	0	0	0
Gorakhpur	23.8	+1·0	28·8	12	8·7	—0·5	4·3	27	0	0·4	—14·6	0·4	22	0	—1·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	22.8	+0·6	30·7	10	7·6	0	2·9	19,20	0	0	—14·2	0	..	0	—1·4	13·6	11·8	+3·1	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	23.0	..	30·3	10	6·7	..	0·8	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Sultanpur	23.3	..	29·0	11	7·5	..	2·9	19,20	0	0	..	0	..	0	..	5·7	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	23.7	..	28·9	11	7·9	..	3·3	17,27	0	0	..	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	23·2	—0·8	30·5	10	6·4	—1·6	1·4	17	0	0	—13·7	0	..	0	—1·4	8·7	4·4	+1·2	0	0	0	0	0	0	0	0	0	0	0
Ballia	23·5	..	28·5	12	6·0	..	1·6	27	3·6	3·6	..	3·6	22	1	..	6·1	3·6	..	0	1	0	0	0	0	0	8	0	0	0
Banda	24·3	..	32·4	10	7·8	..	3·3	3	0	0	..	0	..	0	..	2·0	0·7	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	23·7	—0·1	29·8	10,12	7·5	—0·9	2·7	17	0	0	—21·6	0	..	0	—1·1	7·0	3·8	—0·4	0	0	0	0	0	1	0	0	0	0	0
Varanasi (Babatpur)	23·2	0	29·4	12	6·7	—2·6	2·0	19	1·0	1·0	—22·5	1·0	22	0	—2·1	11·6	8·7	+2·0	0	1	0	0	0	1	0	0	0	0	0
Varanasi	23·1	—0·3	29·4	12	7·6	—1·3	2·5	19	0	0	—18·8	0	..	0	—1·5	7·0	4·9	+1·4	0	0	0	0	0	8	0	0	0	0	0
Uttar Pradesh West																														
Mukhim	11·1	..	14·4	5	1·8	..	—1·5	15	24·1	41·7	..	33·3	9	4	..	..	..	..	0	9	2	0	0	0	0	0	0	0	0
Tehri	18·3	..	22·2	2	5·2	..	1·0	16	15·4	45·1	..	19·0	9	5	..	2·0	1·4	..	0	8	1	0	0	0	5	0	0	0	0
Dehra Dun	17·8	—1·1	21·4	1	5·0	—1·7	0·2	26	15·6	55·5	—3·4	22·5	9	5	+1·1	4·0	2·9	+0·5	1	7	0	0	1	0	0	6	0	0	0
Mussoorie	9·0	..	13·1	11	0·1	..	—3·5	15	..	47·8	..	25·0	10	4	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Roorkee	19·1	—1·1	24·3	7	4·4	—2·1	—0·2	26	3·1	14·6	—27·8	5·6	9	3	+0·2	7·4	5·0	+2·1	0	5	0	0	1	0	0	7	0	0	0
Najibabad	20·4	..	26·1	7	4·1	..	—2·9	29	7·8	11·6	..	7·8	10	2	..	7·1	5·4	..	0	2	0	0	2	1	0	0	0	0	0
Meerut	21·9	+0·8	27·1	9	6·7	—0·5	4·2	29	..	0	—31·7	0	..	0	—2·5	..	13·5	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	21·6	0	26·2	8,9	7·4	—0·5	2·7	27	0	0	—25·1	0	..	0	—1·9	10·5	7·9	+5·5	0	0	0	0	1	0	0	0	0	0	0
Aligarh	17·8	—3·8	25·7	8	5·4	—1·9	1·0	25	0	0	—11·7	0	..	0	—1·2	15·3	10·3	+5·0	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	21·8	—1·1	28·2	9	5·6	—2·0	2·0	16,18	0	0	—14.5	0	..	0	—1·3	5·1	3·9	+1·6	0	0	0	0	0	0	0	0	0	0	0
Agra	20·6	—1·7	27·5	8	5·7	—1·1	2·0	16,17	0	0	—12.9	0	..	0	—1·2	4·6	3·0	—1·3	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	21·1	..	28·1	8	4·5	..	—0·7	26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai	22·0	..	30·1	10	7·6	..	2·4	27	0	0	..	0	0	0	..	8·0	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	23·4	—1·1	31·0	9	6·6	—2·0	1·8	27	0	0	—13·7	0	0	0	—1·2	3·4	3·2	—0·3	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (including Delhi)																														
Pathankot	16·0	—2·4	20·1	5	4·4	—1·2	—1·8	28	15·7	61·5	—30·7	14·9	9	7	+1·8	..	..	..	0	8	0	0	1	1	0	0	1	0	0
Amritsar (Rajasansi)	16·7	—2·2	21·2	2	3·0	—1·7	—1·6	28	10·6	32·9	—4·2	14·6	9	5	+2·1	4·8	2·9	—3·8	0	8	0	0	0	4	0	8	0	0	0
Adampur Aerodrome	17·4	..	21·4	2	1·7	..	—4·9	28	2·0	24·1	..	7·1	15	5	..	..	..	..	0	7	0	0	3	10	0	0	0	0	0
Ludhiana	18·5	—0·9	22·7	4	3·9	—2·6	—2·2	25	0·2	0·2	—38·1	0·2	11	0	—2·7	7·2	4·2	+2·1	1	0	0	0	0	0	0	0	0	0	0
Ferozepore	17·5	..	21·8	1	2·6	..	—2·9	29	3·0	16·6	..	5·2	8	4	..	4·5	3·1	..	0	5	0	0	0	2	0	0	0	0	0
Halwara Aerodrome	17·7	..	21·4	8	2·4	..	—2·8	27,28	1·6	8·8	..	3·2	8	2	..	..	..	..	0	4	0	0	1	6	0	0	0	0	0
Chandigarh	17·7	—2·4	22·6	7	6·7	—0·6	1·5	26	5·0	25·2	—30·8	8·2	9	4	—0·6	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Ambala	18·7	—1·9	24·2	11	6·0	—0·3	0·9	25	2·2	20·2	—13·3	9·2	11	3	+0·5	9·0	8·5	+4·5	0	3	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	17·9	..	22·7	7	4·5	..	—1·1	30	2·8	19·0	..	9·8	11	3	..	..	..	..	0	5	0	0	2	3	0	2	0	0	0
Patiala	16·5	..	23·3	7	5·5	..	1·1	15	7·1	14·3	—23·3	11·1	9	1	—2·0	11·1	9·0	..	0	3	0	0	0	8	0	0	0	0	0
Bhatinda	19·1	..	22·9	6,7	3·3	..	—2·0	15	0	2·8	..	2·8	8	1	..	2·3	2·6	..	0	1	0	0	0	1	0	0	0	0	0
Karnal	17·8	..	24·0	7	4·7	..	0	25,26, 31	2·0	13·0	..	11·0	9	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	19·4	—2·2	25·2	8	4·4	—0·8	—0·4	26	0·6	7·3	—5·4	6·7	9	1	—0·4	6·3	5·6	+0·3	0	2	0	0	1	2	0	0	0	0	0
New Delhi (Safdarjung)	19·2	—1·9	25·9	8	5·4	—1·9	1·0	26	0	0·2	—24·9	0·2	22	0	—2·0	15·6	10·0	+1·0	1	0	0	0	0	4	0	0	0	0	0
Palam Aerodrome	19·0	..	25·6	8	4·3	..	—0·8	26	0	0	..	0	0	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Himachal Pradesh																														
Mandi	16·0	—1·7	21·9	2	3·3	—0·4	0·1	31	24·2	93·8	+11·8	28·6	6	9	+2·8	1·7	1·5	—0·7	0	9	0	0	3	11	0	0	0	0	0
Bilaspur	17·3	..	24.0	4	4·5	..	0	6	7·8	55·9	..	22·0	10	7	..	3·7	0·7	..	..	7	0	0	5	0	0	0	2	0	0

(h) Mean of 23 days.

(a) Mean of 22 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. or 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	.	..						..	23·0	−74·3	5·0	7	3	−6·6	0	..	..	0	11	0	0	0	0	0	0	0	0	0
Sonemarg (R)																													
Leh	−5·5	−4·1	3·6	11	−18·0	−4·7	−27·5	30	12·4	29·8	+20·1	8·0	8	5	+4·0	2·7	2·7	+0·9	0	10	13	0	0	0	0	0	0	0	0
Srinagar	1·7	−3·3	5·7	1	−3·0	−0·4	−9·8	24	28·6	85·3	+11·6	26·9	7	6	−0·1	..	..	..	0	1.	16	0	0	5	0	17	0	0	0
Srinagar Aerodrome	1·1	.	4·5	1	−3·8	..	13·9	24,25	54·2	163·9	..	97·8	22	7	..	..	..	..	0	9	19	0	0	6	0	0	0	0	0
Gulmarg									Closed during Winter Month																				
Qazigund	1·6	..	7·2	9	−7·3		−15·7	25	113·9	337·7	..	108·4	22	12	..	4·6	5·5	..	0	17	18	0	0	1	0	0	0	0	0
Banihal	6·1	..	14·4	5	−4·3	..	−12·6	25	142·1	403·5	..	73·4	7	12	..	6	6	..	0	15	13	0	1	1	0	0	0	0	0
Jammu	17·0	−1·4	21·4	1	5·8	−3·0	2·1	25	31·8	73·9	+9·1	15·2	22	8	+4·1	6·5	8·3	..	0	8	0	0	0	2	0	0	0	0	0
Jammu (Aerodrome)	15·7	..	20·7	5	5·9	..	1·1	27	26·0	79·3	..	18·0	6		..	..	..	..	0	8	0	0	2	2	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	17·5	−2·9	21·0	7	4·2	−2·2	−1·8	25	0	3·7	−11·4	3·7	8	1	−0·6	5·1	2·6	−0·5	0	1	0	0	0	8	0	0	0	0	0
Anupgarh (R)																													
Mahajan	(c) 19·8	.			3·	.	••	.		..	.	..		..	..	(h) 6·8	(h) 4·4	••	.	..	..	..	..	.	••	..	..	••	..
Churu	19·7	.	26·0	8	2·3		−4·4	26	0	0	..	0	0	0	0	7·2	4·9	..	0	0	0	0	0	2	0	0	0	0	0
Bikaner	20·6	−1·5	28·3	7	2·4	−2·5	−4·0	26	0	0·9	−6·0	0·9	9	0	0·8	4·7	2·2	−2·6	0	1	0	0	0	0	0	0	0	0	0
Nagaur	18·4		23·9	8	4·9	.	−2·0	23	0	0	..	0	0	0	.	7·1	5·5	..	0	0	0	0	0	1	0	0	0	0	0
Phalodi	20·4	..	28·1	7	4·4	..	−1·2	16	0	1·6	−2·2	1·6	1	0	−0·3	9.6	6·1	..	0	1	0	0	0	0	0	0	0	0	0
Jaisalmer	21·2	.	26·5	5	5·8		−2·2	25	0	0	..	0	0	0	..	8·1	6·4	..	0	0	0	0	0	1	0	0	0	0	0
Jodhpur	23·0	−1·6	31·.	8	6·7	2·5	0·6	26	0	0	−3·8	0	.	0	−0·3	8·4	7·5	−3·6	0	0	0	0	0	0	0	0	0	0	0
Barmer	23·3	−1·4	29·1	7	8·7	1·3	2·7	23	0	0	−4·6	0	0	0	0·4	7·3	6·3	−1·3*	0	0	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	19·9	.	26·4	8	1·8	.	−3·9	16,25	0	0	..	0	0	0	..	7·7	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	16·6	.	29·3	8	4·1	..	0·3	16,31	0	0	..	0	0	0	..	8·9	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	20·3	..	29·0	8	6·6	..	2·4	16	0	0·8	..	0·8	22	0	..	3·4	1·6	..	0	1	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	21·0	−1·6	28·5	8	5·1	−3·1	−2·0	16	0	0	−11·2	0	0	0	−1·0	..	..	..	0	0	0	0	0	0	0	0	0	3	0
Dholpur	21·5	.	27·6	9	4·8	..	0·2	17	0	0	..	0	0	0	..	4·5	3·3	.	0	0	0	0	0	0	0	0	0	0	0
Ajmer	21·5	−1·1	28·5	9	4·9	−2·7	−0·6	23	0	0	−9·4	0	0	0	−1·0	6·8	3·9	+1·3	0	0	0	0	0	0	0	0	0	0	0
Tonk	20·5	..	30·1	9	4·5	..	0·5	19	0	0	..	0	0	0	..	5·0	4·0	.	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	22·5	..	29·8	9	6·3	..	2·5	26	0	0	..	0	0	0	..	6·4	2·9	.	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	23·0	..	31·4	9	9·1	.	5·4	26	0	0	..	0	0	0	..	6·3	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Kota	23·8	−1·3	31·5	9	9·4	−1·2	5·4	26	0	0	−6·1	0	0	0	−0·6	2·5	1·7	−0·4	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	24·5	..	31·6	7	6·2	..	0	16	0	0	..	0	0	0	..	3·3	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam).	24·7	..	30·4	9	8·1	..	3·8	27	0	0	..	0	0	0	..	5·8	3·6	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	23·2	−1·1	29·2	8	5·8	−2·8	2·0	24	0	0	−5·1	0	0	0	−0·4	3·4	1·5	.	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	24·0	−1·5	30·9	9	7·9	−0·9	4·3	28	0	0	−7·1	0	0	0	−0·7	6·3	3·6	+0·4	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	22·1	−0·8	30·0	9	5·1	−2·7	−0·5	27	0	0	−18·8	0	..	0	−1·5	8·5	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	23·4	−1·1	30·6	9	5·2	−2·6	0·8	26	0	0	−15·3	0	..	0	−1·9	7·5	5·5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	22·9	..	30·0	9	3·2	..	−2·5	26	0	0	..	0	..	0	..	5·2	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	23·4	−0·4	31·1	9,10	4·9	−3·2	0·9	18	0	0	−15·0	0	..	0	−1·5	3·2	1·4	−0·4	0	0	0	0	0	0	0	0	0	0	0
Guna	25·1	0	31·2	9	5·8	−1·8	0·9	27	0	0	−6·6	0	..	0	−1·2	9·1	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	23·6	−1·5	29·9	9	8·3	−0·9	4·2	27	0	0	−5·1	0	..	0	−0·4	8·0	6·2	−0·2	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	25·3	..	31·7	9	6·8	..	2·5	27	0	0	..	0	..	0	..	9·0	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	24·4	−0·8	31·3	10	10·1	−1·3	5·3	25,27	0	0	−14·5	0	..	0	−1·3	7·1	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	25·4	−1·1	31·3	9	9·2	−1·9	6·1	14	0	0	−8·0	0	..	0	−0·7	10·3	9·3	+1·3	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	25·3	−1·0	30·4	9	8·8	−1·1	4·4	27	0	0	−6·1	0	..	0	−0·8	11·9	9·7	+1·5	0	0	0	0	0	0	0	0	0	0	0

(R)—Register not received. (c) Mean for 28 days. (h) Mean for 23 days. *Departure indicated refers to 1940 normals accepted provisionally.

	Air Temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 or 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) *(Contd.)*																													
Ujjain	25·8	..	31·0	9	7·0	..	3·6	24	0	0	..	0	..	0	..	10·5	6·4	..	0	0	0	0	0	19	0	0	0	0	0
Narsinghpur	26·8	..	32·0	9	7·1	..	2·1	28	0	0	..	0	..	0	..	5·5	3·0	..	0	0	0	0	0	1	0	0	0	0	0
Hoshangabad	26·8	−0·1	30·9	9	10·9	−1·4	8·5	27	0	0	−10·2	0	..	0	−0·9	6·5	5·7	+2·3	0	0	0	0	0	0	0	0	0	0	0
Indore	25·7	−0·7	30·2	9,10	7·4	−2·3	3·4	27	0	0	−6·1	0	..	0	−0·5	11·2	9·1	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	26·8	..	32·2	9	8·5	..	3·2	24	0	0	..	0	..	0	..	6·9	3·6	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	27·4	+1·3	29·9	10	9·9	−0·7	6·5	16	0	0	−21·1	0	..	0	−1·6	7·2	4·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Seoni	27·2	+1·2	30·2	9	11·8	+0·7	9·0	16	0	0	−14·0	0	..	0	−1·2	8·8	6·1	+2·4	0	0	0	0	1	0	0	0	0	0	0
Betul	27·1	+0·6	30·1	10	9·2	−1·9	4·1	15	0	0	−7·3	0	..	0	−0·9	6·5	3·3	−1·4	0	0	0	0	0	0	0	0	0	0	0
Khandwa	28·9	−0·4	32·7	10	10·0	−1·4	6·6	29	0	0	−7·9	0	..	0	−0·6	8·2	5·7	+1·4	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	24·9	+1·0	31·7	23	7·5	−1·4	2·4	27	0	0	−21·1	0	..	0	−1·8	5·4	3·6	+0·2	0	0	0	0	0	0	0	0	0	0	0
Sidhi	25·1	..	31·2	10	6·5	..	1·4	27	0	1·2	..	1·2	21	0	..	6·0	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	25·7	+0·7	31·4	10	7·5	−0·6	3·1	28	0	0	−25·7	0	..	0	−2·1	6·4	3·5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	26·4	+1·2	32·1	10	8·7	−0·1	4·2	28	0·9	0·5	−20·3	0·5	21	0	−1·7	6·7	3·8	+1·5	0	1	0	0	0	0	0	0	0	0	0
Ambikapur	24·8	+0·9	29·0	12	8·7	+0·1	4·3	27	0	0	−21·9	0	..	0	−2·2	8·5	5·6	−0·5	0	0	0	0	0	0	0	0	0	0	0
Pendra	24·7	+1·0	28·8	9	11·0	+0·7	6·6	17	0	0	−21·6	0	..	0	−1·7	8·5	6·3	..	0	0	0	0	1	0	0	0	0	0	0
Mandla	26·7	+0·7	30·6	10	8·0	−0·8	3·5	29	0	0·6	−28·1	0·6	20	0	−2·7	4·9	2·5	+0·5	0	1	0	0	1	0	0	0	0	0	0
Champa	28·6	+1·1	31·9	9	12·7	−1·0	9·1	30	0	0	−23·2	0	..	0	−1·5	6·5	6·0	+1·1	0	0	0	0	1	0	0	0	0	0	0
Raigarh	30·1	+1·7	32·6	11	14·1	+0·5	10·2	17	0	0	−18·4	0	..	0	−1·3	4·3	3·5	−0·5	0	0	0	0	0	0	0	0	0	0	0
Raipur	28·8	+1·2	31·4	12	14·5	+1·3	10·6	30	0	0	−9·4	0	..	0	−0·8	6·5	5·0	+0·5	0	0	0	0	0	0	0	0	0	0	0
Kanker	29·0	+0·9	31·4	9	14·1	+2·8	9·6	16	0	0	−5·1	0	..	0	−0·5	4·6	3·2	+0·3	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	29·7	+1·8	31·4	27	14·0	+2·5	11·5	17	0	0	−9·9	0	..	0	−0·7	5·1	3·4	..	0	0	0	0	0	1	0	0	0	0	0
Gujarat Region																													
Deesa	26·0	..	31·5	7	..	..	..	..	0	0	..	0	..	0	..	10·1	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	25·6	..	33·2	7	..	..	..	..	0	0	..	0	..	0	..	7·6	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Idar	26·2	..	31·6	9	12·0	..	6·4	14	0	0	..	0	..	0	..	6·9	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	26·7	−2·4	31·7	9	9·9	−1·7	4·7	24	0	0	−0·5	0	..	0	−0·1	8·6	4·3	+0·3	0	0	0	0	0	0	0	0	0	3	0
Dohad	26·1	−2·0	31·5	10	9·2	−2·6	3·1	24	0	0	−3·0	0	..	0	−0·4	8·2	7·2	−1·9	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidyanagar	27·4	..	33·4	7	8·7	..	2·0	23	0	0	..	0	..	0	..	9·5	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	27·6	..	33·0	8	9·4	..	3·3	24	0	0	..	0	..	0	..	8·4	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	29·1	−0·9	34·9	8	10·3	−0·6	4·2	24	0	0	−2·5	0	..	0	−0·3	2·8	1·1	−2·8	0	0	0	0	0	0	0	0	0	0	0
Broach	29·8	−1·6	34·9	8	10·0	−2·8	4·7	24	0	0	−1·2	0	..	0	−0·1	5·6	4·5	−1·4	0	0	0	0	0	0	0	0	0	0	0
Surat	29·9	−0·5	34·8	6,8	13·1	−1·2	7·4	24	0	0	−2·8	0	..	0	−0·2	9·0	8·1	+2·6	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar (R) Naliya	24·8	..	31·3	7	7·3	..	1·8	15	0	0	..	0	..	0	..	13·8	10·1	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	24·2	−2·1	31·2	7	8·4	−2·3	3·2	24	0	2·0	0	2·0	21	0	−0·2	11·9	8·5	−0·5	0	1	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	25·2	..	31·7	7	10·5	..	5·8	25	0	1·6	..	1·6	21	0	..	18·6	18·1	..	0	1	0	0	0	0	0	0	0	0	0
New Kandla	23·5	..	28·6	7	12·6	..	8·5	16	0	0·6	..	0·6	21	0	..	13·0	12·9	..	0	1	0	0	0	0	0	0	0	0	0
Mandvi	24·1	−1·5	29·4	7	12·3	−1·9	8·5	16	0	0	−1·4	0	..	0	−0·3	16·7	14·8	−0·5	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	26·3	−1·9	33·1	8	11·3	−1·6	5·7	24	0	0	−0·4	0	..	0	0	9·5	8·9	−0·6	0	0	0	0	0	0	0	0	0	0	0
Okha	22·9	..	26·2	7	17·7	..	14·4	23	0	0	..	0	..	0	..	17·1	19·8	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar Aerodrome)	24·0	−2·9	30·6	6	9·3	−0·9	3·3	24	0	2·5	+1·2	2·5	21	1	+0·9	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Dwarka	24·0	−1·5	29·7	7	14·6	−0·7	11·2	16,24	0	0	−2·5	0	..	0	−0·3	15·5	12·9	−0·3	0	0	0	0	0	0	0	0	0	0	0
Rajkot	26·3	−2·0	33·4	7,8	9·0	−2·1	3·5	24	0	0	−1·1	0	..	0	−0·1	17·9	12·8	−0·3	0	0	0	0	0	0	0	0	0	0	0
Bhaunagar Aerodrome	26·6	−1·1	32·0	8	11·3	−1·8	6·4	24	0	0	−2·3	0	..	0	−0·1	18·2	15·5	+3·3	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	27·1	−1·4	32·4	7	11·4	−3·9	6·2	24	0·3	0·3	−2·1	0·3	22	0	−0·3	15·0	11·0	..	0	1	0	0	0	0	0	0	0	0	0
Keshod	27·9	..	34·0	6	9·7	..	3·7	24	0	0	..	0	..	0	..	17·6	14·9	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	29·1	..	32·1	9	12·1	..	5·9	25	0	0	..	0	..	0	..	9·7	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	27·9	..	31·4	6	12·1	..	6·4	26	0·2	0·2	−0·8	0·2	22	0	−0·1	19·4	16·1	..	1	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (25 mm. or more)		Wind speed, km. per hour			Whether phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm. or 0·2 mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28
Konkan																												
Dahanu	25.9	−1.6	33.4	8	15.3	−1.3	12.2	15	0	0	−1.8	0	..	0	−0.2	21.4	14.5	+2.3	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	29.0	0	33.6	6,7	14.5	−0.8	10.6	15	0	0	−3.4	0	..	0	0	12.0	8.4	..	0	0	0	0	0	0	0	0	0	0
Bombay	27.8	−0.6	34.6	6	18.0	−1.3	14.5	27	0	0	−3.6	0	..	0	−0.2	10.2	8.3	−2.3	0	0	0	0	0	0	0	0	0	0
Alibag	27.5	−0.6	33.3	6	16.3	−1.2	12.6	24	..	0	−1.3	0	..	0	−0.2	..	9.0	+1.6	0	0	0	0	0	0	0	0	0	0
Bhira	34.2	..	36.5	7,29	13.3	..	10.6	14,25	0	0	..	0	..	0	..	3.9	2.4	..	0	0	0	0	0	0	0	0	0	0
Harnai	26.9	−0.9	33.8	5	20.8	−1.0	18.1	15	0	0	−1.4	0	..	0	−0.2	20.1	16.2	+3.1	0	0	0	0	0	0	0	0	0	0
Ratnagiri	29.6	..	34.9	5	17.6	..	15.4	27	0	0	−2.0	0	..	0	−0.1	9.6	6.7	..	0	0	0	0	0	0	0	0	0	0
Devgarh	28.5	−1.6	33.4	5	20.0	−1.0	18.5	27	0	0	−1.9	0	..	0	−0.2	18.5	15.2	+2.3	0	0	0	0	0	0	0	0	0	0
Vengurla	30.9	−1.2	34.5	5	17.0	−1.6	15.2	14	0	0	−0.1	0	..	0	0	9.6	5.2	..	0	0	0	0	0	0	0	0	0	0
Panjim	30.6	..	34.0	5	18.9	..	17.2	14	0	0	..	0	..	0	..	10.6	8.8	..	0	0	0	0	0	0	0	0	0	0
Mormagao	29.2	..	34.0	5	20.5	..	18.6	15	0	0	..	0	..	0	..	12.6	11.6	..	0	0	0	0	0	2	0	0	0	0
Madhya Maharashtra																												
Nandurbar	29.5	..	33.0	8	13.6	..	8.1	25	0	0	..	0	..	0	..	7.0	4.5	..	0	0	0	0	0	0	0	0	0	0
Jalgaon	30.2	−0.3	32.6	10	9.5	−3.1	5.4	15	0	0	−7.9	0	..	0	−0.6	9.5	8.6	+1.0	0	0	0	0	0	0	0	0	0	0
Malegaon	30.3	+0.2	33.4	1	8.9	−2.4	5.5	24	0	0	−4.3	0	..	0	−0.3	6.5	5.5	−0.3	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	30.1	..	32.5	31	8.7	..	5.6	15,24	0	0	..	0	..	0	..	9.1	5.3	..	0	0	0	0	0	1	0	0	0	0
Ahmednagar	31.3	+2.1	33.2	1	11.8	0	9.6	15	0	0	−5.3	0	..	0	−0.4	8.3	6.3	+0.3	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	0	0	−2.5	0	..	0	−0.1	..	..	..	0	0	..	..	..	..	..	..	..	..
Poona (Aerodrome)	30.5	..	32.8	2	11.9	..	9.3	15	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Poona	30.5	+1.0	32.6	2	9.0	−1.7	6.2	15	0	0	−1.5	0	..	0	−0.2	..	..	..	0	0	0	0	0	0	0	0	0	0
Jeur	31.7	+1.1	33.4	2,3	12.1	−1.3	7.1	15	0	0	−0.1	0	..	0	0	8.7	4.9	−1.0	0	0	0	0	0	0	0	0	0	0
Baramati	31.5	+0.9	33.5	1,2	12.5	−1.5	9.5	15	0	0	0	0	..	0	0	7.4	6.8	+0.1	0	0	0	0	0	0	0	0	0	0
Sholapur	32.2	+1.4	33.6	28	16·1	+0.9	12.4	15	0	0	−3.8	0	.	0	−0.3	9.1	(a) 6.6	−2.6	0	0	0	0	0	0	0	0	0	0
Miraj	31.9	+1.8	34.4	31	13·2	−1.0	9.7	15	0	0	−0.3	0	..	0	−0.1	..	..	..	0	0	0	0	0	0	0	0	0	0
Kolhapur	31.8	+1.4	33.8	31	13·8	−0.9	11·9	12	0	0	−2.5	0	..	0	−0.4	10.0	7.8	−0.9	0	0	0	0	0	2	0	0	0	0
Marathwada																												
Aurangabad	30.0	+0.7	32.2	1	13.6	−0.1	11.3	13	0	0	−7.4	0	..	0	−0.5	6.6	6.0	−1.4	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29.9	..	32.3	1	8·7	..	6·5	13	0	0	..	0	..	0	..	9.0	5·9	..	0	0	0	0	0	0	0	0	0	0
Parbhani	30.7	+0.6	32.8	1	13.6	0	10·4	15	0	0	−6.9	0	..	0	−0.6	7.3	5.1	−0.1	0	0	0	0	0	0	0	0	0	0
Nander	31.6	..	33.2	2,27	13.0	..	8.2	15	0	0	..	0	..	0	..	4.6	3.5	..	0	0	0	0	0	0	0	0	0	0
Bir	30.8	..	32.8	1	11.3	..	8.0	15,16	0	0	..	0	..	0	..	5.1	3.2	..	0	0	0	0	0	0	0	0	0	0
Vidharbha																												
Gondia	28·7	+1.2	31 0	9,11	13.6	0	9.9	16	3.2	0	−21.1	0	..	0	−1.5	5.3	3.5	+0.4	0	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	29.9	+1.3	32·2	25 1	12.5	−0.3	9.1	16	0	0	−9.4	0	..	0	−0.8	10.7	8.5	..	0	0	0	0	0	0	0	0	0	0
Amraoti	30.4	+1.1	32.4	21	15.2	+0.1	10.6	13	0	0	−9.4	0	..	0	−0.8	10.9	9.0	+3.2	0	0	0	0	0	0	0	0	0	0
Akola Aerodrome	30.6	..	33.2	10	12.3	..	9.5	5	0	0	..	0	..	0	..	9.1	7.4	..	0	0	0	0	0	0	0	0	0	0
Akola	30.8	+0.7	33.6	11	12.8	+0.1	9.3	16	0	0	−8.9	0	..	0	−0.7	5.6	4·1	−0.2	0	0	0	0	0	0	0	0	0	0
Bramhapuri	29.9	..	32.0	25	14.3	..	10.3	16	0	0	..	0	..	0	..	6.9	4.0	..	0	0	0	0	0	0	0	0	0	0
Buldana	28.0	+0.5	30.7	11	13.9	−1.6	11.3	13	0	0	−7.7	0	..	0	−0.5	9.0	6.9	−1.3	0	0	0	0	0	0	0	0	0	0
Yeotmal	29.9	+1.2	32.7	2	15·8	+0.2	11.7	15	0	0	−10.9	0	..	0	−0.7	11.9	9.3	+0.3	0	0	0	0	0	0	0	0	0	0
Chanda	31·0	+1.4	33.0	11	15 0	+2.0	10.4	15,16	0	0	−7.9	0	..	0	−0.5	6.2	4.5	+1.9	0	0	0	0	0	0	0	0	0	0
Pusad	31.5	..	34.1	2	13.2	..	9.4	15	0	0	..	0	..	0	..	7.5	5.0	..	0	0	0	0	0	0	0	0	0	0
Sironcha	31.5	+1.2	33.1	15,27	16.9	+1.4	14.0	6	0	0	−1.7	0	..	0	−0.4	6.8	4.1	+0.4	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																												
Kalingapatam	29.0	+1.3	30.5	12	18.6	+1.1	16.6	27,30	0	0	−5.6	0	..	0	−0.6	10.3	7.3	−0.4	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	29.3	0	30.8	26	18.8	+0.9	15.4	1	2·4	4·6	−6.3	2.4	20	0	−0.5	12.2	5.3	+0.6	0	2	0	0	0	1	0	0	0	0
Kakinada	28.8	+1.5	31.6	18	19.6	+0.5	17.2	1	0	0	−7.1	0	..	0	−0.5	11.2	7.9	−1.0	0	0	0	0	0	0	0	0	0	0
Nidadavole	30.6	..	32.1	28	18.4	..	16.6	24	0	0	..	0	..	0	..	4.8	3.6	..	0	0	0	0	0	0	0	0	0	0
Rentachintala	32.7	+2.0	35.0	28	18.3	+1.8	15.8	12	0	0	−0.3	0	..	0	0	5.9	4.3	−1.0	0	0	0	0	0	0	0	0	0	0
Gannavaram	30.2	+0.1	31.6	27	18.7	−0.4	16.3	24	0	0	−0.8	0	..	0	−0.1	12.2	7.5	−2.3	0	0	0	0	0	2	0	0	0	0
Nagajunkonda	(R)																											
Masulipatam	28.6	+0.3	30.5	17	18.7	−0.2	16.4	24	0	0	−5.1	0	..	0	−0.3	3.2	1.5	−4.8	0	0	0	0	0	0	0	0	0	0
Ongole	30.7	..	31.7	21,26	19.4	..	17.7	•24	0	0	..	0	..	0		(a) 4.2	2.8	..	0	0	0	0	0	0	0	0	0	0
Nellore	30.9	+1.3	32.6	26	19.1	−0.6	17.1	15	0	0	−33.3	0	..	0	−1.4	..	..	..	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed Km. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunderstorm	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Telangana																														
Ramagundam Nizambad	32·7	+1·8	34·6	26	18·0	+2·0	14·7	15	0	0	—2·0	0	..	0	—0·3	7·5	4·4	—0·5	0	0	0	0	0	0	0	0	0	0	0
	32·0	+1·9	34·2	2	16·2	+2·0	12·5	15	0	0	—5·1	0	..	0	—0·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	31.7	+2.3	33.3	15,27	17.5	+0.9	15·1	15	0	0	—0.2	0	..	0	—0.7	9.4	7.2	+1·4	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	29.3	..	31.0	1,2	16.6	..	15.3	14.15	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhadrachalam	31.6	+0.7	33.4	25,28	17.8	+1.1	15.4	24	0	0	—2.6	0	..	0	—0.4	4.8	4.5	—0·6	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	29·9	+1·6	31·7	2	14·4	—0·3	12·0	10	0	0	—7·9	0	..	0	—0·5	11·0	7·2	0	0	0	0	0	4	0	0	0	0	0
Khammam	31·5	..	33·1	15,26	19·0	..	17·1	24	0	0	..	0	..	0	..	4·7	3·6	..	0	0	0	0	0	7	0	0	0	0	0
Mahbubnagar	30·7	..	32·6	1	14·7	..	13·1	12	0	0	..	0	..	0	..	7·9	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																														
Kurnool	32·2	+0·9	34·0	28	16·7	+0·3	13·5	12	0	0	—3·8	0	..	0	—0·3	7·3	5·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Nandyal (R)																														
Anantapur	31·1	+0·8	32·8	26,27	15·7	—1·6	12·3	12	0	0	—3·9	0	..	0	—0·2	9·0	8·2	—1·9	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	31·8	+0·6	33·7	26	18·0	—0·7	15·5	12	0	0	—9·9	0	..	0	—0·6	4·5	3·1	—1·5	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	28·1	..	30·0	30	13·7	..	10·8	12	0	0	..	0	..	0	..	8·3	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Madras State																														
Madras	28·9	..	30·4	27	19·3	..	16·0	16	..	0	..	0	..	0	..	..	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	29·1	—0·5	31·0	24	19·5	0	17·1	14	0	0	—35·8	0	..	0	—1·7	10·5	6·9	—2·8	0	0	0	0	0	1	0	0	0	0	0
Vellore	29·8	+1·0	34·3	10	16·8	—1·1	13·1	14	0	0	—36·8	0	..	0	—2·1	7·5	6·3	+2·4	0	0	0	0	0	2	0	0	0	0	0
Tambaram (Aerodrome)	29·7	..	32·3	24	19·0	..	16·7	14	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Tiruppattur	30·2	..	32·5	30	14·2	..	10·5	14	0	0	..	0	..	0	..	5·1	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	32·1	..	34·3	30	18·4	..	16·0	15	0	0	..	0	..	0	..	5·4	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	28·2	0	29·1	24,26	19·1	—1·4	16·4	14	0	0	—59·7	0	..	0	—2·4	12·0	8·3	+1·1	0	0	0	0	0	0	0	0	0	0	0
Kallakkurichichi	29·1	..	31·3	25,26	18·9	..	15·3	14	0	0	—30·5	0	..	0	—1·4	9·0	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Salem	31·7	+0·5	33·9	28,30	18·0	—0·3	14·3	14	0	0	—7·4	0	..	0	—0·7	8·1	9·9	+3·6	0	0	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	29·9	..	32·0	30	16·3	..	12·9	14	0	0	..	0	..	0	..	14·9	11·0	..	0	0	0	0	0	0	0	0	0	0	0
Coimbatore	30·5	+0·5	32·3	26,30	17·2	—1·1	14·4	14	0	0	—16·0	0	..	0	—1·1	9·3	5·7	+1·5	0	0	0	0	0	0	0	0	0	0	0
Nagappatinam	28·1	+0·2	29·1	24,26	22·2	+0·1	20·0	18	0	0	—69·3	0	..	0	—3·0	18·7	18·3	+5·6	0	0	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	30·4	—0·1	32·1	24,27	19·1	—1·0	16·5	14	0	0	—25·1	0	..	0	—1·7	12·7	10·3	+1·6	0	0	0	0	0	0	0	0	0	0	0
Vedaranniyam	29·0	..	29·8	31	21·6	..	18·7	14	4·6	7·4	..	4·6	7	1	..	12·3	9·3	..	0	4	0	0	0	0	0	0	0	0	0
Atirampattinam	30·0	..	32·2	29	20·0	..	18·3	19	0	0	..	0	..	0	..	12·3	8·9	..	0	0	0	0	0	0	0	0	0	0	0
Madurai	..	..	..	..	20·3	+0·1	18·1	2	0	0	—19·8	0	..	0	—1·5	9·8	7·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	30·6	..	32·7	24	19·3	..	16·9	2	0	0	..	0	..	0	..	15·4	11·0	..	0	0	0	0	0	0	0	0	0	0	0
Tondi	29·0	..	31·2	24	21·4	..	20·2	14,19	3·8	3·8	..	3·8	25	1	..	19·0	16·2	..	0	1	0	0	0	0	0	0	0	0	0
Pamban	28·7	+0·6	29·6	22,27	23·9	+0·3	20·5	15	15·2	20·5	—44·8	15·2	25	2	—2·0	15·5	15·6	—0·2	0	2	0	0	0	0	0	0	0	0	0
Tuticorin	27·1	—0·5	28·5	23	21·2	—1·1	18·5	21	17·6	20·8	+4·3	17·6	25	2	+0·3	22·9	22·7	+0·4	0	2	0	0	0	0	0	0	0	0	0
Palayankottai	30·9	+0·2	32·8	29	21·8	—0·5	20·5	2	12·2	21·2	—21·5	15·8	25	2	—0·6	9·7	6·0	—3·2	0	2	0	0	0	0	0	0	0	0	0
Kanniyakumari	31·0	..	33·0	23	23·3	..	22·2	3	0	0	..	0	..	0	..	26·0	22·1	..	0	0	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	29·8	—0·7	34·1	6	18·0	—0·9	15·5	12	0	0	—0·9	0	..	0	—0·1	11·5	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	30·9	—0·9	33·9	6	17·4	—2·5	15·2	13	0	0	—3·6	0	..	0	—0·5	10·4	9·6	+4·8	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32·0	..	33·8	6	20·0	..	17·0	12	0	0	..	0	..	0	..	9·8	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	31·3	—0·4	34·4	5	21·1	—0·3	18·4	13	0	0	—2·8	0	..	0	—0·2	12·5	10·3	+2·6	0	0	0	0	0	0	0	0	0	0	0
nterior Mysore North																														
Bidar	29·9	+1·1	31·6	28,29	16·8	+0·1	15·2	19	0	0	—5·6	0	..	0	—0.5	12·3	9·3	—1·0	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	31·9	+1·2	33·2	1,3	16·4	+0·8	13·8	13	0	0	—5·3	0	..	0	—0·3	11·1	7·7	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bijapur	31·2	+1·1	33·1	27	16·2	+0·5	13·4	16	0	0	—4·6	0	..	0	—0·2	5·8	3·7	—0·8	0	0	0	0	0	0	0	0	0	0	0
Raichur	31·7	+1·3	33·6	3	18·8	+0·6	17·4	13	0	0	—3·3	0	..	0	—0·2	9·5	9·6	+0·9	0	0	0	0	0	0	0	0	0	0	0
Belgaum	30·5	+0·4	32·5	27	13·	—0·3	11·1	12	0	0	—3·1	0	..	0	—0·2	2·5	1·8	—4·0	0	0	0	0	0	0	0	0	0		
Belgaum (Sanra)	30·1	..	32·0	27,31	14·0	..	11·6	16	0	0	..	0	..	0	..	9·4	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Gadag	31·3	+1·7	33·3	28	16·5	+0·1	14·5	7	0	0	—4·3	0	..	0	—0·2	8·0	5·6	—1·8	0	0	0	0	1	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Interior Mysore South																													
Bellary	31·3	+0·3	33·3	2	18·9	+2·1	16·6	13	0	0	−2·5	0	..	0	−0·3	8·0	4·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Chitra Durga	29·9	+0·6	32·1	29	17·3	+0·3	13·6	12	0	0	−6·3	0	..	0	−0·3	9·1	6.9	−0·5	0	0	0	0	0	0	0	0	0	0	0
Shimoga	30·9	+0·4	33·9	29	12·7	−1·9	9·0	3	0	0	−0·1	0	..	0	0	6·1	3·5	−0·6	0	0	0	0	0	0	0	0	0	0	0
Agumbe	28·4	..	39·4	1	11·1	..	6·2	13	..	0	..	0	..	0	..	..	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Balehonnur	29·5	+2.3	32·4	28	14·1	−0·6	11·8	14	..	0	−1·3	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	29·0	+0·8	31·3	29	12·7	−1·2	10·1	14	0	0	−4·3	0	..	0	−0·3	4·5	2·2	−2·8	0	0	0	0	0	1	0	0	0	0	0
Bangalore	28·0	+1·2	30·4	30	14·0	−0·1	11·9	14	0	0	−6·1	0	..	0	−0·5	10·8	9·2	+1·0	0	0	0	0	0	3	0	0	0	0	0
Bangalore (Aerodrome)	27·5	..	29·7	30	14·9	..	10·2	12	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	5	0	0	0	0	0
Mysore	29·0	0	30·8	28	15·5	−0·5	12·6	14	0	0	−3·6	0	..	0	−0·3	12·8	11·2	+1·7	0	0	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	31·5	+0·4	32·5	30	21·3	−0·3	18·9	11	0	0	−8·9	0	..	0	−0·6	13·3	10·5	+2·1	0	0	0	0	0	0	0	0	0	0	0
Palghat	33·5	..	35·6	30	20·9	..	17·8	14	0	0	..	0	..	0	..	14·1	10·5	..	0	0	0	0	0	0	0	0	0	0	0
Fort Cochin	30·6	+0·1	32·3	6	22·9	−0·2	20·8	10,21	0	0	−22·6	0	..	0	−1·1	9·4	6·5	−0·1	0	0	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station)	31·7	..	32·7	25	21·1	..	18·5	10	0	0	..	0	..	0	..	11·9	8·9	..	0	0	0	0	0	0	0	0	0	0	0
Alleppey	30·9	−0·9	33·6	21	22·0	−0·5	20·0	8	0	0	−15·1	0	..	0	−1·4	13·2	9·3	+0·7	0	0	0	0	0	0	0	0	0	0	0
Punalur	33·2	..	34·9	30	19·8	..	16.0	3	0	0	..	0	..	0	..	5·9	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Trivandrum	31·3	0	33·3	7	22·3	+0·1	21·1	21,22	0	6·1	−14·0	6·1	25	1	−0·7	6·5	5·4	+0·9	0	1	0	0	0	0	0	0	0	0	0
Trivandrum (Aerodrome)	30·4	..	31·6	7,9,24	21·9	..	19·7	8	..	6·0	..	6·0	25	1	..	..	6·3	..	0	1	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	7·1	−3·8	15·0	1	−0·4	−2·5	−5·0	25	151·0	359·0	+156·7	58·0	23	11	+3·2	7·0	6·6	+3·0	0	12	7	0	0	2	0	0	0	0	0
Dharamsala	11·8	−2·6	17·3	1	4·2	−2·3	0·1	12	68·2	175·6	+32·4	42·8	11	8	+0·3	3·0	5·1	+0·3	0	10	0	0	5	0	0	0	0	0	0
Simla	7·6	−1·0	13·4	1	0·4	−1·5	−3·4	15	12·2	42·8	−23·5	11·5	6	5	+0·2	6·3	4·2	+1·7	0	10	4	0	0	0	0	0	0	0	0
Dharampur	..	..	..	..	..	..	..	..	..	73·2	+2·8	29·0	29	5	+1·0	..	..	..	10	7	0	0	0	0	0	0	0	0	0
Lokpal	20·9	..	25·2	31	11·2	..	8·7	..	..	276·0	..	60·2	6	11	..	..	..	..	0	11	6	0	4	6	0	23	0	0	0
Badrinath	Closed during winter months																												
Joshimath (R)	..	..																											
Mussoorie	8·5	−1·2	14·2	8	1·3	−1·4	−2·6	29	15·0	55·4	−13·4	25·0	9	5	0	12·9	10·4	+3·3	0	6	1	0	0	0	0	10	0	0	0
Mukteswar (Kumaun)	10·3	+0·4	16·1	9	0·9	−1.0	−2·9	15	6·8	21·0	−33·9	9·4	12	3	−0·6	9·5	10·7	+1·7	0	5	2	0	2	3	0	31	0	0	0
Nainital	10·1	−0·2	17·6	8	0·4	−1·2	−2·9	15	3·0	15·0	−102·5	6·0	22	2	−4·5	10·0	7·6	+0·5	0	4	0	0	0	0	0	0	0	0	0
Kalimpong	17·1	+1·9	23·3	17	10·0	+2·1	4·5	20	0	0	−10·4	0	..	0	−0·9	9·0	7·4	−3·4	0	0	0	0	1	0	0	0	0	0	0
Darjeeling	9·4	+0·2	14·4	9	2·1	−0·8	0	21	0	0	−13·5	0	..	0	−1·2	3·0	2·9	+1·8	0	0	0	0	0	8	0	0	0	0	0
Kohima	14·7	..	18·5	13	7·4	..	3·3	29	2·8	9·8	..	2·8	14	2	..	..	3·6	..	0	4	0	0	0	0	0	0	0	0	0
Shillong	15·9	+0·3	19·0	12	3·9	+0·1	−2·8	18	0	0	−13·2	0	..	0	−1·1	5·7 (c)	4·8	+2·4	0	0	0	0	0	0	0	0	0	0	0
Cherrapunji	16·4	+0·7	17·4	6,10,14	6·6	−1·2	2·1	28,29	0	0	−19·1	0	..	0	−1·5	3·1	1·9	−3·7	0	0	0	0	0	0	0	0	0	0	0
Abu	18.4	−0·4	25·6	7	6·3	−4·1	11·7	22	1·2	1·2	−5·4	1·2	22	0	−0·6	10·9	9·2	+2·6	0	1	0	0	1	0	0	0	0	0	0
Aijal (R)	..	..																											
Pachmarhi	22·1	−0·1	26·1	9	6·5	−2·2	1·9	15	0	0	−16·3	0	..	0	−1·3	5·7	3·6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	25·5	+1·9	27·5	29	13·9	0	11·4	21	0	0	−3·6	0	..	0	−0·2	10·2	9·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Mercara	26·3	+1·2	29·1	27	13·4	−0·6	11·0	0	0	0	−4·1	0	..	0	−0·3	11·9	9·0	+2·6	0	0	0	0	0	1	0	0	0	0	0
Ootacamund	22·5	+3·7	26·7	28	4·3	−1·8	0·8	1	0	0	−32·8	0	..	0	−1·8	3·8	2·0	−3·0	0	0	0	0	0	0	0	16	0	0	0
Coonoor (R)																													
Kodaikanal	19·6	+2·8	23·1	22	8·6	+0·5	5·6	4	0	1·6	−79·4	0·8	24, 25	0	−4·0	11·9	12·5	−1·3	0	2	0	0	0	4	0	26	0	0	0
Nepal																													
Katmandu	19·2	..	22·0	10,23	−0·3	..	−3·9	16	0	0·2	..	0·2	10	0	..	1·3	0·9	..	1	0	0	0	0	12	0	13	0	0	0
Sikkim																													
Lachen	6·8	..	13·0	9	−2·4	..	−6·5	4days	..	17·9	..	14·0	15	1	..	..	..	..	1	4	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	23·2	..	29·5	12	10·2	..	5·0	19	0	13·7	..	13·7	22	1	..	11·5	6·3	..	0	1	0	0	0	0	0	0	0	0	0
Hazaribagh	23·0	..	28·3	12	8·8	..	3·5	27	0	0	..	0	..	0	..	10·3	5·6	..	0	0	0	0	0	1	0	4	0	0	0

(R) Register not received. *Data given as addenda in December 1964 issue. (c) Mean of 28 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—Damodar Catchment—*contd.*																													
Konar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bokaro	25·2	..	27·8	7	10·5	..	3·2	4	0	0	..	0	..	0	..	4·0	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	26·2	..	32·4	12	10·5	..	4·7	19	0	0	..	0	..	0	..	2·1	2·0	..	0	0	0	0	0	1	0	0	0	0	0
Ramgarh	26·1	..	31·5	13	9·6	..	4·8	28	2·0	2·0	..	2·0	22	0	..	2·9	1·5	..	0	1	0	0	0	0	0	0	0	0	0
Panchet Hills	26·4	..	32·0	12	12·8	..	8·3	19,27	0	0	..	0	..	0	..	2·7	1·6	..	0	0	0	0	0	0	0	0	0	0	0
Durgapur	26·6	..	32·2	13	10·5	..	5·6	28	0	0	..	0	..	0	..	8·5	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	27·6	..	31·1	9	10·4	..	5·7	17	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hirakud	28·8	..	31·3	24	15·9	..	11·9	17	0	0	..	0	..	0	..	4·4	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Bhimkund	27·5	..	30·8	10	13·0	..	7·6	30	[illegible]	0	..	0	..	0	..	5·3	2·4	..	0	0	0	0	0	6	0	0	0	0	0
Sonepur	29·3	..	32·1	23	15·9	..	10·5	16	..	0	..	0	..	0	..	..	1·5	..	0	0	..	..	..	..	..	..	..	..	..
Khijrawan	29·6	..	31·1	6 days	13·0	..	8·5	16	0	0	..	0	..	0	..	6·5	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	27·3	..	32·5	9	9·4	..	6·0	15	0	3·2	..	3·2	31	1	..	7·0	4·1	..	0	1	0	0	0	0	0	0	0	0	0
Punasa	28·4	..	32·4	9	9·5	..	6·3	15	0	0	..	0	..	0	..	5·7	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	29·0	..	33·5	9	9·0	..	4·9	24	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	27·2	..	31·6	7	9·2	..	4·4	23	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	11·1	..	15·5	6	−3·0	..	−7·7	17	0	2·6	..	2·6	13	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Timure	15·7	..	18·3	12	2·4	..	0·7	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Pokhara	18·7	..	21·3	10,11	6·4	..	3·0	28	3·7	4.6	..	3·7	15	1	..	5·1	4·3	..	0	2	0	0	3	0	0	0	0	0	0
Gorkha	17·6	..	20·8	13	8·3	..	5·4	18, 22	0	4·2	..	4·2	10	1	..	0	0	..	0	1	..	..	..	..	..	..	..	..	..
Nuwakot	20.3	..	23.0	11	7.3	..	4.5	18, 31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	16·2	..	19·9	10, 11	4·3	..	−2·2	19	1·0	3·2	..	3·2	12	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	11·3	..	17·6	8	3·3	..	−0·3	29	4·9	26·4	..	11·5	12	3	..	5·5	5·2	..	1	4	0	2	2	1	0	17	0	0	0
Sallyana	17·8	..	23·0	9	5·3	..	1·9	29	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	27·1	..	33·2	13	10·5	..	4·3	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu †																													
Kosi Catchment																													
Chautara	18·4	..	21·1	23	5·2	..	1·3	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	0	1·0	..	1·0	13	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Walung Chung Gola	5·3	..	13·5	9	−4·0	..	−8·8	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplethok	17·8	..	21·5	9	5·7	..	3·3	26, 27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhojpur	13·4	..	17·2	16	4·4	..	2·2	30, 31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	13·5	..	16·4	8, 9, 15	3·5	..	0·9	17, 27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	2	0	0	0
Okhaldhunga	13·6	..	17·3	8	3·4	..	−1·5	30	0	0	..	0	..	0	..	5·7	4·2	..	0	0	0	0	0	0	0	13	0	0	0
Chainpur	17.8	..	20·2	11	18·6	..	6·0	24	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Angbung (R)																													
Barahakeshetra	22.6	..	25.8	13	9.1	..	5.3	30	0	0	..	0	..	0	..	6.8	5.1	..	0	0	0	0	0	1	0	0	0	0	0
Tista Catchment																													
Gangtok	13.1	..	18.3	9	3.7	..	1.4	16, 27	0	5.8	..	2.5	27	1		5.3	3.6	..	0	4	0	0	0	12	0	1	0	0	0
Gezing	15.9	..	20.2	9	4.9	..	2.3	21	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

(R) Register not received.

†Data included under 'Nepal'.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1015.0	1011.8	..	24.7	22.4	21.3	25.3	82	..	1.9	..	1.2	0	0	7	2	5	0	0	0	0	0	0	24	0
	1730	,,	1012.2	1009.1	..	26.1	22.5	20.6	24.3	71	..	1.8	..	11.6	0	1	28	2	26	1	0	0	0	0	0	2	0
Long Island	0830	25	1014.4	1011.5	..	26.4	23.3	21.7	25.9	76	..	2.7	..	1.3	0	0	16	1	8	0	1	0	1	0	5	15	0
	1730	,,	1011.8	1008.7	..	25.1	22.5	21.2	25.2	79	..	3.8	..	0.5	0	0	6	1	3	0	1	0	0	0	1	25	0
Port Blair	0530	79	1012.4	1003.4	..	22.4	21.6	21.2	25.2	92	..	2.7	..	4.3	0	0	12	2	10	0	0	0	0	0	0	19	0
	0830	,,	1014.4	1005.5	+0.7	27.6	23.8	22.0	26.4	71	0	2.9	−0.5	9.5	0	0	28	2	25	1	0	0	0	0	0	3	0
	1130	,,	1013.0	1004.2	..	29.1	24.5	22.3	26.9	67	..	3.6	..	11.6	0	0	31	1	28	2	0	0	0	0	0	0	0
	1730	,,	1011.6	1002.7	..	25.7	23.0	21.7	25.9	78	..	3.5	..	6.4	0	0	24	5	18	1	0	0	0	0	0	7	0
	2330	,,	1013.4	1004.4	..	23.8	22.2	21.4	25.5	86	..	3.0	..	5.3	0	1	15	2	14	0	0	0	0	0	0	15	0
Car Nicobar	0830	10	1013.3	1012.1	..	28.4	24.6	22.8	27.7	72	..	3.3	..	4.5	0	1	30	0	31	0	0	0	0	0	0	0	0
	1730	,,	1010.8	1009.8	..	27.3	24.2	22.7	27.6	76	..	3.5	..	3.6	0	0	31	0	31	0	0	0	0	0	0	0	0
Nancowry	0830	26	1013.0	1010.1	..	28.7	26.0	24.9	31.5	79	..	3.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730		1010.3	1007.4	..	27.2	24.9	23.9	29.7	82	..	3.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	..	..	..	28.2	25.2	24.8	31.3	83	..	5.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27.7	25.7	24.8	31.3	85	..	5.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1018·1	999.5	..	14.6	12.2	10.0	12.3	73	..	3.3	..	19.0	0	17	14	0	1	0	0	0	0	0	30	0	0
	1730	,,	1014·6	996.2	..	15.3	13.1	11·2	13.3	77	..	4.2	..	9.5	0	5	23	1	1	0	0	0	0	2	24	3	0
Dibrugarh (Mohanbari)	0230	111	1015·2	1001.8	..	10.7	10.2	9.7	12.0	94	..	3.4	..	1.0	0	0	5	0	3	2	0	0	0	0	0	26	0
	0530	,,	1015·6	1002.2	..	9.8	9.3	8·8	11.3	94	..	4.3	..	1.4	0	0	7	2	4	1	0	0	0	0	0	24	0
	0830	,,	1017·9	1004.7	−0.9	14.0	12.8	11·7	13.7	87	−5	3.8	−0 3	4.1	0	0	24	1	10	10	1	0	0	2	0	7	0
	1130	,,	1015·7	1002.7	..	19.2	14.9	11·2	13.2	61	..	3.3	..	6.1	0	0	31	5	13	8	3	1	0	1	0	0	0
	1730	111	1013 9	1000.9	..	15.6	13.7	12·0	14.0	79	..	4·0	..	3·1	0	1	11	0	11	1	0	0	0	0	0	19	0
	2330	,,	1015·6	1002.3	..	11.5	10.7	10·0	12.3	91	..	3·5	..	3 0	0	0	10	2	6	2	0	0	0	0	0	21	0
Digbal (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1018 0	1005.9	−0.6	14.4	13.0	11·7	13·7	84	0	3·4	−0.2	2·1	0	0	24	0	23	0	1	0	0	0	0	7	0
	1130	,,	1015·8	1003.9	..	19.5	15.0	11·3	13·4	60	..	3·4	..	4.1	0	0	30	0	22	0	8	0	0	0	0	1	0
	1730	,,	1014·3	1002·2	..	15.9	13.9	12.2	14.2	79	..	4.1	..	2.4	0	0	17	7	3	2	1	0	0	1	3	14	0
Sibsagar	0830	97	1018·2	1006.8	−0.1	15.1	13.9	12.9	14.9	87	−6	4.1	−2.3	1·1	0	0	9	5	3	0	0	0	1	0	0	22	0
	1730	,,	1014·0	1002.7	..	19.4	16.2	13.8	15.8	72	..	2.8	..	1·3	0	0	7	5	2	0	0	0	0	0	0	24	0
Gohpur	0830	..	..	..	..	14.4	13.2	12.2	14.2	85	..	4.0	..	2.9	0	0	22	0	9	1	10	0	0	2	0	9	0
	1730	..	..	..	..	17.1	14.5	12.4	14.4	73	..	3.8	..	2·7	0	0	21	2	16	0	1	0	1	0	1	10	0
Majbat	0830	77	..	..	..	16·6	13·7	11·3	13·4	70	..	1.6	..	2.6	0	0	26	1	4	13	7	1	0	0	0	5	0
	1730	,,	..	..	..	17.7	14·3	11·5	13·6	69	..	1.6	..	1.0	0	0	10	2	0	0	3	1	1	2	1	21	0
Johat (Aerodrome)	0530	90	1015.2	1004·5	..	10.3	10.1	9 9	12.2	99	..	4.6	..	1.8	0	0	9	1	3	1	0	1	3	0	0	22	0
	0830	,,	1017·3	1006·6	..	14.4	13.2	12.2	14.2	86	..	3.7	..	4.4	0	1	17	1	6	3	0	1	6	1	0	13	0
	1130	,,	1015.4	1005·0	..	20.1	15.5	11.9	13.9	60	..	2.4	..	7.3	0	2	29	4	10	6	2	3	2	1	1	2	0
	1730	,,	1013.4	1002·9	..	16.7	14.3	12.4	14.4	76	..	3.2	..	5.0	0	1	16	1	11	4	0	1	0	0	0	14	0
	2330	,,	1015.4	1004·7	..	11.9	11.5	11.0	13.1	95	..	2.3	..	2·2	0	0	11	2	2	1	2	0	1	3	0	20	0
Tangla	0830	78	1016.4	1007 2	..	14.9	13.0	11.4	13.5	81	..	2.7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1012.8	1003·6	..	18.9	15.7	13.3	15.3	71	..	3.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tazpur	0830	79	1018.6	1009·2	−0.3	13.6	12.5	11.9	13.9	87	−1	0.9	−1.8	2.2	0	0	29	4	13	5	0	1	5	1	0	2	0
	1730	,,	1014.1	1004·8	..	18.0	14.3	11.2	13.3	63	..	1.1	..	1.1	0	0	11	3	5	1	0	0	2	0	0	20	0
Golagha	0830	..	..	..	..	14.3	12.7	11.3	13.4	81	..	3.6	..	1·0	0	0	16	0	6	0	0	0	1	0	9	15	0
	1730	..	..	..	..	21.7	16.7	13·0	15·0	57	..	3.1	..	(d) 1.2	0	0	18	0	5	0	0	0	5	1	7	9	0
Rangia	0830	60	1018.4	1011.3	..	16.3	14.3	12.7	14.7	78	..	(b) 0.8	..	(b) 4.5	0	0	26	0	4	14	4	1	0	3	0	3	0
	1730	,,	1015.1	1007.9	..	19.8	16.3	13.7	15.6	69	..	(b) 0.3	..	(b) 0.7	0	0	6	0	0	2	0	0	0	4	0	23	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gosalpara	0830	38	1018.3	1013.7	..	14.0	11.5	9.1	11.5	74	..	0.3	..	0.9	0	0	12		4	0	3	0	1	0	1	19	0
	1730	,,	1014.0	1009.6	..	22.0	16.0	11.2	13.3	52	..	0.3	..	1 6	0	0	23	1	7	0	1	0	3	4	7	8	0
Gauhati (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

(d) Mean of 27 days

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) *(Contd.)*																											
Gauhati (Bhorjor)	0230	54	1014.9	1008.4	..	9.8	9.6	9.4	11.8	97	..	0.1	..	0.9	0	0	7	1	1	1	0	4	0	0	0	24	0
	0530	,,	1012.0	1005.5	..	8.8	8.6	8.4	11.0	97	..	0.7	..	1.1	0	0	6	1	1	0	0	4	0	0	0	25	0
	0830	,,	1017.7	1011.2	−0.5	14.2	12.6	11.2	13.3	82	−2	1.0	−1.0	0.4	0	0	3	0	1	1	1	0	0	0	0	28	0
	1130	,,	1015.7	1009.4	..	20.5	14.4	9.0	11.5	52	..	0.7	..	4.8	0	0	25	10	6	2	0	0	2	2	3	6	0
	1730	,,	1013.3	1007.0	..	17.6	14.0	11.0	13.1	65	..	1.5	..	1.4	0	0	7	0	1	0	0	3	1	1	1	24	0
	2330	,,	1015.8	1009.2	..	11.3	10.7	10.1	12.3	92	..	0.7	..	0.8	0	0	4	0	1	0	0	0	3	0	0	27	0
Dhubri (Rupsi)	0530	36	1015.0	1009.6	..	8.8	8.4	7.9	10.7	93	..	0.4	..	2.2	0	0	14	0	12	1	0	0	1	0	0	17	0
	0830	,,	1017.2	1011.8	..	14.3	12.5	10.7	12.9	79	..	0.3	..	5.0	0	0	28	0	6	11	1	4	4	2	0	3	0
	1130	,,	1015.8	1010.5	..	20.9	14.8	9.1	11.5	48	..	0.3	..	7.4	0	0	31	0	5	10	4	4	2	6	0	0	0
	1730	,,	1013.2	1008.0	..	18.3	16.0	12.5	14.5	68	..	0.1	..	1.3	0	0	9	0	1	0	0	0	4	4	0	22	0
Dhubri	0830	35	1017.9	1013.7	0	14.5	12.4	10.5	12.5	77	−7	1.3	−0.4	5.2	0	0	26	1	15	1	1	2	6	0	0	5	0
	1730	,,	1014.1	1009.9	..	18.9	14.2	10.2	12.4	56	..	0.2	..	0.1	0	0	1	0	0	0	0	0	1	0	0	30	0
Lumding	0830	149	1018.1	1000.5	..	13.2	11.1	9.1	11.5	76	−14	0.9	..	0.3	0	0	2	0	1	0	1	0	0	0	0	29	0
	1730	,,	1013.2	996.0	..	20.6	15.5	11.4	13.5	56	..	1.6	..	0.2	0	0	2	0	0	0	0	0	2	0	0	29	0
Tura	0830	370	1018.1	974.8	..	14.1	11.4	9.1	11.5	71	..	7.6	..	2.8	0	0	29	1	1	10	14	3	0	0	0	2	0
	1730	,,	1013.5	971.2	..	19.9	15.1	11.6	13.7	55	..	7.8	..	2.5	0	0	28	0	0	3	4	6	11	3	1	3	0
Haflong	0830	682	1018.3	940.2	..	14.0	11.3	8.9	11.4	71	..	1.8	..	8.0	0	0	31	1	0	0	2	7	20	0	1	0	0
	1730	,,	1012.7	935.6	..	16.5	12.5	9.5	11.9	65	..	2.5	..	8.3	0	0	31	0	0	0	0	4	24	0	3	0	0
Silchar (Kumbhirgram)	0530	97	1014.3	1002.8	..	11.8	11.3	10.0	13.4	89	..	2.0	..	7.8	0	0	29	0	2	27	0	0	0	0	0	2	0
	0830	,,	1016.5	1005.2	..	15.6	13.4	11.5	13.6	76	..	1.9	..	9.7	0	0	31	0	2	27	2	0	0	0	0	0	0
	1130	,,	1014.3	1003.1	..	20.9	15.4	10.9	13.0	52	..	1.7	..	6.2	0	0	28	1		7	9	4	5	1	1	3	0
	1730	,,	1012.4	1001.2	..	19.2	15.4	12.4	14.4	64	..	1.5	..	3.0	0	0	19	2	7	2	0	0	3	2	3	12	0
Silchar	0830	29	1017.7	1014.2	−0.3	15.5	13.7	12.2	14.2	81	−2	1.8	0	1.2	0	0	19	2	6	5	1	2	2	0	1	12	0
	1730	,,	1013.4	1010.0	..	20.1	15.8	12.3	14.3	62	..	1.8	..	0.3	0	0	5	1	2	0	1	0	1	0	0	26	0
Imphal (Tulihal)	0530	781	1018.8	927.2	..	5.5	5.1	4.6	8.5	96	..	2.8	..	1.2	0	0	6	1	0	0	0	0	1	2	2	25	0
	0830	,,	1019.3	929.5	−0.8	11.4	9.3	7.3	10.2	77	+1	2.8	+0.6	3.0	0	0	14	0	3	2	2	2	3	1	1	17	0
	1130	,,	1015.1	927.5	..	17.5	12.3	7.7	10.5	53	..	2.3	..	7.2	0	2	22	1	0	0	2	2	7	6	5	7	1
	1730	,,	1013.8	925.5	..	14.7	11.0	7.4	10.3	63	..	2.1	..	6.9	0	0	22	0	1	0	0	0	5	10	6	9	0
	2330	,,	1017.9	927.4	..	8.5	7.6	6.7	9.8	90	..	1.9	..	2.4	0	0	9	0	1	0	1	0	0	3	4	22	0
Kailashahar	0530	29	1016.4	1012.8	..	10.8	10.6	10.4	12.6	96	..	2.2	..	1.4	0	0	9	0	2	1	1	2	2	0	1	22	0
	0830	,,	1018.0	1014.5	..	15.3	13.4	11.8	13.8	81	..	1.3	..	3.3	0	0	22	0	1	0	2	11	7	1	0	9	0
	1130	,,	1016.5	1013.0	..	22.1	16.6	12.5	14.5	53	..	1.9	..	4.9	0	0	26	6	2	0	1	5	3	6	3	5	0
	1730	,,	1014.3	1010.9	..	19.4	16.2	13.8	15.8	71	..	1.5	..	0.3	0	0	3	0	0	2	0	0	0	1	0	28	0
Agartala	0230	16	1014.1	1012.1	..	12.1	11.3	10.6	12.8	90	..	0.7	..	1.6	0	0	10	1	0	1	6	2	0	0	0	21	0
	0530	,,	1014.4	1012.5	..	10.8	10.4	10.0	12.3	95	..	1.3	..	2.7	0	0	18	2	1	1	7	7	0	0	0	13	0
	0830	,,	1016.7	1014.8	+0.2	16.7	14.4	12.5	14.5	77	−2	1.2	−0.6	3.6	0	0	18	5	2	1	2	4	1	0	3	13	0
	1130	,,	1015.3	1013.4	..	23.1	16.0	10.2	12.4	44	..	1.2	..	9.5	0	0	29	7	2	0	0	2	4	6	8	2	0
	1730	,,	1013.1	1011.2	..	20.3	15.5	11.7	13.7	58	..	1.1	..	3.2	0	0	21	7	3	0	1	2	2	2	4	10	0
	2330	,,	1014.9	1013.0	..	13.3	12.2	11.2	13.3	87	..	1.1	..	3.1	0	0	14	2	2	1	5	2	0	1	1	17	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1014.9	999.1	..	9.3	8.5	7.6	10.4	90	..	0.2	..	0.8	0	0	7	2	1	0	0	0	0	0	4	24	0
	0530	,,	1015.0	999.2	..	8.1	7.6	7.0	10.0	92	..	0.2	..	1.8	0	0	11	4	0	2	0	0	0	3	2	20	0
	0830	,,	1017.2	1001.6	−0.5	13.5	11.8	10.2	12.4	81	0	0.4	−1.9	3.0	0	0	15	3	9	1	1	0	0	1	0	16	0
	1130	,,	1015.9	1000.6	..	21.0	14.9	9.7	12.0	48	..	0.8	..	7.5	0	0	28	1	1	8	14	2	1	1	0	3	0
	1730	,,	1013.2	997.9	..	17.3	13.9	11.0	13.1	66	..	1.8	..	2.5	0	0	11	0	1	2	0	0	4	4	0	20	0
	2330	,,	1015.6	999.9	..	10.5	9.6	8.7	11.2	89	..	0.3	..	3.8	0	0	22	7	5	0	0	0	0	7	3	9	0
Jalpaiguri	0830	83	1017.2	1007.2	−0.6	11.1	10.4	9.7	12.0	92	+6	0.3	−1.1	2.6	0	0	26	12	3	0	0	0	3	1	7	5	0
	1730	,,	1013.1	1003.6	..	19.7	14.9	10.9	13.0	57	..	0.4	..	2.1	0	0	19	1	0	2	3	4	7	2	0	12	0
Cooch Behar	0830	43	1017.5	1012.4	..	14.2	12.2	10.4	12.6	77	..	0.5	..	6.1	0	0	29	0	7	16	2	1	3	0	0	2	0
	1130	,,	1016.1	1011.1	..	20.7	14.9	10.0	13.3	50	..	0.5	..	9.0	0	1	30	0	3	10	6	6	4	1	0	0	1
	1730	,,	1013.5	1008.5	..	18.0	14.3	11.2	13.3	65	..	0.8	..	0.7	0	0	3	0	0	0	1	0	1	1	0	28	0
Balurghat	0830	26	1016.3	1013.3	..	16.5	13.2	10.3	12.5	66	..	0.8	..	2.5	0	0	25	4	2	1	3	2	6	3	4	6	0
	1730	,,	1012.5	1009.4	..	20.0	15.4	11.7	13.7	59	..	0.3	..	1.1	0	0	11	0	0	0	1	1	7	2	0	20	0
Malda	0830	31	1016.9	1013.2	−0.7	16.3	12.5	8.9	11.4	62	−10	1.1	+0.1	4.5	0	0	31	5	2	2	1	1	8	4	8	0	0
	1730	,,	1013.2	1009.5	..	20.9	14.9	9.8	12.1	49	..	0.7	..	2.8	0	0	22	3	1	2	0	0	0	4	12	9	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1017·2	1015·0	−0·5	16·0	13·1	10·5	12·7	70	−7	0·5	−1·3	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013·5	1011·1	..	21·3	15·7	11·2	13·3	53	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Suri	0830	..	..	..	..	17·0	12·6	8·4	11·0	57	..	2·6	..	4·5	0	0	27	4	3	1	1	0	3	10	5	4	0
Asansol	0230	126	1015·2	1000·4	..	12·6	10·7	8·8	11·3	78	..	0·8	..	0·6	0	0	4	0	0	0	0	0	0	0	4	27	0
	0530	,,	1015·6	1000·6	..	11·4	9·9	8·3	10·9	82	..	0·6	..	1·0	0	0	4	0	1	0	0	0	0	0	3	27	0
	0830	,,	1017·8	1002·9	+0·2	16·6	13·0	9·8	12·1	64	−2	1·4	−0·5	4·0	0	0	23	2	2	2	0	0	0	7	10	8	0
	1130	,,	1016·4	1001·9	..	23·6	15·1	7·4	10·3	35	..	0·8	..	8·6	0	1	29	7	6	3	0	1	2	4	7	1	0
	1730	,,	1013·7	999·1	..	21·6	15·0	9·3	11·7	45	..	0·7	..	3·2	0	0	19	3	3	0	1	1	0	2	9	12	0
	2330	,,	1016·0	1001·1	..	13·8	11·3	8·9	11·4	72	..	0·8	..	1·0	0	0	6	0	0	0	0	0	2	0	4	25	0
Shanti Niketan	0830	59	1017·8	1010·9	..	17·4	13·1	9·1	11·5	59	..	1·1	..	4·8	0	0	25	4	6	0	0	0	1	4	10	6	0
	1130	,,	1017·0	1010·1	..	22·6	14·8	7·7	10·5	38	..	1·0	..	8·6	0	1	28	9	4	0	3	1	1	2	9	2	0
	1730	,,	1014·1	1007·3	..	20·1	14·7	10·1	12·3	52	..	0·9	..	3·2	0	0	21	11	4	1	1	1	0	2	1	10	0
Krishnanagar	0830	15	1018·0	1016·3	+0·6	17·3	14·1	11·4	13·5	69	−4	0·8	−0·5	0·1	0	0	2	0	0	0	1	0	1	0	0	29	0
	1730	,,	1013·7	1012·0	..	22·7	17·0	12·8	14·8	55	..	0·7	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
Purulia	0830	255	1018·2	988·6	+0·2	17·6	12·5	7·5	10·4	51	−9	1·4	−0·2	6·4	0	0	29	0	4	0	1	0	2	0	22	2	0
	1730	,,	1013·5	984·5	..	22·3	15·4	9·6	11·9	43	..	1·8	..	2·4	0	0	18	0	6	0	1	0	2	0	9	13	0
Bankura	0830	100	1016·8	1005·1	..	18·2	13·5	9·3	11·7	56	..	0·6	..	1·3	0	0	17	4	7	0	0	0	1	0	5	14	0
	1730	,,	1013·3	1001·6	..	23·6	16·7	11·3	13·4	46	..	0·8	..	(a) 0·3	0	0	3	0	0	0	0	0	0	0	3	27	0
Burdwan	0830	32	1017·1	1013·4	−0·4	19·8	14·6	10·2	12·4	53	−17	0·6	−1·2	1·6	0	0	11	6	2	2	0	0	0	1	0	20	0
	1730	,,	1013·5	1009·8	..	24·1	17·1	11·9	13·9	45	..	0·2	..	1·9	0	0	12	4	0	0	4	1	0	3	0	19	0
Barrackpore (Aerodrome)	0530	7	1015·2	1014·4	..	14·5	13·5	12·7	14·7	89	..	1·6	..	2·8	0	0	13	2	4	3	0	1	2	1	0	18	0
	0830	,,	1017·5	1016·7	+0·1	17·9	15·0	12·7	14·7	73	−1	1·5	−0·5	5·0	0	0	25	4	3	7	1	0	2	1	5	8	0
	1130	,,	1016·5	1015·7	..	23·7	17·0	11·9	13·9	48	..	1·1	..	8·9	0	0	30	9	4	4	0	0	3	2	8	1	0
	1730	,,	1013·8	1013·0	..	21·6	18·1	15·8	17·9	69	..	0·7	..	1·5	0	0	9	3	1	0	1	2	1	0	1	22	0
	2330	,,	1015·6	1014·8	..	16·2	15·1	14·3	16·3	89	..	0·9	..	1·5	0	0	5	0	0	1	0	2	2	0	0	26	0
Calcutta (Dum Dum)	0230	6	1014·4	1013·6	..	15·3	14·1	13·1	15·1	86	..	1·8	..	2·1	0	0	11	4	0	0	1	1	3	0	2	20	0
	0530	,,	1014·8	1014·0	..	14·5	13·2	12·1	14·1	86	..	1·8	..	2·3	0	0	14	8	1	0	2	0	2	1	0	17	0
	0830	,,	1017·1	1016·3	−0·3	18·2	14·9	12·3	14·3	68	−5	1·7	+0·1	5·3	0	0	30	10	8	4	0	2	1	2	3	1	0
	1130	,,	1016·1	1015·3	..	23·8	16·7	11·5	13·6	45	..	1·6	..	6·3	0	0	31	16	4	0	1	4	1	0	5	0	0
	1730	,,	1013·6	1012·8	..	22·6	17·3	13·5	15·5	57	..	1·2	..	1·5	0	0	13	4	3	1	0	2	2	0	1	18	0
	2330	,,	1015·2	1014·4	..	16·1	14·6	13·5	15·5	84	..	1·1	..	1·7	0	0	12	6	2	0	1	2	1	0	0	19	0
Calcutta	0830	6	1017·0	1016·2	−0·5	18·9	15·0	12·0	14·0	64	−18	1·5	−0·3	5·0	0	0	28	6	6	3	2	1	4	0	6	3	0
	1130	,,	1015·7	1015·0	..	24·7	17·0	11·0	13·1	42	..	1·3	..	7·1	0	0	30	3	4	3	2	1	4	3	10	1	0
	1730	,,	1013·2	1012·5	..	23·1	17·1	12·6	14·6	51	..	1·4	..	2·4	0	0	18	5	1	2	0	3	2	1	4	13	0
Midnapore	0830	45	1017·3	1011·9	−0·3	18·6	14·0	10·0	12·3	57	−7	0·9	−0·9	3·5	0	0	28	7	13	3	0	1	1	0	1	3	2
	1730	,,	1013·1	1007·9	..	25·2	17·0	10·5	12·7	40	..	1·1	..	0·8	0	0	8	4	2	0	0	1	1	0	0	23	0
Contai	0830	11	1016·9	1015·6	+0·1	20·0	16·6	14·1	16·1	68	−4	1·5	+0·5	2·3	0	0	23	13	4	2	1	2	1	0	0	8	0
	1730	,,	1013·3	1012·1	..	23·0	18·4	15·3	17·4	62	..	1·0	..	1·7	0	0	18	0	1	1	5	10	1	0	0	13	0
Sagar Island	0830	3	1016·4	1016·0	−0·8	20·4	17·6	15·7	17·8	74	−6	2.1	−0·1	16·3	0	6	25	10	11	2	1	2	3	1	1	0	0
	1730	,,	1013·1	1012·8	..	22·6	18·8	16·4	18·6	68	..	1·7	..	1·4	0	3	27	5	5	1	4	10	5	0	0	1	0
Sandheads	0530	10	1014·1	1013·0	..	22·9	19·9	18·1	20·8	74	..	0·9	..	10·1	0	4	24	6	9	0	0	2	8	2	1	3	0
	0830	,,	1016·3	1015·3	−0·8	23·6	20·1	18·1	20·8	70	+7	1·4	−0·4	11·8	0	4	25	6	10	1	0	1	7	3	1	2	0
	1130	,,	1015·7	1014·6	..	24·1	19·8	17·1	19·5	66	..	1·9	..	10·8	0	2	28	7	11	1	0	1	7	3	0	1	0
	1730	,,	1013·7	1012·6	..	24·2	20·1	17·7	20·2	67	..	1·0	..	8·5	0	0	26	4	5	5	2	2	6	1	1	5	0
	2330	,,	1014·7	1013·6	..	23·2	19·7	17·6	20·1	71	..	1·2	..	7·0	0	0	25	2	6	1	2	5	7	0	2	6	0
Orissa																											
Baripada	0830	54	1018·5	1012·1	..	18·6	14·7	11·5	13·6	63	..	2·0	..	2·8	0	0	23	11	7	0	0	1	1	1	2	8	0
	1730	,,	1014·2	1007·9	..	23·3	17·5	13·3	15·3	52	..	1·2	..	0·8	0	0	9	0	0	0	4	4	0	0	1	22	0
Jharsuguda	0230	230	1014·3	987·6	..	15·5	13·5	11·8	13·8	79	..	0·3	..	3·3	0	0	16	7	7	2	0	0	0	0	0	15	0
	0530	,,	1014·8	987·7	..	14·0	12·5	11·2	13·3	84	..	0·5	..	3·0	0	0	16	7	8	1	0	0	0	0	0	15	0
	0830	,,	1016·9	990·2	−0·3	17·7	14·0	10·9	13·0	64	−4	1·0	−0·5	8·2	0	0	29	14	15	0	0	0	0	0	0	2	0
	1130	,,	1015·5	989·4	..	24·7	17·1	11·3	13·4	43	..	1·3	..	7·7	0	1	27	8	5	4	1	2	5	1	2	3	0
	1730	,,	1012·4	986·4	..	25·4	17·5	11·5	13·6	41	..	2·0	..	3·3	0	0	16	2	1	1	0	3	5	2	2	15	0
	2330	,,	1015·0	988·2	..	17·6	14·6	12·2	14·2	71	..	0·7	..	2·2	0	0	10	4	2	3	1	0	0	0	0	21	0
Keonjhargarh	0830	463	1017·1	964·7	..	20·3	16·9	14·5	16·5	71	..	1·6	..	1·9	0	0	28	7	7	1	2	1	0	5	5	3	0
	1730	,,	1014·7	960·5	..	23·0	19·2	16·8	19·1	69	..	2·0	..	1·9	0	0	29	2	0	2	3	1	5	11	5	2	0

(a) Mean of 50 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. or nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Balasore	0830	20	1017·0	1014·7	−0·5	19·3	15·9	13·3	15·3	69	−3	2·3	+0·5	5·3	0	0	30	20	3	0	1	2	2	0	2	1	0
	1730	,,	1013·3	1011·0	..	22·7	18·6	15·9	18·1	66	..	1·9	..	2·9	0	0	23	0	2	0	15	6	0	0	0	8	0
Sambalpur	0830	148	1016·7	999·6	0·7	19·9	15·8	14·6	16·6	71	0	0·3	−1·5	0·6	0	0	8	0	7	0	0	0	0	0	1	23	0
	1730	,,	1012·2	995·3	..	25·5	17·5	11·5	13·3	41	..	0·7	..	0·2	0	0	3	2	0	1	0	0	0	0	0	28	0
Angul	0830	139	1016·9	1000·8	0·4	19·7	18·1	17·1	19·5	85	+12	2·0	−0·3	3·5	0	0	28	1	4	3	2	1	0	13	4	3	0
	1730	,,	1016·3	1000·3	..	22·6	19·1	18·2	20·9	70	..	1·3	..	3·7	0	0	31	1	6	2	1	1	1	9	10	0	0
Cuttack	0830	27	1017·0	1013·9	−0·5	21·1	18·7	17·2	19·6	79	+1	2·5	+0·5	2·5	0	0	12	0	6	1	1	0	2	2	0	19	0
	1730	,,	1013·0	1010·0	..	26·2	20·7	17·2	19·6	56	..	1·7	..	4·3	0	0	20	0	2	4	2	11	1	0	0	11	0
Chandbali	0830	6	1017·1	1016·4	−0·4	22·1	18·4	15·9	18·1	67	−8	1·9	+0·1	2·9	0	1	27	10	4	3	1	4	2	2	2	3	0
	1730	,,	1013·2	1012·5	..	23·9	19·2	16·2	18·4	61	..	1·8	..	7·0	0	1	30	1	7	9	13	1	0	0	0	0	0
Bolangir	0830	190	1016·8	994·8	..	21·9	17·3	14·1	16·1	61	..	0·7	..	3·9	0	0	31	8	4	2	4	5	4	1	3	0	0
	1730	,,	1012·3	990·8	..	26·8	19·3	14·3	16·3	46	..	1·4	..	3·2	0	0	31	12	10	0	1	1	1	2	4	0	0
Phulbani	0830	464	1015·6	962·1	..	16·3	14·4	12·9	14·9	79	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1010·2	958·8	..	24·2	18·1	13·8	15·8	53	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Titlagarh	0830	211	1016·8	992·6	..	21·8	17·5	14·5	16·5	63	..	0·6	..	4·1	0	0	31	0	8	1	7	4	8	0	3	0	0
	1730	,,	1012·4	988·9	..	28·4	20·4	15·4	17·5	46	..	0·8	..	4·1	0	0	31	1	16	0	6	0	2	0	6	0	0
Bhubaneswar	0230	46	1014·3	1008·9	..	19·1	17·9	17·1	19·5	86	..	0·9	..	5·2	0	0	28	2	3	2	1	5	11	1	3	3	0
	0530	,,	1014·5	1009·1	..	18·2	17·1	16·3	18·5	90	..	0·7	..	5·9	0	1	30	3	7	1	3	3	3	9	2	0	0
	0830	,,	1016·9	1011·6	0	22·2	19·0	17·0	19·4	73	+3	1·3	−0·5	8·8	0	3	25	2	9	4	1	3	5	3	1	3	0
	1130	,,	1015·9	1010·7	..	26·9	19·9	15·5	17·6	50	..	2·1	..	12·8	0	7	23	2	4	3	4	4	10	2	1	1	0
	1730	,,	1013·2	1008·0	..	25·2	19·7	16·3	18·5	59	..	1·9	..	15·2	0	9	21	0	2	3	4	15	5	0	1	1	0
	2330	,,	1015·5	1010·1	..	20·5	18·8	17·7	20·2	85	..	1·2	..	8·3	0	1	28	0	4	4	4	5	12	0	0	2	0
Puri	0830	6	1016·8	1016·1	−0·2	23·5	20·5	18·5	21·3	74	−3	2·4	+0·6	9·0	0	3	27	7	7	1	0	2	9	4	0	1	0
	1730	,,	1013·2	1012·6	..	24·8	21·1	19·1	22·1	70	..	1·5	..	14·2	0	5	26	0	1	3	5	17	5	0	0	0	0
Gopalpur	0530	17	1014·5	1012·5	..	19·5	18·4	17·7	20·2	89	..	1·1	..	3·8	0	0	23	3	0	0	0	0	3	1	16	8	0
	0830	,,	1017·0	1015·0	0	22·0	19·7	18·3	21·0	81	+7	1·3	0·1	3·3	0	0	21	6	0	0	0	1	3	0	11	10	0
	1130	,,	1016·0	1014·0	..	26·9	22·3	19·9	23·2	66	..	1·8	..	10·5	0	2	29	0	3	6	5	17	0	0	0	0	0
	1730	,,	1013·5	1011·5	..	25·1	21·8	20·1	23·5	74	..	1·7	..	15·0	0	10	21	0	1	4	9	14	3	0	0	0	0
	2330	,,	1015·4	1013·4	..	22·3	20·5	19·5	22·7	81	..	1·5	..	5·9	0	1	24	1	0	0	1	5	14	1	3	6	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1017·9	1000·3	−0·1	18·1	12·5	9·2	11·6	64	−2	0·6	−0·8	3·2	0	0	15	2	2	1	3	0	2	4	1	16	0
	1730	,,	1013·8	996·6	..	21·1	15·8	11·6	13·7	56	..	0·7	..	1·9	0	0	9	0	0	1	1	0	2	1	4	22	0
Daltonganj	0830	221	1016·5	1003·3	+10·9	13·3	11·3	9·5	11·9	77	−3	0·5	−1·1	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1012·5	998·7	..	15·3	13·0	10·9	13·0	75	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Hazaribagh	0830	611	1017·5	947·4	−0·1	15·0	11·0	6·8	9·9	60	0	0·7	−1·2	6·3	0	0	24	2	1	2	0	1	2	4	12	7	0
	1730	,,	1013·7	944·7	..	18·7	13·3	8·3	10·9	52	..	0·8	..	6·6	0	0	31	7	1	0	0	2	0	1	20	0	0
Dhanbad	0830	257	1019·4	989·3	..	17·0	12·0	7·0	10·0	51	..	0·5	..	2·5	0	0	26	4	0	1	3	1	1	10	6	5	0
	1730	,,	1014·7	985·2	..	21·8	14·7	8·3	10·9	42	..	0·4	..	1·5	0	0	8	0	0	0	1	0	0	0	4	23	3
Ranchi	0830	655	1016·9	942·5	+0·1	17·2	12·0	6·7	9·8	53	−6	0·9	−1·2	1·8	0	0	15	0	2	1	0	3	1	2	6	16	0
	1730	,,	1013·9	940·5	..	20·1	13·7	7·7	10·5	47	..	2·1	..	0·6	0	0	6	1	0	1	0	0	0	2	2	25	0
Ranchi Aerodrome	0530	652	1015·5	940·4	..	12·2	9·2	5·8	9·2	64	..	0·8	..	8·0	0	2	28	8	0	1	0	1	4	4	12	1	0
	0830	,,	1017·0	942·5	..	15·0	10·3	5·0	8·7	51	..	1·0	..	10·9	0	2	29	3	5	2	0	1	4	4	12	0	0
	1130	,,	1015·1	942·1	..	20·5	12·7	4·5	8·4	34	..	1·5	..	14·1	0	6	24	3	1	5	1	0	5	6	9	1	0
	1730	,,	1012·3	939·6	..	20·6	12·8	4·6	8·5	35	..	1·5	..	14·0	0	6	25	7	2	3	1	1	3	0	14	0	0
Jamshedpur	0830	129	1017·6	1002·4	−0·4	17·0	13·5	10·5	12·7	66	−8	1·2	−0·7	3·5	0	0	26	0	1	4	1	0	0	14	6	5	0
	1730	,,	1012·8	998·1	..	24·2	17·3	12·1	14·1	47	..	1·3	..	1·6	0	0	14	0	2	0	3	0	0	6	3	17	0
Jamshedpur (P.B.O.)	0530	142	1015·4	998·6	..	14·1	11·9	9·9	12·2	76	..	1·1	..	2·3	0	0	12	1	2	0	2	0	0	0	7	19	0
	0830	,,	1017·7	1001·0	..	16·8	13·1	9·8	12·1	64	..	1·3	..	4·9	0	0	21	0	2	1	1	0	3	3	11	10	0
	1130	,,	1016·1	999·9	..	23·2	15·5	8·9	11·4	40	..	1·2	..	6·9	0	0	30	2	5	3	1	1	3	9	6	1	0
	1730	,,	1012·9	996·7	..	24·1	16·4	10·2	12·4	41	..	1·2	..	1·6	0	0	10	3	2	1	0	0	1	2	1	21	0
	2330	,,	1015·6	998·9	..	16·7	13·6	10·9	13·0	70	..	1·1	..	2·6	0	0	15	1	2	1	1	1	0	1	8	16	0
Chaibasa	0830	226	1017·3	990·9	−0·2	17.2	13.8	10.9	13.0	66	−10	2.3	+0.3	2.1	0	0	22	0	10	0	0	0	11	0	1	9	0
	1730	,,	1012.6	986.9	..	23.9	17.1	12.0	14.0	47	..	1.2	..	0.9	0	0	9	0	2	0	0	0	5	0	2	22	0
Bihar Plains																											
Motihari	0830	66	1017.0	1009.0	−0·4	13·3	11·3	9·4	11·8	75	−3	(a) 0·7	−1·3	(e) 1·5	0	0	11	0	0	2	2	0	1	3	3	15	0
	1730	,,	1013.9	1005.9	..	19·0	14·3	10·3	12·5	57	..	0·5	..	(c) 0·8	0	0	6	0	0	0	0	0	0	6	0	22	0

(R) Register not received. (e) Mean of 26 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 - 61	Wind speed (Km. p.h.): 1 - 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—*(Contd.)*																											
Forbesganj	0830	61	1017·2	1009·0	..	12·4	10·7	9·0	11·5	80	..	1·1	..	3·7	0	1	22	0	3	7	0	0	0	13	0	8	0
	1730	,,	1013·3	1006·3	..	18·5	14·5	11·2	13·3	59	..	0·5	.	1·7	0	0	19	0	1	0	0	0	0	18	0	12	0
Darbhanga	0830	49	1018·6	1012·7	+0·8	15·6	12·6	9·9	12·2	69	−13	0·3	+1·3	2·9	0	0	16	0	1	1	1	0	0	13	0	15	0
	1730	,,	1014·1	1008·3	..	20·2	16·1	13·6	15·7	66	..	0·3	..	0·4	0	0	4	0	0	0	0	0	0	4	0	27	0
Chapra	0830	53	1018·1	1011·5	..	16·4	12·3	8·3	10·9	58	..	0·5	..	3·9	0	0	28	2	3	0	2	0	15	0	6	3	0
	1730	,,	1017·7	1011·0	..	19·5	17·1	15·5	17·6	77	..	0·3	..	3·2	0	0	25	1	2	0	0	0	17	1	4	6	0
Purnea	0830	33	1017·5	1013·0	−0·1	13·8	11·2	8·7	11·2	71	−14	0·8	−0·6	2·1	0	0	19	0	1	3	0	0	7	8	0	12	0
	1730	,,	1013·6	1005·2	..	18·9	14·3	10·4	12·6	57	..	0·3	..	1·6	0	0	12	0	0	0	0	0	5	7	0	19	0
Patna	0830	53	1017·7	1011·3	−0·5	13·5	10·5	7·4	10·3	66	−5	0·8	−0·9	6·6	0	0	23	0	5	1	1	1	9	10	1	3	0
	1730	,,	1014·1	1007·9	..	20·4	14·1	8·3	10·9	46	..	1·0	..	4·7	0	0	22	0	1	0	1	0	0	17	3	9	0
Patna Aerodrome	0530	60	1015·0	1007·8	..	9·9	8·5	6·9	9·9	80	..	0·5	..	4·5	0	0	18	0	2	1	0	2	1	16	2	13	0
	0830	,,	1017·2	1010·1	..	13·3	10·4	7·4	10·3	67	..	0·9	..	7·0	0	1	23	1	0	1	2	0	8	10	2	7	0
	1130	,,	1016·5	1009·6	..	20·1	15·6	7·5	10·4	44	..	0·8	.	13·0	0	5	24	0	1	3	3	0	3	10	9	2	0
	1730	,,	1013·6	1006·7	..	19·2	13·9	9·1	11·5	53	..	0·9	..	4·6	0	1	13	0	0	1	0	0	0	9	4	17	0
	2330	,,	1015·6	1008·5	..	12·9	10·6	8·3	10·9	72	..	0·5	..	2·6	0	0	11	1	0	0	0	0	1	5	4	20	0
Bhagalpur	0530	49	1015·4	1009·6	..	12·1	10·3	8·5	11·1	78	..	0·9	..	4·5	0	1	20	0	0	2	2	4	9	4	0	10	0
	0830	,,	1017·7	1012·0	0·2	13·7	11·0	8·3	10·9	71	−5	1·3	0·4	5·3	0	3	18	0	0	0	1	3	12	3	2	10	0
	1130	,,	1017·2	1011·5	..	19·5	13·7	8·3	10·9	48	..	0·9	..	10·2	0	6	22	0	0	5	1	0	4	13	5	3	0
	1730	,,	1014·0	1008·5	..	19·4	14·3	9·9	12·2	54	..	1·0	..	6·4	0	0	23	0	0	1	0	0	10	10	2	8	0
	2330	,,	1016·1	1010·3	..	14·6	11·9	9·3	11·7	70	..	0·3	..	4·3	0	1	13	0	0	2	1	0	10	6	0	12	0
Sabour	0830	37	1017·7	1013·2	−0·4	14·2	12·0	10·0	12·3	74	−8	1·2	0·6	4·3	0	2	23	1	0	2	2	0	8	11	2	5	0
	1730	,,	1013·6	1009·2	..	20·1	15·8	12·5	14·5	59	..	0·8	..	3·1	0	0	15	0	0	0	0	0	1	9	6	15	0
Jamui	0830	82	1017·3	1009·2	..	15·3	12·1	9·1	11·5	66	..	0·1	..	2·3	0	0	24	2	1	5	4	0	0	2	10	7	0
	1730	,,	1013·3	1004·3	..	19·9	15·6	12·3	14·3	62	..	0·1	..	1·8	0	0	19	3	3	0	0	0	0	5	8	12	0
Dehri	0830	107	1017·4	1004·7	..	14·5	11·1	7·5	10·4	67	..	1·2	..	2·6	0	0	31	0	2	0	0	8	11	8	2	0	0
	1730	,,	1013·0	1001·6	..	21·5	14·3	7·7	10·5	41	..	1·1	..	3·3	0	0	30	3	3	0	1	0	0	19	4	1	0
Gaya	0230	116	1016·0	1002·1	..	11·1	9·3	7·4	10·3	78	..	0·2	..	4·0	0	0	22	0	1	0	4	7	4	3	3	9	0
	0530	,,	1016·1	1002·1	..	9·8	8·3	6·6	9·7	81	..	0·3	..	4·6	0	0	25	0	0	1	5	9	5	4	1	6	0
	0830	,,	1013·0	1004·2	0	14·3	10·7	6·9	9·9	62	−1	0·8	−0·9	7·7	0	4	23	0	0	2	1	4	7	7	3	4	0
	1130	,,	1017·5	1013·9	..	21·1	14·0	7·3	10·2	41	..	0·9	..	12·8	0	9	21	2	0	1	1	2	1	6	13	1	0
	1730	,,	1014·3	1000·3	..	20·7	14·2	9·3	10·9	45	..	1·0	..	7·2	0	1	24	4	1	0	0	0	0	1	16	6	0
	2330	,,	1016·6	1002·7	..	13·1	10·5	7·9	10·7	69	..	0·6	..	1·0	0	1	18	1	0	1	1	3	5	4	4	12	0
Uttar Pradesh (East)																											
Kheri	0830	147	1016·7	998·9	−1·0	9·1	7·6	5·2	9·1	79	−4	0·5	−1·6	2·3	0	0	29	0	0	2	0	0	0	27	0	2	0
	1730	,,	1013·8	996·6	..	18·4	13·6	6·8	10·7	51	..	1·8	..	3·5	0	0	31	0	0	3	0	0	0	28	0	0	0
Bahraich	0830	124	1017·6	1002·5	0	10·3	8·2	5·9	9·3	75	−6	1·2	0·3	3·7	0	0	26	1	0	5	0	0	0	16	4	5	0
	1730	,,	1014·6	1000·1	..	18·5	13·1	7·5	10·4	50	..	1·7	..	3·1	0	0	18	0	0	3	0	0	0	15	0	13	0
Nautanwa	0830	99	1015·2	1003·9	..	10·2	8·8	7·1	10·2	82	..	0·5	..	1·5	0	0	23	1	5	6	0	0	7	0	4	8	0
	1730	,,	1012·9	1001·4	..	20·2	13·9	8·1	10·9	49	..	0·4	..	1·9	0	0	20	0	0	1	2	1	10	3	3	11	0
Hardoi	0830	142	1017·8	1000·6	+0·2	9·3	7·6	5·1	8·8	77	−9	1·3	−1·0	3·5	0	0	25	0	0	4	1	0	2	11	7	6	0
	1730	,,	1014·6	998·0	..	18·2	12·3	5·9	9·3	46	..	1·3	..	2·6	0	0	23	1	1	2	1	1	1	11	5	8	0
Gonda	0830	110	1017·7	1004·6	..	11·8	9·2	6·9	10·9	72	−8	0·4	−1·9	3·3	0	0	25	0	0	5	0	0	0	5	15	6	0
	1730	,,	1014·4	1001·2	..	18·4	13·2	8·1	10·9	52	..	0·8	..	1·9	0	0	14	0	0	1	0	0	0	5	8	17	0
Lucknow	0830	111	1017·4	1004·1	−0·3	10·8	9·2	7·5	10·4	80	+2	(h) 0·9	−0·9	(h) 2·5	0	0	18	0	1	2	0	0	1	14	0	5	0
	1730	,,	1011·2	1001·3	..	19·3	12·6	5·7	9·2	40	..	(g) 1·0	..	(g) 1·7	0	0	13	0	0	0	1	0	0	12	0	11	0
Lucknow (Amausi)	0230	128	1016·0	1000·6	..	8·4	6·8	4·4	8·9	76	..	0·5	..	9·8	0	0	30	4	2	2	1	0	2	8	11	1	0
	0530	,,	1015·8	1000·3	..	6·8	5·7	4·0	8·2	82	..	0·6	..	8·1	0	0	23	3	2	4	0	0	1	11	7	3	0
	0830	,,	1017·8	1002·4	−0·2	10·1	7·9	5·0	8·7	71	−6	1·1	−0·7	9·9	0	1	29	1	0	5	1	2	2	11	8	1	0
	1130	,,	1017·5	1002·5	..	19·1	12·3	4·5	8·8	39	..	1·0	..	16·6	0	14	15	4	0	4	2	2	1	7	9	2	0
	1730	,,	1014·4	999·5	..	18·7	12·5	5·3	9·3	45	..	1·4	..	11·0	0	3	27	3	3	2	0	1	1	14	6	1	0
	2330	,,	1016·7	1001·3	..	9·7	7·7	4·8	8·9	73	..	0·7	..	10·0	0	1	29	3	1	3	0	0	2	15	6	1	0
Faizabad	0830	102	1017·3	1005·1	..	10·3	8·4	5·9	9·5	76	..	1·4	..	2·6	0	0	20	2	0	0	4	0	0	11	3	11	0
	1730	,,	1014·3	1002·4	..	18·0	12·9	7·6	10·8	52	..	1·5	..	1·5	0	0	11	0	1	0	0	0	1	9	0	20	0
Gorakhpur	0830	77	1017.3	1008.1	−0.1	13.4	10.3	6.6	9.7	64	−15	0.7	−0.7	4.3	0	0	28	0	1	7	0	1	4	13	2	3	0
	1730	,,	1013.3	1004.3	..	20.3	13.7	7.5	10.4	44	..	1.0	..	1.4	0	0	19	0	0	1	0	0	5	12	1	12	0
Gorakhpur P.B.O.	0230	78	1015.2	1005.8	..	12.1	9.4	6.7	9.8	73	..	0.2	..	5.7	0	0	22	3	1	0	0	2	1	13	2	9	0
	0530	,,	1015.1	1005.7	..	10.6	8.4	5.9	9.3	74	..	0.3	..	4.8	0	0	20	5	1	0	0	2	2	10	0	11	0

(h) Mean of 23 days. (g)—Meas of 24 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA)

Sub-Division : Observation	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of pressure standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in m. per hour	Wind speed (Km.p.h.): 62 to more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur P.B.O. —(*Contd.*)	1130	78	1016.9	1007.8	..	19.6	13.2	7.8	10.6	48	..	0.9	..	10.2	0	3	28	0	0	2	6	4	3	15	1	0	0
	2330	,,	1016.0	1006.7	..	13.5	10.5	7.7	10.5	69	..	0.2	..	5.1	0	0	23	4	0	0	0	2	2	14	1	8	0
Kanpur	0830	126	1018.1	1005.0	+0.2	9.4	7.6	5.9	9.0	76	−2	0.5	−0.8	5.5	0	1	22	2	0	6	0	1	2	10	2	8	0
	1730	,,	1013.8	1000.2	..	20.6	15.5	6.2	9.7	40	..	0.7	..	7.1	0	0	28	5	0	3	0	0	1	16	3	3	0
Kanpur (Aerodrome)	0530	126	1016.3	1004.0	..	8.3	6.5	3.6	8.2	74	..	1.0	..	6.6	0	0	23	4	1	0	1	0	0	10	7	8	0
	0830	,,	1018.3	1003.1	..	10.7	7.9	3.9	8.2	64	..	1.3	..	7.3	0	0	28	2	2	3	2	0	2	14	3	3	0
	1130	,,	1013.0	1003.3	..	19.3	11.9	2.8	7.7	35	..	1.3	..	12.9	0	23	5	6	1	1	5	1	1	7	6	3	0
	1730	,,	1011.7	1000.1	..	19.9	12.2	2.7	8.0	34	..	1.6	..	10.5	0	0	29	4	0	1	2	0	1	12	9	2	0
	2330	,,	1017.1	1002.1	..	12.1	8.7	4.2	8.7	61	..	0.9	..	8.4	0	0	26	4	0	2	0	0	0	12	8	5	0
Sultanpur	0830	97	1018.2	1006.4	..	12.0	9.2	6.1	9.4	67	..	0.7	..	2.1	0	0	21	0	1	0	1	0	2	10	7	10	0
	1730	,,	1014.2	1002.9	..	20.7	13.4	6.4	9.5	40	..	0.8	..	2.0	0	0	18	0	0	3	1	0	0	10	4	13	0
Azamgarh	0530	76	1017.1	1007.6	..	11.6	9.6	8.1	10.4	82	..	0.6	..	6.2	0	0	31	0	0	3	0	0	0	28	0	0	0
	1730	,,	1014.2	1005.1	..	19.1	15.3	12.5	14.3	65	..	0.8	..	5.8	0	0	31	2	0	4	0	0	0	25	0	0	0
Fatehpur	0830	111	1016.4	1004.7	..	11.1	8.5	5.2	9.0	68	−1	0.9	−1.0	4.1	0	0	27	0	3	4	1	0	6	10	3	4	0
	1730	,,	1014.7	1001.4	..	19.6	13.2	6.4	10.0	44	..	1.1	..	3.9	0	0	18	0	1	2	1	0	2	6	6	13	0
Ballia	0530	64	1018.3	1010.8	..	15.9	10.7	7.5	10.4	65	..	0.8	..	1.7	0	0	13	0	0	1	0	0	3	8	1	18	0
	1730	,,	1015.2	1003.2	..	20.1	14.5	9.5	12.0	52	..	0.4	..	1.0	0	0	7	0	0	1	0	0	0	5	1	24	0
Banda	0530	121	1019.9	1007.0	..	12.1	9.2	6.2	9.5	67	..	0.1	..	2.0	0	0	31	0	1	0	2	0	25	1	2	0	0
	1730	,,	1015.5	1001.5	..	21.5	15.9	11.0	13.1	53	..	0.6	..	2.0	0	0	31	0	7	0	0	0	15	0	9	0	0
Allahabad (Bamrauli)	0230	93	1016.2	1004.5	..	9.8	8.1	6.2	9.5	77	..	0.4	..	2.5	0	0	18	1	1	1	1	0	2	6	6	13	0
	0530	,,	1016.2	1004.5	..	8.3	6.9	5.2	8.8	81	..	0.3	..	1.8	0	0	19	2	0	1	1	1	6	8	0	12	0
	0830	,,	1018.5	1006.5	+0.1	11.0	8.5	5.2	8.8	69	−11	0.9	−1.4	3.1	0	0	24	0	2	1	1	0	7	13	0	7	0
	1130	,,	1017.8	1006.1	..	20.1	12.7	4.2	8.2	36	..	0.7	..	6.2	0	0	28	1	1	4	1	0	3	12	6	3	0
	1730	,,	1014.5	1003.1	..	20.3	13.5	6.4	9.6	42	..	1.4	..	2.8	0	0	23	2	3	1	0	0	6	3	8	8	0
	2330	,,	1016.7	1005.0	..	12.0	9.4	6.4	9.6	70	..	0.6	..	2.0	0	0	15	1	1	1	0	0	2	6	4	16	0
Varanasi (Babatpur)	0530	85	1016.9	1006.5	..	9.0	7.4	5.4	9.0	79	..	0.3	..	3.5	0	0	20	0	1	0	0	1	10	7	0	11	0
	0830	,,	1018.8	1008.5	+0.3	12.0	9.7	6.8	9.9	76	−8	0.6	−1.7	9.3	0	0	30	0	2	0	4	1	14	7	2	1	0
	1130	,,	1016.5	1003.0	..	18.7	12.7	6.8	9.9	48	..	0.6	..	13.8	0	7	23	2	1	1	2	0	4	11	8	1	1
	1730	,,	1015.5	1003.3	..	19.5	13.1	6.4	9.6	44	..	0.9	.	8.8	0	1	29	5	2	2	0	0	0	13	8	1	0
	2330	,,	1017.4	1007.1	..	11.8	9.6	7.1	10.1	75	..	0.3	..	4.2	0	0	18	1	1	3	0	0	0	10	3	13	0
Varanasi	0830	76	1017.8	1003.5	−0.3	12.3	9.9	7.3	10.2	71	−7	0.9	−0.7	2.0	0	0	28	0	2	0	0	1	5	15	5	3	0
	1730	,,	1014.5	1005.0	..	20.7	14.7	8.9	11.4	48	..	1.2	..	1.6	0	0	20	1	2	1	0	1	2	13	0	11	0
Uttar Pradesh (West)																											
Mukhim	0830	..	..	..	..	5.3	2.3	−3.2	5.3	53	..	3.2	..	0.8	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6.6	3.1	−1.9	5.5	53	..	2.5	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..
Theri	0830	..	..	..	..	6.5	5.8	4.6	8.5	90	..	3.7	..	0.2	0	0	2	0	1	0	0	0	1	0	0	29	0
	1130	..	..	..	..	12.2	8.2	2.8	7.5	54	..	2.8	..	0.4	0	0	4	0	0	0	1	0	0	1	2	27	0
	1730	..	..	..	..	15.5	9.9	3.4	7.4	49	..	3.0	..	1.1	0	0	11	0	0	0	7	0	4	0	0	20	0
Dehra Dun	0530	682	1016.9	956.8	..	7.2	6.1	4.8	8.6	86	..	2.8	..	1.6	0	0	12	7	3	0	0	0	0	2	0	19	0
	0830	,,	1018.1	938.1	−0.1	8.1	6.8	5.3	8.9	73	+10	2.8	−0.6	0.8	0	0	10	3	5	0	0	0	1	1	0	21	0
	1130	,,	1017.1	939.0	..	14.7	10.4	5.8	9.2	57	..	2.9	..	2.0	0	0	18	3	0	1	3	5	4	2	0	13	0
	1730	,,	1014.4	936.6	..	14.8	10.6	6.5	8.7	59	..	2.9	..	2.1	0	0	28	1	1	1	1	2	16	5	1	3	0
	2330	,,	1018.0	938.1	..	8.6	7.3	6.0	9.3	84	..	2.1	..	1.1	0	0	10	7	0	0	0	0	0	3	0	21	0
Mussoorie	0830	..	..	..	..	4.4	2.0	−0.9	5.7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3.9	1.9	−0.5	5.9	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1018.1	985.2	0	7.9	6.8	5.4	9.0	85	+2	2.5	−0.1	1.5	0	0	24	0	4	0	2	1	0	0	17	7	0
	1730	,,	1015.1	983.1	..	15.7	10.8	4.5	8.4	51	..	2.4	..	1.4	0	0	22	0	2	0	1	0	0	0	19	9	0
Najibabad	0830	270	1018.6	985.9	..	6.8	5.9	4.8	8.6	87	..	2.7	..	3.0	0	0	27	3	2	5	0	0	0	8	9	4	0
	1730	,,	1016.2	984.8	..	17.3	10.8	3.1	7.6	39	..	2.5	..	5.3	0	0	30	0	0	2	2	0	0	3	23	1	0
Meerut	0830	222	1021.5	994.9	+4.0	10.3	9.5	8.0	10.7	87	+10	0	−2.5	12.2	0	0	31	4	0	7	0	0	0	13	7	0	0
Bareilly	0830	173	1018.1	997.2	+0.3	11.0	8.7	6.4	9.4	72	−9	1.5	−0.8	4.2	0	0	29	4	6	2	3	0	0	4	10	2	0
	1730	,,	1014.5	994.3	..	16.9	12.0	7.1	10.1	49	..	1.5	..	2.2	0	0	19	1	1	1	0	1	0	4	11	12	0
Bareilly P.B.O.	0230	172	1016.1	995.4	..	10.8	8.2	5.3	9.2	70	..	0.2	..	4.5	0	0	29	4	4	5	0	0	0	8	8	2	0
	0530	,,	1015.6	994.8	..	9.1	7.1	4.9	8.7	75	..	0.5	..	5.0	0	0	28	1	2	3	0	0	1	11	10	3	0
	1130	,,	1017.6	997.3	..	16.2	10.7	5.4	9.1	46	..	1.4	..	7.4	0	0	30	2	0	3	3	0	1	6	15	1	0
	2330	,,	1017.0	996.5	..	12.0	8.8	5.5	8.9	65	..	0.2	..	4.3	0	0	29	3	1	1	1	0	0	13	10	2	0
Aligarh	0830	187	1018.5	995.4	..	7.9	6.0	3.5	7.9	75	+11	1.9	+0.4	2.3	0	0	26	3	1	1	0	0	0	16	5	5	0
	1730	,,	1015.4	993.0	..	17.5	11.4	4.3	8.3	42	..	2.0	..	2.4	0	0	28	7	0	2	0	0	0	16	3	3	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in gpm. of nearest standard isobaric level	Mean pressure in millibars: At Station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd.*)																											
Mainpur	0830	157	1017.8	998.8	−0.5	9.1	7.0	5.1	8.4	76	+3	0.1	−2.1	2.3	0	0	21	1	0	2	1	2	6	3	6	10	0
	1730	,,	1014.9	996.6	..	18.6	12.6	7.1	9.7	46	..	0.0	..	1.6	0	0	17	0	0	0	1	1	6	1	8	14	0
Agra	0830	169	1019.0	998.8	+0.7	9.1	6.5	3.7	7.6	70	+6	0.4	−1.8	0.6	0	0	5	0	0	0	0	0	0	0	5	26	0
	1730	,,	1015.8	995.8	..	18.5	12.1	4.8	9.0	42	..	1.2	..	1.5	0	0	8	0	0	0	0	0	0	0	8	23	0
Agra (Aerodrome)	0530	169	1017.1	996.5	..	5.8	4.8	3.4	7.8	85	..	0.8	..	6.0	0	0	23	2	2	2	0	0	0	6	11	8	0
	0830	,,	1019.1	998.5	..	7.6	6.2	4.1	8.2	79	..	1.2	..	5.1	0	0	23	2	0	0	1	0	1	7	12	8	0
	1130	,,	1018.8	999.0	..	17.4	11.6	4.7	8.5	45	..	1.3	..	12.0	0	2	28	5	0	3	2	1	0	4	15	1	0
	1730	,,	1015.6	995.9	..	17.9	11.9	5.5	9.0	43	..	1.5	..	9.5	0	0	28	8	1	2	0	0	0	2	15	3	0
	2330	,,	1017.8	997.5	..	9.4	7.5	5.1	8.8	75	..	1.0	..	4.7	0	0	16	4	0	4	0	0	0	2	6	15	0
Orai	0830	141	1020.5	1003.9	..	13.4	10.0	6.2	9.5	63	..	0.1	..	3.1	0	0	31	1	1	0	1	0	14	2	12	0	0
	1730	,,	1015.7	999.3	..	20.6	13.6	6.4	9.9	41	..	0.1	..	2.1	0	0	31	1	1	0	0	0	0	1	28	0	0
Jhansi	0830	251	1019.5	989.5	+0.6	11.0	8.1	4.4	8.4	62	0	0.3	−1.4	1.0	0	0	13	6	1	2	0	0	1	0	3	18	0
	1730	,,	1015.1	986.4	..	21.5	14.1	6.7	9.8	40	..	0.8	..	0.8	0	0	10	4	1	5	0	0	0	0	0	21	0
Punjab (India) including Delhi																											
Patankot	0530	312	1017.8	989.1	..	6.5	6.0	5.6	9.1	95	..	3.1	..	2.0	0	0	4	0	3	0	0	1	0	0	0	27	0
	0830	,,	1018.8	981.2	+0.4	7.3	6.7	5.4	9.0	88	+4	3.5	−0.4	3.0	0	1	7	0	2	3	0	0	1	1	0	23	1
	1130	,,	1019.7	982.4	..	13.1	9.8	6.1	9.4	64	..	3.0	..	9.0	0	1	26	2	4	3	1	3	12	1	1	4	0
	1730	,,	1016.5	979.7	..	13.7	10.0	5.8	9.2	58	..	3.7	..	10.9	0	2	25	4	4	0	1	0	7	11	0	4	0
	2330	,,	1019.0	981.6	..	8.2	7.5	6.7	9.8	91	..	3.0	..	2.0	0	1	4	0	4	0	0	0	0	0	1	26	0
Amritsar (Rajasansi)	0530	234	1017.8	989.2	..	4.5	4.1	3.6	7.9	93	..	2.1	..	3.7	0	0	14	0	1	3	1	0	3	4	2	17	0
	0830	,,	019.1	990.4	+0.4	4.8	4.3	3.5	7.7	91	0	2.2	−1.0	4.0	0	0	15	1	2	3	2	0	1	4	2	16	0
	1130	,,	1019.4	991.6	..	13.3	9.8	5.6	9.3	61	..	2.4	..	8.5	0	2	21	1	1	2	3	0	3	5	8	8	0
	1730	,,	1016.6	989.0	..	13.9	10.2	5.8	9.5	60		3.3	..	7.7	0	1	23	3	1	2	1	0	2	6	9	7	0
Adampur (Aerodrome)	*0530	249																									
	0830	,,	1019.3	988.8	..	3.5	3.3	3.1	7.6	97	..	3.2	..	2.1	0	0	10	0	1	3	0	0	0	1	5	21	0
	*1130	,,																									
	1730	,,	1016.6	987.3	..	13.7	9.9	6.4	9.4	63	..	3.0	..	9.9	0	2	27	2	1	0	2	0	2	4	18	2	0
	*2330	,,																									
Ludhiana	0830	247	1019.0	988.6	0	6.3	5.3	4.1	8.2	85	+6	2.2	−0.5	0.2	0	0	4	0	0	0	1	0	0	1	2	27	0
	1730	,,	1016.0	986.5	..	15.2	10.8	5.5	9.0	54	..	2.8	..	4.3	0	0	22	6	1	0	1	1	1	1	11	9	0
Ferozepur	0830	200	1019.4	994.9	..	6.0	5.2	4.3	8.3	90	..	2.0	..	1.0	0	0	15	3	4	0	0	1	0	0	7	16	0
	1730	,,	1016.6	992.9	..	15.3	10.7	4.5	8.4	54	..	2.4	..	2.3	0	0	25	2	1	0	0	0	1	0	21	6	0
Halwara (Aerodrome)	0830	242	1019.1	990.2	..	5.1	4.5	3.5	7.9	46	..	2.4	..	5.0	0	0	25	3	2	2	3	1	0	2	12	6	0
	1730	,,	1017.2	988.8	..	14.9	9.7	3.2	7.7	47	..	2.4	..	10.0	0	1	30	4	0	1	4	1	0	1	20	0	0
Chandigarh	0830	347	1017.8	976.1	0	9.3	7.6	5.6	9.1	79	+1	2.3	+0.2	1.0	0	0	12	0	0	0	2	0	0	0	10	19	0
	1730	,,	1014.9	974.3	..	15.5	10.2	5.8	9.2	49	..	2.8	..	3.0	0	0	27	0	1	0	2	0	0	0	24	4	0
Ambala	0830	272	1018.2	985.6	+0.2	9.1	7.4	6.0	9.3	78	+3	1.7	−1.1	3.9	0	0	22	0	5	0	9	0	0	0	8	9	0
	1730	,,	1015.2	983.6	..	13.1	11.2	7.9	10.7	60	..	1.2	..	3.9	0	0	21	0	4	0	9	0	1	0	7	10	0
Ambala (PBO)	0230	278	1017.0	983.9	..	8.8	7.1	5.3	8.9	79	..	2.2	..	7.3	0	0	24	2	0	0	2	1	0	6	13	7	0
	0530	,,	1016.6	983.1	..	7.8	6.5	5.1	8.8	84	..	2.4	..	7.2	0	1	22	5	0	0	1	0	0	4	13	8	0
	1130	,,	1018.3	985.9	..	14.4	10.4	6.5	9.8	61	..	2.5	..	11.9	0	7	21	2	1	2	5	0	1	1	16	3	0
	2330	,,	1017.4	984.2	..	10.5	8.2	5.8	9.2	74	..	2.2	..	8.0	0	0	23	2	0	1	2	0	1	2	15	8	0
Ambala (Aerodrome)	0530	274	1016.9	983.7	..	5.6	5.1	4.4	8.4	92	..	2.0	..	6.9	0	0	17	0	0	0	1	0	0	5	11	14	0
	0830	,,	1018.2	985.0	..	7.0	6.1	5.0	8.7	87	..	2.7	..	7.8	0	2	19	0	1	2	0	0	0	3	15	10	0
	1130	,,	1018.3	985.9	..	14.3	10.2	4.7	8.5	57	..	2.5	..	16.2	0	13	17	1	2	3	1	1	0	4	17	1	1
	1730	,,	1015.5	983.2	..	15.0	10.5	4.8	8.6	54	..	2.5	..	12.7	0	7	19	0	0	2	2	1	0	9	11	5	1
	2330	,,	1017.8	984.8	..	8.6	7.1	5.1	8.8	80	..	2.0	..	8.2	0	2	19	0	0	1	2	0	0	8	10	10	0
Patiala	0830	251	1018.8	988.7	..	8.4	7.0	5.2	8.8	82	..	3.1	..	6.0	0	0	21	1	0	1	3	0	0	0	16	10	0
	1730	,,	1016.3	986.9	..	15.1	10.7	6.7	9.8	59	..	2.2	..	7.8	0	0	23	0	0	0	3	0	0	0	20	8	0
Bhatinda	0830	211	1019.0	993.6	..	10.2	7.7	5.0	8.7	69	..	1.7	..	1.0	0	0	11	0	0	0	4	0	0	0	7	20	0
	1730	,,	1017.0	992.2	..	16.0	12.0	8.0	10.7	60	..	1.0	..	2.0	0	0	12	2	1	0	2	0	0	0	7	19	0
Karnal	0830	249	1018.3	988.5	..	10.6	7.8	5.4	9.0	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1014.2	985.0	..	15.1	10.4	4.3	8.3	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1017.9	990.9	..	5.2	4.2	2.8	7.5	84	..	2.2	..	4.4	0	1	22	1	2	2	1	1	0	8	8	8	0
	0830	,,	1019.5	992.6	+0.4	6.4	4.9	2.5	7.3	77	+8	2.3	+0.1	3.3	0	0	25	4	1	0	3	2	8	6	1	6	0
	1130	,,	1019.0	992.9	..	15.8	10.3	4.2	8.2	48	..	2.0	..	7.5	0	0	31	5	2	2	3	3	3	1	12	0	0
	1730	,,	1016.6	990.3	..	16.9	10.8	2.9	7.5	42	..	1.7	..	4.6	0	1	27	5	0	2	2	0	2	6	11	3	0
	2330	,,	1018.6	991.9	..	8.5	6.6	3.8	8.0	73	..	1.1	..	6.0	0	1	26	2	0	3	2	1	2	7	10	4	0

*Data not available.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of pressure standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatrue in °C: Dry bulb	Mean temperatrue in °C: Wet bulb	Mean temperatrue in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi—(*Contd.*)																											
New Delhi (Safdarjung)	0230	216	1017.6	991.5	..	9.0	7.0	4.1	8.4	73	..	1.1	..	4.8	0	0	22	1	1	0	1	0	2	8	9	9	0
	0530	,,	1017.3	991.0	..	7.7	6.1	3.7	8.1	77	..	1.1	..	4.6	0	0	21	1	1	1	0	0	1	6	11	10	0
	0830	,,	1018.9	992.6	+0.3	7.8	6.1	3.5	8.1	75	−1	2.1	−1.2	5.0	0	0	25	1	1	0	1	0	2	12	8	6	0
	1130	,,	1018.9	993.4	..	15.8	10.2	3.4	8.0	45	..	2.0	..	13.1	0	7	24	2	1	1	3	0	2	6	16	0	0
	1730	,,	1015.8	990.4	..	17.2	11.1	3.5	8.3	42	..	2.1	..	7.1	0	1	24	1	1	1	2	0	0	10	10	6	0
	2330	,,	1018.0	992.1	..	10.3	7.8	4.2	8.5	67	..	1.0	..	4.4	0	0	21	1	0	2	1	0	1	5	11	10	0
Palam (Aerodrome)	0230	233	1017.0	988.7	..	8.2	5.7	3.5	7.9	75	..	1.1	..	6.5	0	0	25	5	3	1	2	0	3	8	3	6	0
	0530	,,	1016.7	988.5	..	6.3	4.9	2.6	7.4	78	..	1.2	..	5.9	0	0	27	4	3	2	3	0	5	7	3	4	0
	0830	,,	1018.4	990.2	..	6.5	5.3	3.5	7.9	82	..	2.7	..	7.6	0	0	27	1	2	1	1	0	14	4	4	4	0
	1130	,,	1018.6	990.1	..	14.7	10.2	4.8	8.6	53	..	1.9	..	13.3	0	8	21	7	2	1	4	0	1	2	12	2	0
	1430	,,	1015.8	988.7	..	14.9	11.5	3.8	7.0	36	..	2.2	..	15.6	0	6	25	7	3	0	3	0	1	6	11	0	0
	1730	,,	1015.3	989.0	..	17.0	11.2	3.8	8.0	43	..	2.2	..	11.4	0	4	27	6	2	1	2	0	1	4	15	0	0
	2030	,,	1016.4	989.4	..	11.9	8.6	4.2	8.2	64	..	1.0	..	7.4	0	0	27	6	3	1	3	0	2	5	7	4	0
	2330	,,	1017.4	989.4	..	10.1	7.4	3.7	8.0	65	..	0.9	..	7.7	0	3	25	5	3	3	3	0	2	7	5	3	0
Himachal Pradesh																											
Mandi	0830	761	1019.7	929.7	−2	5.3	4.9	4.3	8.3	96	+1	5.4	+0.5	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	,,	1014.6	927.7	..	12.7	9.2	5.4	8.9	63	..	4.0	..	0.3	0	0	3	0	0	0	2	0	0	1	0	28	0
Bilaspur	0830	587	1019.2	949.9	..	8.0	7.0	6.0	9.3	85	..	1.5	..	0.7	0	0	7	0	2	1	0	1	3	0	0	24	0
	1730	,,	1015.4	948.0	..	14.8	11.4	7.6	10.4	62	..	0.5	..	0.6	0	0	7	0	3	2	0	2	0	0	0	24	0
Jammu and Kashmir.																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3086.9	661.9	..	−17.3	−18.2	−22.2	0.8	56	..	3.2	..	3.4	0	0	17	7	7	0	0	1	2	0	0	14	0
	0830	,,	3089.4	662.5	−1.9	−13.7	−15.0	−20.5	1.0	53	−6	4.5	−0.9	1.7	0	0	12	3	4	0	0	1	4	0	0	19	0
	1730	,,	3063.7	661.7	..	−9.7	−10.6	−13.0	2.2	74	..	7.5	..	3.1	0	0	30	0	2	0	1	7	16	2	2	1	0
Srinagar	0830	1587	1526.0	843.6	−1.7	−2.5	−3.0	−3.9	4.4	90	+4	4.3	−2.3	2.2	0	0	18	2	0	4	5	0	1	1	5	13	0
	1130	,,	1534.8	844.7	..	−1.1	−1.9	−3.1	4.7	87	..	7.3	..	2.6	0	0	22	1	0	1	5	4	1	2	8	9	0
	1730	,,	1511.9	842.3	..	−0.1	−1.5	−3.8	4.5	74	..	6.5	..	3.0	0	0	24	4	0	3	2	0	2	7	6	7	0
Srinagar (Aerodrome)	0530	1666	1545.8	834.3	..	−2.9	−3.3	−4.0	4.4	89	..	6.9	..	1.2	0	0	5	0	0	0	0	1	0	2	2	26	0
	0830	,,	1521.2	835.7	..	−3.0	−3.3	−3.9	4.1	88	..	6.9	..	2.3	0	0	15	1	1	1	1	6	1	1	3	16	0
	1130	,,	1532.0	836.3	..	−1.2	−1.9	−3.2	4.7	86	..	6.9	..	2.8	0	0	16	3	2	2	3	1	0	1	4	15	0
	1730	,,	1504.3	834.1	..	−0.8	−1.4	−2.7	4.9	88	..	5.6	..	2.5	0	0	15	3	0	2	1	1	0	4	4	16	0
	2330	,,	1521.0	835.1	..	−2.7	−3.3	−4.3	4.3	88	..	6.1	..	0.8	0	0	5	0	0	0	0	0	0	2	3	26	0
Gulmarg	0830	2655						closed during winter months																			
	1730	,,						closed during winter months																			
Qazigund	0830	..	..	..	..	−4.9	..	..	..	..	..	7.0	..	3.3	0	0	25	0	1	0	18	2	3	0	1	6	0
	1730	..	..	..	..	−1.6	−2.9	−5.2	3.9	76	..	5.5	..	4.5	0	2	16	0	3	0	8	2	1	2	2	13	0
Banihal	0830	..	..	..	..	−1.9	..	..	..	..	..	4.1	..	5.7	0	2	6	0	1	1	0	1	0	1	4	23	0
	1730	..	..	..	..	2.6	0.8	−1.9	5.2	74	..	4.6	..	5.8	0	2	5	1	0	0	1	2	0	1	2	24	0
Jammu	0830	366	..	..	..	7.4	6.4	5.2	8.8	86	+18	2.7	−0.5	6.1	0	0	30	10	12	4	2	1	0	0	1	1	0
	1730	,,	..	..	..	12.8	10.1	7.2	10.1	70	..	2.8	..	3.5	0	0	24	7	9	1	1	2	2	1	1	7	0
Jammu (Aerodrome)	0530	292	1017.9	982.8	..	6.8	6.4	5.1	8.8	89	..	3.1	..	3.1	0	0	19	1	12	3	0	0	1	1	1	12	0
	0830	,,	1018.9	983.4	..	6.9	6.1	5.2	8.8	80	..	3.5	..	4.7	0	0	24	1	14	6	1	1	0	0	0	7	1
	1130	,,	1019.6	984.6	..	12.2	6.1	5.6	9.1	67	..	3.2	..	4.9	0	0	27	1	3	3	4	6	1	6	3	4	0
	1730	,,	1017.0	982.1	..	13.3	9.7	5.1	8.7	60	..	3.8	..	4.8	0	0	24	0	3	0	2	1	5	5	8	7	0
	2330	,,	1019.0	984.0	..	8.3	7.1	5.7	9.1	84	..	3.0	..	4.2	0	0	19	2	12	4	0	0	0	0	1	12	0
Rajasthan (West)																											
Ganganagar	0530	177	1017.7	996.0	..	5.6	4.5	2.8	7.5	83	..	2.1	..	1.1	0	0	8	2	2	2	0	0	0	0	2	23	0
	0830	,,	1019.2	997.5	+0.5	5.2	4.1	2.3	7.3	82	−1	1.8	−0.3	1.3	0	0	13	5	0	3	1	1	0	0	3	18	0
	1130	,,	1019.4	998.4	..	15.0	9.9	3.3	8.1	49	..	2.6	..	5.4	0	1	26	4	4	2	3	2	3	3	6	4	0
	1730	,,	1016.4	995.6	..	16.8	11.0	4.0	8.5	45	..	1.9	..	2.4	0	0	20	7	1	0	0	0	0	0	12	11	0
	2330	,,	1018.6	996.9	..	8.8	6.6	3.6	8.0	70	..	1.3	..	2.3	0	0	14	4	6	1	0	1	0	0	2	17	0
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	*0830	187	1017.9	994.8	..	6.4	4.9	2.1	7.1	75	..	1.4	..	2.4	0	0	10	2	2	1	1	2	1	0	1	17	0
	†1730	,,	1014.6	992.8	..	17.5	13.0	8.3	10.9	57	..	0.9	..	2.8	0	0	21	3	2	0	0	0	2	4	10	5	0

*Observations for 27 days. (R) Register not received. †Observations for 26 days.

Sub-Division and station	Hours of observation of I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(Contd.)																											
Churu	0830	291	1020·0	984·5	..	5·2	2·8	−1·7	5·5	63	..	1·9	..	1·4	0	0	12	0	0	2	3	3	2	1	1	19	0
	1730	,,	1016·0	982·2	..	17·8	11·3	3·4	8·2	41	..	1·7	..	8·3	0	2	29	18	2	1	0	1	0	4	5	0	0
Bikaner	0830	224	1019·5	992·1	+0·5	5·8	3·1	−1·2	5·5	61	−4	1·2	−1·0	1·6	0	0	16	1	1	1	8	2	1	1	1	15	0
	1730	,,	1015·7	990·1	..	18·5	10·8	0·7	6·4	32	..	1·2	..	3·9	0	0	29	4	11	2	0	0	4	3	5	2	0
Bikaner P.B.O.	0530	224	1017·7	990·2	..	4·5	2·3	−1·5	5·4	66	..	1·6	..	0·3	0	0	3	1	1	1	0	0	0	0	0	28	0
	1130	,,	1019·1	992·7	..	16·1	9·1	−1·7	5·3	33	..	2·1	..	3·0	0	0	22	3	4	2	5	3	1	1	2	9	1
	2330	,,	1018·4	991·3	..	8·6	5·3	−0·2	6·0	56	..	1·5	..	1·5	0	0	7	1	3	2	0	0	0	0	1	24	0
Nagaur	0830	298	1019·2	983·5	..	11·6	7·6	2·4	7·3	53	..	1·9	..	5·7	0	0	31	5	10	2	7	3	2	0	2	0	0
	1730	,,	1015·4	981·0	..	18·4	12·9	7·7	10·5	51	..	1·7	..	6·9	0	0	31	10	4	1	0	1	3	3	9	0	0
Jhalodi	0830	234	1019·6	991·2	..	6·9	4·0	−1·2	5·8	60	..	1·8	..	4·8	0	0	26	4	2	2	9	6	1	2	0	5	0
	1730	,,	1016·7	989·6	..	19·6	11·7	2·0	7·1	34	..	1·8	..	7·5	0	0	30	9	8	0	1	0	3	3	6	1	0
Jaisalmer	0830	242	1018·3	989·8	..	8·1	4·8	−0·3	6·0	57	..	2·7	..	6·1	0	3	15	8	3	5	1	1	0	0	0	13	0
	1730	,,	1014·6	986·9	..	19·2	12·2	3·3	7·7	38	..	2·5	..	9·2	0	3	24	13	4	0	0	1	1	0	8	4	0
Jodhpur	0230	224	1017·1	990·4	..	11·3	6·1	−2·2	5·2	39	..	1·1	..	10·8	0	1	30	14	16	0	0	0	1	0	0	0	0
	0530	,,	1016·9	989·9	..	9·4	5·2	−2·3	5·4	47	..	1·2	..	9·6	0	0	31	8	22	0	0	1	0	0	0	0	0
	0830	,,	1018·6	991·6	+1·7	9·3	4·9	−3·4	5·1	43	−4	1·5	−0·9	6·6	0	0	25	5	17	0	1	0	0	1	1	6	0
	1130	,,	1018·8	992·5	..	17·4	9·8	−1·8	6·0	33	..	1·6	..	9·7	0	23	4	0	11	9	1	2	0	3	1	4	0
	1730	,,	1014·9	989·0	..	21·3	11·6	−2·6	3·7	22	..	2·2	..	7·9	0	0	28	3	9	2	0	1	1	5	7	3	0
	2330	,,	1017·6	991·0	..	13·6	7·6	−2·4	5·6	36	..	1·3	..	10·5	0	1	30	10	16	0	1	0	1	1	2	0	0
Barmer	0530	194	1016·7	993·4	..	10·8	6·9	1·3	6·9	53	..	0·5	..	2·8	0	0	28	6	0	0	0	0	1	0	21	3	0
	0830	,,	1018·3	994·9	+0·5	10·5	7·0	2·0	7·2	57	+6	1·2	−0·9	3·3	0	0	30	3	0	0	0	0	0	1	26	1	0
	1130	,,	1018·6	995·8	..	17·6	11·4	3·9	8·7	42	..	1·0	..	3·5	0	0	31	11	5	3	4	0	0	1	7	0	0
	1730	,,	1014·7	992·2	..	21·4	13·7	5·5	9·5	37	..	1·8	..	3·5	0	0	30	8	3	0	2	1	2	2	12	1	0
	2330	,,	1017·3	994·3	..	14·0	9·0	2·3	7·5	46	..	0·2	..	2·8	0	0	27	7	0	0	0	0	1	1	18	[illegible]	[illegible]
Munabao (R)	0830	80																									
(R)	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1019·7	983·4	..	7·2	4·3	−0·6	5·8	58	..	1·0	..	7·7	0	0	26	0	1	1	9	4	9	2	0	5	0
	1730	,,	1015·5	980·5	..	16·9	10·6	2·8	7·5	40	..	0·6	..	10·2	0	2	28	14	1	4	2	0	0	5	4	1	0
Sikar	0830	433	1019·5	967·9	..	8·4	5·7	1·8	7·0	61	..	1·3	..	1·3	0	0	12	2	0	1	9	0	0	0	0	19	0
	1730	,,	1015·2	965·6	..	18·7	10·7	−0·6	5·6	30	..	1·1	..	2·1	0	0	21	8	1	2	0	1	1	5	3	10	0
Alwar	0830	271	1018·1	985·5	..	8·4	6·9	4·8	8·8	79	..	1·5	..	0·5	0	0	6	3	2	0	0	0	1	0	0	25	0
	1730	,,	1015·2	983·3	..	18·0	13·0	8·2	10·9	53	..	1·5	..	0·5	0	0	8	5	1	0	0	0	1	0	1	23	0
Jaipur (Sanganer)	0230	390	1017·0	970·5	..	8·5	5·0	−0·4	5·9	53	..	0·7	..	4·1	0	0	18	3	6	8	1	0	0	0	0	13	0
	0530	,,	1016·9	970·2	..	7·1	4·4	−0·1	6·2	60	..	0·7	..	3·1	0	0	14	4	3	7	0	0	0	0	0	17	0
	0830	,,	1018·9	972·2	−0·3	8·1	5·0	0·5	6·2	58	+2	1·2	−1·0	1·8	0	0	8	0	0	6	1	0	0	0	1	23	0
	1130	,,	1018·0	972·8	..	17·3	9·9	0·7	5·8	31	..	1·2	..	5·6	0	0	25	2	0	4	8	3	2	3	3	6	0
	1730	,,	1014·4	969·6	..	19·1	10·6	−1·5	5·4	27	..	1·6	..	4·1	0	0	20	3	0	1	1	0	1	5	9	11	0
	2330	,,	1017·6	971·3	..	10·2	5·9	−0·5	5·9	47	..	0·9	..	5·4	0	0	20	7	4	5	0	0	0	0	4	11	0
Dholpur	0830	176	1018.4	997.0	..	8.7	6.4	2.7	7.7	68	..	0.7	..	2.2	0	0	25	0	0	0	2	3	3	6	11	6	0
	1730	,,	1014.9	994.4	..	19.3	11.3	1.2	6.9	31	..	0.6	..	2.2	0	0	19	3	4	0	1	0	0	6	5	12	0
Ajmer	0830	486	1019.8	961.8	−0.1	6.9	3.9	−0.7	5.6	59	+3	1.6	−0.3	1.7	0	0	17	2	0	0	1	1	0	2	11	14	0
	1730	,,	1014.8	959·3	..	19.7	9.5	−3.3	4.6	24	..	1.8	..	4.8	0	0	27	4	3	0	3	1	6	5	5	4	0
Tonk	0830	272	1019.2	984.6	..	7.3	5.1	1.4	6.8	68	..	1.0	..	5.0	0	0	31	2	1	2	4	2	1	5	14	0	0
	1730	,,	1013·9	982·0	..	19.6	12.5	5.1	8.8	39	..	1.0	..	4.0	0	0	31	4	1	2	0	2	1	10	11	0	0
Bhilwara	0830	425	1019·2	968·7	..	9.7	5.6	−1.7	5.3	48	..	1.8	..	1.2	0	0	8	2	2	0	1	0	2	0	1	23	0
	1730	,,	1014·4	966·0	..	23.9	12.3	2.1	7.1	32	..	1.0	..	3.5	0	0	25	4	6	3	1	0	3	2	6	[illegible]	0
Kota (Aerodrome)	0530	274	1016.6	983.9	..	10.3	7.1	2.5	7.5	60	..	0.6	..	5.9	0	0	26	1	3	0	0	1	4	15	2	5	0
	0830	,,	1018.5	986.2	..	12.1	7.9	2.1	7.2	52	..	1.2	..	5.8	0	0	27	0	4	6	3	0	0	6	8	4	0
	1130	,,	1018.5	986.6	..	17.9	11.0	2.4	7.6	36	..	1.2	..	8.9	0	0	30	2	3	17	3	2	0	1	2	1	0
	1730	,,	1014.6	983.1	..	21.2	12.5	2.3	7.3	29	..	1.5	..	9.0	0	0	31	9	14	3	0	0	1	1	3	0	0
	2330	,,	1017.3	985.0	..	13.5	8.9	3.0	7.7	49	..	0.7	..	6.9	0	0	30	1	0	2	0	2	9	13	3	1	0
Kota	0830	257	1018.8	988.3	+0.3	12.8	8.5	2.9	7.8	52	−5	1.3	−0.5	1.3	0	0	7	1	1	0	1	0	0	1	3	24	0
	1730	,,	1014.8	985.2	..	20.5	12.8	4.8	8.5	33	..	1.5	..	1.4	0	0	6	1	0	1	0	1	1	0	2	25	0
Erinpura (Jawai Dam)	0830	295	1018.7	983.4	..	9.4	7.3	5.0	8.7	76	..	1.2	..	2.3	0	0	10	0	0	1	1	8	0	0	0	21	0
	1730	,,	1014.7	980·8	..	21.1	16.4	12.5	14.5	59	..	1·6	..	2 3	0	0	16	8	2	0	0	0	0	4	2	15	0

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibrs: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibrs: At station level	Mean pressure in millibrs: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East) – (*Contd.*)																											
Chambal (Rawat Bhatta Dam)	0830	351	1019.0	977.3	..	11.3	8.1	4.0	8.2	61	..	0.7	..	0.5	0	0	8	4	1	0	0	0	0	0	3	23	0
	1730	,,	1014.2	974.0	..	21.7	13.3	4.2	8.5	32	..	0.9	..	3.9	0	0	29	3	10	2	1	2	2	3	6	2	0
Udaipur	0230	582	1019.1	950.6	..	8.9	6.8	4.4	8.4	74	..	0.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1017.9	949.5	..	7.2	5.6	3.5	8.0	77	..	0.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1019.1	951.0	+0.6	9.8	6.4	2.0	7.2	59	+5	0.7	−0.7	0.3	0	0	2	1	0	0	0	0	0	1	0	29	0
	1130	,,	1017.8	951.7	..	19.0	11.0	1.8	7.4	33	..	0.8	..	2.0	0	0	14	4	2	4	1	2	1	0	0	17	0
	1730	,,	1014.0	948.3	..	20.4	12.5	4.8	8.8	37	..	1.4	..	1.0	0	0	7	0	3	1	0	0	2	1	0	24	0
	2330	,,	1018.5	950.4	..	10.2	7.7	4.9	8.7	70	..	0.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jhalawar	0830	321	1018.3	980.0	−0.2	10.5	7.2	2.7	7.5	59	+1	0.3	−1.4	1.5	0	0	17	4	2	1	0	2	1	1	6	14	0
	1730	,,	1013.6	977.0	..	22.2	12.7	1.3	7.0	26	..	0.6	..	3.1	0	0	30	7	9	1	0	1	2	5	5	1	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1017.2	992.1	..	7.5	5.7	2.9	7.5	74	..	1.1	..	0.5	0	0	5	1	0	1	0	3	0	0	0	26	0
	0530	,,	1017.0	991.8	..	6.4	4.7	2.3	7.2	76	..	1.0	..	1.4	0	0	10	3	0	0	1	3	0	0	3	21	0
	0830	,,	1018.9	993.9	+0.4	10.1	7.1	3.0	7.7	62	−10	1.3	−1.2	1.7	0	0	11	4	0	0	2	4	0	0	1	20	0
	1130	,,	1018.4	994.2	..	18.4	11.5	3.6	7.9	38	..	1.1	..	7.4	0	1	28	10	1	2	2	4	2	2	6	2	0
	1730	,,	1014.9	991.0	..	19.5	12.2	4.0	8.3	37	..	1.7	..	5.7	0	0	30	14	5	1	1	1	0	0	8	1	0
	2330	,,	1017.8	992.9	..	9.1	6.7	3.5	7.9	68	..	0.7	..	1.1	0	0	10	3	0	0	2	1	2	1	1	21	0
Sheopur	0830	235	1019.1	990.8	+0.9	8.4	6.0	2.4	7.4	67	−6	0.9	1.5	2.8	0	0	21	6	4	1	2	5	2	0	1	10	0
	1730	,,	1014.6	987.6	..	21.3	12.6	2.9	7.6	30	..	1.5	..	7.9	0	0	29	16	3	0	0	0	1	2	7	2	0
Shivpuri	0830	464	1018.5	963.9	..	10.9	6.2	−0.7	6.1	49	..	0.7	..	4.4	0	0	22	3	8	3	2	3	2	1	0	9	0
	1730	,,	1014.3	961.5	..	19.8	10.6	−0.6	6.3	28	..	1.0	..	3.9	0	0	24	3	6	0	0	0	0	5	10	7	0
Nowgong	0830	229	1019.1	991.6	+0.5	9.5	7.8	5.7	9.2	78	+2	0.8	1.4	0.5	0	0	4	0	0	2	0	2	0	0	0	27	0
	1730	,,	1014.6	988.3	..	20.9	13.3	5.3	9.1	37	..	1.1	..	1.1	0	0	11	2	1	0	0	0	1	1	6	20	0
Orna	0530	478	1017.3	960.4	..	7.1	5.0	2.1	7.2	71	..	0.7	..	2.9	0	0	26	1	5	8	9	0	1	1	1	5	0
	0830	,,	1018.4	962.5	−0.1	12.6	8.0	2.5	7.4	51	−11	0.8	−0.6	4.1	0	0	26	0	5	10	9	2	0	0	0	5	0
	1130	,,	1016.9	962.6	..	21.0	12.4	3.6	8.2	33	..	1.2	..	8.1	0	0	31	0	3	13	6	2	0	5	2	0	0
	1730	,,	1015.5	959.4	..	21.2	12.6	4.0	8.4	33	..	1.7	..	7.9	0	0	31	4	6	2	3	0	1	6	9	0	0
	2330	,,	1018.0	961.6	..	9.8	6.6	2.7	7.5	62	..	0.2	..	2.5	0	0	23	3	5	2	6	1	0	3	3	8	0
Nimach	0830	496	1019.2	960.9	+0.4	10.9	6.1	−1.1	6.3	45	−10	1.2	−0.3	4.0	0	0	27	1	15	6	0	0	0	3	0	4	2
	1730	,,	1014.1	958.2	..	21.9	11.6	−0.2	6.2	23	..	1.0	..	6.0	0	0	24	0	4	1	1	0	5	4	6	7	3
Rajgarh	0830	382	1018.1	972.7	..	9.1	6.7	3.1	7.9	68	..	0.3	..	1.7	0	0	23	10	0	3	4	5	0	1	0	8	0
	1730	,,	1013.4	970.0	..	22.6	13.9	3.6	8.1	30	..	0	..	2.0	0	0	28	19	0	2	1	3	0	3	0	3	0
Sagar	0830	551	1017.7	953.9	−0.1	14.2	8.4	1.2	6.9	43	−7	0.7	−1.1	5.2	0	0	26	0	8	11	2	0	1	2	2	5	0
	1730	,,	1013.0	951.2	..	21.6	12.2	2.0	7.4	28	..	0.9	..	4.5	0	0	27	0	6	8	0	0	2	7	4	4	0
Ratlam	0830	486	1018.1	951.2	+0.5	12.1	8.5	4.6	8.5	61	−2	0.7	1.5	12.7	0	8	22	3	15	7	2	1	1	1	0	1	0
	1730	,,	1013.1	958.5	..	23.2	15.0	8.4	11.1	39	..	1.0	..	10.7	0	0	31	2	12	4	0	0	2	5	6	0	0
Bhopal (Bairagarh)	0230	523	1016.2	955.1	..	11.5	7.5	3.0	7.5	56	..	0.5	..	9.2	0	2	28	8	14	2	1	0	1	2	2	1	0
	0530	,,	1016.2	955.0	..	10.6	7.0	2.7	7.4	59	..	0.5	..	9.6	0	0	29	4	15	2	3	1	1	1	2	2	0
	0830	,,	1018.0	957.3	−0.3	13.6	8.7	3.0	7.7	50	−1	1.4	−0.4	9.4	0	0	28	2	14	2	6	0	1	2	1	3	0
	1130	,,	1016.6	957.4	..	21.1	12.4	3.7	8.1	33	..	1.2	..	12.5	0	6	25	0	9	6	7	3	2	2	2	0	0
	1730	,,	1012.9	954.2	..	23.1	13.1	3.1	7.8	28	..	1.1	..	12.3	0	3	28	5	9	2	1	1	3	4	6	0	0
	2330	,,	1016.8	956.2	..	14.1	8.9	3.3	7.6	48	..	0.6	..	11.7	0	3	28	10	11	3	1	1	1	3	1	0	0
Ujjain	0830	489	1018.3	960.9	..	10.7	8.2	5.2	9.1	71	..	1.1	..	4.2	0	0	22	2	3	8	3	1	0	0	2	9	3
	1730	,,	1012.7	957.8	..	23.4	..	..	..	..	..	1.2	..	8.8	0	1	30	5	10	1	0	1	1	8	5	0	0
Narsinghpur	0830	356	1018.2	976.5	..	13.9	10.2	6.0	9.5	60	..	0.8	..	3.8	0	0	29	5	8	5	8	1	0	0	1	2	1
	1730	,,	1012.5	972.4	..	24.7	16.2	8.5	11.5	37	..	0.9	..	2.3	0	0	29	6	5	2	2	2	1	8	3	2	0
Hoshangabad	0830	302	1017.9	982.4	−0.1	14.4	9.9	4.4	8.6	53	−3	0.8	−0.9	7.7	0	1	28	1	8	10	4	1	4	1	0	2	0
	1730	,,	1013.0	978.5	..	24.9	15.3	6.1	9.8	30	..	0.8	..	4.8	0	0	31	1	6	10	2	0	10	1	1	0	0
Indore	0530	567	1016.4	949.9	..	9.3	6.2	2.3	7.3	62	..	0.3	..	6.1	0	2	20	3	7	6	0	0	6	0	0	9	0
	0830	,,	1018.0	952.0	−0.1	12.2	7.9	2.7	7.5	53	−7	0.6	−1.1	4.8	0	0	21	0	6	6	0	1	8	0	0	10	0
	1130	,,	1016.1	952.3	..	21.4	12.6	4.0	8.2	32	..	0.6	..	14.3	0	8	21	2	7	11	0	3	4	1	1	2	0
	1730	,,	1012.3	949.1	..	23.7	13.3	3.0	7.7	26	..	0.4	..	12.9	0	4	26	7	9	1	0	0	5	4	3	1	1
	2330	,,	1017.0	951.2	..	12.8	8.2	2.7	7.6	51	..	0.2	..	9.9	0	2	27	2	10	8	0	2	2	2	3	2	0
Rajpur (Jhabra)	0830	293	1018.1	983.3	..	11.5	8.3	4.1	8.4	62	..	0.9	..	1.0	0	0	9	0	1	3	2	0	0	2	1	22	0
	1730	,,	1013.2	980.2	..	25.3	14.6	3.0	8.0	25	..	0.6	..	6.4	0	1	20	0	1	1	0	0	0	16	3	10	0
Chhindwara	0830	685	1016.8	938.6	−0.5	14.0	9.9	5.6	9.3	59	−8	0.8	−1.0	2.1	0	0	14	1	6	2	0	0	0	1	4	17	0
	1730	,,	1011.1	935.6	..	24.1	14.1	5.8	8.8	31	..	1.2	..	6.0	0	0	28	2	2	0	3	2	6	5	8	3	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA)

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Seoni	0830	619	1017·2	946.5	+0.1	15.9	10.9	5.8	9.4	52	−9	0.7	−0.9	6.0	0	0	28	10	12	0	1	1	3	0	1	3	0
	1730	,,	1011.8	943.3	..	24.2	15.5	8.3	11.2	38	..	1.5	..	6.9	0	0	31	5	9	2	3	5	4	1	2	0	0
Betul	0830	653	1017.6	942.7	+0.2	14.6	10.0	5.2	9.0	55	−10	0.8	−1.3	2.5	0	0	23	0	3	9	6	0	0	4	1	8	0
	1730	,,	1011.6	939.4	..	23.9	13.9	4.4	8.6	29	..	0.9	..	6.0	0	0	31	11	9	1	2	1	1	4	2	0	0
Khandwa	0830	318	1017.2	979·8	−0.1	14.2	9.3	3.1	7 8	48	−8	0.4	−1.0	2.4	0	0	23	4	8	1	0	3	5	0	2	8	0
	1730	,,	1011.8	976.1	..	26.6	15.4	4.2	8.5	24	..	0.4	..	3.9	0	0	31	1	16	0	2	0	2	0	10	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1016.8	978.8	..	9 0	6.9	4.2	8.3	73	..	0.3	..	1.9	0	0	16	7	2	3	0	0	1	2	1	15	0
	0830	,,	1018.5	980.9	+0.2	11.9	8.2	3.4	8.0	57	−11	0.7	−1.3	0.8	0	0	11	1	0	4	0	0	1	4	1	20	0
	1130	,,	1017 5	980 9	..	19.7	12.2	3.5	8.2	35	..	0.5	..	3.1	0	0	22	3	3	7	0	2	1	4	2	9	0
	1730	,,	1013.4	977.2	..	21.4	12.8	3.3	7.9	31	..	0.6	..	3.2	0	0	25	5	0	3	2	0	1	4	10	6	0
	2330	,,	1017·2	979.7	..	12 9	9.2	4 6	8.7	58	.	0.5	..	2.0	0	0	20	4	2	2	1	1	2	5	3	11	0
Sidhi	0830	272	..	..	..	11 2	8 5	5.5	8.9	70	..	0.6	.	1.0	0	0	14	0	2	1	0	3	5	3	0	17	0
	1730	..	..	..	..	21 8	14 2	6 8	10 1	38	..	0.8	..	2.1	0	0	23	6	1	3	0	0	0	8	5	8	0
Umaria	0830	459	1018.6	964 4	..	10.1	8.2	6 4	9.5	78	+10	1.4	−1.1	0.6	0	0	9	0	3	1	4	0	1	0	0	22	0
	1730	,,	1013 5	961.6	..	21.6	14.4	8.4	11 2	43	..	1.6	.	2.5	0	0	21	0	4	2	0	0	3	5	7	10	0
Jaipur	0530	393	1016·3	969.9	..	10.0	8.4	6 5	9 7	79	..	0.2	..	0.6	0	0	8	0	4	1	2	0	0	0	1	23	0
	0830	,,	1018 2	972.2	−0 5	13.7	10.2	6 3	9.6	61	−10	0.9	0.9	2 1	0	0	21	3	5	0	7	4	0	2	0	10	0
	1130	,,	1016 6	971 1	..	22.0	14.0	5.9	9.5	36	..	0.8	.	4.1	0	0	30	5	12	1	3	4	3	0	2	1	0
	1730	,,	1013.1	968 7	..	22·6	14 5	6.6	9.9	37	..	1.1	..	3 5	0	0	28	5	12	1	1	0	3	5	1	3	0
	2330	,,	1016.7	970.8	.	13 6	10.6	7.4	10.4	67	..	0.5	..	2.1	0	0	16	2	6	2	3	2	0	1	0	15	0
Ambikapur	0830	611	1018.5	947.8	−0.1	12 8	10.4	8.1	10.9	73	−4	0.9	−0.8	2.2	0	0	12	0	8	2	0	0	1	1	0	19	0
	1730	,,	1012.9	944 7	..	21.6	14.2	7.9	10.8	42	..	1.7	..	6 1	0	0	26	10	7	0	0	0	5	2	2	5	0
Pendra	0530	625	1016.2	944.1	..	12.3	9.1	5.7	9 2	65	..	0.4	.	5.2	0	0	28	11	3	0	0	1	4	2	7	3	0
	0830	,,	1017.9	946 3	−0 2	15 1	10.6	5.9	9 5	56	−10	1.3	−0 5	5.7	0	0	29	15	1	1	1	3	2	0	6	2	0
	1130	,,	1015.9	945 9	..	21 2	13.6	6.5	10 1	40	..	1.4		9.0	0	3	28	13	4	0	0	2	7	1	2	0	2
	1730	,,	1012.9	943.2	..	22.2	13 9	6.9	9 8	40	..	1.8	.	6.4	0	0	30	13	0	0	1	3	4	3	6	1	0
	2330	,,	1016.6	945.0	..	14 9	10 7	6 3	9 8	57	..	0 6	..	4.4	0	0	28	12	1	0	0	3	2	5	5	3	0
Mandla	0830	443	1018.1	966 3	−0 1	12.8	10 2	7 3	10 4	70	−15	1.1	−1.4	0·6	0	0	5	3	0	0	0	0	0	0	2	26	0
	1730	,,	1012.3	962.4	..	23.0	14.7	6.4	10.0	36	..	1.0	..	2.3	0	0	18	7	0	0	0	5	0	0	6	13	0
Champa	0830	245	1017.1	988.4	−0.3	16.3	12.6	8.9	11.6	63	−7	1.4	−0.3	4.8	0	0	24	20	0	1	1	0	0	1	1	7	0
	1730	,,	1012.6	984.9	..	25.8	17.5	10.9	13.2	40	..	1.7	..	2 8	0	0	23	10	0	2	0	1	1	8	1	8	0
Raigarh	0830	220	1016.6	990.9	−0.7	18.4	14.0	9.8	12.4	59	−6	0.8	−1.1	3.4	0	0	27	0	23	3	1	0	0	0	0	4	0
	1730	,,	1012.0	987.1	..	26.2	17.6	10 8	13.1	39	..	1.3	..	1.3	0	0	12	6	5	0	0	0	0	1	0	19	0
Raipur	0530	298	1014.7	979.9	..	15.8	12.4	9.0	11.6	65	..	1.1	..	4.5	0	0	26	7	4	2	2	2	2	1	5	5	1
	0830	,,	1017.0	982.4	−0.1	18.2	13.3	8.4	11.3	54	−8	1.3	−0.2	4.5	0	0	27	7	10	3	1	2	1	1	2	4	0
	1130	,,	1015.9	982.1	..	24.8	16.1	8.3	11.2	36	..	0.8	..	6.6	0	0	30	5	15	0	0	2	3	4	1	1	0
	1730	,,	1012.3	978.8	..	26.3	17.2	9.6	12.3	36	..	1.5	..	5.8	0	0	30	6	5	0	1	3	4	7	4	1	0
	2330	,,	1015.0	980.6	..	19.8	14.5	9.8	12.2	53	..	0.8	..	4.2	0	0	21	2	2	4	3	3	4	2	1	10	0
Kanker	0830	402	1016.8	970.7	−0.3	18.9	15.1	12.0	14.1	65	−6	1.1	−0.7	0.1	0	0	2	0	1	0	0	1	0	0	0	29	0
	1730	,,	1011.7	967.1	..	26.6	18.3	12 2	14.3	41	..	1.0	..	1.2	0	0	16	1	3	0	0	0	6	6	0	15	0
Jagdalpur	0530	553	1014 9	951.5	..	14.7	13.5	12.6	14.6	87	..	0.3	..	1.0	0	0	6	0	0	0	4	1	0	1	0	25	0
	0830	,,	1016.7	953.8	−0.3	18.0	15.1	13.0	14.8	73	−5	0.9	−1.0	2.6	0	0	15	1	1	0	3	5	1	4	0	16	0
	1130	,,	1014.0	953.0	..	26.2	17.8	12 2	14.2	42	..	0.8	..	6.6	0	0	28	3	4	4	2	6	5	2	2	3	0
	1730	,,	1011.1	950.2	..	26.1	18.2	13.0	15.1	45	..	2.3	..	3.9	0	0	18	0	2	0	0	6	7	1	2	13	0
	2330	,,	1015·0	952.4	..	18.5	15.7	13.7	15.8	74	..	0.2	..	0 8	0	0	5	0	0	1	1	1	2	0	0	26	0
Gujarat Region																											
Deesa	0830	136	1017·3	1000.8	0	11.1	7.0	0.4	6.7	51	..	0.3	..	3.0	0	0	31	0	22	2	2	0	3	0	2	0	0
	1730	,,	1014.4	998.9	..	23.5	13.3	1.1	7.0	24	..	0.5	..	2.5	0	0	31	1	4	0	2	0	6	1	17	0	0
Radhanpur	0830	30	1017.3	1013.7	..	11.4	9.1	6.6	9.7	73	..	0.4	..	6.9	0	0	29	9	2	4	2	1	0	1	10	2	0
	1730	,,	1014.6	1011.1	..	24.0	17.4	12.0	14.5	49	..	0	..	5.5	0	0	29	2	4	2	1	0	3	1	16	2	0
Idar	0830	219	1017.1	991.4	..	15.4	8.9	−2.0	6.2	39	..	1 3	..	6.1	0	0	24	8	10	1	0	0	1	0	4	7	0
	1730	,,	1013.6	988.7	..	23.5	13.6	2.6	7.6	27	..	1.2	..	2.8	0	0	24	0	1	1	2	0	2	13	5	7	0
Ahmadabad	0230	55	1015.5	1008.9	..	12.9	9.0	3.7	8.4	55	..	0.3	..	9.0	0	1	28	7	9	3	0	0	0	2	8	2	0
	0530	,,	1015.1	1008.5	..	11.3	8.0	3.6	8.1	60	..	0.5	..	8.6	0	0	27	7	10	3	0	0	0	2	5	4	0
	0830	,,	1017.1	1010.4	+0.1	12.1	8.2	2.9	7.7	54	+1	1.3	0	9.4	0	0	29	3	11	7	1	0	0	1	6	2	0
	1130	,,	1017.7	1011.2	..	22·4	13.0	1.7	7.4	27	..	0.6	..	16.8	0	11	20	1	6	14	4	1	0	0	4	0	1

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA)

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region—*Contd.* Ahmadabad—*Contd.*	1730	55	1013.9	1007.6	..	25.0	14.1	1.4	7.3	23	..	0.9	..	14.2	0	4	27	6	5	3	1	0	1	3	12	0	0
	2330	,,	1016.3	1009.7	..	15.1	10.2	4.1	8.5	49	..	0.4	..	7.9	0	0	26	8	2	2	0	0	2	0	12	5	0
Dohad	0830	333	1017.5	978.4	+0.3	13.1	8.7	2.7	7.7	50	−11	0.6	−1.0	4.2	0	0	23	2	8	7	1	4	1	0	0	8	0
	1730	,,	1012.8	975.3	..	25.0	14.0	2.1	7.1	22	..	0.3	..	8.0	0	4	22	2	6	3	1	0	4	6	4	5	0
Vallabh Vidyanagar	0830	44	1017.0	1011.6	..	10.9	8.1	4.1	8.5	67	..	0.6	..	6.4	0	0	30	8	11	2	2	1	1	2	3	1	0
	1730	,,	1013.8	1008.7	..	25.4	16.3	7.7	11.2	34	..	0.4	..	7.6	0	1	29	9	5	0	0	0	1	4	11	1	0
Baroda (Aerodrome)	0830	38	1017.0	1012.4	..	13.0	9.6	5.5	9.2	61	..	0.4	..	7.3	0	0	23	10	5	1	0	2	0	0	5	8	0
	1130	,,	1017.3	1012.9	..	23.1	14.2	5.3	9.0	33	..	0.2	..	12.9	0	4	26	6	11	1	2	2	0	0	8	1	0
	1730	,,	1013.7	1009.1	..	25.9	15.5	5.5	9.1	28	..	0.3	..	13.7	0	4	27	10	5	0	0	0	1	3	11	0	1
Baroda	0530	34	1015.0	1010.8	..	11.9	9.2	6.0	9.5	68	..	0.2	..	0.3	0	0	4	0	4	0	0	0	0	0	0	27	0
	0830	,,	1017.1	1012.9	+1.2	11.9	9.2	6.0	9.5	68	−2	0.4	−0.7	0.7	0	0	7	0	7	0	0	0	0	0	0	24	0
	1130	,,	1017.4	1013.3	..	23.8	15.3	6.7	10.5	35	..	0.5	..	1.9	0	0	19	3	9	2	0	0	3	2	0	12	0
	1730	,,	1013.7	1009.7	..	26.8	17.1	8.5	11.6	33	..	0.2	..	1.9	0	0	20	0	9	0	0	1	0	5	5	11	0
	2330	,,	1016.2	1012.0	..	16.5	11.9	7.2	10.2	55	..	0.1	..	1.0	0	4	12	2	7	0	0	0	0	1	2	19	0
Broach	0830	17	1016.0	1013.9	+0.6	11.6	8.8	5.2	9.1	66	+1	0.5	−0.6	5.0	0	0	31	5	10	1	1	2	3	0	9	0	0
	1730	,,	1012.8	1010.8	..	28.2	16.8	6.2	9.9	26	..	0.2	..	5.9	0	0	31	2	13	0	2	0	2	3	9	0	0
Surat	0530	12	1014.5	1013.1	..	14.0	11.2	8.2	11.0	69	..	0.3	..	7.2	0	0	25	14	7	2	2	0	0	0	0	6	0
	0830	,,	1016.7	1015.3	+1.1	14.7	11.6	8.6	11.2	68	+9	0.9	−0.3	6.6	0	0	28	11	7	4	2	0	0	0	4	3	0
	1130	,,	1016.9	1015.5	..	25.4	16.9	9.8	12.3	38	..	0.7	..	6.6	0	0	31	10	10	2	1	0	1	0	7	0	0
	1730	,,	1013.2	1011.8	..	26.0	18.0	12.2	14.1	43	..	0.3	..	5.2	0	0	31	0	5	0	2	0	2	0	22	0	0
	2330	,,	1015.8	1014.4	..	17.6	13.6	9.8	12.3	62	..	0.1	..	8.6	0	1	28	13	6	1	0	0	3	2	4	2	0
Saurashtra and Kutch Bhavnagar Bhimnasar(R)	0830	47																									
(R)	1730	,,																									
Naliya	0830	21	1017.9	1015.3	..	10.6	8.3	5.1	9.1	71	..	1.4	..	7.4	0	1	28	6	17	3	2	0	0	1	0	2	0
	1730	,,	1014.9	1012.4	..	23.2	15.5	7.8	11.4	39	..	1.5	..	8.8	0	0	31	5	12	0	0	1	5	2	6	0	0
Bhuj (Rudramata)	0230	80	1016.6	1006.9	..	12.9	10.3	7.3	10.4	69	..	0.6	..	3.4	0	0	9	3	1	0	0	0	3	0	2	22	0
	0530	,,	1016.2	1006.5	..	11.1	9.2	6.7	10.1	75	..	0.7	..	1.9	0	0	7	2	0	0	0	0	2	1	2	24	0
	0830	,,	1018.0	1008.3	+1.1	11.1	9.1	6.3	9.9	74	+39	1.3	0	0.8	0	0	3	1	0	0	0	0	0	2	0	28	0
	1130	,,	1018.7	1009.2	..	19.9	14.3	8.7	11.8	52	..	1.2	..	10.8	0	0	27	7	14	2	0	0	2	1	1	4	0
	1730	,,	1015.0	1005.7	..	23.2	16.3	10.5	12.9	46	..	1.7	..	13.2	0	4	25	9	13	1	1	0	1	0	4	2	0
	2330	,,	1017.3	1007.7	..	15.0	11.8	8.3	11.2	66	..	0.5	..	4.8	0	1	13	8	1	0	0	0	3	1	1	17	0
Kandla Aerodrome	0830	35	1018.1	1013.9	..	13.4	8.8	1.8	7.6	49	..	1.0	..	14.9	0	7	23	9	0	0	0	0	1	2	18	1	0
	1130	,,	1018.8	1014.7	..	21.3	12.5	0.8	7.4	29	..	0.7	..	18.2	0	10	21	13	9	2	1	0	1	1	4	0	0
	1730	,,	1015.1	1011.1	..	24.0	13.6	0.3	7.2	24	..	0.7	..	18.7	0	15	15	14	1	3	0	2	3	1	6	1	0
New Kandla	0830	14	1018.2	1016.5	..	14.1	9.7	3.7	8.5	51	..	1.5	..	12.3	0	0	31	20	3	0	1	0	0	0	7	0	0
	1730	,,	1015.5	1013.8	..	22.3	14.6	6.9	10.4	38	..	1.9	..	16.8	0	2	28	11	9	1	0	2	3	3	1	1	0
Mandvi	0830	9	1017.9	1016.7	+0.8	14.0	10.9	7.4	10.5	65	0	1.7	+0.3	(b) 14.6	0	3	26	1	25	0	1	0	0	0	2	0	0
	1730	,,	1015.3	1014.2	..	22.1	17.8	14.3	16.9	65	..	1.9	..	(a) 19.3	0	13	17	3	6	1	0	2	8	5	1	0	4
Surendranagar	0830	74	1017.5	1008.5	+1.1	14.2	9.6	3.5	8.2	51	−5	1.0	−0.3	5.8	0	0	29	13	3	0	0	1	0	2	10	2	0
	1730	,,	1014.0	1005.4	..	25.2	15.3	5.4	9.4	29	..	0.9	..	8.9	0	1	30	9	1	2	1	0	0	6	12	0	0
Okha	0530	7	1016.1	1015.3	..	19.1	15.9	13.2	15.5	71	..	(a) 0.2	..	(a) 25.3	0	25	5	21	5	1	0	0	0	0	3	0	0
	0830	,,	1017.8	1017.0	..	18.9	15.4	12.4	14.7	68	..	1.2	..	22.1	0	23	8	13	13	3	0	0	0	0	2	0	0
	1130	,,	1019.0	1018.2	..	20.6	16.0	11.9	14.5	59	..	1.0	..	19.5	0	17	14	9	14	6	0	0	0	0	2	0	0
	1730	,,	1015.5	1014.7	..	21.3	17.0	13.3	15.9	63	..	1.2	..	15.9	0	13	17	4	2	1	0	0	0	1	22	1	0
	2330	,,	1017.4	1016.6	..	20.1	16.6	13.6	16.1	68	..	0.2	..	20.8	0	17	14	13	5	1	0	0	1	1	10	0	0
Jamnagar (Aerodrome)	0530	23	1015.8	1013.0	..	11.9	8.9	5.2	9.0	65	..	0.6	..	7.1	0	1	22	1	7	4	3	3	1	1	3	8	0
	0830	,,	1017.7	1015.0	+0.8	12.8	9.5	5.5	9.3	62	+2	1.2	−0.2	5.4	0	0	25	2	8	5	2	3	1	0	2	6	2
	1130	,,	1018.5	1015.9	..	20.4	13.3	5.5	9.5	40	..	0.7	..	13.4	0	7	24	8	17	2	0	1	0	0	3	0	0
	1730	,,	1014.8	1012.2	..	22.5	13.6	3.2	8.4	31	..	1.2	..	16.3	0	9	22	7	13	0	0	0	0	5	6	0	0
	2330	,,	1017.1	1014.4	..	16.2	12.4	8.5	11.3	62	..	0.5	..	6.5	0	0	22	4	6	0	2	0	2	7	1	9	0
Dwarka	0830	11	1017.5	1016.2	+0.9	16.2	13.3	10.6	12.9	70	+3	1.1	−0.5	9.8	0	2	26	15	8	3	0	0	0	1	1	3	0
	1730	,,	1014.9	1013.6	..	22.0	16.3	11.4	13.9	53	..	1.4	..	15.7	0	6	25	14	3	0	0	0	0	7	7	0	0
Rajkot	0530	138	1015.7	999.2	..	11.2	8.2	4.1	8.5	63	..	0.2	..	6.8	0	4	18	8	3	1	2	1	1	1	5	9	0
	0830	,,	1017.5	1001.1	+0.7	12.5	8.5	2.9	7.9	54	−3	0.3	−0.8	4.3	0	2	15	5	6	1	1	0	1	0	3	14	0
	1130	,,	1017.5	1001.7	..	22.2	15.4	9.2	12.0	47	..	0.5	..	19.2	0	15	15	14	11	1	1	0	1	0	2	1	0
	1730	,,	1013.9	998.2	..	24.8	17.1	9.7	13.2	40	..	0.4	..	20.8	0	20	11	15	4	1	1	0	0	0	10	0	0
Bhavnagar Aerodrome	0830	11	1017.2	1015.9	+0.9	13.8	9.1	2.8	7.8	49	+8	0.4	−1.0	11.4	0	6	21	6	0	0	0	0	0	5	15	4	1
	1130	,,	1017.5	1016.3	..	21.6	14.4	7.4	10.6	41	..	0.3	..	17.0	0	9	22	15	11	2	1	1	0	0	1	0	0
	1730	,,	1018.7	1012.5	..	25.2	16.1	7.5	10.9	34	..	0.4	..	18.9	0	14	17	6	15	5	1	2	1	0	1	0	0

(R) Register not received. (a)—Mean of 30 days. (b) Mean of 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (k.m. p.h.): 62 or more	Wind speed (k.m. p.h.): 20 to 61	Wind speed (k.m. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra & Kutch —(*contd.*)																											
Porbander Aerodrome	0830	7	1017·4	1016·6	+1·6	14·0	10·3	5·8	9·5	60	—7	1·1	0	5·0	0	1	20	8	1	4	3	0	1	0	4	10	0
	1130	,,	1018·1	1017·3	..	23·7	14·5	4·2	9·1	32	..	1·0	..	14·5	0	8	22	7	9	3	1	0	1	1	8	1	0
	1730	,,	1014·4	1013·6	..	24·7	15·3	5·6	9·8	33	..	0·6	..	22·2	0	21	10	12	2	0	0	0	4	9	4	0	0
Keshod . . .	0830	51	1017·5	1011·3	..	12·8	8·2	0·8	7·2	47	..	0·1	..	10·0	0	10	21	5	14	10	1	0	0	0	0	0	1
	1130	,,	1018·0	1012·0	..	22·6	13·2	0·6	7·6	28	..	0·3	..	18·0	0	11	20	10	16	2	0	0	0	1	1	0	1
	1730	,,	1013·9	1008·0	..	26·9	14·7	—0·8	6·9	19	..	0·3	..	21·9	0	22	9	11	5	1	0	1	2	5	6	0	0
Mahuva	0830	9	1015·5	1014·5	..	14·7	9·7	3·1	8·0	47	..	1·9	..	2·6	0	0	23	13	4	0	0	0	0	0	6	8	0
	1730	,,	1012·7	1011·7	..	25·7	16·1	5·5	10·5	33	..	1·2	..	3·7	0	0	29	5	4	3	7	3	3	0	4	2	0
Veraval . . .	0230	8	1015·2	1014·3	..	14·9	9·7	2·1	7·9	46	..	0·4	..	12·3	0	6	25	18	12	0	0	0	0	0	1	0	0
	0530	,,	1014·8	1013·9	..	14·0	9·0	1·3	7·5	46	..	0·5	..	15·2	0	5	26	20	11	0	0	0	0	0	0	0	0
	0830	,,	1016·7	1015·8	+0·8	15·1	9·5	1·2	7·4	43	—7	1·0	—0·1	13·7	0	6	25	12	16	2	0	0	0	0	1	0	0
	1130	,,	1017·3	1016·4	..	24·5	14·1	0·7	7·7	25	..	0·3	..	18·6	0	15	16	11	12	0	1	2	1	1	3	0	0
	1730	,,	1013·7	1012·8	..	24·5	17·0	8·9	13·3	46	..	0·6	..	26·1	0	25	6	6	2	0	1	1	0	9	12	0	[illegible]
	2330	,,	1016·2	1015·3	..	16·9	11·1	3·3	8·5	44	..	0·4	..	15·6	0	10	21	15	10	1	0	0	0	0	5	0	[illegible]
Konkan																											
Dahanu . . .	0830	5	1015·2	1014·7	+0·9	17·1	12·6	7·8	10·9	57	—14	1·2	—0·3	7·7	0	1	29	4	14	8	3	0	0	0	1	1	[illegible]
	1730	,,	1012·7	1012·2	..	23·8	18·8	15·3	17·6	60	..	0·5	..	20·5	0	17	14	26	0	0	0	0	0	0	5	0	[illegible]
Bombay (Santacruz)	0230	15	1013·5	1011·8	..	17·3	14·1	11·2	13·6	69	..	0·2	..	4·2	0	0	22	8	9	5	0	0	0	0	0	9	[illegible]
	0530	,,	1013·3	1011·6	..	16·2	13·2	10·3	12·8	70	..	0·2	..	5·1	0	0	22	9	6	6	0	0	0	0	1	0	[illegible]
	0830	,,	1015·3	1013·6	+0·3	18·7	14·1	9·9	12·5	58	—7	0·8	—0·5	4·1	0	0	24	3	8	10	1	0	0	0	2	7	[illegible]
	1130	,,	1015·6	1013·9	..	26·6	17·1	8·8	11·9	34	..	1·0	..	9·0	0	0	30	7	5	2	2	2	0	4	8	1	[illegible]
	1730	,,	1012·5	1010·8	..	25·0	18·3	13·4	15·6	49	..	0·8	..	16·5	0	10	21	10	1	0	0	0	1	0	19	0	[illegible]
	2330	,,	1014·7	1013·0	..	19·1	15·4	12·3	14·5	66	..	0·1	..	7·6	0	1	24	16	8	0	0	0	0	0	1	6	[illegible]
Bombay . . .	0830	11	1015·3	1014·0	+0·3	19·7	16·0	12·9	15·2	66	—4	1·2	—0·1	4·0	0	0	30	14	8	5	2	0	0	0	1	1	[illegible]
	1130	,,	1015·7	1014·5	..	25·3	18·3	13·2	15·3	48	..	1·0	..	4·5	0	0	28	5	4	7	3	1	0	1	7	3	[illegible]
	1730	,,	1012·4	1011·2	..	24·6	19·5	16·1	18·5	59	..	0·9	..	12·0	0	8	23	10	0	0	1	0	0	2	18	0	[illegible]
Alibag . . .	0830	7	1015·1	1014·3	+0·4	18·9	15·2	12·0	14·3	65	0	0·4	—1·1	5·0	0	0	30	14	8	3	1	0	0	0	4	1	[illegible]
Bhira . . .	0830	96	1014·8	1003·5	..	16·5	13·8	11·2	13·6	77	..	0·5	..	1·2	0	0	8	0	5	1	1	0	0	0	1	23	[illegible]
	1730	,,	1010·2	999·4	..	30·3	19·9	12·7	14·8	35	..	0·5	..	2·9	0	0	29	0	0	2	4	7	11	5	0	2	[illegible]
Harnai . . .	0830	20	1014·4	1012·0	+0·7	22·3	16·9	12·8	14·9	56	—6	1·1	—0·3	7·4	0	4	18	10	1	8	0	3	0	0	0	0	[illegible]
	1730	,,	1011·8	1009·5	..	25·0	20·9	18·4	21·3	67	..	1·4	..	32·9	0	27	3	6	0	0	0	0	0	1	23	1	[illegible]
Ratnagiri . .	0830	55	1014·5	1010·3	+0·2	19·9	16·8	14·5	16·6	72	..	0·6	..	6·6	0	1	30	0	4	16	11	0	0	0	0	0	[illegible]
	1730	,,	1011·4	1007·2	..	26·9	21·2	17·8	20·5	58	..	1·0	..	9·2	0	0	31	10	0	0	0	0	2	3	16	0	[illegible]
Devgarh . . .	0830	56	1014·2	1010·1	+0·5	21·4	18·5	16·6	19·0	75	+4	0·8	—1·0	8·4	0	0	31	0	5	26	0	0	0	0	0	0	[illegible]
	1730	,,	1011·1	1007·1	..	27·4	22·3	20·4	24·0	67	..	0·9	..	25·3	0	19	12	1	0	1	0	0	0	2	27	0	[illegible]
Vengurla . .	0230	9	1012·6	1011·6	..	19·4	17·9	17·0	19·3	86	..	0·2	..	1·3	0	0	6	6	0	0	0	0	0	0	0	25	[illegible]
	0530	,,	1012·3	1011·3	..	18·3	16·9	15·9	18·1	86	..	0	..	2·2	0	0	14	13	0	1	0	0	0	0	0	17	[illegible]
	0830	,,	1014·7	1013·7	+0·8	19·5	17·3	15·7	17·9	80	+6	0·4	—0·9	3·1	0	1	15	11	4	0	0	0	0	1	0	15	[illegible]
	1130	,,	1014·8	1013·8	..	28·7	20·8	15·7	18·1	46	..	0·5	..	5·5	0	2	21	5	1	4	1	1	4	6	1	8	[illegible]
	1730	,,	1011·3	1010·3	..	28·2	22·1	18·5	21·6	57	..	0·5	..	6·5	0	1	30	1	1	0	0	0	3	21	5	0	[illegible]
	2330	,,	1013·9	1012·9	..	21·2	19·2	17·9	20·6	82	..	0·3	..	2·5	0	0	11	9	1	0	0	0	0	0	1	20	[illegible]
Panjim . . .	0830	57	1014·3	1007·8	..	20·2	18·2	17·1	19·3	82	..	0·7	..	7·0	0	0	26	0	2	20	3	1	0	0	0	5	[illegible]
	1130	,,	1014·0	1007·7	..	28·0	20·6	16·6	18·2	49	..	0·9	..	5·3	0	0	24	4	5	4	2	2	0	3	4	7	[illegible]
	1730	,,	1010·7	1004·3	..	27·6	21·4	18·4	20·4	56	..	0·9	..	12·5	0	3	28	8	0	0	0	1	0	5	17	0	[illegible]
Mormugao . .	0530	62	1012·1	1005·0	..	21·7	19·3	17·8	20·5	79	..	0·5	..	9·8	0	1	29	5	10	14	1	0	0	0	0	1	[illegible]
	0830	,,	1014·2	1007·1	..	22·9	19·7	17·7	20·4	74	..	0·9	..	8·9	0	1	30	2	13	14	2	0	0	0	0	0	[illegible]
	1130	,,	1014·4	1007·4	..	26·7	20·8	17·1	19·7	56	..	1·1	..	8·5	0	1	30	5	6	4	2	0	2	5	7	0	[illegible]
	1730	,,	1011·0	1004·1	..	27·3	22·3	19·6	22·8	63	..	0·9	..	16·5	0	9	22	2	0	0	0	0	2	9	18	0	[illegible]
Madhya Maharastra																											
Nandurbar	0830	206	1016·6	992·5	..	17·3	12·8	8·2	11·2	57	..	0·1	..	3·3	0	0	30	2	0	19	0	1	0	5	0	1	[illegible]
	1730	,,	1012·3	988·8	..	27·0	18·9	13·1	15·3	43	..	0	..	2·7	0	0	28	4	0	8	0	0	0	15	1	3	[illegible]
Jalgaon . . .	0830	201	1017·0	993·0	+0·7	12·7	9·0	4·4	8·5	58	—1	0·6	—1·0	6·3	0	0	25	2	2	6	8	1	3	3	0	6	[illegible]
	1730	,,	1011·7	989·1	..	28·7	16·5	4·8	8·9	23	..	0·5	..	10·8	0	3	26	4	2	4	1	0	0	7	11	2	[illegible]
Malegaon . .	0830	437	1017·7	966·5	+0·3	12·6	8·3	2·8	7·5	53	+1	0·8	—0·6	4·3	0	0	28	2	1	0	0	0	1	13	11	3	[illegible]
	1730	,,	1010·9	962·6	..	28·2	16·1	4·6	8·5	23	..	0·7	..	8·1	0	0	30	3	8	6	2	1	4	3	3	1	[illegible]
Deolali (Aerodrome)	0830	571	1018·4	951·9	..	12·0	9·2	6·4	9·6	69	..	1·3	..	2·8	0	0	17	13	2	0	0	1	1	0	0	14	[illegible]
	1730	,,	1011·6	948·8	..	27·1	15·7	5·9	9·5	27	..	0·8	..	14·2	0	4	25	6	2	4	0	0	5	6	6	2	[illegible]

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from ormal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —*Contd*																												
Ahmadnagar	0830	657	1016.9	941.9	0	15.7	10.3	4.8	8.7	49	+2	1.2	−0.1	3.3	0	0	24	1	0	0	1	1	2	0	19	7	0
	1730	,,	1009.3	938.2	..	29.4	16.4	5.8	9.2	23	..	1.2	..	8.0	0	0	29	2	9	0	2	1	7	2	6	2	0
Poona (Aerodrome)	0230	593	1014.9	947.0	..	15.7	11.4	7.2	10.4	59	..	0.2	..	4.6	0	2	13	0	1	1	1	0	0	11	1	16	0
	0530	,,	1015.1	946.7	..	13.5	10.3	7.0	10.2	66	..	0.3	..	4.0	0	0	18	1	0	2	0	0	0	14	1	13	0
	0830	,,	1016.6	948.6	..	15.5	11.5	7.8	10.7	62	..	0.9	..	2.8	0	1	11	0	2	2	0	0	0	8	0	19	0
	1130	,,	1014.5	948.8	..	25.3	15.1	6.1	9.7	30	..	0.9	..	9.7	0	1	23	2	3	14	1	0	1	3	0	7	0
	1730	,,	1009.9	945.1	..	28.1	16.1	6.1	9.5	25	..	1.3	..	20.3	0	18	11	0	1	4	2	0	3	15	4	2	0
	2330	,,	1015.0	947.6	..	17.8	12.2	6.8	10.1	50	..	0.5	..	9.3	0	2	22	0	1	3	0	0	0	17	3	7	0
Poona	0530	559	1015.7	950.5	..	10.8	8.4	5.9	9.3	72	..	0.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1017.3	952.7	+0.3	14.0	10.9	8.0	10.8	68	+4	0.7	−0.7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1014.4	952.4	..	25.4	15.7	7.9	10.8	34	..	0.9	..	2.3	0	0	13	2	2	5	2	0	0	1	1	18	0
	1730	,,	1010.0	948.8	..	28.2	16.5	7.1	10.2	27	..	1.3	..	5.7	0	0	26	1	1	4	0	0	1	15	4	5	0
	2330	,,	1015.5	951.5	..	15.9	11.4	7.2	10.2	57	..	0.2	..	0.2	0	0	2	0	1	0	0	0	0	1	0	29	0
Jeur	0830	521	1016.2	956.3	0	16.0	10.7	5.3	9.0	50	−5	0.9	−0.5	0.9	0	0	12	4	4	1	0	2	0	1	0	19	0
	1730	,,	1009.3	952.5	..	30.0	16.9	6.6	9.7	23	..	1.2	..	6.0	0	0	28	0	3	3	2	6	7	5	2	3	0
Baramati	0830	551	1016.5	953.3	−0.1	15.3	10.9	6.6	9.8	57	−5	0.4	−0.7	2.3	0	0	24	3	6	2	5	0	0	3	5	7	0
	1730	,,	1009.5	949.5	..	29.6	17.6	8.7	11.4	28	..	0.8	..	7.8	0	0	28	2	1	4	3	3	9	4	2	6	0
Sholapur	0530	479	1013.8	959.1	..	17.6	12.6	8.3	10.9	55	..	0.4	..	6.6	0	0	25	5	10	3	4	1	0	0	2	6	0
	0830	,,	1015.9	961.0	0	19.9	14.1	9.4	11.9	51	+3	0.5	−0.8	4.1	0	0	28	1	8	7	8	3	1	0	0	3	0
	1130	,,	1014.4	961.4	..	27.5	18.4	12.3	14.5	40	..	0.6	..	11.6	0	2	29	1	3	4	11	7	3	2	0	0	0
	1730	,,	1009.8	957.5	..	30.8	19.4	12.0	14.2	32	..	0.7	..	7.7	0	0	31	0	5	1	18	1	5	1	0	0	0
	2330	,,	1013.6	959.7	..	22.6	15.1	9.2	11.7	44	..	0.4	..	8.3	0	0	29	2	6	5	11	1	2	1	1	2	0
Mirai	0830	554	1016.5	953.2	0	16.4	12.3	8.7	11.3	61	+2	0.8	−0.9	..	0	0	4	0	0	3	0	0	0	1	0	27	0
	1730	,,	1009.3	949.2	..	30.5	18.4	9.8	12.3	29	..	1.1	..	..	0	0	13	0	0	5	0	0	1	4	3	18	0
Kolhapur	0530	570	1015.8	948.6	..	15.1	12.4	9.9	12.4	73	..	0.1	..	3.7	0	0	23	0	2	6	1	3	9	2	0	8	0
	0830	,,	1015.8	951.0	0	18.0	13.8	10.4	12.7	62	0	0.6	−0.6	3.2	0	0	19	0	3	9	0	2	2	2	1	12	0
	1130	,,	1013.6	950.9	..	27.0	16.9	9.3	11.9	34	..	0.6	..	10.8	0	4	24	1	6	15	1	3	0	2	0	3	0
	1730	,,	1009.1	947.1	..	29.1	17.6	9.1	11.7	29	..	0.7	..	11.7	0	1	29	1	3	6	3	1	3	12	1	1	0
	2330	,,	1014.0	949.8	..	19.5	15.2	11.9	14.1	62	..	0.5	..	8.9	0	0	29	1	1	3	0	1	6	17	0	2	0
Marathwada																												
Aurangabad	0830	581	1016.5	950.5	−0.1	17.9	11.5	5.0	8.9	42	−5	1.1	−0.5	0.8	0	0	8	0	2	4	0	0	0	0	2	23	0
	1730	,,	1010.6	947.1	..	28.1	15.5	4.4	8.4	22	..	0.9	..	3.8	0	0	23	3	1	1	1	2	3	11	1	8	0
Aurangabad (Chikalthan)	0230	579	1015.2	948.3	..	12.9	9.0	4.7	8.7	58	..	0	..	2.1	0	0	6	0	0	0	0	0	0	3	3	25	0
	0530	,,	1015.7	948.3	..	10.5	7.4	3.7	8.1	63	..	0	..	1.4	0	0	5	0	0	0	0	0	0	5	0	26	0
	0830	,,	1016.4	950.3	..	16.9	11.7	6.8	9.9	52	..	0.5	..	2.1	0	0	6	1	0	1	1	0	0	2	1	25	0
	1130	,,	1014.5	950.4	..	25.8	17.2	11.0	13.4	40	..	0.5	..	11.5	0	1	29	1	0	6	12	4	2	2	3	1	0
	1730	,,	1010.2	946.8	..	27.9	18.0	11.1	13.4	36	..	0.8	..	9.9	0	2	24	1	3	1	2	1	2	12	4	5	0
	2330	,,	1015.7	949.2	..	15.0	10.4	5.7	9.3	55	..	0	..	3.3	0	0	11	3	1	0	0	0	0	3	4	20	0
Parbhani	0830	423	1017.0	968.1	+0.9	16.7	11.2	5.3	8.9	47	−9	0.5	−1.1	3.5	0	0	24	2	3	2	0	0	2	9	6	7	0
	1730	,,	1010.9	964.2	..	28.9	17.2	6.9	10.1	25	..	1.0	..	4.2	0	0	27	4	8	2	1	1	2	4	5	4	0
Nanded	0830	358	1016.7	975.3	..	18.6	13.7	9.3	11.7	55	..	0.3	..	1.9	0	0	11	0	2	0	1	0	4	3	1	20	0
	1730	,,	1011.1	971.5	..	29.7	19.5	12.3	14.3	35	..	0.5	..	4.1	0	0	23	0	5	0	1	0	9	1	7	8	0
Bir	0830	519	1017.0	957.6	..	17.5	13.9	11.1	13.2	67	..	0.4	..	1.3	0	0	11	0	0	0	5	4	1	0	1	20	0
	1730	,,	1011.2	954.2	..	27.7	19.0	13.8	15.7	43	..	0.3	..	4.7	0	0	25	3	10	0	1	2	5	0	4	6	0
Vidarbha																												
Gondia	0830	313	1017.3	980.8	0	16.4	12.3	8.1	10.9	59	−12	1.5	−0.2	2.8	0	0	25	13	4	2	2	0	2	0	2	6	0
	1730	,,	1012.1	977.1	..	26.5	17.1	9.0	11.8	34	..	1.7	..	3.4	0	0	26	8	1	2	0	3	5	6	1	5	0
Nagpur (Sonegaon)	0230	310	1014.5	978.3	..	15.4	11.4	7.0	10.3	59	..	0.8	..	4.4	0	0	27	14	6	0	0	1	1	0	5	4	0
	0530	,,	1014.7	978.3	..	13.9	10.4	6.4	9.8	62	..	0.5	..	4.3	0	0	28	12	4	3	0	0	0	0	9	3	0
	0830	,,	1016.9	980.8	−0.3	16.9	11.8	6.2	9.7	51	−12	1.1	−0.2	5.3	0	0	28	11	5	4	2	0	1	0	5	3	0
	1130	,,	1015.5	980.4	..	25.1	15.7	6.7	10.3	32	..	0.9	..	7.4	0	1	29	1	10	9	1	2	5	0	2	1	0
	1730	,,	1011.3	976.7	..	27.3	16.6	7.0	10.2	28	..	1.6	..	7.7	0	0	31	2	6	6	2	6	4	4	1	0	0
	2330	,,	1014.9	979.1	..	18.2	12.9	7.6	10.6	51	..	0.8	..	7.0	0	0	29	13	7	2	1	0	0	2	4	2	0
Amraoti	0830	370	1016.5	974.0	0	18.7	11.6	3.3	8.0	37	−12	1.0	−0.7	3.2	0	0	26	1	15	3	0	2	5	0	0	5	0
	1730	,,	1010.9	970.0	..	28.3	16.1	4.2	8.4	22	..	1.1	..	4.9	0	0	31	3	1	1	4	2	5	10	5	0	0
Akola Aerodrome	0530	309	1014.0	977.8	..	14.4	9.3	3.0	7.6	47	..	0.1	..	7.8	0	0	29	2	6	1	4	2	6	7	1	2	0
	0830	,,	1016.0	980.0	..	16.9	10.7	3.3	7.9	41	..	0.6	..	6.5	0	0	29	2	8	1	3	1	5	6	3	2	0
	1130	,,	1015.2	980.3	..	24.8	15.0	4.9	9.1	28	..	1.1	..	9.5	0	0	31	3	8	4	1	1	7	1	6	0	0
	1730	,,	1010.5	976.1	..	28.8	16.5	4.3	8.8	22	..	1.2	..	8.1	0	0	31	1	4	3	1	0	3	5	14	0	0
	2330	,,	1014.0	978.5	..	19.6	12.1	3.7	8.1	36	..	0.5	..	7.2	0	0	30	3	2	2	4	3	3	7	6	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of Observations. Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*contd.*)																											
Akola	0830	282	1016·6	983·7	−0·1	16·0	10·9	5·3	8·9	50	−4	0·6	−1·1	0·1	0	0	2	0	1	1	0	0	0	0	0	29	0
	1730	,,	1010·7	979·4	..	29·1	17·5	7·7	10·6	26	..	0·8	..	1·4	0	0	16	0	3	0	0	0	2	4	7	15	0
Bramhapuri	0830	229	1016·8	990·1	..	17·7	14·1	10·7	13·2	65	..	1·8	..	2·6	0	0	23	6	5	3	2	2	3	0	2	8	0
	1730	,,	1012·0	986·3	..	27·6	18·5	11·7	13·9	38	..	1·3	..	2·0	0	0	24	3	2	0	6	7	3	1	2	7	0
Buldana	0830	650	1016·4	942·6	+0·5	17·3	11·2	5·0	8·9	45	−10	0·5	−1·3	4·3	0	0	26	4	4	0	4	1	2	0	11	5	0
	1730	,,	1011·0	939·7	..	26·3	15·3	5·6	9·3	28	..	0·5	..	7·8	0	2	25	11	4	1	0	1	2	0	8	4	0
Yeotmal	0830	451	1015·8	964·4	−0·2	19·5	12·6	5·0	9·0	40	−14	0·8	−1·3	7·2	0	1	30	4	3	12	1	3	1	6	1	0	0
	1730	,,	1010·8	960·9	..	27·7	16·7	6·5	10·1	27	..	2·0	..	6·1	0	0	30	6	3	3	0	5	3	8	2	1	0
Chanda	0830	193	1016·2	993·6	−0·7	17·4	14·5	11·9	14·2	71	+3	1·3	−0·3	4·1	0	0	23	4	6	5	2	0	1	2	3	8	0
	1730	,,	1011·3	989·7	..	28·8	19·2	12·3	14·5	37	..	1·5	..	5·0	0	0	28	2	9	8	3	2	0	1	3	3	0
Pusad	0830	334	1017·1	978·4	..	17·3	13·1	8·9	10·9	59	..	1·1	..	2·8	0	0	28	0	6	0	3	0	2	0	17	3	0
	1730	,,	1011·5	974·5	..	29·6	20·6	14·7	16·9	42	..	1·9	..	5·9	0	0	28	0	6	3	4	2	7	2	4	3	0
Sironcha	0830	123	1016·9	1002·7	+0·1	20·7	17·5	15·2	17·4	71	−4	1·0	−0·6	3·2	0	0	29	4	2	14	7	0	1	1	0	2	0
	1730	,,	1012·0	998·1	..	29·8	20·5	14·4	16·5	39	..	1·1	..	3·5	0	0	26	1	2	8	9	0	3	2	1	5	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1016·5	1015·7	−0·4	22·5	21·2	20·4	24·1	89	+9	0·2	−1·7	4·8	0	0	31	7	0	0	1	1	1	2	19	0	0
	1730	,,	1013·1	1012·4	..	25·7	23·6	22·7	27·3	84	..	0·3	..	9·4	0	0	31	3	1	0	5	10	8	0	4	0	0
Vishakhapatnam	0230	3	1014·1	1013·7	..	20·6	18·4	18·7	22·0	89	..	1·3	..	0·4	0	0	2	0	0	0	0	1	0	0	1	29	0
	0530	,,	1014·3	1013·9	..	19·4	18·3	17·7	20·1	90	..	0·8	..	0·4	0	0	2	0	0	0	0	0	1	0	1	29	0
	0830	,,	1016·7	1016·3	+0·2	23·0	20·6	19·2	22·2	79	+4	1·5	−1·1	0·6	0	0	3	0	1	0	0	0	0	1	0	28	1
	1130	,,	1016·0	1015·6	..	28·0	21·7	18·0	20·8	55	..	2·4	..	7·9	0	2	21	0	1	6	5	3	4	1	1	8	2
	1730	,,	1013·3	1012·9	..	25·6	21·3	18·9	21·8	67	..	0·7	..	11·2	0	0	31	0	0	4	10	6	11	0	0	0	0
	2330	,,	1015·4	1015·0	..	22·5	20·3	19·3	22·1	85	..	1·8	..	0·6	0	0	2	0	1	0	0	0	1	0	0	29	0
Kakinada	0830	8	1016·6	1015·7	+0·2	22·8	20·5	19·2	22·2	80	+5	1·3	−1·4	5·1	0	0	29	0	21	0	0	0	0	1	7	2	0
	1730	,,	1013·0	1012·1	..	26·2	21·7	19·3	22·4	66	..	0·5	..	6·8	0	0	31	0	0	0	31	0	0	0	0	0	0
Nidadavole	0830	12	1016·5	1015·0	..	21·6	20·1	19·2	22·4	87	..	3·1	..	5·7	0	0	29	8	15	1	0	0	0	2	3	2	0
	1730	,,	1012·3	1010·9	..	27·8	22·1	18·9	22·0	59	..	3·5	..	5·7	0	0	25	0	2	9	7	2	2	2	1	6	0
Rentachintala	0830	106	1016·0	1003·8	..	22·3	19·1	16·9	19·5	73	+4	0·6	−3·0	1·0	0	0	13	0	0	4	2	7	0	0	0	18	0
	1730	,,	1011·2	999·7	..	30·4	20·4	13·7	15·6	37	..	0·9	..	1·9	0	0	28	0	2	16	6	4	0	0	0	3	0
Gannavaram	0230	24	1013·9	1011·0	..	19·9	19·3	18·9	21·8	94	..	0	..	2·7	0	0	18	7	3	3	0	0	0	0	5	13	0
	0530	,,	1014·1	1011·3	..	19·3	18·8	18·6	21·3	95	..	0·3	..	3·1	0	0	20	7	7	4	2	0	0	0	0	11	0
	0830	,,	1016·5	1013·7	+0·5	22·2	20·7	19·9	23·2	87	+11	1·5	−0·2	5·1	0	0	22	1	5	13	3	0	0	0	0	9	0
	1130	,,	1016·0	1013·2	..	27·5	22·2	19·3	21·8	61	..	3·1	..	10·8	0	2	28	0	0	12	10	7	1	0	0	1	0
	1730	,,	1012·6	1009·9	..	27·7	21·7	18·2	21·0	57	..	0·9	..	12·5	0	2	29	0	0	3	18	10	0	0	0	0	0
	2330	,,	1015·3	1012·5	..	20·9	19·8	19·1	22·1	89	..	3·3	..	8·9	0	0	18	4	1	4	1	1	0	2	5	13	0
Nagarjunkonda (R)	0830	126																									
(R)	1730	,,																									
Masulipatam	0830	3	1016·4	1016·0	0	21·7	20·5	19·9	23·2	89	+6	2·1	+0·2	0·5	0	0	8	7	1	0	0	0	0	0	0	23	0
	1730	,,	1013·0	1012·6	..	26·1	21·6	19·1	22·1	65	..	1·2	..	3·5	0	0	31	0	0	11	19	0	1	0	0	0	0
Ongole	0830	12	1016·0	1014·7	..	22·5	21·6	21·2	25·5	92	..	(a) 1·4	..	(a) 1·1	0	0	17	1	4	1	1	0	2	2	6	13	0
	1730	,,	1012·6	1011·3	..	27·2	25·4	24·6	30·9	86	..	1·7	..	2·3	0	0	29	0	2	9	18	0	0	0	0	2	0
Nellore	0530	20	1013·6	1011·3	..	19·3	18·7	18·2	21·0	93	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1016·1	1013·7	0	22·1	20·2	19·1	22·2	84	0	2·3	−1·1	0·5	0	0	7	0	2	0	0	0	0	0	5	24	0
	1130	,,	1015·7	1013·4	..	28·2	21·9	18·3	21·1	55	..	2·7	..	1·3	0	0	30	0	21	8	1	0	0	0	0	1	0
	1730	,,	1012·4	1010·2	..	27·0	21·4	18·3	20·9	59	..	2·7	..	2·6	0	0	31	0	27	0	4	0	0	0	0	0	0
	2330	,,	1014·9	1012·6	..	21·3	20·1	19·5	22·4	90	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Telangana																											
Ramagundam	0830	156	1015·8	997·7	−0·7	20·5	17·2	14·5	16·9	72	+6	0·7	−1·2	3·2	0	0	17	3	2	2	5	3	2	0	0	14	0
	1730	,,	1011·3	993·8	..	30·7	20·6	13·7	16·1	37	..	1·2	..	3·7	0	0	29	1	5	6	10	5	1	1	0	2	0
Nizamabad	0830	381	1016·1	972·3	−0·1	18·9	15·7	12·9	14·9	66	+3	0·4	−1·0	0·2	0	0	3	0	0	1	0	1	0	1	0	28	0
	1730	,,	1010·9	968·9	..	29·7	19·0	10·4	12·6	31	..	0·9	..	0·8	0	0	13	0	7	0	1	0	0	1	4	18	0
Hanamkonda	0830	269	1016·0	985·2	−0·6	20·8	18·4	16·9	19·3	78	+5	0·7	−1·9	1·9	0	0	28	1	0	2	5	20	0	0	0	3	0
	1730	,,	1012·1	982·3	..	29·3	19·5	12·6	14·7	36	..	0·9	..	2·0	0	0	31	4	2	5	14	6	0	0	0	0	0
Hakimpet (Aerodrome)	0530	613	1014·0	944·6	..	17·7	..	..	..	..	..	0·6	..	12·0	0	0	29	0	1	4	18	5	1	0	0	2	0
	0830	,,	1015·0	946·3	..	20·8	..	..	..	..	..	1·0	..	11·8	0	1	28	1	2	2	13	8	2	1	0	2	0
	1130	,,	1013·8	946·4	..	26·6	..	..	..	..	..	1·0	..	15·9	0	4	27	0	0	3	12	10	5	1	0	0	0
	1730	,,	1010·7	943·7	..	27·3	..	..	..	..	..	1·5	..	13·1	0	2	27	1	1	3	21	1	1	0	1	2	0

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE		SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*(contd.)*																											
Bhadrachalam	0830	111	1016.4	1003.5	−0.3	20.7	18.8	17.6	20.2	82	+5	4.1	+1.8	2.8	0	0	29	0	9	3	6	1	8	0	2	2	0
	1730	,,	1011.9	999.1	..	28.4	20.5	15.4	17.1	46	..	1.7	..	2.1	0	0	30	0	11	0	13	0	5	0	1	1	0
Hyderabad (Begumpet)	0230	545	1013.8	952.0	..	18.1	15.0	12.9	14.8	72	..	0.3	..	2.8	0	0	13	0	0	2	10	1	0	0	0	18	0
	0530	,,	1014.3	952.0	..	15.8	14.1	12.8	14.9	83	..	0.2	..	1.7	0	0	11	1	0	3	7	0	0	0	0	20	0
	0830	,,	1016.1	954.4	+0.1	19.2	15.8	13.5	15.5	71	+1	0.8	−1.4	2.6	0	0	13	0	0	2	7	1	2	1	0	18	0
	1130	,,	1014.4	954.2	..	26.6	17.8	11.7	13.9	40	..	0.8	..	10.7	0	1	29	0	1	2	19	4	2	1	1	1	0
	1730	,,	1010.5	950.9	..	28.1	17.8	10.6	12.9	34	..	1.6	..	8.9	0	0	30	0	0	10	16	1	2	1	0	1	0
	2330	,,	1014.7	953.2	..	20.0	15.9	13.1	15.1	65	..	0.8	..	4.8	0	1	19	1	0	3	13	3	0	0	0	11	0
Khammam	0830	112	1016.1	1003.5	..	22.4	20.0	18.2	21.4	80	..	2.2	..	2.6	0	0	21	0	1	6	10	4	0	0	0	10	0
	1730	,,	1011.6	999.0	..	29.8	20.7	14.9	16.9	41	..	1.8	..	2.2	0	0	16	0	0	9	3	3	1	0	0	15	0
Mahbubnagar	0830	505	1015.3	958.4	..	22.1	16.7	12.9	15.1	56	..	0.6	..	6.2	0	1	23	0	2	13	3	0	2	1	3	7	0
	1730	,,	1010.2	954.8	..	28.4	17.5	9.7	12.0	31	..	0.8	..	4.1	0	0	25	0	0	13	5	3	4	0	0	6	0
Rayalaseema																											
Kurnool	0830	281	1015.4	983.1	−0.4	20.4	16.3	13.3	15.2	64	−5	0.3	−1.4	3.8	0	0	31	0	11	0	17	0	3	0	0	0	0
	1730	,,	1010.5	979.4	..	30.5	19.1	10.4	12.7	29	..	1.1	..	4.8	0	0	30	0	12	0	17	0	0	0	0	1	1
Anantapur	0530	350	1013.6	973.2	..	17.1	14.3	11.9	14.0	72	..	0.3	..	2.1	0	0	10	0	0	5	3	1	0	1	0	21	0
	0830	,,	1015.8	975.8	+0.7	20.3	15.9	12.4	14.5	61	−7	0.6	−0.8	2.3	0	0	11	0	0	5	4	1	0	0	1	20	0
	1130	,,	1014.5	975.3	..	27.0	18.1	11.4	13.6	39	..	0.7	..	4.9	0	1	30	1	5	18	5	2	0	0	0	0	0
	1730	,,	1009.9	971.3	..	29.3	18.9	11.2	13.4	33	..	0.6	..	10.1	0	2	29	0	6	23	2	0	0	0	0	0	0
	2330	,,	1013.8	974.2	..	23.3	17.3	12.8	14.9	52	..	0.4	..	7.3	0	4	27	0	2	19	10	0	0	0	0	0	0
Cuddapah	0830	130	1016.1	1001.1	+0.3	22.0	18.4	16.0	18.2	69	−5	0.5	−1.7	0.5	0	0	3	0	0	3	0	0	0	0	0	28	0
	1730	,,	1011.5	996.9	..	29.3	19.9	13.4	15.6	38	..	0.6	..	4.6	0	0	26	0	0	26	0	0	0	0	0	5	0
Arogyavaram	0830	701	1016.0	937.4	..	19.0	15.1	12.2	14.3	66	..	0.7	..	2.4	0	0	19	0	0	5	5	9	0	0	0	12	0
	1730	,,	1010.6	934.1	..	25.9	16.4	9.3	11.7	36	..	1.0	..	6.1	0	0	31	4	8	18	1	0	0	0	0	0	0
Madras State																											
Madras	0830	6	1016.1	1015.4	..	23.4	20.9	19.6	22.7	80	..	2.5	..	3.0	0	0	19	3	3	2	2	0	1	6	2	12	0
Madras (Minambakkam)	0230	16	1013.6	1011.8	..	20.6	19.3	18.6	21.3	89	..	1.5	..	3.3	0	0	22	3	0	0	0	0	0	10	9	9	0
	0530	,,	1013.7	1011.9	..	19.9	19.1	18.5	21.4	92	..	1.6	..	4.5	0	0	23	3	0	0	0	0	1	15	4	8	0
	0830	,,	1016.2	1014.4	+0.8	22.2	20.4	19.3	22.5	84	0	2.7	−0.4	5.5	0	0	28	3	1	0	0	0	0	8	16	3	0
	1130	,,	1015.6	1013.8	..	27.8	21.4	17.7	20.2	54	..	3.6	..	9.7	0	1	30	4	8	10	4	2	0	1	1	0	1
	1730	,,	1012.8	1011.0	..	26.2	20.9	17.9	20.4	60	..	2.4	..	10.4	0	0	31	0	14	16	1	0	0	0	0	0	0
	2330	,,	1015.2	1013.4	..	21.7	19.8	18.6	21.6	83	..	0.8	..	4.1	0	0	21	4	6	4	1	0	0	0	6	10	0
Vellore	0530	214	1014.2	989.4	..	17.9	17.3	16.8	19.3	93	..	2.2	..	0.3	0	0	4	0	3	1	0	0	0	0	0	27	0
	0830	,,	1016.3	991.5	+0.5	19.2	17.8	17.0	19.3	87	+1	3.4	+0.6	0.5	0	0	5	0	2	0	0	1	0	1	1	26	0
	1130	,,	1015.6	991.3	..	26.1	20.6	17.2	19.7	58	..	2.5	..	5.1	0	1	23	3	9	6	0	0	1	2	3	7	0
	1730	,,	1011.6	987.6	..	28.1	19.7	14.1	16.1	43	..	1.8	..	6.8	0	0	31	0	10	16	5	0	0	0	0	0	0
	2330	,,	1015.1	990.6	..	22.1	19.1	17.8	19.6	77	..	0.9	..	3.0	0	0	17	0	7	8	1	0	0	0	1	14	0
Tambaram (Aerodrome)	0830	29	1015.7	1012.3	..	23.3	21.9	21.0	25.2	87	..	3.0	..	7.3	0	0	30	8	2	0	0	0	0	5	15	1	0
	1730	,,	1012.3	1009.0	..	26.5	21.7	18.9	22.0	64	..	2.6	..	16.5	0	5	26	0	23	7	1	0	0	0	0	0	0
Tiruppattur	0830	390	1016.6	971.7	..	17.4	16.7	16.1	18.4	93	..	4.0	..	2.6	0	0	26	18	8	0	0	0	0	0	0	5	0
	1730	,,	1010.7	967.3	..	26.7	19.5	14.6	16.8	48	..	3.3	..	8.5	0	0	31	12	19	0	0	0	0	0	0	0	0
Mettur Dam R.S.	0830	..	..	..	..	22.2	19.1	17.1	19.6	74	..	1.3	..	5.0	0	0	31	0	18	0	1	0	0	0	12	0	0
	1730	..	..	..	..	29.8	21.7	16.9	19.4	47	..	1.4	..	5.9	0	0	31	0	13	0	5	0	6	0	7	0	0
Cuddalore	0530	12	1012.9	1011.5	..	20.1	19.3	18.9	21.7	93	..	3.3	..	2.3	0	0	19	3	1	0	0	0	0	1	14	12	0
	0830	,,	1015.6	1014.2	+0.5	22.5	20.8	19.8	23.2	85	+1	3.8	+0.3	5.5	0	0	29	7	3	0	0	0	0	0	19	2	0
	1130	,,	1015.3	1013.9	..	27.2	22.1	19.3	22.4	62	..	3.6		12.0	0	4	27	7	21	2	0	0	0	0	1	0	0
	1730	,,	1012.2	1010.9	..	26.0	21.9	19.6	22.9	68	..	2.5	..	12.1	0	2	29	1	26	4	0	0	0	0	0	0	0
	2330	,,	1014.5	1013.1	..	23.2	20.9	19.5	22.9	80	..	2.6	..	4.8	0	0	24	4	19	1	0	0	0	0	0	0	0
Kallakkurichchi	0830	127	1015.9	1001.2	..	21.8	19.7	18.4	21.3	81	..	2.7	..	5.8	0	0	27	4	0	0	0	0	0	0	23	4	0
	1730	,,	1011.3	997.1	..	28.3	20.9	16.5	18.6	49	..	2.6	..	8.3	0	0	31	0	23	8	0	0	0	0	0	0	0
Salem	0530	278	1013.7	981.6	..	18.7	16.5	15.2	16.9	79	..	1.1	..	3.6	0	0	23	0	6	16	1	0	0	0	0	8	0
	0830	,,	1015.9	984.1	+0.6	21.2	17.5	14.9	16.9	68	−8	2.1	−0.4	1.9	0	0	11	1	5	4	0	0	0	1	0	20	0
	1130	,,	1014.3	983.2	..	27.7	19.3	13.5	15.6	42	..	2.2	..	6.1	0	0	30	0	7	14	4	1	0	3	1	1	0
	1730	,,	1010.1	979.3	..	29.6	19.6	12.7	14.7	36	..	2.0	..	6.7	0	0	26	0	2	21	3	0	0	0	0	5	0
	2330	,,	1014.1	982.5	..	22.5	18.4	15.7	17.8	66	..	0.9	..	10.1	0	1	30	0	8	21	2	0	0	0	0	0	0

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard of isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(contd.)																											
Coimbatore (Pitamedu)	0530	399	1014.0	968.2	..	17.5	16.3	15.4	17.6	87	..	1.1	..	3.4	0	0	14	12	2	0	0	0	0	0	0	17	0
	0830	,,	1016.1	970.7	..	20.6	18.2	16.7	19.0	79	..	2.8	..	7.2	0	1	20	3	15	3	0	0	0	0	0	10	0
	1130	,,	1014.4	969.8	..	25.9	19.1	14.4	16.5	49	..	2.0	..	11.7	0	2	26	2	17	8	0	0	0	0	0	3	1
	1730	,,	1010.0	966.1	..	28.6	18.4	10.5	12.9	33	..	1.4	..	13.4	0	3	28	0	12	18	1	0	0	0	0	0	0
	2330	,,	1014.5	969.2	..	21.0	16.7	13.5	15.5	63	..	0.5	..	7.4	0	0	24	5	9	9	0	1	0	0	0	7	0
Coimbatore	0830	409	1015.9	969.4	+0.7	21.3	17.8	15.8	17.6	73	−.7	3.1	−0.3	15.9	0	3	28	1	8	13	7	1	0	0	1	0	0
	1730	,,	1010.0	965.0	..	28.9	18.7	11.0	13.2	33	..	1.5	..	17.2	0	6	25	0	6	12	10	3	0	0	0	0	0
Nagappattinam	0830	9	1015.3	1014.2	+0.8	24.1	21.1	19.4	22.5	75	−.4	3.4	−0.9	13.1	0	8	22	4	10	1	0	0	0	2	13	1	0
	1730	,,	1011.9	1010.8	..	26.5	22.0	19.5	22.7	66	..	3.4	..	20.0	0	19	12	4	26	1	0	0	0	0	0	0	0
Tiruchirappalli	0230	88	1013.1	1002.9	..	20.3	19.1	18.3	21.1	88	..	0.9	..	9.5	0	2	24	10	13	2	0	0	0	0	1	5	0
	0530	,,	1013.2	1003.0	..	19.7	18.7	18.0	20.8	90	..	1.8	..	7.2	0	1	20	10	9	1	0	0	0	0	1	10	0
	0830	,,	1015.4	1005.3	+0.2	22.9	20.1	18.5	21.3	77	−.3	2.1	−0.8	9.7	0	1	26	16	8	0	0	0	1	1	1	4	0
	1130	,,	1014.8	1004.9	..	27.5	21.1	17.3	19.7	54	..	2.7	..	16.5	0	14	17	6	21	3	1	0	0	0	0	0	0
	1730	,,	1011.0	1001.1	..	28.6	21.0	16.7	18.6	48	..	1.8	..	14.8	0	6	25	0	11	17	0	0	0	0	0	0	3
	2330	,,	1014.6	1004.4	..	21.5	19.9	19.0	22.0	86	..	0.7	..	11.4	0	3	27	5	17	7	1	0	0	0	0	1	0
Vedaranniyam	0830	4	1014.6	1014.1	..	24.1	22.2	21.2	25.3	84	..	3.6	..	1.9	0	0	18	9	7	0	0	0	0	0	2	13	1
	1730	,,	1011.6	1011.1	..	26.0	23.6	22.4	27.1	81	..	2.6	..	3.0	0	0	29	15	11	0	0	0	0	0	0	2	0
Atirampattinam	0830	6	1014.8	1014.1	..	22.9	21.0	20.0	23.2	84	..	3.0	..	10.0	0	0	31	19	0	0	0	0	0	0	12	0	0
	1730	,,	1011.2	1010.5	..	27.5	22.0	19.0	21.8	60	..	4.5	..	13.5	0	1	30	2	26	1	1	1	0	0	0	0	0
Madurai	0830	133	1015.5	1000.2	+0.7	23.1	19.9	18.1	20.6	73	−.6	2.9	−0.7	5.2	0	0	31	19	6	1	0	0	0	0	5	0	0
	1730	,,	1010.8	995.9	..	28.9	20.9	16.1	18.2	46	..	2.5	..	8.3	0	0	31	2	15	7	0	1	0	0	1	0	5
Madurai (Aerodrome)	0530	131	1013.1	997.9	..	19.9	18.7	18.0	20.6	89	..	1.3	..	7.6		3	20	4	17	2	0	0	0	0	0	8	0
	0830	,,	1015.2	1000.1	..	23.4	20.0	18.1	20.6	72	..	2.1	..	10.9	0	1	30	16	14	0	0	0	0	0	1	0	0
	1130	,,	1014.3	999.4	..	27.9	21.0	16.8	19.3	51	..	1.9	..	15.7	0	9	22	4	20	6	0	0	0	0	0	0	1
	1730	,,	1010.5	995.8	..	28.9	20.7	15.5	17.7	45	..	2.1	..	13.9	0	1	30	0	16	15	0	0	0	0	0	0	0
Tondi	0830	5	1015.0	1014.4	..	23.0	21.0	19.9	23.2	83	..	2.5	..	7.5	0	0	31	18	0	0	0	0	0	0	13	0	0
	1730	,,	1011.6	1011.0	..	26.8	23.3	21.6	25.6	73	..	2.8	..	21.5	0	23	8	1	15	15	0	0	0	0	0	0	0
Pamban	0830	11	1014.4	1013.1	+0.4	25.2	23.4	22.4	27.3	85	+2	3.3	0	10.7	0	6	22	12	9	0	0	0	0	0	7	3	0
	1730	,,	1011.2	1009.9	..	26.2	24.0	22.9	28.1	82	..	3.2	..	12.3	0	6	25	0	31	0	0	0	0	0	0	0	0
Tuticorin	0830	4	1015.1	1014.7	+0.4	24.2	22.0	20.8	24.6	82	+5	1.8	−1.1	14.4	0	3	28	23	4	0	0	0	0	0	4	0	0
	1730	,,	1011.1	1010.7	..	26.7	24.6	23.7	29.3	84	..	2.5	..	29.9	0	30	1	0	9	22	0	0	0	0	0	0	0
Palayankottai	0830	51	1015.4	1009.6	+1.1	24.4	21.0	19.1	22.1	73	−3	3.2	−1.0	6.6	0	0	30	26	1	0	0	0	0	0	3	1	0
	1730	,,	1010.6	1004.9	..	29.0	22.5	18.8	22.0	55	..	3.5	..	7.9	0	0	29	3	7	16	3	0	0	0	0	2	0
Kanniyakumari	0830	37	1013.6	1009.5	..	25.3	21.3	19.0	22.1	68	..	2.3	..	24.5	0	27	4	14	15	1	0	0	0	0	1	0	0
	1730	,,	1010.0	1005.9	..	27.1	22.9	20.5	24.4	68	..	3.2	..	24.3	0	25	6	5	15	10	0	0	1	0	0	0	0
Coastal Mysore																											
Karwar	0830	4	1013.9	1013.4	+0.2	19.9	18.1	17.0	19.3	84	+8	1.0	−0.7	6.0	0	0	28	0	3	18	6	0	0	0	1	3	0
	1730	,,	1010.2	1009.7	..	28.2	22.5	19.4	22.7	60	..	1.2	..	13.6	0	9	22	0	1	2	1	0	0	1	26	0	0
Honavar	0830	26	1014.5	1011.5	+0.3	20.8	18.2	16.4	18.8	77	+8	1.2	−1.4	6.6	0	0	28	0	8	20	0	0	0	0	0	3	0
	1730	,,	1010.6	1007.6	..	28.7	23.1	20.3	23.7	61	..	1.5	..	7.4	0	0	31	0	0	3	0	0	0	11	17	0	0
Mangalore (Bajpe)	0230	102	1011.8	1000.1	..	21.9	20.1	19.0	22.1	84	..	0.1	..	4.9	0	0	25	0	3	20	1	0	0	0	1	6	0
	0530	,,	1011.9	1000.1	..	20.7	18.9	17.7	20.4	83	..	0.2	..	5.6	0	0	25	0	1	21	3	0	0	0	0	6	0
	0830	,,	1014.1	1002.4	..	23.1	19.7	17.5	20.2	72	..	0.6	..	7.4	0	1	29	0	2	27	1	0	0	0	0	1	0
	1130	,,	1013.7	1002.3	..	29.4	21.0	15.7	18.1	44	..	1.1	..	6.5	0	0	26	0	4	13	4	0	0	2	3	5	0
	1730	,,	1010.0	998.5	..	28.4	22.1	18.6	21.6	56	..	0.9	..	12.4	0	2	29	0	1	0	0	0	0	23	7	0	0
	2330	,,	1013.1	1001.4	..	23.7	21.2	19.8	23.2	79	..	0.4	..	4.0	0		16	6	2	4	1	0	0	0	3	15	0
Mangalore	0830	22	1014.0	1011.4	+0.1	24.1	20.3	17.7	20.8	68	0	4.1	+2.1	3.9	0	[illegible]	31	0	3	25	3	0	0	0	0	0	0
	1730	,,	1010.3	1007.8	..	28.6	23.0	20.0	23.5	60	..	3.1	..	7.9	0	0	38	0	0	0	0	0	2	11	15	0	3
Interior Mysore (North)																											
Bidar	0830	664	1015.5	941.0	..	19.9	14.8	10.9	13.1	57	−2	0.3	−1.8	12.3	0	3	26	3	0	6	1	3	13	0	3	2	0
	1730	,,	1009.7	937.5	..	27.3	16.5	7.5	10.9	29	..	0	..	6.1	0	1	18	1	3	3	0	1	8	1	2	12	0
Gulbarga	0830	458	1015.8	963.8	0	21.1	15.2	10.8	13.0	52	−4	0.6	−0.7	4.2	0	0	18	2	3	4	1	5	3	0	0	13	0
	1730	,,	1009.7	959.6	..	30.3	17.7	8.2	11.0	26	..	1.5	..	7.9	0	0	29	1	1	4	10	6	3	3	1	2	0
Bijapur	0830	594	1015.5	948.3	−0.2	18.9	14.1	10.3	12.6	58	−2	0.2	−1.3	1.3	0	0	18	6	0	4	2	3	1	0	2	13	0
	1730	,,	1009.1	944.6	..	29.1	18.3	10.7	12.9	32	..	0.6	..	1.3	0	0	17	1	3	0	4	4	1	2	2	14	0
Raichur	0830	400	1015.4	970.1	−0.1	21.7	16.7	13.0	15.0	58	−6	2.4	+0.9	[illegible]	0	0	22	2	2	0	8	8	2	0	0	9	0
	1730	,,	1010.3	966.4	..	29.7	18.5	9.9	12.2	30	..	2.6	..	4.4	0	0	30	0	11	3	15	0	0	1	0	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)—(contd.)																											
Belgaum	0830	753	1016·3	931·3	+0·2	16·7	13·6	11·2	13·3	71	+0·8	0·2	—1·3	1·7	0	0	10	2	0	7	0	0	0	0	1	21	0
	1730	,,	1008·9	927·7	..	28·1	16·9	8·3	11·1	30	..	0·5	..	3·7	0	0	29	0	2	7	4	0	1	14	0	2	1
Belgaum (Sainra)	0530	747	1014·1	929·5	..	14·9	12·0	9·5	11·9	71	..	0·1	..	1·5	0	0	8	0	1	2	2	1	0	1	0	23	1
	0830	,,	1015·4	931·7	..	18·6	13·8	9·9	12·3	58	..	0·4	..	3·4	0	0	15	0	7	3	2	2	0	0	0	16	1
	1130	,,	1013·5	931·9	..	25·9	15·8	7·6	10·6	32	..	0·6	..	11·0	0	2	27	2	6	6	3	9	1	0	1	2	1
	1730	,,	1009·0	928·4	..	28·4	16·5	6·9	10·1	27	..	0·6	..	7·9	0	2	26	1	4	3	4	0	5	5	2	3	4
Gadag	0530	650	1013·7	940·3	..	17·8	14·7	12·3	14·5	71	..	0·1	..	2·3	0	0	12	0	0	7	4	0	1	0	0	19	0
	0830	,,	1015·4	942·3	—0·1	19·3	15·5	12·5	14·5	67	+5	0·2	—1·2	2·7	0	0	12	0	0	7	5	0	0	0	0	19	0
	1130	,,	1013·5	942·5	..	27·7	19·1	13·5	15·9	43	..	0·6	..	6·7	0	0	29	0	1	17	6	3	0	1	1	2	0
	1730	,,	1008·9	938·7	..	30·0	19·9	13·7	15·9	38	..	0·4	..	3·5	0	0	22	0	1	16	1	1	1	2	0	9	0
	2330	,,	1013·8	941·3	..	21·2	16·0	12·4	14·4	58	..	0·1	..	5·3	0	0	27	0	0	16	3	1	0	7	0	4	0
Interior Mysore (South)																											
Bellary	0830	449	1015·8	964·7	+0·2	20·8	16·5	13·4	15·3	64	0	0	—2·1	5·9	0	1	25	0	0	0	26	0	0	0	0	5	0
	1730	,,	1009·9	960·7	..	29·9	20·5	14·1	16·5	39	..	0·2	..	6·3	0	0	24	0	0	0	24	0	0	0	0	7	0
Chitra Durga	0830	733	1014·7	933·2	+0·2	20·7	16·0	12·6	14·8	61	—1	0·6	—1·6	4·1	0	0	22	0	1	12	5	1	3	0	0	9	0
	1730	,,	1008·6	929·5	..	28·3	18·8	12·8	14·7	39	..	0·7	..	3·2	0	0	26	0	2	23	1	0	0	0	0	5	0
Shimoga	0830	571	1015·6	950·4	0	16·5	14·2	12·5	14·5	79	+3	1·0	—1·4	0·6	0	0	6	0	1	1	1	1	2	0	0	25	0
	1730	,,	1008·9	946·9	..	29·9	17·7	8·7	11·4	27	..	0·9	..	2·6	0	0	16	0	3	6	3	1	2	1	0	15	0
Agumbe	0830	,,	..	..	..	17·0	15·6	14·4	16·7	83	..	..	..	..	0	0	31	0	20	6	2	0	1	2	0	0	0
Balehonnur	0830	890	..	..	..	19·0	16·1	14·1	16·2	74	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hassan	0830	960	1528·6	909·1	..	15·9	13·7	11·9	14·1	78	+6	0·4	—2·1	1·4	0	0	17	0	0	17	0	0	0	0	0	14	0
	1730	,,	1517·2	905·8	..	26·7	16·2	8·0	10·8	31	..	0·5	..	1·7	0	0	20	0	1	19	0	0	0	0	0	11	0
Bangalore	0230	921	1509·9	911·4	..	15·8	14·0	12·7	14·7	82	..	0·2	..	8·1	0	2	21	0	0	22	1	0	0	0	0	8	0
	0830	,,	1532·7	913·6	+0·5	17·2	14·2	11·9	14·0	73	—5	1·8	—1·2	7·0	0	0	25	0	1	22	2	0	0	0	0	6	0
	1130	,,	1545·9	913·4	.	24·4	15·9	9·4	11·9	40	..	1·2	..	10·1	0	2	26	0	2	22	4	0	0	0	0	3	0
	1730	,,	1520·4	910·4	..	25·6	16·1	8·6	11·4	35	..	1·2	..	8·4	0	0	26	0	1	23	2	0	0	0	0	5	0
Bangalore Aerodrome	0530	897	1507·0	914·1	..	14·2	13·3	12·6	14·7	90	..	1·3	..	3·5	0	0	18	0	3	14	1	0	0	0	0	13	0
	0830	,,	1533·1	916·3	..	17·0	14·6	12·8	14·9	77	..	2·1	..	5·2	0	0	21	0	1	18	2	0	0	0	0	10	0
	1130	,,	1545·1	916·0	..	23·7	15·6	9·2	11·9	41	..	1·2	..	10·2	0	1	24	0	2	22	1	0	0	0	0	6	0
	1730	,,	1518·8	912·8	..	25·6	16·1	8·8	11·4	35	..	1·0	..	9·2	0	0	28	1	1	23	2	0	0	0	0	3	1
	2330	,,	1526·1	915·5	..	17·1	14·5	12·5	14·7	75	..	0·3	..	6·4	0	0	27	0	1	26	0	0	0	0	0	4	0
Mysore	0830	767	1015·7	929·9	+0·5	18·8	14·9	12·0	14·1	66	—5	0·4	—2·3	3·7	0	0	28	2	9	7	3	2	3	1	1	3	0
	1730	,,	1009·3	926·4	..	27·7	16·2	6·8	10·0	27	..	0·5	..	7·5	0	2	29	4	13	8	5	0	0	0	1	0	0
Kerala																											
Calicut	0530	5	1011·9	1011·3	..	21·8	20·3	19·5	22·7	87	..	0·9	..	10·1	0	0	31	0	10	20	1	0	0	0	0	0	0
	0830	,,	1013·9	1013·3	+0·4	23·8	20·4	18·5	21·1	73	—5	1·0	—1·2	7·6	0	0	31	1	4	26	0	0	0	0	0	0	0
	1130	,,	1013·9	1013·3	..	29·5	22·9	19·3	22·1	55	..	0·6	..	10·6	0	1	29	0	1	0	2	0	7	13	7	1	0
	1730	,,	1010·1	1009·5	..	29·3	23·9	21·2	25·3	62	..	0·5	..	13·9	0	2	29	0	0	0	0	0	0	21	10	0	0
	2330	,,	1013·1	1012·5	..	25·0	22·2	20·7	24·4	78	..	0·3	..	7·3	0	1	29	9	12	7	0	0	0	0	2	1	0
Palghat	0830	97	1014·8	1003·6	..	24·1	20·1	17·6	20·4	67	..	0·5	..	12·1	0	1	30	0	0	28	3	0	0	0	0	0	0
	1730	,,	1009·8	998·9	..	31·3	21·0	14·5	16·5	37	..	0·2	..	9·8	0	0	31	0	0	30	1	0	0	0	0	0	0
Fort Cochin	0830	3	1013·7	1013·4	+0·5	25·9	21·4	18·8	21·7	66	—4	3·9	+2·0	5·3	0	0	31	4	15	11	1	0	0	0	0	0	0
	1730	,,	1009·6	1009·3	..	28·6	23·4	20·7	24·5	63	..	3·5	..	8·3	0	0	31	1	0	0	0	0	3	17	10	0	0
Cochin (Naval Air Station)	0230	3	1011·7	1011·4	..	23·1	21·5	20·7	24·4	86	..	1·5	..	0·7	0	0	3	0	3	0	0	0	0	0	0	28	0
	0530	,,	1011·6	1011·3	..	21·9	20·3	19·4	22·5	86	..	1·5	..	2·0	0	0	11	0	5	6	0	0	0	0	0	20	0
	0830	,,	1013·7	1013·4	..	24·1	20·6	18·6	21·4	72	..	1·9	..	4·8	0	0	17	0	4	13	0	0	0	0	0	14	0
	1130	,,	1013·6	1013·3	..	29·6	22·1	17·9	20·5	50	..	1·4	..	4·6	0	0	19	1	2	6	0	0	0	1	4	12	5
	1730	,,	1009·8	1009·5	..	29·2	22·9	19·6	22·8	55	..	1·7	..	14·2	0	0	31	0	0	0	0	0	9	18	4	0	0
	2330	,,	1013·0	1012·7	..	24·6	22·5	21·5	25·6	83	..	1·7	..	2·3	0	0	11	1	6	3	1	0	0	0	0	20	0
Alleppey	0830	4	1013·6	1013·2	+0·9	25·2	21·7	19·7	23·9	72	—3	2·6	—1·1	5·6	0	0	30	0	5	9	16	0	0	0	0	1	0
	1730	,,	1009·7	1009·3	..	29·7	24·0	21·2	25·0	61	..	1·7	..	17·5	0	7	24	0	0	0	0	0	0	11	20	0	0
Punalur	0830	34	1013·6	1009·7	..	23·1	20·6	19·2	22·2	80	..	3·6	..	0·6	0	0	4	0	1	1	2	0	0	0	0	27	0
	1730	,,	1009·5	1005·7	..	26·7	24·1	21·6	25·9	65	..	5·6	..	4·0	0	0	29	0	5	6	2	1	0	7	8	2	0
Trivandrum	0230	84	1011·2	1003·8	..	23·8	22·1	21·1	25·3	85	..	1·3	..	2·4	0	0	15	3	6	2	1	0	0	0	3	16	0
	0530	,,	1011·1	1003·7	..	22·8	21·3	20·4	24·1	86	..	1·2	..	4·6	0	0	26	6	12	5	1	0	0	1	1	5	0
	0830	,,	1013·3	1005·9	+0·4	25·0	22·0	20·4	24·0	76	—1	1·6	—1·0	3·8	0	0	28	2	16	4	5	0	0	1	0	3	0
	1130	,,	1012·7	1005·5	..	30·1	23·0	19·1	22·4	53	..	2·6	..	4·8	0	0	27	2	3	0	3	4	4	6	5	4	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*contd.*)																											
Trivandrum—(contd.)	1730	,,	1010·0	1002·8	..	28·5	23·3	20·9	24·6	64	..	2·4	..	5·9	0	0	29	0	3	1	1	5	9	7	3	2	0
	2330	,,	1012·8	1005·5	..	25·0	22·7	21·4	25·6	81	..	2·1	..	3·6	0	0	21	4	5	2	3	0	0	1	6	10	0
Trivandrum (Aerodrome)	0830	8	1013·6	1012·7	..	25·6	22·0	20·1	23·5	72	..	2·1	..	6·1	0	0	27	3	13	5	5	1	0	0	0	4	0
Arabian Sea Islands																											
Amini*	0530	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1450·0	799·0	—0·5	2·1	0·8	—1·6	5·3	77	+10	3·8	+0·6	3·4	0	0	28	1	13	2	10	1	0	0	1	3	0
	1730	,,	1443·0	798·0	..	3·3	2·3	1·0	7·7	87	..	4·4	..	3·3	0	0	31	0	11	0	9	2	4	3	2	0	0
Dharmsala	0830	1211	1562·9	887·7	+1·7	6·5	4·0	0·4	6·3	66	+4	3·7	+0·1	0·5	0	0	11	1	6	3	0	0	0	0	1	20	0
	1730	,,	1563·6	887·2	..	9·6	6·5	2·4	7·3	63	..	5·5	..	2·1	0	0	31	2	2	1	0	0	25	0	1	0	0
Simla	0830	2202	1501·1	780·5	—1·2	2·8	0·7	—2·8	4.8	71	+28	2·8	—1·0	1·7	0	0	26	1	0	0	5	15	5	0	0	5	0
	1730	,,	1493·4	780·1	..	4·0	2·0	—1·2	5·5	71	..	4·0	..	1·9	0	0	29	0	1	1	5	4	18	0	0	2	0
Lokpal	0830	..	..	..	..	11·4	10·6	9·7	12·0	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	.	(closed during winter month)																								
Joshimath (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mussoorie	0830	2042	..	..	..	4·2	2·1	—0·8	5·7	72	+16	3·3	—0·3	2·1	0	0	18	5	2	0	2	4	1	0	4	13	0
	1730	,,	..	..	..	5·0	3·4	1·5	6·8	80	..	4·2	..	3·4	0	0	29	9	4	0	5	6	1	0	4	2	0
Mukteswar (Kumaun)	0830	2311	3097·1	771·8	—1·4	3·8	1·3	—3·5	4·6	66	+17	2·6	0·5	9·9	0	0	28	1	7	7	1	2	0	7	3	3	0
	1730	,,	3088·7	770·8	..	4·6	1·8	—2·5	5·0	63	..	2·5	..	9·1	0	0	27	0	3	3	1	1	5	10	4	4	0
Nainital	0830	1953	1494·5	803·6	—2·0	3·3	1·8	—0·3	6·0	76	+10	2·7	0·5	3·4	0	0	23	2	0	2	0	0	0	16	3	8	0
	1730	,,	1483·2	803·4	..	5·1	2·9	—0·3	6·1	72	..	3·2	..	7·2	0	0	31	2	1	3	2	1	2	19	1	0	0
Kalimpong	0830	1209	1478·1	877·7	—5·3	14·2	12·5	11·0	13·1	82	+7	1·9	—0·5	3·9	0	0	30	1	0	0	0	0	0	0	29	1	0
	1730	,,	1470·6	876·9	..	14·2	12·0	10·0	12·3	81	..	2·0	..	5·0	0	0	31	0	0	0	31	0	0	0	0	0	0
Darjeeling	0830	2128	1484·0	786·4	—2·9	4·3	3·3	2·1	7·1	85	+21	4·5	+1·1	1·3	0	0	8	5	0	0	0	0	2	1	0	23	0
	1730	,,	1456·0	784·0	..	5·5	4·0	2·3	7·2	79	..	5·6	..	2·1	0	0	7	0	0	0	0	0	3	1	0	24	3
Kohima	0830	1406	1553·6	865·2	..	10·6	9·2	7·9	10·7	85	..	1·6	..	3·3	0	0	31	0	0	0	15	0	1	0	15	0	0
	1730	,,	1514·0	861·0	..	12·0	10·9	10·0	12·3	89	..	3·1	..	3·4	0	0	31	2	0	0	0	0	3	4	22	0	0
Shillong	0830	1500	1532·5	853·5	—0·9	12·8	7·5	1·1	6·6	44	—26	1·6	+0·1	1·2	0	0	15	0	4	0	0	0	5	1	5	16	0
	1730	,,	1509·7	851·2	..	10·8	8·3	5·7	9·1	70	..	(b) 4·8	..	(b) 0·3	0	0	2	0	0	0	0	0	2	0	0	27	0
Cherrapunji	0830	1313	1514·0	870·8	—0·7	12·0	8·2	4·0	8·1	58	—5	1·2	—0·8	7·0	0	0	27	0	0	3	0	0	12	12	0	4	0
	1730	,,	1493·9	886·7	..	10·3	8·0	5·6	9·1	72	..	1·7	..	6·5	0	0	28	1	0	1	2	0	15	9	0	3	0
Abu	0830	1195	1521·6	884·1	+0·1	10·0	5·6	—0·9	5·9	49	+5	0·6	—1·1	0·5	0	0	7	0	0	0	0	0	2	3	2	24	0
	1730	,,	1511·1	882·5	..	15·2	8·8	0·9	6·7	39	..	0·5	..	0·7	0	0	9	0	2	0	0	0	2	1	4	22	0
Aijal (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pachmarhi	0830	1075	1529·6	897·4	—0·3	13·4	9·2	4·7	8·6	57	—5	0·7	—1·2	1·5	0	0	17	0	1	3	1	4	6	1	1	14	0
	1730	,,	1521·0	895·5	..	19·4	12·1	4·5	8·8	40	..	1·0	..	2·8	0	0	28	5	6	0	0	1	2	4	10	3	0
Mahabaleshwar	0830	1382	1529·0	865·1	—0·3	15·8	10·6	5·4	9·0	50	—2	0·3	—0·7	9·8	0	0	31	1	4	0	18	1	5	0	2	0	0
	1730	,,	1517·1	863·5	..	22·1	14·2	7·4	10·4	39	..	0·3	..	9·9	0	0	31	0	10	0	14	0	6	0	1	0	0
Mercara	0830	1152	1525·6	888·0	+0·2	16·4	13·7	11·1	13·2	75	—5	0·6	—2·8	14·4	0	4	26	6	10	14	0	0	0	0	0	1	0
	1730	,,	1512·3	886·0	..	24·2	16·3	9·7	12·8	43	..	1·1	..	11·2	0	6	25	3	9	10	0	0	0	4	4	0	1
Ootacamund	0830	2249	1530·7	781·6	+1·0	12·7	6·6	—0·8	5·7	41	—17	0·5	—1·7	0·9	0	0	6	0	4	2	0	0	0	0	0	25	0
	1730	,,	1502·7	779·7	..	16·5	10·7	5·5	9·0	50	..	0·6	..	1·2	0	0	9	0	2	7	0	0	0	0	0	22	0
Coonoor (R)	0830	1747																									
Kodaikanal	0830	2343	3171.7	773.1	+1·1	14.2	6·2	—5.4	3.9	33	—22	1.2	—0.7	9.7	0	1	27	2	5	2	14	2	0	1	2	3	0
	1130	,,	3184.1	773.3	..	18.0	9.8	0.6	6.4	36	..	1.7	..	10.3	0	2	28	3	2	4	15	1	0	0	5	1	0
	1730	,,	3153.0	771.9	..	14.2	10.3	6.4	9.6	63	..	2.2	..	3.9	0	0	19	4	2	1	6	1	0	0	5	12	0

(R) Register not received. *Data given as addenda in December 1964 issue. (b) Mean of 29 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1964 (PAUSA 11—MAGHA 11, 1885 SAKA

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Departure from normal	Relative humidity %	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Nepal																											
Katmandu	0830	1324	1514.5	870.3	..	3.5	2.9	1.9	7.1	89	..	3.6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1491.0	867·3	..	11.9	8.0	3.5	8.0	58	..	1.7	..	1.2	0	0	9	0	1	0	0	0	0	4	4	22	0
	1730	,,	1511.7	869·3	..	13.8	9.1	3.9	8.2	52	..	1.9	..	1.3	0	0	13	1	3	2	0	0	0	3	4	18	0
Sikkim																											
Lachen	0830	..	..	..	..	3·2	1·2	−1·7	5·3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories—Damodar Catchment																											
Tilaiya	0830	..	..	..	..	16·7	12·2	6·2	9·5	53	..	0.8	..	5.4	0	0	21	2	0	2	0	0	1	14	2	10	0
	1730	..	..	..	.	18.9	12.9	6.4	9.6	45	..	0.7	..	4.9	0	0	30	4	0	4	0	1	3	15	3	1	0
Hazaribagh	0830	615	1016 9	946.3	..	14.8	10.3	5.4	9.3	55	..	0.7	..	7.4	0	0	27	3	0	2	2	2	2	11	5	4	0
	1730	,,	1013.5	943.7	.	17.2	11.9	6.4	10.2	51	..	0.5	..	3.3	0	0	20	5	0	0	1	0	0	2	12	11	0
Konar	0830	..	..	..	.	..	..	..	..	..	..	1.0	..	8.5	0	1	30	0	0	0	6	0	1	23	1	0	0
	1730	..	..	..	.	..	..	..	..	..	..	0	..	4.2	0	0	31	0	0	6	0	0	0	25	0	0	0
Bokaro	0830	242	1018.0	989.6	..	15.0	12.7	10.7	12.9	76	..	2.5	..	3.6	0	0	28	0	0	1	3	2	3	11	7	3	1
	1730	,,	1013.3	985.9	.	20.6	16.4	13.0	15.0	63	..	2.6	..	4.1	0	0	31	6	11	0	2	1	0	2	8	0	1
Maithon	0830	..	..	..	..	19·5	14·4	9·4	11·8	55	..	1.6	..	2.5	0	0	26	6	0	0	0	4	5	3	8	5	0
	1730	..	..	..	..	23·5	16·6	10·5	12·7	46	..	1·1	..	2·4	0	0	24	2	0	0	0	1	0	1	20	7	0
Ramgarh	0830	..	..	..	..	13·6	10·7	7·7	10·5	67	..	0 6	..	1·3	0	0	12	0	0	0	0	0	5	5	2	19	0
	1730	..	..	..	..	21·2	14·4	7·7	10·5	43	..	1·5	..	0·6	0	0	6	1	0	0	1	0	2	0	2	25	0
Panchet Hill	0830	..	..	..	..	17·2	13·3	9·5	11·9	62	..	1·4	..	2·7	0	0	22	0	5	0	1	0	11	0	5	9	0
	1730	..	..	..	..	21·9	15·4	9·2	11·6	46	..	1·4	..	1·4	0	0	12	0	2	0	1	0	2	0	7	19	0
Durgapur	0830	..	..	..	..	18·2	16·3	15·0	17·1	82	..	1.4	..	6·6	0	0	31	18	7	0	0	4	0	0	2	0	0
	1730	..	..	..	..	22·8	20·0	18·3	20·5	76	..	1·1	..	5·7	0	0	31	13	4	2	4	3	0	0	5	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	16.0	12.1	8.6	11.2	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1016.8	998.4	..	20·3	16·2	13·1	15·1	64	..	0·4	..	2.4	0	0	23	5	2	4	4	2	1	1	2	8	2
	1130	,,	1015.9	997.8	..	25·4	18·4	13·5	15·5	48	..	1·1	..	2·9	0	0	29	3	3	0	3	1	4	5	8	2	2
	1730	,,	1012.6	994.5	..	25·8	18·4	13·0	15·0	45	..	1·7	..	0·7	0	0	7	1	0	0	0	0	1	2	3	24	0
Bilaspur	0830	..	..	..	..	18·7	15·5	13·0	15·0	70	..	2·0	..	2·0	0	0	16	1	0	0	0	3	2	0	10	15	0
	1730	..	..	..	..	23·4	17·3	12·5	14·5	52	..	2·2	..	0·4	0	0	4	0	0	0	2	0	1	0	1	27	0
Sonepur	0830	..	..	..	..	18.8	17.0	15.8	17.9	82	..	..	..	2.6	0	0	20	1	3	7	2	3	1	2	1	11	0
Khijrawan	0830	..	..	..	..	16·5	14·1	11·9	14·1	76	..	0	..	4.7	0	0	31	1	6	2	3	6	10	2	1	0	0
	1730	..	..	..	.	26·6	17·1	9·3	11·9	34	..	0	..	5.3	0	0	31	3	4	0	3	1	8	1	9	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	.	14·2	9·8	4·3	8·6	52	..	0.5	..	8.6	0	0	29	0	18	3	0	0	6	2	0	2	0
	1730	..	..	..	..	24·0	15·1	6·3	9·9	32	..	0.5	..	3.3	0	0	20	0	9	1	0	0	5	5	0	11	0
Punasa	0830	..	..	..	..	14·2	9·5	3·6	8·1	51	..	0.7	..	3.3	0	0	20	3	13	0	1	0	0	3	0	11	0
	1730	..	..	..	..	25·7	15·4	5·4	9·1	28	..	0.5	..	1.6	0	0	12	0	5	2	0	0	0	4	1	19	0
Thikri	0830	..	..	..	.	16·0	10·6	4·4	8·5	47	..	0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	13·5	9·4	4·4	8·5	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	23·6	16·3	9·9	12·6	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment							(b)	(b)	(b)	(b)																	
Jomosom	0830	..	..	..	.	1·2	0	−1·8	6·9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·5	2·9	1·1	6·6	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	.	12·3	9·5	7·2	10.1	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·3	12·1	9·2	11·6	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	.	4·1	1·1	−3·5	4·6	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10.4	5.9	0.7	6.4	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	.	10.3	8.2	6.0	9·3	75	..	1.1	..	2.9	0	0	23	17	0	0	1	0	1	0	4	8	0
	1130	..	..	..	..	16·1	11·1	6·5	9·6	53	..	1.8	..	6.8	0	0	31	0	0	1	14	15	0	0	1	0	0
	1730	..	.	..	..	15·1	10·9	6·7	10·0	53	..	3.3	..	1.8	0	0	18	1	2	4	11	0	0	0	0	13	0
Gorkha	0830	..	..	..	..	11.2	8.3	5.1	8.9	67	..	1.0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	..	..	..	..	15.1	10.8	6.7	9.8	58	..	1.0	..	(b) 0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	..	..	..	..	12·9	9·1	5·1	8·8	60	..	1·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

(b) Mean of 29 days.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *(contd.)*																											
Gandak Catchment																											
Nuwakot	0830	..	..	..	..	12·3	9·6	7·0	10·0	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·6	10·5	6·6	9·7	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	8·9	6·0	2·5	7·3	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·5	8·6	5·6	9·1	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghare Catchment																											
Dadeldhura	0830	..	..	..	..	6·1	2·6	—2·9	5·1	56	..	2·6	..	3·9	0	0	28	0	1	10	13	2	1	1	0	3	0
	1130	..	..	..	..	9·1	4·7	—1·4	5·7	51	..	2·6	..	3·2	0	0	28	5	3	6	4	1	2	2	5	3	0
	1730	..	..	..	..	7·3	3·8	—1·2	5·8	57	..	2·4	..	2·7	0	0	28	0	1	1	4	2	4	8	8	3	0
Sallyana	0830	..	..	..	..	11.2	7.4	3.0	7.6	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10.2	7.9	5.5	9.0	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	14.2	10.7	7.1	10.1	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.5	13·8	9·7	12·0	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu‡	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	8.7	5.7	2.4	7·3	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13.2	7.9	2.4	7.3	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	4.7	2.8	1.1	6.6	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·4	5.2	3.4	7.8	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	2.7	(e) 2.7	(e) 2.1	(e) 7.1	(e) 91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	0.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	10.4	6.8	2.5	7.3	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12.5	7.5	1.5	6.8	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	6.6	5.0	3.2	7.7	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6.4	5.0	3.5	7.9	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	6.6	4.7	2.6	7.3	76	..	2.2	..	..	0	0	1	0	0	0	0	1	0	0	0	30	0
	1130	..	..	..	..	11.3	7.6	3.8	8.1	60	..	3.1	..	0	0	0	26	3	1	0	0	1	6	4	11	5	0
	1730	..	..	..	..	9.0	5·8	2.2	7.2	63	..	3.0	..	0	0	0	18	0	0	0	0	4	7	6	1	13	0
Okhaldhunga	0830	..	..	..	..	7.4	4.6	0.9	6.7	66	..	0·8	..	2·6	0	0	15	0	0	4	2	3	3	3	0	16	0
	1130					10·9	6.0	−0·2	6.2	48	..	1·1	..	6·0	0	0	28	1	0	0	1	6	5	11	4	3	0
	1730	..	..	..	..	7.8	5.0	1.6	6.9	66	..	1·7	..	6·5	0	1	25	0	0	2	2	2	17	0	3	5	0
Chainpur	0830	..	..	..	..	11.1	8.6	6.0	9.3	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12.3	9.8	7.4	10.3	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung (R)	0830																										
(R)	1730																										
Barahakshetra	0830	146	1018.4	1000.9	..	11.7	10.1	8.6	11.1	82	..	0.5	..	2.5	0	0	22	1	4	5	6	0	4	0	2	9	0
	1130	,,	1013.9	996.7	..	19.1	14.0	9.4	11.9	84	..	1.3	..	4.2	0	0	26	1	0	0	1	0	14	3	6	5	1
	1730	,,	1016.0	999.0	..	16.0	13.1	10.4	12.7	69	..	1.7	..	3.3	0	0	29	0	4	9	16	0	0	0	0	2	0
Tista Catchment																											
Gangtok	0830	1812	1511.8	819.8	..	5.9	4.7	3.5	7.8	85	..	4.1	..	1.0	0	0	10	2	3	0	2	3	0	0	0	21	0
	1130	,,	1500.2	819.2	..	10.5	7.3	4.2	8.2	66	..	4.1	..	3.0	0	0	25	2	1	0	5	7	6	4	0	6	0
	1730	,,	1485.7	817.5	..	7.9	6.3	4.6	8.5	80	..	6.2	..	1.4	0	0	15	0	0	0	3	9	1	1	1	16	0
Gezing	0830	..	..	..	..	9.4	7.4	5.5	9.0	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9.2	7.4	5.7	9.1	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

‡Data included under Nepal. (R) Register not available. (e) Mean of 26 days.

MONTHLY MEANS OF UPPER WINDS

January 1964 (Pausa 11—Magha 11, 1885 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0 21.0, 24.0, 27.0, and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Sl. No.	Station	Lat. N	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23° 53′	91° 15′	17	28th November, 1951	0530		1730	2330
2.	Ahmadabad	23° 04′	72° 38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25° 27′	81° 44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30° 23′	76° 46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14° 41′	77° 37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23° 41′	86° 59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19° 51′	75° 24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27° 34′	81° 36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12° 58′	77° 35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28° 22′	79° 24′	181	12th January, 1943	0530		1730	
11.	Begampet	17° 27′	78° 28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25° 14′	86° 57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23° 17′	77° 21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20° 15′	85° 50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23° 15′	69° 48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28° 00′	73° 18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19° 07′	72° 51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22° 39′	83° 27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09° 56′	76° 14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30° 19′	78° 03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27° 29′	95° 01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15° 25′	75° 38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27° 20′	88° 37′	1756	1st June, 1963	0830		1730	
24.	Gauhati	26° 05′	91° 43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24° 45′	84° 57′	119	19th March, 1937	0530		1730	2330
26.	Gopalpur	19° 16′	84° 53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26° 45′	83° 22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26° 14′	78° 15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24° 46′	93° 54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23° 10′	79° 57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19° 05′	82° 02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26° 49′	75° 48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22° 49′	86° 11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21° 55′	84° 05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26° 18′	73° 01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26° 45′	80° 53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13° 00′	80° 11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12° 55′	74° 53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08° 18′	73° 00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21° 06′	79° 03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28° 35′	77° 12′	227	20th October, 1936	0530*	1130	1730*	2330
42.	Poona	18° 32′	73° 51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11° 40′	92° 43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21° 14′	81° 39′	308	17th July, 1944	0530		1730	2330
45.	Raxaul	26° 59′	84° 51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26° 38′	88° 19′	140	7th June, 1953	0530		1730	2330
47.	Srinagar	34° 06′	74° 48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10° 46′	78° 43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08° 29′	76° 57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24° 35′	73° 42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15° 52′	73° 38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20° 54′	70° 22′	17	13th October, 1941	0530		1730	2330
53.	Vijayawada/Gannavaram	16° 32′	80° 48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17° 43′	83° 14′	10	24th September, 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

† Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·5	0·2	142	31	1·2	0·8	306	30	0·9	0·1	051	31	1·7	1·2	021	31	4·1	2·8	055	31	2·7	1·8	344
0·15 a.g. .	29	3·1	1·0	353	31	2·9	1·7	242	30	3·6	1·3	308	31	6·6	4·5	047	31	5·3	3·3	067	31	3·8	2·9	340
0·3 a.m.s.l. .	29	3·4	1·9	330	31	2·8	1·6	282	30	3·7	2·1	280	31	6·4	4·3	047	31	5·4	3·0	070	31	4·2	2·7	333
0·6 ,, .	29	3·4	2·1	308	31	3·0	2·1	270	30	3·9	2·6	277	31	5·5	2·6	052	31	5·1	2·1	056	31	4·4	2·3	344
0·9 ,, .	29	3·9	2·8	286	31	3·4	2·5	269	30	4·1	3·3	272	31	4·5	1·4	325	31	4·8	1·3	009	31	4·4	2·1	337
1·5 ,, .	29	7·0	6·1	280	30	6·2	5·6	284	29	6·2	5·6	282	31	5·7	4·1	280	31	6·0	3·2	265	31	5·7	4·0	291
2·1 ,, .	27	10·9	10·4	287	29	10·7	10·1	286	29	10·8	10·3	284	31	7·8	6·6	282	31	8·0	6·0	267	31	8·4	7·2	269
3·0 ,, .	25	16·3	15·7	286	28	17·1	16·8	284	20	14·7	14·1	285	31	11·9	10·9	272	28	11·8	10·4	270	31	11·6	10·7	270
3·6 ,, .	16	16·4	16·2	280	26	18·5	18·2	282					30	14·8	14·3	272	25	16·2	15·1	270	31	15·4	14·6	271
4·5 ,, .	3	17·8	17·3	280	19	23·3	23·0	277					30	20·8	20·3	268	25	21·4	20·7	272	31	20·5	19·8	270
5·4 ,, .	1	11·5	11·5	270	12	22·6	22·3	273					30	23·8	23·4	271	23	25·9	25·6	275	31	26·4	25·8	268
6·0 ,, .					10	21·8	21·5	277					28	26·2	25·7	269	21	30·2	29·8	273	30	28·7	28·3	269
7·2 ,, .					5	26·9	25·3	283					25	29·3	28·4	267	15	34·1	33·1	275	29	33·9	33·3	270
9·0 ,, .					3	32·5	32·5	288					14	31·6	31·1	265	4	34·1	33·4	274	15	38·4	36·9	269

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·6	1·6	342	31	0·4	0·2	281	31	1·5	0·6	305	31	1·6	0·9	308	31	0·4	0·2	299	31	1·7	1·2	316
0·15 a.g. .	31	7·4	5·2	350	31	5·2	3·3	332	31	3·8	1·4	280	31	4·5	3·4	310	31	6·2	4·0	319	29	8·9	7·4	331
0·3 a.m.s.l. .	31	7·0	4·6	350	31	5·2	3·3	332	31	3·7	1·8	285	31	4·5	3·5	310	31	6·1	3·8	321	29	3·5	2·4	328
0·6 ,, .	31	5·4	3·4	348	31	4·9	3·1	349	31	4·6	2·3	295	31	4·1	2·9	324	31	5·5	4·0	306	29	8·4	6·7	327
0·9 ,, .	31	4·6	2·5	345	31	5·6	4·4	296	31	5·7	4·7	285	31	4·9	3·7	308	31	5·9	4·9	292	29	7·2	4·8	324
1·5 ,, .	31	5·3	2·3	301	31	8·0	7·1	280	31	7·7	6·8	280	31	7·3	6·5	283	31	8·0	7·1	279	28	6·2	1·6	281
2·1 ,, .	30	7·8	5·6	282	31	11·1	10·2	277	31	10·1	9·2	273	31	9·9	9·5	275	31	10·1	9·2	272	26	5·3	1·2	210
3·0 ,, .	29	10·8	9·5	270	31	14·5	13·8	277	30	13·7	13·4	270	31	13·3	12·9	274	19	11·0	10·2	271	24	7·0	3·7	250
3·6 ,, .	1	9·5	9·5	250	31	16.9	16·2	277	29	16·6	16·2	275	31	17·6	17·1	272					22	9·6	7·1	265
4·5 ,, .					31	23·0	22·6	276	29	22·4	21·6	272	31	21·6	20·8	274					14	15·9	14·7	267
5·4 ,, .					31	27·6	27·2	276	26	27·8	24·8	273	31	26·6	26.1	276					2	15·0	13·8	253
6·0 ,, .					30	30·0	29·7	275	19	30·8	30·6	272	31	27·9	27·5	275					2	16·3	15·3	265
7·2 ,, .					21	33·9	33·3	275	14	33·8	33·6	274	25	34·7	34·2	273								
9·0 ,, .					12	36·5	35·4	275	5	34·2	33·8	272	9	38·4	36·9	277								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·9	1·7	317	31	2·9	2·0	310	31	2·0	1·3	312	31	0·7	0·6	112	31	3·0	2·6	083	31	3·8	3·5	109
0·15 a.g. .	29	5·7	4·1	329	31	5·7	3·2	305	31	8·4	6·2	322	30	4·0	3·5	125	31	4·3	4·2	079	31	8·1	8·0	107
0·3 a.m.s.l. .	29	3·4	2·5	321	31	3·6	2·4	303	31	4·1	2·7	320												
0·6 ,, .	29	6·3	4·5	327	31	6·1	3·5	312	31	8·2	5·8	321	30	4·8	4·4	127	31	4·2	4·0	083	31	8·0	7·9	108
0·9 ,, .	29	5·8	3·2	323	31	6·1	3·0	304	31	6·7	3·7	318	31	6·0	5·4	108	31	4.2	4·1	089	31	6·8	6·6	107
1·5 ,, .	28	5·5	1·4	294	31	5·9	1·2	274	31	6·1	1·2	240	31	4·9	3·6	074	31	4·3	3·9	093	31	3·5	2·5	086
2·1 ,, .	27	5·9	1·9	233	29	5·7	1·6	233	30	6·0	2·6	222	31	4·4	2·8	038	31	3·8	2·2	074	30	4·4	1·0	046
3·0 ,, .	25	7·5	4·2	233	29	7·1	4·2	250	25	6·6	4·6	247	31	4·2	1·6	023	31	4·4	1·7	339	28	4·5	1·7	355
3·6 ,, .	24	8·8	6·9	247	25	7·9	6·2	257	2	7·0	6·3	255	31	4·3	1·6	352	31	4·5	2·2	315	20	4·2	1·0	028
4·5 ,, .	21	13·9	13·0	266	25	13·0	12·0	268	1	10·0	10·0	285	31	3·9	1·5	305	31	4·5	1·9	291	10	4·0	0·8	201
5·4 ,, .	21	21·8	21·0	266	20	20·7	20·1	268					30	5·0	2·5	270	31	5·5	3·3	277	2	2·3	1·9	027
6·0 ,, .	20	26·7	25·9	265	20	27·5	26·9	272					30	5·6	3·7	274	31	6·1	3·8	280	1	5·0	5·0	350
7·2 ,, .	12	35·8	35·3	268	4	31·7	30·9	260					27	8·7	6·9	277	26	7·4	5·4	285				
9·0 ,, .	4	34·4	34·0	271									20	13·0	11·1	269	18	13·1	11·3	280				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·4	0·4	317	31	1·5	1·3	322	31	0·4	0·3	308	31	0·1	0·1	360	31	2·6	1·5	268	31	1·1	0·8	331
0·15 a.g. .	31	4·8	2·7	328	31	4·0	2·9	319	31	6·0	3·8	357	31	3·5	2·2	046	31	4·7	2·3	266	31	5·6	3·5	015
0·3 a.m.s.l. .	31	5·1	2·9	335	31	4·0	2·9	317	31	6·2	3·8	355												
0·6 ,, .	30	6·7	3·7	315	31	4·2	3·3	301	31	6·0	3·4	325												
0·9 ,, .	30	7·1	5·3	291	31	4·7	4·0	297	31	5·5	4·0	279	31	4·2	1·6	062	31	4·6	2·0	257	31	5·6	3·6	018
1·5 ,, .	27	9·7	8·9	280	31	8·7	8·4	291	30	9·7	8·8	273	31	5·2	2·2	206	31	4·4	2·4	252	31	4·0	0·9	226
2·1 ,, .	26	14·6	13·3	287	30	14·3	13·8	290	29	13·9	12·9	283	31	7·1	5·1	226	31	5·0	3·3	256	31	6·4	5·0	213
3·0 ,, .	21	17·1	16·7	288	29	18·0	17·5	286	21	16·9	16·4	286	31	9·1	7·4	265	30	9·0	7·5	268	31	8·2	6·6	256
3·6 ,, .	16	17·9	17·5	289	26	20·3	20·0	287	10	17·7	17·3	284	10	10·9	10·3	274	30	11·8	10·6	274	10	10·3	9·8	262
4·5 ,, .	7	18·6	17·6	272	21	25·9	25·0	280	2	24·3	24·3	287					30	14·7	13·8	274				
5·4 ,, .	4	23·1	23·0	264	17	32·1	31·2	277									24	16·3	15·4	273				
6·0 ,, .	2	30·5	30·4	266	12	31·7	31·1	273									18	16·3	15·4	273				
7·2 ,, .	2	44·0	43·9	268	5	30·0	29·5	268									1	16·0	16·0	300				
9.0 ,, .					2	23·7	23·5	275																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0·5	282	31	1·4	0·8	268	31	1·4	1·2	276	31	2·9	2·8	087	31	3·1	3·0	088	31	2·1	2·1	092
0·15 a.g.	31	6·1	4·1	315	31	3·8	1·7	281	31	4·9	3·0	262	31	6·4	6·1	096	31	4·1	3·8	092	31	4·6	4·2	087
0·3 a.m.s.l.	31	6·6	4·7	315	31	4·0	1·8	282	31	5·0	3·1	279												
0·6 ,,	31	6·6	4·2	299	31	6·0	3·2	292	31	5·5	3·5	283												
0·9 ,,	31	6.5	5·1	297	31	6·5	3·6	299	31	6·0	4·5	288												
1·5 ,,	31	7·2	5·1	294	31	6·7	5·4	285	30	7·0	5·7	296	29	6·1	5·4	076	31	4·8	4·3	070	31	4·6	4·3	083
2·1 ,,	31	8·1	7·3	282	31	8·0	6·8	284	30	8·2	7·2	288	29	4·8	3·4	060	31	5·1	3·9	070	31	4·3	3·5	075
3·0 ,,	30	11·0	10·4	282	30	11·2	9·8	280	28	11·2	10·4	285	29	4·3	3·2	078	31	4·5	2·8	077	31	3·9	2·5	046
3·6 ,,	24	13·3	12·7	280	29	13·7	13·1	280	28	14·1	13·4	280	29	4·0	2·7	081	31	4·0	2·4	070	31	3·9	1·8	030
4·5 ,,	18	17·7	17·5	278	27	19·1	18·5	275	27	19·5	18·9	279	29	3·6	1·1	074	31	3·6	2·0	077	31	3·8	1·0	050
5·4 ,,	9	20·4	19·8	272	23	26·4	26·1	274	24	25·4	24·6	277	28	4·1	0·8	048	30	4·7	1·7	068	31	4·4	0·9	082
6·0 ,,	2	23·0	22·7	281	21	30·8	30·6	272	20	28·3	27·2	277	28	4·4	1·1	012	29	5·3	0·9	077	31	5·0	0·8	010
7·2 ,,					16	39·6	39·3	273	10	35·0	34·6	274	28	6·2	2·1	307	28	5·2	0·3	212	31	5·8	1·3	300
9·0 ,,					7	50·6	48·4	277	2	36·0	34·9	259	26	9·5	6·2	278	22	7·8	5·1	276	31	9·1	0·6	270

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·1	3·0	092	31	1·4	1·0	309	31	1·4	1·1	285	31	1·0	0·6	120	30	1·7	1·2	119	31	1·7	1·6	132
0·15 a.g.	31	9·3	8·3	109	31	7·7	5·5	317	31	4·3	2·9	283	31	5·4	4·1	147	30	3·2	2·5	120	31	6·9	6·3	124
0·3 a.m.s.l.					31	7·2	5·2	316	31	4·2	2·8	284												
0·6 ,,					31	8·6	6·3	307	31	5·3	3·8	291	31	3·8	2·5	139	30	2·9	2·2	124	31	4·6	4·3	124
0·9 ,,					31	7·8	5·6	302	31	5·8	4·2	293	31	6·8	5·8	138	30	3·0	2·1	123	31	7·4	6·8	133
1·5 ,,	31	6·7	6·0	085	31	6·2	4·2	297	31	5·8	3·8	291	31	3·6	2·0	125	30	2·7	1·6	135	31	4·5	2·7	140
2·1 ,,	31	4·3	2·3	041	31	6·5	5·3	283	31	6·3	4·5	283	31	4·7	2·7	334	30	3·1	0·7	232	31	4·5	2·2	275
3·0 ,,	31	4·5	2·8	060	28	9·3	8·4	274	30	9·3	8·2	274	31	6·5	4·2	286	29	6·6	4·8	282	29	7·4	5·7	292
3·6 ,,	30	4·1	2·8	069	24	11·8	11·0	274	30	12·4	11·8	271	31	7·7	6·0	279	28	8·2	7·2	285	17	7·9	6·5	295
4·5 ,,	26	4·4	0·9	080	17	19·1	18·5	270	28	17·1	16·5	270	31	8·9	7·4	280	27	10·0	8·9	282	2	11·0	11·0	285
5·4 ,,	12	4·4	0·7	095	7	21·8	21·0	273	24	23·4	22·8	270	29	10·3	9·5	274	26	11·4	9·8	276	2	12·7	12·7	258
6.0 ,,	8	4·9	0·6	041					20	26·1	25·4	271	25	10·7	10·3	273	24	11·4	10·9	271	2	9·0	9.0	270
7·2 ,,	1	3·0	3·0	180					5	28·7	28·3	277	5	9·4	8·4	246	16	12·9	12·1	272	1	13·0	13·0	270
9·0 ,,																	5	18·3	16·8	262				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWA			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·9	245	31	1·7	1·5	280	31	3·0	2·2	053	31	2·2	0·6	298	31	3·2	1·6	022	31	1·4	0·3	35[illegible]
0·15 a.g.	30	5·6	3·5	268	31	5·1	4·6	284	31	7·7	4·9	071	31	3·7	1·2	289	31	7·4	4·9	036	29	4·7	1·6	20[illegible]
0·3 a. m.s.l.	30	6·3	4·3	288	31	5·2	4·7	282													29	5·2	3·4	21[illegible]
0·6 ,,	30	6·7	5·4	295	31	5·9	5·5	281	31	6·7	4·0	064	31	3·4	0·9	291	31	7·3	4·6	036	29	5·1	3·4	215
0·9 ,,	30	6·9	6·5	285	30	6·9	6·6	279	31	7·0	3·0	078	31	4·6	1·2	293	31	6·2	2·9	028	26	3·9	2·2	245
1·5 ,,	29	9·8	9·1	283	30	9·9	9·7	282	31	6·1	2·7	255	31	4·6	3·2	260	31	5·4	3·0	236	26	5·1	4·0	325
2·1 ,,	26	11·8	11·3	290	27	12·1	11·6	284	31	9·7	7·9	255	31	9·1	8·0	257	31	9·3	7·6	248	25	5·9	5·2	320
3·0 ,,	18	14·7	14·5	290	24	16·6	16·3	285	31	13·5	11·4	255	30	13·3	12·8	265	31	12·6	11·0	259	25	8·3	7·8	300
3·6 ,,	7	15·0	15·0	290	22	17·9	17·5	285	30	16·1	13·6	262	30	16·3	15·7	267	4	17·6	17·5	256	24	9·9	9·0	286
4·5 ,,					14	23·6	22·9	282	24	19·7	18·6	268	28	20·1	19·7	268	1	21·5	21·5	260	10	12·4	12·0	280
5·4 ,,					8	31·7	30·8	279	18	22·4	22·0	268	22	23·8	23·7	275								
6·0 ,,					2	36·7	35·5	282	16	27·5	27·3	270	17	24·8	24·4	274								
7·2 ,,					1	50·0	50·0	265	13	33·5	33·2	273	6	20·9	19·3	268								
9·0 ,,									5	40·0	35·8	257												

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	2·3	160	31	2·4	1·0	180	31	0·6	0·4	332	31	2·8	2·1	358	31	1·5	1·2	330	31	0·6	0·6	360
0·15 a.g.	31	4·3	2·9	162	31	6·9	4·4	185	31	5·6	4·4	350	31	4·2	2·7	355	30	4·6	3·4	335	30	5·0	2·1	083
0·3 a. m.s.l.	31	4·3	1·8	166	31	7·0	5·1	190	31	6·1	5·5	022	31	4·3	2·6	350	30	5·2	4·2	346	30	4·0	2·7	087
0·6 ,,	31	3·4	1·7	192	31	5·4	4·3	203	31	6·1	4·1	011	31	4·0	2·6	342	30	5·3	4·2	001	30	4·8	2·0	060
0·9 ,,	31	2·9	1·3	258	31	4·3	2·6	243	31	5·3	3·6	350	31	4·3	2·6	336	31	5·2	3·7	355	30	4·7	2·0	346
1·5 ,,	31	4·2	3·3	308	30	4·2	3·5	300	31	5·5	4·2	297	30	6·7	4·6	295	30	6·1	4·1	310	28	5·3	3·5	307
2·1 ,,	29	7·6	7·2	308	29	7·0	6·6	312	30	8·2	7·0	284	31	9·2	7·4	281	30	8·3	7·0	278	28	7·3	6·4	277
3·0 ,,	29	10·5	9·8	292	29	8·3	7·7	301	30	12·0	11·3	274	30	13·6	11·4	273	30	12·1	9·8	271	26	12·5	11·9	268
3·6 ,,	28	13·0	12·4	284	9	8·7	7·1	303	6	14·6	14·5	282	28	15·5	14·9	273	16	12·7	12·0	266	25	15·8	15·2	268
4·5 ,,	22	15·8	15·3	280	1	17·5	17·5	280					27	19·7	18·9	279	1	15·0	15·0	210	23	20·8	20·4	269
5·4 ,,	13	17·6	16·9	275									26	23·0	22·3	271	1	15·0	15·0	235	15	24·9	24·4	273
6·0 ,,	6	15·0	13·5	277									24	22·9	22·2	271	1	18·0	18·0	230	7	24·4	24·1	277
7·2 ,,	3	12·0	11·9	255									7	36·5	36·2	282					1	29·5	29·5	295
9·0 ,,	2	14·3	14·3	278																	1	48·5	48·5	285

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·6	0·2	360	31	0·5	0·4	042	31	1·1	0·7	007	31	1·7	1·2	014	31	5·2	5·0	314	31	1·8	1·8	360
0·15 a.g. .	31	3·6	1·8	342	31	6·0	4·5	024	31	5·3	4·8	017	31	3·2	2·1	013	31	7·1	6·6	324	31	6·7	6·3	358
0·3 a.m.s.l. .	31	3·0	1·5	312	31	4·9	3·7	023	31	4·8	3·9	015	31	3·7	2·5	034	31	5·9	5·3	328	31	6·6	6·1	002
0·6 ,, .	31	3·8	1·5	350	31	5·3	2·9	035	31	4·4	2·8	011	31	4·0	2·1	045	31	4·6	3·7	329	31	4·7	4·1	006
0·9 ,, .	31	3·5	1·1	315	31	4·4	0·8	012	31	4·2	1·2	319	31	4·0	0·8	017	31	4·2	1·5	324	31	3·7	2·0	010
1·5 ,, .	31	4·1	2·5	284	30	5·3	2·9	245	31	4·6	1·4	201	30	5·8	3·1	202	31	5·5	1·7	197	31	5·2	2·3	188
2·1 ,, .	30	7·3	6·1	267	29	7·4	6·5	259	31	5·4	2·7	210	30	6·7	3·9	221	31	6·8	3·2	210	31	6·1	2·9	232
3·0 ,, .	30	12·9	12·2	267	24	11·8	10·5	272	31	7·0	5·1	270	30	9·2	7·4	271	31	7·6	5·8	255	31	7·8	6·3	266
3·6 ,, .	27	16·5	15·8	267	9	13·2	11·7	275	31	9·7	8·1	269	30	11·0	10·1	270	31	9·0	7·7	268	26	9·1	8·4	264
4·5 ,, .	25	21·5	20·3	267	1	17·0	17·0	280	31	12·3	11·6	265	28	13·6	13·0	270	31	12·3	11·9	263	15	11·7	11·5	271
5·4 ,, .	16	24·9	24·7	266					31	14·4	13·9	260	28	15·7	15·3	268	31	14·7	14·5	264	3	18·8	18·8	277
6·0 ,, .	13	28·0	28·0	269					31	16·9	15·7	260	27	16·9	16·5	265	31	15·6	14·4	259	2	18·0	17·9	272
7·2 ,, .									31	19·0	18·2	259	24	20·7	20·0	265	31	18·8	17·6	260	1	3·0	3·0	275
9·0 ,, .									31	22·4	21·1	262	16	26·5	25·2	260	30	27·9	23·3	259				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·4	006	31	1·2	0·4	328	31	0·3	0·1	270	31	0·7	0·1	146	31	1·5	1·4	063	31	3·5	3·4	272
0·15 a.g. .	31	4·5	1·7	024	31	3·2	1·5	344	31	3·1	1·2	311	31	4·4	0·4	086	31	4·8	3·9	075	31	5·3	5·1	275
0·3 a.m.s.l. .	31	4·8	2·0	003	31	3·3	1·7	336	31	3·0	1·4	313	31	4·2	0·6	261	31	4·3	2·8	062	31	4·8	4·5	286
0·6 ,, .	31	4·8	2·4	331	31	3·5	2·5	312	31	3·1	2·0	310	31	3·6	1·7	284	31	3·7	1·9	059	31	3·4	2.5	341
0·9 ,, .	31	5·0	3·4	300	31	5·3	4·1	296	31	4·0	3·0	299	31	4·5	3·6	287	31	2·9	1·8	070	31	3·7	3·1	022
1·5 ,, .	31	7·8	7·2	288	29	8·8	7·9	287	31	7·7	7·3	291	30	9·0	8·4	292	31	3·7	2·6	056	31	5·8	5·2	072
2·1 ,, .	31	10·9	10·6	293	27	12·2	11·5	292	30	10·6	10·3	296	25	11·5	11·0	298	30	4·8	2·5	088	30	5·6	4·5	083
3·0 ,, .	31	12·7	12·5	292	24	14·6	14·4	291	30	13·8	13·3	289	10	11·2	10·8	295	29	5·3	3·8	089	25	5·4	4·2	070
3·6 ,, .	31	15·3	15·0	285	19	16·1	15·7	283	30	16·2	15·7	285	1	8·0	8·0	295	18	5·5	4·7	089	23	6·1	5·1	083
4·5 ,, .	31	19·8	19·5	280	15	19·0	18·5	283	30	20·5	20·1	280					1	3·0	3·0	055	18	6·4	5·3	091
5·4 ,, .	30	25·7	25·6	279	11	23·7	23·4	280	29	25·8	25·3	278									7	6·9	6·9	080
6·0 ,, .	30	29·2	28·7	278	8	23·2	22·5	278	28	28·0	27·5	277									3	4·7	4·3	063
7·2 ,, .	26	35·3	34·8	276	4	26·6	26·1	270	27	33·8	33·3	275												
9·0 ,, .	15	37·5	36·0	273					15	36·8	36·0	279												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magh 11, 1885 Saka)

Station	COCHIN/ WILLINGDON †				DEHRADUN								DIBRUGARH/MOHANBARI											
Time in I.S.T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·7	049	31	0·5	0·3	012	31	0·9	0·5	244	31	0·4	0·2	045	31	0·7	0·4	041	31	0·9	0·7	050
0·15 a.g. . .	31	3·0	1·8	036	26	1·2	0·5	071	31	2·5	1·2	249	30	3·7	2·7	057	31	1·9	1·5	040	29	2·9	2·3	043
0·3 a. m.s.l. .	31	3·4	1·8	010									30	3·7	2·9	053	31	1·9	1·4	037	29	2·9	2·3	042
0·6 ,, .	31	3·7	1·8	031									30	2·5	1·5	031	31	2·0	1·4	057	29	2·3	1·5	065
0·9 ,, .	31	3·6	2·6	073	26	1·3	0·7	088	31	2·4	1·1	237	30	2·5	0·7	059	30	2·3	0·6	116	29	2·0	0·9	127
1·5 ,, .	31	4·0	3·6	088	26	2·3	1·4	125	31	2·7	0·2	130	29	2·4	0·6	182	29	2·7	1·1	237	29	3·4	2·1	221
2·1 ,, .	30	4·9	4·1	087	25	3·6	2·0	145	26	3·6	1·6	145	24	2·7	1·5	200	29	4·4	2·7	208	29	5·4	4·5	227
3·0 ,, .	25	5·9	4·5	088	25	5·6	1·9	200	21	4·8	2·1	243	20	2·8	1·3	194	26	5·7	3·3	203	25	6·9	6·6	221
3·6 ,, .	14	5·8	4.2	093	18	9·3	4·9	270	19	6·3	4·1	257	11	3·5	1·3	226	20	4·3	1·5	212	20	6·5	3·0	230
4·5 ,, .	3	5·2	3·5	047	9	16.1	15·0	271	18	11·3	9.2	267	5	16·0	11·9	288	16	11·9	10·4	262	15	13·1	11·6	259
5·4 ,, .	2	4·3	4·3	059	1	19·0	19·0	255	15	20·0	19·1	266	2	20·0	11·7	333	15	19·3	18·3	271	13	18·3	17·9	263
6·0 ,, .	1	4·5	4·5	180					14	25·1	24·2	267	1	18·0	18·0	285	14	18·5	18·3	274	11	17·2	16·8	271
7·2 ,, .	1	6·5	6·5	315					9	36·7	34·0	271					10	24·8	23·8	280	5	21·9	21·8	289
9·0 ,, .																	4	25·5	24·8	282	3	39·0	39·0	284

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I.S.T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·9	0·8	050	31	2·3	1·7	132	31	1·6	1·2	106	31	4·1	1·8	106	31	0·3	0·2	167	31	0·8	0·7	180
0·15 a.g. . .	26	3·6	3·0	013	31	4·7	3·7	133	31	2·9	1·8	109	31	7·1	3·4	106	22	1·3	0·8	177	27	2·7	2·2	175
0·3 a. m.s.l. .	26	3·4	2·6	041																				
0·6 ,, .	26	2·8	2·1	057																				
0·9 ,, .	26	2·7	1·9	078	31	5·6	4·7	127	31	3·0	2·1	107	31	6·9	3·7	102								
1·5 ,, .	26	2·7	0·6	183	31	5·1	3·5	117	31	2·8	1·7	103	31	4·7	4·2	098								
2·1 ,, .	26	3·6	2·3	228	31	4·3	1·1	090	31	3·4	0·8	082	31	4·2	2·6	095	22	1·5	1·0	174	27	2·4	1·8	180
3·0 ,, .	19	4·7	3·8	223	31	4·9	1·3	317	31	4·4	1·7	310	31	4·1	0·8	359	21	3·5	2·4	191	18	2·7	1·5	182
3·6 ,, .	10	5·1	3·7	233	31	4·6	2·0	304	31	4·4	2·0	306	30	4·3	1·4	320	19	7·9	6·7	262	9	5·3	5·0	260
4·5 ,, .	1	11·5	11·5	270	31	4·8	3·1	276	31	5.2	3·4	286	24	4·9	1·2	263	13	13·7	13·2	268	4	14·5	14·3	270
5·4 ,, .					31	6·0	4·5	272	31	6·1	5·0	276	16	5·4	3·4	255	8	16·3	16·1	273	2	36·0	35·8	262
6·0 ,, .					31	6·2	5·0	268	30	7·4	5·2	265	12	5·6	4·1	266	6	12·8	12·3	280				
7·2 ,, .					29	8·1	6·7	276	30	9·4	8·3	269	4	7·6	5·5	278	1	28·5	28·5	285				
9·0 ,, .					17	11·3	10·2	262	27	14·4	12·8	270												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

JANUARY, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	Calm			31	1·2	0·7	004	31	0·3	0·3	240	31	0·7	0·4	184	31	1·4	0·8	218	31	3·0	2·6	318
0·15 a.g.	31	1·9	0·7	195	31	2·4	1·1	005	31	3·1	1·2	342	31	2·5	1·2	215	30	5·1	3.2	285	31	4·8	4·2	307
0·3 a. m.s.l.	31	2·3	0·8	229	31	2·3	0·9	025	31	3·0	1·2	330	31	2·9	1·4	252	30	5·0	3·6	292	31	4·8	4·2	305
0·6 ,,	31	3·3	1·1	264	31	2·7	0·6	051	31	3·5	1·6	310	31	4·1	1·6	270	30	5·5	4·4	294	31	5·0	4·3	294
0·9 ,,	31	4·1	1·4	271	31	3·6	1·0	220	31	3·6	1·9	283	31	4·4	2·7	263	30	6·6	5·9	281	31	5·6	5·1	284
1·5 ,,	31	5·5	2·7	263	31	5·5	3·4	240	31	5·5	4·2	259	30	4·8	3·3	255	30	9·3	9·0	284	31	9·2	8·4	282
2·1 ,,	31	7·5	5·8	269	31	7·6	6·1	254	31	8·5	7·0	260	29	6·2	4·8	257	30	12·5	12·0	285	30	12·9	12·2	281
3·0 ,,	31	14·0	13·1	282	30	12·0	11·4	271	31	14·7	13·5	271	23	10·3	8·7	268	17	12·2	11·9	283	22	14·5	14·1	281
3·6 ,,	30	20·0	19·3	277	28	19·0	18·6	274	31	20·8	19·8	277	9	12·6	10·2	276	11	13·9	13·2	278	12	14·8	14·3	285
4·5 ,,	30	27·3	26·7	280	28	26·0	25·7	273	30	28·3	28·0	278	2	21·7	24·4	273	2	18·0	17·7	288	5	18·0	17·8	293
5·4 ,,	29	34·3	33·8	282	28	32·0	31·8	272	27	32·2	32·0	280	1	38·0	38·0	265	1	16·5	16·5	290	2	16·3	16·3	285
6·0 ,,	21	31·5	30·7	282	28	36·8	36·3	272	24	35·9	35·6	280												
7·2 ,,	14	30·1	29·4	282	22	38·4	37·7	267	15	31·0	30·7	278												
9·0 ,,	10	40·9	38·3	286	10	40·0	38·4	278	9	37·2	36·3	275												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·5	273	31	0·6	0·5	300	31	4·0	3·3	163	31	2·1	1·8	200	31	1·3	1·1	282	31	1·3	1·1	264
0·15 a.g.	30	5·4	3·9	316	30	4·0	2·1	261	31	6·2	5·2	164	31	5·7	5·0	195	30	6·1	3·8	298	31	3·8	2·9	268
0·3 a. m.s.l.	30	5·8	4·5	316	30	4·4	3·3	217	31	6·4	5·0	166	31	5·4	4·7	192	30	6·2	4·1	294	31	4·2	3·2	267
0·6 ,,	30	6·5	5·4	299	30	4·7	3·3	211	31	4·8	3·0	167	31	4·9	4·0	189	30	6·3	4·8	283	31	5·3	4·4	279
0·9 ,,	30	6·4	5·6	278	29	4·1	2·0	224	31	3·2	0·5	219	31	4·0	2·3	190	30	6·4	5·3	285	31	5·9	5·3	283
1·5 ,,	30	8·9	8·2	277	29	3·7	2·6	339	31	3·7	2·9	313	27	2·8	2·2	327	29	8·9	8·3	286	31	9·1	8·5	290
2·1 ,,	25	11·9	11·4	280	28	5·6	4·5	327	31	6·7	6·0	311	26	5·6	4·8	324	27	10·7	10·0	280	31	11·3	10·9	285
3·0 ,,	11	12·0	11·8	278	28	7·8	6·8	298	30	9·0	7·8	298	25	8·7	7·5	296	23	13·5	13·2	277	31	13·9	13·4	285
3·6 ,,					25	9·4	8·5	280	29	11·8	10·7	290	4	11·6	11·5	286	9	15·4	15·2	278	25	16·0	15·5	280
4·5 ,,					20	13·4	12·6	285	29	15·5	14·1	277					1	20·5	20·5	285	19	21·1	20·7	278
5·4 ,,					16	15·2	14·4	282	28	17·6	16·8	278									8	25·6	25·3	280
6·0 ,,					10	15·5	14·6	286	28	19·5	18·9	275									3	26·0	26·0	275
7·2 ,,					3	12·0	9·5	279	23	21·4	20·8	275												
9·0 ,,									19	25·4	24·7	271												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·1	280	31	1·5	0·5	320	31	1·7	1·3	330	31	0·3	0·1	294	31	0·4	0·3	355	31	1·7	1·0	27
0·15 a.g. .	31	4·7	1·9	022	31	2·8	1·4	310	31	3·4	2·5	338	31	5·0	3·8	019	29	2·4	0·3	355	31	2·6	1·8	26
0·3 a.m.s.l. .	31	3·5	1·3	008	31	2·5	1·3	334	31	3·3	2·5	338	31	3·8	2·8	017								
0·6 ,, .	31	5·2	2·2	359	31	3·3	1·5	303	31	3·6	2·6	330	31	4·6	2·4	356								
0·9 ,, .	31	4·9	2·6	299	31	4·1	2·6	274	31	3·7	2·8	298	31	4·5	3·2	293	29	2·4	0·7	021	31	2·6	1·9	26
1·5 ,, .	31	6·8	5·4	275	31	6·4	5·2	270	31	5·7	4·8	277	31	6·9	5·7	274	29	4·0	3·1	274	31	3·9	2·9	25
2·1 ,, .	31	9·0	7·9	271	31	8·9	8·2	270	31	9·3	8·6	270	31	8·9	8·2	270	28	7·2	6·5	268	30	7·7	6·7	27
3·0 ,, .	30	13·5	13·0	264	31	13·5	13·1	259	31	14·6	13·8	267	26	12·9	12·2	268	20	15·3	14·9	275	26	14·4	14·1	27
3·6 ,, .	30	16·5	16·3	263	31	16·8	16·5	262	30	18·5	17·7	270					13	18.5	18.3	275	23	18·3	17·7	26
4·5 ,, .	26	21·2	20·9	268	29	23·0	22·6	266	29	23·3	22·8	272									15	20·3	19·9	27
5·4 ,, .	19	24·9	24·6	265	29	27·6	27·2	268	28	27·7	27·4	273									6	21.3	21.0	27
																					4	22.9	22.7	27
6·0 ,, .	17	28·0	25·6	265	25	31·1	30·8	267	25	29·8	29·5	272												
7·2 ,, .	5	32·1	31·6	270	15	36·4	36·3	267	14	36·5	36·3	273									4	22.5	22.4	17
9·0 ,, .	2	27·5	27·5	259	1	67.0	67·0	270	2	46·5	46·4	278									3	32.0	31.3	27

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·6	2·0	272	31	1·0	0·8	303	31	0·5	0·2	092	31	1·4	0·7	351	31	0·6	0·4	063	31	0·2	0·2	140
0·15 a.g. .	31	4·4	3·5	273	31	2·3	1·8	285	31	5·1	2·9	067	31	3·6	1·9	330	31	6·3	3·6	042	31	3·4	1·6	175
0·3 a.m.s.l. .																								
0·6 ,, .									31	5·8	3·3	059	31	3·9	2·0	335	31	6·6	4·0	041	31	1·8	1·0	180
0·9 ,, .	31	4·3	3·4	272	31	2·3	1·6	289	31	5·5	1·8	034	31	4·4	2·3	317	31	5·2	2·6	032	31	3.5	0·8	175
1·5 ,, .	31	4·1	3·8	257	31	3·7	3·1	262	31	6·5	4·1	270	31	6·3	4·9	273	31	5·2	3·5	274	31	2·9	1·5	319
2·1 ,, .	29	6·9	6·7	256	29	7·4	6·8	269	31	10·1	8·9	260	30	10·0	9·2	259	31	10·2	9·2	257	30	5·3	4·3	322
3·0 ,, .	27	14·3	14·0	273	24	13·5	12·8	273	28	13·7	12·5	263	30	13·9	13·3	268	29	12·8	12·0	264	30	7·7	6·3	303
3·6 ,, .	23	17·2	17·0	273	9	16·0	15·3	273	20	14·5	14·0	274	28	16·5	16·4	275	15	12·7	12·4	281	30	10·1	9·1	283
4·5 ,, .	14	19·3	18·9	275	1	20.0	20.0	290	11	14·9	13·5	280	28	26·1	21·9	277					24	12·2	11·1	284
5·4 ,, .	9	21.3	20.9	273					5	12.8	12.7	284	21	25·5	25·2	273					12	11·0	10·0	279
6·0 ,, .	7	22.3	21.9	273					5	15.5	14.9	270	12	23·4	22·6	274					8	10·2	9·4	277
7·2 ,, .	5	23.5	22.2	273									4	20·4	19·6	270					3	13.5	10.1	274
9·0 ,, .	1	37.0	37.0	270									1	27·0	27·0	275					1	10.5	10.5	300

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·8	200	31	0·4	0·1	189	31	0·5	0·5	073	31	1·0	0·5	302	31	1·2	0·7	027	31	0·9	0·4	310
0·15 a.g.	31	2·9	1·4	215	31	4·5	2·2	276	31	4·2	2·9	066	31	2·8	1·4	291	31	6·3	3·4	015	31	3·3	1·4	340
0·3 a.m.s.l.																					31	3·3	1·0	330
0·6 ,,	31	2·3	1·0	210	31	3·2	1·3	266	31	4·1	2·1	062	31	3·1	1·7	291	31	6·3	3·2	011	31	4·1	1·1	289
0·9 ,,	31	2·9	1·2	236	31	4·9	1·8	296	31	3·4	1·5	305	31	3·2	2·0	293	31	4·3	1·3	334	31	4·0	2·4	269
1·5 ,,	31	2·8	1·7	293	31	2·8	1·6	318	31	5·7	4·8	269	31	4·2	3·5	279	31	3·1	2·8	253	29	7·5	6·9	280
2·1 ,,	31	3·4	2·2	315	31	2·6	0·4	339	31	8·1	5·0	261	31	8·0	7·0	273	31	7·2	6·0	256	29	12·3	11·6	287
3·0 ,,	28	7·1	6·0	295	31	8·1	6·6	296	30	12·3	11·7	261	30	14·9	14·2	271	29	12·7	11·9	268	19	15·4	14·9	287
3·6 ,,	27	10·2	9·4	285	8	9·2	8·5	301	26	14·9	14·4	266	30	17·6	16·9	270	25	14·7	13·8	271	10	19·5	19·1	280
4·5 ,,	26	13·8	13·1	282					13	15·9	15·9	286	30	21·3	20·7	268	6	19·2	18·3	273	2	17·0	16·9	296
5·4 ,,	20	15·0	14·7	283					7	17·6	17·4	269	25	30·2	25·7	270					1	28·0	28·0	295
									2	18·3	13·3	274	18	26·2	25·4	265								
6·0 ,,	17	17·3	16·7	275					1	23·0	23·0	260	11	31·7	31·5	271								
7·2 ,,	4	11·5	10·7	277									2	31·5	31·0	283								
9·0 ,,	1	13·0	13·0	280																				

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·6	337	31	2·0	1·8	025	31	1·4	0·9	244	31	1·0	0·4	053	31	2·3	2·1	037	31	2·3	1·7	041
0·15 a.g.	31	2·4	1·3	316	31	4·7	3·9	051	31	2·7	1·7	253	31	3·4	0·1	113	31	7·3	5·6	051	31	3·4	1·9	061
0·3 a.m.s.l.	31	2·4	1·2	308	31	4·5	4·0	036	31	2·6	1·7	255	31	3·0	0·7	076	31	6·7	5·5	043	31	2·9	2·0	046
0·6 ,,	31	2·7	1·7	285	31	4·2	0·9	059	31	2·6	1·8	265	31	3·3	1·3	247	31	5·4	1·9	021	31	3·8	1·8	037
0·9 ,,	31	3·7	2·8	272	31	3·5	0·9	268	31	2·8	2·2	270	31	3·5	2·4	263	31	4·5	1·9	293	31	3·9	0·9	324
1·5 ,,	31	7·3	6·6	281	31	5·5	4·9	281	31	4·7	4·1	285	31	5·6	4·6	272	31	5·9	4·3	270	31	4·9	3·3	271
2·1 ,,	31	11·0	10·5	286	31	8·8	7·9	291	31	8·1	7·7	291	31	8·2	7·6	281	31	8·0	7·2	270	30	8·1	6·9	200
3·0 ,,	27	15·9	15·1	285	30	10·8	10·2	292	27	11·9	11·4	289	29	9·8	9·3	286	30	13·1	12·0	270	30	14·0	13·4	264
3·6 ,,	25	18·8	18·1	280	21	11·0	9·9	291	24	15·0	13·7	289	8	9·1	8·9	291	18	15·2	14·3	272	30	17·9	17·2	268
4·5 ,,	16	22·9	22·1	278	12	14·3	13·5	282	20	18·2	16·6	285					7	21·5	21·3	271	28	23·7	23·2	271
5·4 ,,	8	20·6	19·0	278	7	14·7	14·4	272	14	21·0	18·1	286					6	26·8	26·7	271	24	29·5	28·7	272
6·0 ,,	4	20·9	20·3	279	3	10·8	10·2	258	11	22·3	21·9	277					5	25·5	25·2	265	20	32·8	32·3	271
7·2 ,,	2	26·5	26·5	282	2	9·3	8·0	268	4	20·4	19·0	266					3	25·8	25·7	270	13	37·4	36·8	272
9·0 ,,	1	12·0	12·0	285					1	20·5	20·5	265									5	48·8	47·4	270

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·1	0.8	004	31	2·5	2·1	023	30	2·7	1·5	283	31	4·2	3·1	293	31	2·9	2·0	295	31	1·6	1·5	045
0.15 a. g. .	31	4·6	3·2	359	31	7·9	6·1	026	30	7·7	4·4	319	31	4·5	2·7	295	31	7·9	6·0	305	31	4·0	3·5	055
0.3 a. m. s. l. .	31	4·4	3·0	359	31	6·8	5·3	025	30	7·3	4·6	321	31	4·6	2·8	293	31	7·9	6·1	306	31	4·1	3·6	060
0.6 ,, .	31	3·9	2·2	339	31	6·4	3·9	029	30	6·7	4·8	300	31	5·1	3·9	289	31	6·7	5·3	307	31	4·5	4·0	070
0.9 ,, .	31	3·6	1·4	325	31	4·9	2·1	061	30	6·9	5·6	292	31	5·5	4·3	290	31	6·8	5·2	302	31	4·9	4·3	072
1.5 ,, .	31	4·2	2·3	267	31	4·8	3·1	228	30	8·3	7·0	281	31	7·3	6·6	282	31	6·5	5·4	284	31	5·6	4·7	064
2.1 ,, .	31	7·9	6·7	263	31	7·5	6·0	254	29	9·9	9·1	281	31	9·5	8·4	276	28	7·3	6·2	278	31	5·1	4.0	065
3.0 ,, .	31	14·2	13·0	270	30	11·3	9·9	265	23	11·2	11·2	276	27	14·5	14·2	279	26	10·7	8·7	273	31	3·6	2·4	068
3.6 ,, .	29	18·4	17·6	267	11	14·1	13·5	270	14	11.1	10·1	276	26	17·5	17·2	275	8	9·2	7·1	253	31	3·0	1·7	077
4.5 ,, .	28	24·6	24·2	267	3	18·7	18·4	274	7	16·8	14·5	284	24	21·8	21·3	275					31	3·8	1·8	085
5.4 ,, .	27	27·9	27·3	262	1	29·0	29·0	265					21	26·6	26·2	275					31	4·0	1·0	066
6.0 ,, .	26	33·3	32·7	272									17	28·3	28·2	276					31	4·4	1·1	039
7·2 ,, .	18	38·0	37·6	273									8	39.2	39.0	276					31	5·9	1·8	310
9.0 ,, .	9	44·4	43·2	273									2	32.7	32.5	288					28	7·5	5·6	275

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·2	1·7	058	31	4·0	3·7	061	31	2·0	1·5	053	31	1.9	1.8	088	31	3.7	3.1	286	31	1.4	1.0	007
0.15 a. g. .	31	3·5	3·0	069	31	5·2	5·0	069	31	4.7	4.3	070	31	5.6	3.9	074	31	4.2	3.9	287	31	6.2	6·1	340
0.3 a.m. s. l. .	31	3·6	3·3	065	31	5·0	4·7	068	31	5.0	4.7	073	31	6.1	3.9	070	31	4.1	3.8	287	31	6.6	6.5	339
0.6 ,, .	31	4·0	3·6	060	31	5·0	4·5	067	31	5.2	5.0	071	31	5.5	2.7	070	31	2.5	1.5	345	31	5.5	5.3	336
0.9 ,, .	31	4·7	4·4	059	31	5·2	4·8	065	31	5.7	5.3	071	31	5.1	2.8	069	31	2.8	1.7	048	31	3.5	2.1	352
1.5 ,, .	29	5·5	4·9	062	31	5·5	4·4	058	30	6.4	5.3	066	31	4.0	2·9	092	31	5.1	4.5	074	31	5.1	4.5	085
2.1 ,, .	24	4·5	3·1	058	31	4·2	2·7	057	30	5.0	3.8	058	31	4.4	2.6	095	31	4.9	3.8	074	31	7.4	7.1	083
3.0 ,, .	22	4·0	2·2	018	31	3·8	1.7	036	26	4.4	2.5	046	31	4.4	2.1	070	31	4.1	2.3	063	30	4.7	2.8	067
3.6 ,, .	21	3·7	2·0	040	31	3·4	1·2	059	11	3.7	2.0	044	31	4.9	2·3	066	31	4.1	2.3	064	29	4.2	2.5	039
4.5 ,, .	20	4·1	1·3	071	31	3·8	1·2	051	9	4.3	2.3	062	30	4.1	1.6	091	31	4.2	0.9	062	16	3.4	1.0	055
5.4 ,, .	17	4·3	1·3	047	31	4·3	1·2	035	3	5.0	4.4	106	29	4.4	1.7	109	30	4.7	0.7	132	6	5.8	2.5	148
6.0 ,, .	15	3·8	1·6	075	31	5·2	1·7	336	1	2.5	2.5	360	29	4.9	1.2	097	30	5 0	0.5	066	4	4.1	3.9	118
7.2 ,, .	14	5·2	0·1	301	31	5·7	1·8	324	1	4.0	4.0	225	13	5.0	1.2	087	29	6.8	2.5	273				
9.0 ,, .	10	7·3	2·9	292	28	8·4	5·7	283					3	5.0	4.6	268	18	9.9	5.8	252				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	1·8	025	31	3·0	2·6	035	31	2·5	2·4	015	31	2·3	2·0	035	31	0·8	0·8	003	31	2·0	0·8	014
0·15 a.g. .	31	4·5	4·1	028	31	4·8	4·5	030	31	4·3	4·0	020	31	4·9	4·5	034	31	5·1	2·5	016	31	3·7	1·4	029
0·3 a.m.s.l. .	31	4·4	4·1	034	31	5·2	4·9	031	31	4·7	4·4	024	31	4·9	4.6	035								
0·6 ,, .	31	4·6	4·2	037	31	5·5	5·3	038	31	5·1	4·7	033	31	4·9	4·6	041	31	4·7	2·3	061	30	3·6	0·6	174
0·9 ,, .	31	5·0	4·5	058	31	5·6	5·4	054	31	4·9	4·5	041	31	4·8	4·4	055	31	4·2	1·4	167	30	3·5	1·2	210
1·5 ,, .	30	5·2	4·5	086	30	5·6	4·5	080	31	4·9	3·2	066	31	5·4	4·4	077	31	4·8	3·6	233	30	5·8	4·6	240
2·1 ,, .	29	5·6	4·6	102	29	5·8	4·3	103	31	4·9	3·6	084	31	5·7	4·5	093	31	6·8	6·1	256	31	7·0	6·1	258
3·0 ,, .	25	6·2	5·3	095	27	6·5	5·5	095	31	6·1	5·2	087	26	6·7	5·8	087	31	9·5	8·9	274	30	10·4	9·9	274
3·6 ,, .	23	6·7	6·1	087	26	7·1	6·4	091	31	6·5	5·9	087	24	6·7	5·9	092	31	11·1	10·6	281	29	13·6	13·2	278
4·5 ,, .	22	7·0	6·8	094	24	8·4	7·6	092	31	7·6	7·1	090	20	6·2	5·9	093	31	14.5	14·2	275	29	18·0	17·8	273
5·4 ,, .	20	8·0	7·5	088	23	9·2	8·9	094	31	9·4	8·9	095	13	7·4	7·0	088	31	18·0	17·4	275	28	21·5	21·1	272
6·0 ,, .	20	8·2	7·3	086	22	9·3	8·8	089	31	8·9	8·1	088	5	11·6	11·6	082	31	19·9	19·7	274	28	23·6	23·2	271
7·2 ,, .	11	5·4	3·2	055	20	8·8	6·5	084	31	8·4	6.3	082					31	22·6	20·0	273	27	27·2	26·9	272
9·0 ,, .	10	6·6	0·3	293	17	8·5	3·5	112	31	6·7	2·7	093					29	25·8	25·0	273	19	33·2	32·4	271

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·9	0·3	194	31	2·3	1·4	017	31	2·0	1·7	320	31	3·5	2·9	317	31	2·2	1·5	315	31	1·5	1·0	305
0·15 a.g. .	31	3·2	0·6	255	31	6·0	2·4	054	31	6·6	5·6	335	31	5·8	4·2	332	31	4·8	3·4	323	31	7·6	5·2	330
0·3 a.m.s.l. .									31	5·9	4·8	335	31	5·4	3·8	329	31	3·6	2·3	322	31	6·5	4·5	328
0·6 ,, .	31	3·1	1·1	218	31	5·7	1·7	074	31	6·7	5·3	332	31	6·2	3·5	325	31	4·9	3·2	318	31	7·3	5·0	327
0·9 ,, .	31	3·2	1·6	212	31	4·5	0·8	143	31	6·5	4·9	318	31	6·6	3·8	316	31	5·0	3·7	306	31	7·3	4·8	309
1·5 ,, .	30	3·5	2·3	248	31	4·8	3·6	247	30	6·7	4·5	292	30	6·8	4·9	295	31	6·1	4·3	295	31	7·3	3·8	270
2·1 ,, .	31	5·4	4·8	265	30	6·6	6·1	255	30	7·5	6·0	278	30	7·6	5·4	272	31	6·9	5·5	285	27	7·5	6·0	267
3·0 ,, .	31	9·6	8·5	276	30	9·9	9·5	270	31	10·0	8·9	267	28	10·5	8·7	270	31	10·1	9·2	274	20	9·3	8·1	275
3·6 ,, .	31	11·6	11·2	275	16	11·2	10·7	273	31	12·5	11·6	265	27	13·1	11·0	271	31	13·8	13·1	270				
4·5 ,, .	31	14·6	13·5	280	3	7·7	7·4	297	31	20·5	19·6	267	25	17·8	14·6	268	31	19·9	19·2	270				
5·4 ,, .	31	17·8	17·4	275	1	4·5	4·5	320	31	27·4	26·7	267	22	26·0	20·7	266	30	25·9	25·4	272				
6·0 ,, .	31	19·8	19·3	276					31	29·5	28·9	269	19	31·3	25·4	273	29	31·1	30·7	273				
7·2 ,, .	31	22·3	21·6	275					31	40·7	40·1	271	9	38·4	37·2	270	29	39·4	38·0	276				
9·0 ,, .	29	25·0	23·9	274					24	51·1	50·0	271					24	50·9	50·2	273				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				17[illegible]			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	
Surface	31	Calm			31	0·8	0·8	280	31	Calm			31	1·3	1·2	039	31	3·5	3·5	042	31	2·3	2·2	037
0·15 a. g.	31	2·4	1·0	095	31	4·2	2·3	285	31	3·8	1·3	267	31	6·1	5·9	035	31	5·6	5·4	038	31	6·8	6·5	040
0·3 a. m. s. l.													31	6·2	6·0	035	31	5·7	5·6	036	31	6·7	6·5	039
0·6 ,,	31	1·5	1·0	200	31	7·7	1·6	285	31	1·7	1·9	255	31	6·5	6·4	049	31	5·4	5·1	054	30	5·9	5·7	038
0·9 ,,	31	4·1	1·9	100	31	4·0	2·0	270	31	4·6	1·5	273	31	5·6	4·9	075	30	4·7	4·1	061	30	4·9	4·1	049
1·5 ,,	31	5·8	3·0	160	31	3·7	1·7	233	31	4·9	2·0	159	31	4·6	3·5	108	26	4·0	3·2	110	31	4·4	3·3	112
2·1 ,,	31	6·5	4·1	194	31	4·6	2·5	243	30	5·3	2·8	150	31	3·4	2·0	105	23	2·6	1·2	093	31	3·5	1·8	125
3·0 ,,	29	7·6	6·1	269	31	7·8	6·5	276	29	6·2	4·6	266	31	4·0	1·3	110	19	2·8	0·9	075	30	3·8	0·8	055
3·6 ,,	28	10·1	9·2	280	30	9·5	8·5	276	27	8·5	7·6	269	31	4·6	1·8	065	19	4·7	2·2	052	30	4·7	1·7	080
4·5 ,,	16	9·4	8·3	275	30	11·3	10·9	275	19	11·9	11·4	270	30	5·3	3·6	018	19	4·5	3·6	052	31	5·8	3·6	050
5·4 ,,	3	7·8	7·8	275	29	13·2	12·8	268	8	11·4	11·0	277	30	5·7	4·2	027	18	5·1	3·6	065	31	5·6	4·1	037
6·0 ,,					29	15·2	14.3	269	2	8·7	8·7	270	29	5·3	3·7	026	16	4·8	3·2	070	31	5·2	3·5	036
7·2 ,,					25	17·1	16·1	270	1	7·5	7·5	260	29	5·2	1·9	005	4	7·4	5·9	081	31	6·1	2·0	030
9·0 ,,					16	23·0	22·1	271					25	8·3	3·9	265					21	8·0	4·6	290

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·9	041	31	1·3	0·5	031	31	1·1	0·6	274	31	1·6	0·3	309	31	0·9	0·5	267	31	1·5	1·3	267
0·15 a.g.	31	5·9	5·8	040	31	4·8	2·8	054	31	2·6	1·2	270	31	4·4	0·4	032	26	4·9	2·6	281	31	4·5	3·8	265
0·3 a. m. s. l.	31	6·0	5·9	040													26	5·2	3·1	285	31	4·5	3·9	266
0·6 ,,	31	5·3	5·1	049	31	5·4	1·1	085	31	2·7	1·4	274	31	4·1	0·7	263	26	4·9	3·1	276	31	5·0	4·3	272
0·9 ,,	30	4·8	4·2	068	31	3·8	1·0	182	31	2·8	2·0	263	31	3·8	2·3	255	26	4·4	3·3	274	31	5·3	4·4	280
1·5 ,,	23	3·6	2·6	116	31	4·6	3·7	263	31	4·9	4·1	259	31	4·9	4·0	252	26	6·9	5·6	280	30	6·4	5·2	291
2·1 ,,	16	2·3	0·6	102	31	7·3	6·5	277	31	7·3	6·6	270	30	6·5	5·6	268	23	10·2	9·3	281	30	9·7	9·0	288
3·0 ,,	13	3·2	1·1	044	25	9·5	8·7	284	30	10·2	9·4	279	30	9·1	8·8	279	7	11·0	10·8	283	26	13·1	12·9	283
3·6 ,,	1	1·5	1·5	225	17	9·3	8·5	287	30	12·6	12·1	277	8	11·6	10·8	288	5	13·9	13·8	286	15	12·9	12·9	287
4·5 ,,	1	2·5	2·5	335	11	10·2	9·0	284	26	17·6	16·5	276					5	16·7	16·4	280	4	20·6	20·5	279
5·4 ,,					4	7·7	6·1	266	20	20·1	19·5	277					1	14·5	14·5	285				
6·0 ,,					4	9·3	8·7	257	15	19·4	19·1	275					1	14·0	14·0	285				
7·2 ,,					1	19·0	19·0	250	7	17·0	17·0	269												
9·0 ,,									2	17·0	13·3	284												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·4	036	31	1·3	0·9	218	31	1·4	0·7	336	6	CALM			5	0·8	0·7	159	31	2·4	2·2	009
0·15 a. g.	30	2·7	2·3	065	31	2·8	2·1	220	31	3·1	1·0	289	6	1·4	1·3	162	5	1·5	0·9	150	31	6·9	6·6	027
0·3 a. m. s. l.	30	2·8	2·6	072	31	2·8	2·1	223	31	3·1	1·1	270									31	7·2	7·0	033
0·6 ,,	30	2·7	2·4	082	31	2·8	2·1	232	31	2·9	1·9	277									31	7·1	6·9	049
0·9 ,,	30	2·5	1·9	087	31	2·7	1·8	238	31	2·6	1·2	284									31	6·8	6·4	052
1·5 ,,	29	3·7	0·3	003	31	3·3	2·2	272	30	3·9	0·9	279									31	5·8	4·6	057
2·1 ,,	28	6·7	4·7	281	27	6·8	5·7	279	25	7·2	6·1	278	6	1·3	1·0	142	5	1·2	0·3	202	28	4·7	3·1	075
3·0 ,,	25	15·6	15·0	277	26	16·8	16·2	278	16	15·5	15·3	277	6	5·1	3·1	156	5	2·6	0·6	175	27	4·7	3·4	087
3·6 ,,	18	17·2	16·8	282	21	20·5	20·2	282	2	23·7	23·7	272	6	6·8	6·7	160	5	4·9	2·0	174	27	4·6	3·6	083
4·5 ,,	8	18·9	18·3	285	15	25·4	25·1	279					6	8·3	7·7	206	5	5·6	2·3	198	25	5·6	4·9	084
5·4 ,,	3	16·7	16·4	295	12	29·1	28·8	282					6	13·0	11·7	232	5	9·0	6·9	257	21	6·0	4·9	083
6·0 ,,	2	19.3	19 3	295	4	19·3	19·1	279					6	15·3	14·0	251	4	11·3	10·3	250	20	6·0	4·9	079
7·2 ,,	1	9.5	9.5	300	1	24·0	24·0	260					6	19·2	17·5	257	4	17·5	15·7	258	18	7·3	3·2	045
9·0 ,,													5	30·2	29·8	270	4	23·0	22·0	263	5	7·2	5·1	338

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·6	3·3	068	31	3·4	3·0	050	31	1·4	0·8	050	31	0·9	0·3	310	31	2·0	1·6	229	31	0·5	0·4	222
0·15 a. g.	31	5·3	5·1	068	31	8·1	7·8	065	31	2·7	0·8	035	31	2·1	0·4	287	31	3·2	2·8	243	31	3·0	1·8	283
0·3 a. m. s. l.	31	5·5	5·4	066	31	8·8	8·5	066	31	2·6	0·6	061	31	2·0	0·2	270	31	3·1	2·7	256	31	3·0	1·9	277
0·6 ,,	31	6·4	6·4	057	31	9·2	8·9	063	31	2·3	0·7	117	31	1·8	0·5	360	31	2·5	1·4	262	31	3·0	1·1	340
0·9 ,,	31	6·5	6·4	052	31	8·2	8·0	049	31	2·6	1·5	069	30	2·4	1·3	032	31	3·1	2·1	027	31	4·1	3·2	045
1·5 ,,	31	6·5	6·0	042	31	6·7	5·8	041	31	3·8	1·0	071	23	3·1	1·6	061	31	5·5	5·1	048	29	5·4	4·9	054
2·1 ,,	29	5.6	3·6	046	31	5·0	3·1	043	31	4·1	2·2	106	20	4·3	3·1	099	31	5·2	3·6	061	28	5·1	2·9	069
3·0 ,,	29	4·8	3·2	059	28	5·1	3·8	077	31	5·2	4·2	097	16	5·0	4·1	100	31	5·4	4·1	083	25	5·7	4·1	105
3·6 ,,	29	4·7	3·5	080	24	5·5	3·8	079	31	6·5	5·5	094	16	6·7	6·3	101	31	5·8	5·1	087	19	5·9	5·0	101
4·5 ,,	29	5·7	3·9	084	13	6·1	5·0	084	31	8·0	7·5	091	14	8·1	6·7	091	31	7·9	7·3	088	11	6·8	6·5	083
5·4 ,,	25	6·3	5·1	087	9	7·0	4·9	070	31	9·2	8·6	088	12	9·3	9·1	090	31	9·5	8·8	087	4	9·6	9·1	090
6·0 ,,	23	6·9	5·4	078	5	6·2	5·7	082	31	9·5	8·8	085	12	9·4	8·8	096	31	8·6	7·7	086	3	11·3	11·3	073
7·2 ,,	21	7.4	4·4	084					31	8·7	7·3	083	11	9·5	7·3	079	31	8·5	6·8	081				
9·0 ,,	17	6.1	1.1	019					29	8·0	3·7	079	8	7·4	4·5	072	31	7·9	3·7	088				

7—407 D. D. G. Obs. Poona/67

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	CALM			31	0·3	0·3	236	31	CALM			31	0·5	0·5	007	31	2·3	1·9	274	31	0·8	0·8	360
0·15 a. g. .	31	2·4	1·3	354	31	2·8	0·2	206	30	2·8	1·1	353	31	5·5	4·4	014	31	4·6	3·9	289	31	5·7	5·5	359
0·3 a. m. s. l. .													31	6·1	4·7	010	31	4·0	2·9	291	31	6·5	6·1	356
0·6 ,, .													31	5·9	3·4	003	31	2·8	0·7	267	31	4·9	3·8	349
0·9 ,, .	31	3·0	0·7	319	31	3·0	0·6	230	31	1·9	0·7	357	31	4·9	1·7	025	31	2·8	0·8	094	31	3·7	1·1	345
1·5 ,, .	31	5·1	2·7	250	30	3·4	2·0	265	30	3·8	1·1	242	31	4·6	3·6	133	31	4·0	1·7	107	31	4·8	3·0	107
2·1 ,, .	31	7·6	6·2	260	30	6·6	5·6	274	30	5·7	5·0	253	31	4·0	2·0	150	31	4·8	1·4	091	31	4·6	3·1	102
3·0 ,, .	30	12·3	11·9	268	30	12·7	11·8	269	30	10·9	9·7	265	31	4·8	3·0	293	31	5·4	1·8	325	31	4·7	0·7	304
3·6 ,, .	30	14·3	13·6	268	29	16·7	15·9	267	7	12·5	11·6	266	2	4·0	1·3	284	31	6·0	2·2	295	11	4·7	3·7	279
4·5 ,, .	26	19·7	19·4	271	29	21·6	20·6	269	1	13·5	13·5	260					31	6·7	3·8	270				
5·4 ,, .	16	24·1	21·2	270	28	25·2	24·5	272									31	7·0	5·7	268				
6·0 ,, .	9	23·7	23·3	275	17	23·9	23·1	274									31	7·4	6·3	268				
7·2 ,, .	4	26·0	25·8	272	9	24·0	23·0	270									23	9·3	8·1	278				
9·0 ,, .	1	22·0	22·0	245	1	16·0	16·0	300									4	12·4	11·5	308				

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·5	4·2	009	31	6·5	4·7	305	31	4·4	3·9	357	31	1·5	0·7	060	31	2·6	1·9	131	31	2·3	1·6	158
0·15 a. g. .	31	9·9	9·1	019	31	6·5	4·5	309	31	10·5	9·0	006	27	3·3	2·0	142	31	3·4	3·1	129	31	5·9	5·1	166
0·3 a. m. s. l. .	31	8·5	7·3	015	31	5·9	4·0	328	31	10·2	8·2	008	27	3·6	3·0	153	31	3·5	3·2	130	31	5·6	4·9	154
0·6 ,, .	31	5·8	4·5	001	31	5·3	4·2	359	31	7·3	5·4	012	27	4·2	3·5	141	31	3·4	2·9	128	31	4·3	3·3	135
0·9 ,, .	31	4·6	3·4	346	31	5·1	4·4	360	31	4·8	3·2	022	27	4·5	3·7	117	31	3·4	2·5	112	31	4·2	3·0	107
1·5 ,, .	31	5·8	3·7	321	31	5·7	3·7	326	30	5·5	3·3	336	27	4·2	3·6	067	31	3·6	2·8	046	31	4·4	3·4	062
2·1 ,, .	31	7·6	5·5	289	30	7·0	5·3	289	30	7·2	4·4	295	26	4·5	2·1	011	30	5·1	2·7	358	30	4·8	2·3	020
3·0 ,, .	31	10·5	9·1	277	30	11·0	9·8	277	30	10·8	9·4	277	26	6·3	4·0	290	30	6·2	4·4	300	29	5·8	3·1	311
3·6 ,, .	13	12·8	11·8	272	30	13·6	12·6	274	12	12·4	11·7	267	25	6·5	4·9	285	29	6·8	5.6	290	19	5·9	4·3	293
4·5 ,, .	5	18·0	17·8	271	30	17·6	17·0	272	9	16·2	15·7	270	24	8·4	6·9	276	29	7·8	6·9	284	13	6·8	5·9	300
5·4 ,, .	4	21·5	21·3	270	30	21·7	21·3	269	5	19·1	18·6	264	24	8·9	8·3	272	29	9·2	8·5	277	5	8·1	7·5	277
6·0 ,, .					30	23·7	23·3	268	2	16·7	14·3	256	23	10·3	9·9	275	29	10·3	9·6	279	2	12·0	12·0	280
7·2 ,, .					29	27·5	26·9	266	1	10·0	10·0	230	20	12·0	11·2	272	25	11·9	10·8	274				
9·0 ,, .					15	34·6	34·1	267					10	18·7	16·7	270	16	16·5	15·7	269				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·0	1·8	346	31	1·5	0·7	166	31	1·9	0·5	025	31	0·2	0·2	090
0·15 a. g. .	31	3·8	2·8	341	31	2·4	1·2	157	31	1·6	1·1	026	31	2·3	1·4	203
0·3 a. m. s. l.	31	3·7	2·3	336	31	2·3	1·2	158	31	2·8	0·8	067	31	3·0	1·9	199
0·6 ,, .	31	3·3	0·5	180	31	2·0	0·6	143	31	3·4	1·9	141	31	2·8	1·4	200
0·9 ,, .	31	2·5	1·0	025	30	2·0	0·5	059	31	3·1	0·8	147	28	2·2	0·4	161
1·5 ,, .	31	3·6	1·5	027	29	3·5	2·1	029	31	3·4	2·1	005	25	2·9	1·9	013
2·1 ,, .	31	4·6	2·7	350	21	4·8	2·5	343	31	5·5	4·5	328	24	4·3	3·2	351
3·0 ,, .	31	7·0	4·6	298	18	7·4	4·7	298	31	7·7	6·1	288	23	6·6	5·2	295
3·6 ,, .	30	9·1	7·7	284	15	8·4	7·9	279	31	9·4	8·5	282	13	8·5	8·0	283
4·5 ,, .	27	11·9	10·8	288	14	10·0	9·5	279	31	11·7	10·4	281	11	8·1	7·9	280
5·4 ,, .	25	12·9	12·1	273	11	12·4	11·8	276	31	12·9	12·0	277	1	8·0	8·0	270
6·0 ,, .	25	14·9	14·2	275	10	13·7	12·9	277	31	13·3	12·6	274				
7·2 ,, .	25	17·3	16·5	275	10	15·9	15·4	283	31	15·9	15·1	273				
9·0 ,, .	23	20·1	19·3	272	9	19·3	18·8	276	29	21·9	20·0	270				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10.5	11	33·3	32·4	274
12·0	5	35·3	34·4	261
14.1	1	38.5	38.5	285
16.2	1	14.0	14.0	260
18.0	1	16.0	16.0	255
	1130 hr.			
10·5	1	55·5	55·5	255
	1730 hr.*			
10.5	8	40.4	39.2	272
12.0	3	37.3	37.0	267
14.1	1	20.0	20.0	260
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	5	49·1	48·0	275
12·0	2	31·3	30·5	262
14·1	1	49·0	49·0	260
	1130 hr.			
10·5	2	40·2	40·1	270
	1730 hr*			
10·5	2	23·5	23·5	269
	AMBALA			
	1130 hr.			
10·5	1	26·0	26·0	265
	ANANTAPUR			
	0530 hr.			
10·5	14	16·2	13·5	275
12·0	7	16·2	15·0	252
14·1	4	14·3	13·5	238
16·2	2	10·3	4·4	229
	1730 hr.			
10·5	9	18·2	15·2	276
12·0	6	18·3	13·7	277
14·1	1	14·5	14·5	265
	ASANSOL			
	1730 hr.			
10·5	1	23·0	23·0	285
12·0	1	38.0	28·0	265

Ht. in Km.	n	V	v	D
	BAHRAICH			
	1130 hr.			
10·5	3	55·7	53·9	273
	BANGALORE			
	0530 hr.@			
10·5	22	10·0	8·1	257
12·0	20	11·3	10·2	252
14·1	15	8·0	6·0	252
16·2	9	6·4	0·6	194
18·0	7	6·1	3·3	118
21·0	2	11·0	11·0	269
24·0	1	13·5	13·5	280
	1130 hr.			
10·5	14	12·8	9·7	266
12·0	11	14·7	11·2	270
14·1	6	8·7	7·6	274
16·2	2	5·7	5·5	160
	1730 hr.@			
10·5	25	12·0	6·8	262
12·0	23	11·1	9·5	250
14·1	18	11·9	10·4	263
16·2	14	8·1	3·1	281
18·0	7	8·3	0·8	266
21·0	3	9·3	6·0	257
24·0	3	19·8	19·8	265
	BEGAMPET			
	1730 hr.			
10·5	1	21·5	21·5	280
	BHOPAL/ BAIRAGARH			
	0530 hr.			
10·5	1	43·0	43·0	265
	BOMBAY/ SANTACRUZ			
	0530 hr.*			
10·5	31	26·1	24·5	259
12·0	30	27·8	26·0	256
14·1	12	29·2	27·3	258
16·2	2	30·3	29·3	244

Ht. in Km.	n	V	v	D
	1130 hr.			
10·5	7	30·1	29·0	263
12·0	2	35·5	35·5	260
14·1	1	34·0	34·0	260
	1730 hr.*			
10·5	29	28·2	26·6	254
12·0	28	31·2	29·4	253
14·1	16	28·2	23·1	252
16·2	5	22·0	16·8	268
18·0	1	9·0	9·0	275
	CALCUTTA/ DUMDUM			
	0530 hr.*			
10·5	7	35·6	35·1	279
12·0	6	41·6	40·8	276
14·1	1	29·0	29·0	285
16·2	1	12.0	12·0	250
	1730 hr.*			
10·5	7	4·36	41·7	285
12·0	4	30·6	29·6	273
14·1	1	25·0	25·0	255
	DIBRUGARH/ MOHANBARI			
	1130 hr.			
10·5	1	13·0	13·0	320
	1730 hr.			
10·5	1	34·0	34·0	285
12·0	1	36·0	36·0	285
	GADAG			
	0530 hr.			
10·5	8	14·6	14·3	260
12·0	6	16·7	16·0	240
14·1	4	20·3	18·4	253
16·2	4	17·9	13·3	294
18·0	2	6·5	4·7	248
21·0	1	3·0	3·0	150
24·0	1	5·0	5·0	350
	1730 hr.			
10·5	25	17·1	16·0	261
12·0	16	16·3	15·1	261
14·1	13	16·6	15·4	259

Ht. in Km.	n	V	v	D
	1730 hr.			
16·2	8	14·2	11·5	247
18·0	4	12·6	7·6	234
21·0	2	10·8	8·3	340
24·0	1	20·0	20·0	275
27·0	1	11·0	11·0	260
	GAUHATI			
	0530 hr.*			
10·5	6	48·4	47·5	292
12·0	5	50·1	49·4	285
	1130 hr.			
10·5	7	42·2	40·0	284
12·0	2	24·5	24·5	277
14·1	2	31·3	31·3	279
	1730 hr.*			
10·5	5	49·7	48·3	276
12·0	2	51·7	50·7	285
	GOPALPUR			
	1730 hr.			
10·5	12	27·9	27·4	270
12·0	3	30·3	29·5	260
	GWALIOR			
	0530 hr.			
10·5	1	20·0	20·0	250
	IMPHAL/TULIHAL			
	1130 hr.			
10·5	1	24·0	24·0	300
	JODHPUR			
	1130 hr.			
10·5	2	70·5	70·5	284
12·0	1	65·5	65·5	295
	1730 hr.*			
10·5	5	44·2	43·6	279
12·1	1	46·5	46·5	260
14·1	1	33·0	33·0	275
	MADRAS/ MINAMBAKKAM			
	0530 hr.*			
10·5	25	8·9	7·4	262
12·0	24	11·4	10·3	267

Ht. in Km.	n	V	v	D
	0530 hr.*			
14·1	19	10·9	9·0	255
16·2	6	11·3	5·3	230
18·0	1	10·5	10·5	265
	1130 hr.			
10·5	4	7·3	6·5	261
	1730 hr.*			
10·5	25	10·3	7·8	262
12·0	18	10·6	9·6	245
14·1	13	9·7	8·3	245
16·2	6	7·9	5·9	217
18·0	5	6·2	2·8	215
	MANGALORE/BAJPE			
	1730 hr.			
10·5	8	12·6	10·1	281
12·0	6	13·7	12·2	259
14·1	1	14·0	14·0	285
16·2	1	6·5	6·5	085
18·0	1	7·0	7·0	195
21·0	1	12·5	12·5	240
	MINICOY			
	0530 hr.			
10·5	9	6·8	0·2	259
12·0	7	6·6	2·2	200
14·1	2	10·5	6·5	038
	1130 hr.			
10·5	15	8·1	3·9	141
12·0	14	9·6	4·5	171
14·1	11	9·5	4·4	170
16·2	6	10·3	8·5	107
18·0	5	10·8	4·4	183
	1730 hr.*			
10·5	30	8·0	3·8	149
12·0	28	9·8	6·7	170
14·1	25	9·4	5·3	149
16·2	19	11·8	6·5	112
18·0	17	8·0	2·4	122
21·0	14	10·6	7·5	266
24·0	6	11·5	11·3	283

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 Km. above mean sea level

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

NAGPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	20	28·7	27·7	268
12·0	9	29·1	28·4	269
14·1	1	22·0	22·0	245

1130 hr.

Ht. in Km.	n	V	v	D
10·5	6	35·7	35·5	269
12·0	2	29·3	29·0	257
14·1	2	27·0	26·9	273

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	27·8	27·4	275
12·0	16	27·8	27·2	269
14·1	3	29·5	29·3	258
16·2	1	26·0	26·0	255

NEW DELHI/ SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	20	60·5	59·6	265
12·0	18	63·5	63·1	268
14·1	15	44·9	44·2	266
16·2	14	28·7	28·3	265
18·0	11	18·2	17·8	255
21·0	2	8·5	6·8	252

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	16	60·7	58·4	272
12·0	15	54·9	53·5	271
14·1	8	45·2	44·8	269
16·2	7	25·2	24·6	268
18·0	6	16·7	15·8	269
21·0	2	7·2	7·0	270
24·0	1	6·0	6·0	280

POONA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	25·6	25·2	262
12·0	5	23·6	23·1	258
14·1	2	15·5	15·1	257
16·2	1	13·0	13·0	240
18·0	1	4·0	4·0	270

PORTBLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	24	9·8	5·6	260
12·0	19	11·3	8·9	246
14·1	10	11·3	8·6	241
16·2	2	8·0	2·6	069
18·0	2	8·7	7·7	108

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	14	10·3	8·4	278
12·0	8	10·9	8·9	252
14·1	3	10·2	9·7	215
16·2	1	2·0	2·0	190
18·0	1	5·5	5·5	090

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	2	27·3	27·3	277
12·0	2	31·5	31·5	270
14·1	1	27·5	27·5	270

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	4	34·4	33·7	270
12·0	3	36·8	36·7	265
14·1	2	25·0	25·0	267

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	5·7	3·3	271

1730 hr.

Ht. in Km.	n	V	v	D
10·5	11	8·2	2·3	219
12·0	7	8·8	7·7	231
14·1	4	7·7	6·9	183
16·2	3	8·7	3·4	158
18·0	2	13·3	13·3	127
21·0	1	16·0	16·0	110

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	25	7·3	4·9	138
12·0	24	9·7	5·6	160
14·1	23	9·1	3·7	173
16·2	23	9·7	5·0	106
18·0	20	9·2	5·4	078
21·0	7	10·5	9·5	274
24·0	3	14·8	14·4	276

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	10·2	1·5	186

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	31	8·1	4·0	110
12·0	26	8·5	5·5	172
14·1	25	9·3	4·9	186
16·2	21	8·7	4·7	105
18·0	20	7·1	2·0	140
21·0	15	12·4	11·0	271
24·0	6	14·3	12·3	285

VERAVAL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	40·7	38·8	276
12·0	2	41·5	41·5	257

VIJAYAWADA GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	22·3	21·1	283
12·0	1	25·5	25·5	285

1730 hr

Ht. in Km.	n	V	v	D
10·5	7	19·8	19·7	260
12·0	1	22·0	22·0	265

VISHAKHAPATNAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	19	22·7	21·4	266
12·0	16	26·7	25.3	269
14·1	14	23·3	21·4	265
16·2	8	20·9	19·9	269
18·0	5	13·8	12·7	263
21·0	2	23·3	20·1	230

1130 hr.

Ht. in Km.	n	V	v	D
10·5	9	23·0	22·6	266
12·2	7	24·2	24·0	264
14·1	4	24·3	23·1	259
16·2	3	19·2	18·1	276
18·0	3	8·3	7·6	251
21·0	2	9·0	7·8	276
24·0	1	36·0	36·0	270

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	24·9	23·5	272
12·0	20	26·7	26·2	270
14·1	15	22·0	21·3	267
16·2	11	17·1	15·3	257
18·0	5	19·2	16·1	251
21·0	4	14·0	12·1	235
24·0	1	14·0	13·9	240

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July, 1961	00 and 12	Fan type up to 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September, 1954	00 and 12	Clock type up to 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1008 mb.)						ALLAHABAD/BAMHRAULI (1001 mb.)						BANGALORE (912 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	282.1	292	279	278.6	31	098	280.8	289	277	278.2	31	921	287.0	290	285	285.7
1000	31	126	..	..	..	..	31	135	..	..	..	..	31	140	..	..	..	..
900	31	1025	288.3	294	284	273.0	31	1022	285.5	293	279	272.8	31	1033	288.1	291	285	284.1
850	31	1508	286.1	291	282	270.4	31	1500	283.9	290	279	268.3	31	1519	288.9	292	282	278.8
800	31	2017	284.0	289	278	268.3	31	2002	280.5	286	277	268.6	31	2033	287.8	291	283	270.1
700	31	3122	279.5	283	275	260.8	31	3095	276.2	281	273	256.9	31	3155	284.0	287	278	263.2
600	31	4373	273.0	275	270	255.3	31	4329	269.0	273	265	..	31	4424	276.4	281	272	258.9
500	31	5810	264.0	267	261	..	31	5749	261.8	265	256	..	31	5884	268.1	275	264	254.7
400	30	7502	252.6	257	249	..	31	7425	250.6	256	246	..	31	7602	256.1	261	252	..
300	17	9579	238.9	243	234	..	31	9488	241.0	245	232	..	30	9707	242.0	248	235	..
250	16	10833	230.7	237	224	..	31	10741	230.2	239	223	..	29	10976	231.9	236	226	..
200	11	12290	219.9	225	213	..	30	12239	221.6	229	213	..	24	12430	220.4	227	214	..
175	10	13143	214.5	218	209	..	29	13086	217.9	223	213	..	23	13297	214.4	218	209	..
150	8	14104	210.4	212	207	..	24	14040	212.3	218	207	..	22	14255	208.0	212	202	..
125	6	15211	207.0	211	203	..	22	15176	208.2	215	201	..	18	15334	202.8	207	196	..
100	6	16561	202.8	205	199	..	21	16549	205.9	213	199	..	17	16666	197.3	201	188	..
80	..	..	..	..	..	..	18	17873	205.0	225	195	..	13	17950	199.0	208	189	..
70	..	..	..	..	..	..	15	18686	206.0	214	196	..	12	18755	202.3	212	194	..
60	..	..	..	..	..	..	9	19599	205.0	211	196	..	10	19652	204.8	214	197	..
50	..	..	..	..	..	..	7	20663	207.7	215	198	..	8	20728	208.3	218	199	..
40	..	..	..	..	..	..	5	22482	209.4	219	201	..	7	22106	210.6	219	204	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1012 mb.)						CALCUTTA/DUM DUM (1014 mb.)						GAUHATI (1010 mb.)					
Surface	31	013	289.5	295	285	284.0	31	006	287.6	294	280	285.2	31	049	284.0	289	280	282.6
1000	31	113	..	..	..	..	31	127	..	..	..	..	31	130	..	..	..	..
900	31	1026	292.3	297	287	275.3	31	1022	286.6	294	280	277.9	31	1016	284.0	290	280	277.6
850	31	1517	290.3	293	285	271.4	31	1503	282.9	290	278	275.3	31	1452	281.4	288	276	274.2
800	31	2033	287.5	291	282	268.7	31	2005	281.2	289	275	272.3	31	2008	278.3	285	273	271.2
700	31	3152	282.2	285	277	256.0	31	3099	276.6	284	273	260.5	31	3068	272.2	279	268	266.7
600	31	4415	275.9	279	271	255.0	31	4339	270.8	277	265	..	30	4291	268.8	282	262	..
500	31	5869	266.6	271	262	..	30	5769	263.3	269	258	..	29	5712	261.7	272	256	..
400	31	7576	254.6	259	249	..	27	7460	252.2	259	248	..	28	7389	251.2	258	245	..
300	31	9670	240.7	246	236	..	18	9529	238.2	241	233	..	20	9457	239.1	247	230	..
250	31	10932	231.4	236	225	..	15	10780	229.6	232	226	..	17	10709	231.8	239	224	..
200	31	12410	220.5	227	214	..	11	12252	219.9	225	216	..	12	12198	222.1	228	213	..
175	30	13261	214.2	221	207	..	7	13122	214.2	219	210	..	11	13058	218.5	223	210	..
150	30	14218	208.2	213	203	..	5	14093	211.0	215	207	..	7	14043	212.6	217	207	..
125	28	15323	201.8	208	191	..	..	..	..	..	..	..	5	15178	208.2	214	201	..
100	26	16628	198.1	203	194	..	..	..	..	..	..	..	..	..	..	..	..	..
80	22	17916	198.7	208	191	..	..	..	..	..	..	..	..	..	..	..	..	..
70	17	18694	202.0	214	195	..	..	..	..	..	..	..	..	..	..	..	..	..
60	14	19613	205.2	212	197	..	..	..	..	..	..	..	..	..	..	..	..	..
50	14	20760	209.5	213	201	..	..	..	..	..	..	..	..	..	..	..	..	..
40	10	22097	211.8	214	207	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (991 mb.)						MADRAS/MINAMBAKKAM (1012 mb.)						NAGPUR/SONEGAON (979 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	282.3	289	274	272.3	31	015	293.2	296	291	291.9	31	311	286.8	291	283	279.5
1000	29	139	..	..	..	..	31	117	..	..	..	..	31	126	..	..	..	..
900	29	1019	284.8	292	278	267.2	31	1023	290.2	295	287	282.9	31	1026	291.7	296	288	278.2
850	29	1494	282.3	289	277	263.5	31	1511	288.7	293	285	274.9	31	1513	288.9	291	286	276.9
800	29	1994	280.0	285	276	259.4	31	2025	286.6	291	283	269.1	31	2025	285.1	288	273	274.3
700	29	3081	275.6	279	271	258.8	31	3145	283.5	287	280	259.7	31	3132	280.1	284	277	265.2
600	28	4313	269.4	274	264	..	31	4413	276.3	279	270	258.5	31	4382	275.3	278	271	256.1
500	26	5729	261.2	266	256	..	31	5860	267.5	272	262	..	31	5831	266.1	271	261	..
400	24	7411	250.5	255	246	..	31	7584	255.8	260	251	..	31	7534	254.1	258	251	..
300	21	9462	236.3	242	230	..	31	9679	240.3	245	235	..	31	9617	239.6	247	231	..
250	14	10701	227.6	235	221	..	29	10940	230.2	235	223	..	31	10876	230.5	238	221	..
200	14	12161	219.2	226	214	..	29	12410	219.1	224	214	..	31	12353	221.0	229	213	..
175	10	13014	214.0	219	210	..	29	13240	212.9	217	208	..	29	13200	215.8	223	211	..
150	10	13931	210.0	215	205	..	28	14204	206.1	211	200	..	28	14168	209.7	217	204	..
125	9	15109	206.6	210	203	..	22	15254	201.4	211	196	..	26	15233	205.4	210	201	..
100	8	16464	204.5	211	198	..	21	16593	196.0	201	192	..	26	16522	204.4	205	194	..
80	6	17819	205.1	208	201	..	14	17894	196.0	203	191	..	20	17925	200.9	207	196	..
70	6	18613	207.3	215	201	..	13	18725	199.6	208	196	..	17	18731	201.9	210	196	..
60	5	19553	211.6	221	204	..	12	19545	204.8	213	199	..	13	19692	205.3	215	196	..
50	..	..	..	..	..	..	8	20673	206.6	209	204	..	12	20792	208.7	221	201	..
40	..	..	..	..	..	..	6	22047	211.3	212	211	..	7	22089	212.3	225	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (992 mb.)						PORT BLAIR (1004 mb.)						SRINAGAR (846 mb.)					
Surface	31	209	281.0	289	276	277.0	31	079	295.7	299	292	294.2	6	1588	274.0	275	273	273.6
1000	31	141	..	..	..	..	31	113	..	..	..	..	6	223	..	..	..	..
900	31	1019	282.7	292	277	265.2	31	1033	292.1	295	289	288.1	6	1087	..	..	..	..
850	31	1492	280.6	288	276	260.2	31	1518	290.1	293	288	280.2	6	1549	..	..	..	..
800	31	1990	278.7	284	272	261.9	31	2034	287.6	291	285	276.7	6	2034	271.0	273	270	..
700	31	3070	272.6	277	265	256.0	31	3156	283.0	286	279	271.2	6	3085	267.0	271	263	..
600	31	4290	265.6	270	259	..	30	4422	276.4	280	271	264.1	6	4285	262.0	265	258	..
500	31	5631	256.6	261	251	..	30	5873	267.3	271	263	..	6	5665	253.5	259	249	..
400	31	7326	246.6	250	241	..	29	7583	256.3	261	250	..	6	7294	244.1	253	239	..
300	31	9352	234.0	243	226	..	27	9687	241.1	247	236	..	..	..	..	..	..	..
250	31	10583	227.3	236	218	..	27	10931	231.5	242	226	..	..	..	..	..	..	..
200	29	12050	220.2	226	208	..	24	12425	219.5	227	212	..	..	..	..	..	..	..
175	26	12912	216.3	225	205	..	23	13284	211.4	225	200	..	..	..	..	..	..	..
150	24	13875	212.5	215	206	..	23	14252	206.3	214	199	..	..	..	..	..	..	..
125	23	14999	208.4	215	201	..	19	15341	202.6	208	197	..	..	..	..	..	..	..
100	22	16345	205.5	211	199	..	15	16675	198.5	205	191	..	..	..	..	..	..	..
80	18	17692	207.2	212	201	..	12	17903	199.0	204	195	..	..	..	..	..	..	..
70	15	18519	209.1	218	202	..	8	18756	201.9	206	196	..	..	..	..	..	..	..
60	13	19445	210.4	219	201	..	6	19676	204.5	209	200	..	..	..	..	..	..	..
50	8	20574	213.9	224	208	..	5	20815	208.4	215	205	..	..	..	..	..	..	..
40	6	22036	218.8	231	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1003 mb.)						VISHAKHAPATNAM (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	296·7	298	295	293·8	31	041	295·0	297	293	292·2
1000	31	094	..	..	..	..	31	123	..	..	..	..
900	31	1013	292·8	295	289	287·7	31	1035	291·0	293	289	284·0
850	31	1504	290·3	293	287	283·5	31	1523	288·3	291	286	280·1
800	31	2021	288·8	293	285	279·3	31	2035	285·6	289	283	274·9
700	31	3145	283·1	286	281	271·7	31	3149	281·9	286	277	264·4
600	31	4411	276·1	279	275	267·2	31	4415	276·2	280	273	256·9
500	31	5866	267·5	271	265	..	31	5870	267·8	272	263	..
400	31	7581	256·5	260	254	..	31	7581	255·3	262	251	..
300	30	9686	241·7	245	237	..	30	9674	240·4	245	235	..
250	27	10948	231·5	235	227	..	30	10931	231·4	237	225	..
200	26	12425	219·6	226	213	..	30	12410	220·5	229	212	..
175	26	13260	213·5	220	206	..	30	13244	214·7	220	207	..
150	26	14225	207·0	214	201	..	30	14220	208·9	214	203	..
125	26	15293	201·2	207	196	..	30	15297	204·0	210	197	..
100	25	16620	196·0	203	190	..	29	16644	199·4	206	192	..
80	22	17895	196·0	208	191	..	24	17949	200·2	204	196	..
70	21	18671	198·7	205	194	..	20	18779	201·9	210	196	..
60	18	19607	202·8	215	192	..	16	19699	204·6	212	195	..
50	16	20631	208·6	218	201	..	14	20793	209·0	216	198	..
40	9	22026	209·9	214	205	..	5	22195	210·6	215	203	..
30	7	23794	213·3	217	210	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1008 mb.)						ALLAHABAD/BAMHRAULI (1003 mb.)						BANGALORE (910mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	299.4	304	295	281.1	31	098	295.1	301	291	280.4	31	921	299.6	302	296	283.7
1000	31	121	..	..	..	..	31	123	..	..	..	..	31	086	..	..	..	..
900	31	1035	290.4	297	287	274.8	31	1025	287.4	295	283	273.1	31	1018	298.5	301	294	282.0
850	31	1521	287·2	291	283	269.9	31	1506	285.6	292	279	264.7	31	1516	293.4	297	289	278.6
800	31	2031	285.4	290	281	266.7	31	2012	283.1	289	276	260.7	31	2035	288.2	293	285	276.2
700	31	3141	280.0	282	275	260.5	31	3110	277.8	282	272	255.5	31	3158	283.9	290	279	263.0
600	31	4393	273.5	277	271	254.8	31	4349	270.5	276	265	270.5	31	4429	277.0	280	273	260.0
500	31	5833	264.7	269	259	259.5	31	5772	261.0	267	259	..	31	5889	268.2	272	265	255.6
400	30	7531	253.5	259	247	..	31	7453	251.5	257	247	..	31	7607	256.8	259	253	.
300	22	9607	239.8	246	229	..	31	9521	239.2	247	232	..	30	9716	242.0	247	236	..
250	20	10856	231.1	239	217	..	31	10784	232.2	241	226	..	25	10985	232.5	237	225	..
200	16	12346	221.6	228	212	..	30	12279	223.7	230	218	..	25	12467	220.9	226	215	..
175	13	13207	216.8	222	211	..	29	13145	219.0	225	214	..	24	13308	214.6	220	211	..
150	13	14171	211.2	216	207	..	27	14123	215.1	223	207	..	23	14274	208.1	215	204	..
125	10	15316	208.2	215	203	..	26	15257	211.3	221	205	..	22	15354	202.8	210	195	..
100	9	16682	204.2	212	201	..	22	16640	207 9	216	199	..	19	16691	197.5	204	193	.
80	7	18027	203.3	210	193	..	20	17999	206.7	215	199	..	15	18027	197.7	204	193	..
70	6	19746	209.0	215	204	..	19	18779	206.9	213	199	..	13	18772	199.6	208	197	..
60	..	..	..	..	..	..	18	19726	209.9	217	201	..	10	19686	201.4	203	199	..
50	..	..	..	..	..	..	15	20857	213.4	221	209	..	10	20771	204.8	207	200	..
40	..	..	..	..	..	..	13	22298	217.9	226	209	..	8	22150	207·6	209	204	..
30	..	..	..	..	..	..	8	24185	222.5	228	211	..	7	23885	211·9	214	209	..
20	..	..	..	..	..	..	6	26950	229.4	235	221	..	..	..	..	..	..	.
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1011 mb.)						CALCUTTA/DUM DUM (1013 mb.)						GAUHATI (1008 mb.)					
Surface	31	013	299.0	303	296	287.3	31	066	395.3	299	288	287.5	31	049	291.8	296	287	285.2
1000	31	107	..	..	..	..	30	115	..	..	..	..	31	114	..	..	..	..
900	31	1028	294.2	298	289	276.5	30	1026	289.9	298	285	278.5	31	1012	286.7	290	283	277.8
850	31	1522	291.3	295	287	273.5	30	1509	287.0	293	280	273.9	31	1491	284.1	289	278	274.6
800	31	2040	288.3	291	285	268.9	30	2018	284.2	291	279	271.6	31	1993	279.5	286	273	271.9
700	31	3162	282.7	285	279	260.8	30	3118	278.9	286	275	256.0	31	3075	273.0	285	268	262.5
600	31	4428	276.0	279	273	257.4	30	4369	273.0	277	268	248.7	31	4300	268.6	277	263	..
500	31	5880	267.0	271	261	..	28	5808	265.2	270	261	..	31	5720	261.7	267	258	..
400	31	7589	254.6	260	249	..	27	7508	254.1	259	249	..	28	7405	251.4	257	246	..
300	30	9678	239.6	245	230	..	15	9606	239.8	243	233	..	23	9470	239.0	248	233	..
250	29	10931	230.0	234	223	..	13	10871	231.1	235	223	..	21	10727	231.3	240	224	..
200	29	12401	219.3	224	212	..	11	12357	222.1	228	213	..	18	12215	224.2	233	217	..
175	27	13253	213.4	220	204	..	8	13207	215.9	224	210	..	12	13090	218.6	228	212	..
150	27	14204	207.5	212	200	..	7	14176	211.0	223	205	..	9	14023	212.9	218	207	..
125	27	15313	202.0	209	194	..	..	..	..	..	..	..	8	15121	206.5	215	195	..
100	26	16593	198.0	206	191	..	..	..	..	..	..	..	5	16429	201.4	210	192	..
80	24	17889	198.5	205	192	..	..	..	..	..	..	..	..	..	..	..	..	..
70	21	18664	200·2	207	195	..	..	..	..	..	..	..	..	..	..	..	..	..
60	18	19569	203·8	213	193	..	..	..	..	..	..	..	..	..	..	..	..	..
50	16	20682	207·5	221	203	..	..	..	..	..	..	..	..	..	..	..	..	..
40	9	22040	211·1	218	203	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

January, 1964 (Pausa 11—Magha 11, 1885 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (940 mb.)						MADRAS/MINAMBAKKAM (1011 mb.)						MINICOY (1011 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	295·0	300	290	276·7	31	015	299·3	301	298	292·2	31	002	300·7	301	300	294·9
1000	31	128	..	..	..	..	31	113	..	..	..	..	31	097	..	..	..	..
900	31	1026	287·2	294	282	269·9	31	1025	292·3	296	289	281·2	31	1019	292·6	295	291	287·6
850	31	1504	283·6	290	278	266·1	31	1515	290·2	296	287	273·2	31	1509	290·3	293	287	282·6
800	31	2001	280·4	287	275	265·0	31	2031	288·8	294	286	266·4	31	2026	288·3	291	285	277·6
700	31	3094	274·2	283	269	259·4	31	3156	284·6	289	279	260·9	31	3148	283·4	287	280	269·8
600	31	4335	271·3	273	263	..	31	4429	277·3	281	273	258·1	31	4414	276·0	280	272	..
500	31	5747	261·8	266	254	..	31	5884	268·5	273	265	258.0	31	5868	267·8	271	265	..
400	28	7426	252·1	257	244	..	31	7605	256·5	261	253	..	31	7585	257·2	261	253	..
300	23	9503	239·6	245	231	..	29	9706	240·5	245	237	..	29	10000	241·5	247	237	..
250	19	10762	231·9	237	221	..	29	10969	231·2	235	226	..	29	11298	237·5	241	222	..
200	16	12242	221·7	228	213	..	29	12444	219·5	224	213	..	29	12421	218·4	225	211	..
175	14	13095	217·8	224	211	..	29	13270	213·7	219	209	..	26	13253	212·1	221	205	..
150	14	14060	213·3	220	209	..	28	14246	207·3	212	203	..	25	14207	205·4	215	197	..
125	13	15273	209·7	218	202	..	27	15314	201·4	205	196	..	23	15276	199·4	209	191	..
100	13	16535	205·5	208	203	..	22	16646	196·1	200	192	..	23	16534	194·7	203	189	..
80	8	17842	206.1	209	201	..	21	17932	196·5	203	192	..	22	18625	199·3	207	189	..
70	6	18647	208·2	218	205	..	21	18713	200·0	207	193	..	20	19569	203·0	213	191	..
60	..	..	..	..	..	..	18	19639	203·2	209	191	..	19	20604	207·0	217	197	..
50	..	..	..	..	..	..	15	20710	208·4	213	203	..	11	21973	209·9	216	205	..
40	..	..	..	..	..	..	9	22045	211·3	217	205	..	7	23888	214·1	224	207	..
30	..	..	..	..	..	..												
20	..	..	..	..	..	..												
10	..	..	..	..	..	..												

	NAGPUR/SONEGAON (976 mb.)						NEW DELHI/SAFDARJUNG (991 mb.)						PORT BLAIR (1003 mb.)					
Surface	31	311	300·4	303	296	282·7	31	209	290·0	296	285	279·1	31	079	299·1	300	298	294·8
1000	31	091	..	..	..	..	31	133	..	..	..	..	31	101	..	..	..	..
900	31	1024	294·3	297	291	280·3	31	1023	284·0	293	279	271·1	31	1018	292·5	295	289	289·8
850	31	1516	290·0	293	287	278·3	31	1498	281·4	290	277	265·6	31	1509	290·1	293	287	285·0
800	31	2033	286·6	289	283	278·2	31	1997	279·3	287	275	263·4	31	2025	288·0	291	283	277·7
700	31	3141	280·5	285	277	275·4	31	3078	273·0	279	267	..	31	3148	283·3	287	277	269·9
600	31	4398	274·5	277	269	263·5	31	4298	266·1	271	261	..	31	4415	276·4	280	269	263·4
500	31	5845	265·6	270	258	254.8	31	5698	257·7	263	253	..	31	5873	267·9	272	258	263.3
400	31	7543	253·9	257	249	..	31	7351	247·2	251	242	..	31	7587	255·8	260	247	..
300	31	9625	239·1	243	233	..	31	9383	235·1	240	228	..	28	9684	240·9	247	235	..
250	31	10879	230·2	235	223	..	31	10671	227·7	235	218	..	28	10944	230·7	239	225	..
200	31	12359	220·3	227	214	..	30	12086	220·5	228	209	..	25	12411	219·3	226	214	..
175	31	13205	215·2	220	209	..	30	12942	217·3	238	208	..	23	13248	212·3	220	204	..
150	30	14173	209·6	215	205	..	28	13916	213·7	222	206	..	19	14212	205·6	215	196	..
125	26	15274	205·5	209	200	..	26	15042	209·6	218	202	..	17	15303	200·7	207	193	..
100	24	16619	201·1	205	196	..	23	16378	206·1	216	198	..	15	16609	196·5	199	192	..
80	19	17947	200.9	207	198	..	23	17725	206·5	214	199	..	9	17977	195·5	200	193	..
70	15	18746	201·9	207	196	..	23	18534	208·0	218	201	..	8	18629	196·0	204	184	..
60	13	19665	204·5	209	199	..	21	19469	209.2	216	200	..	..	..	..	..	..	..
50	12	20746	207·9	216	203	..	17	20595	212·3	221	205	..	..	..	..	..	..	..
40	7	22101	211·1	221	205	..	12	22003	216·8	229	207	..						
30																		
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

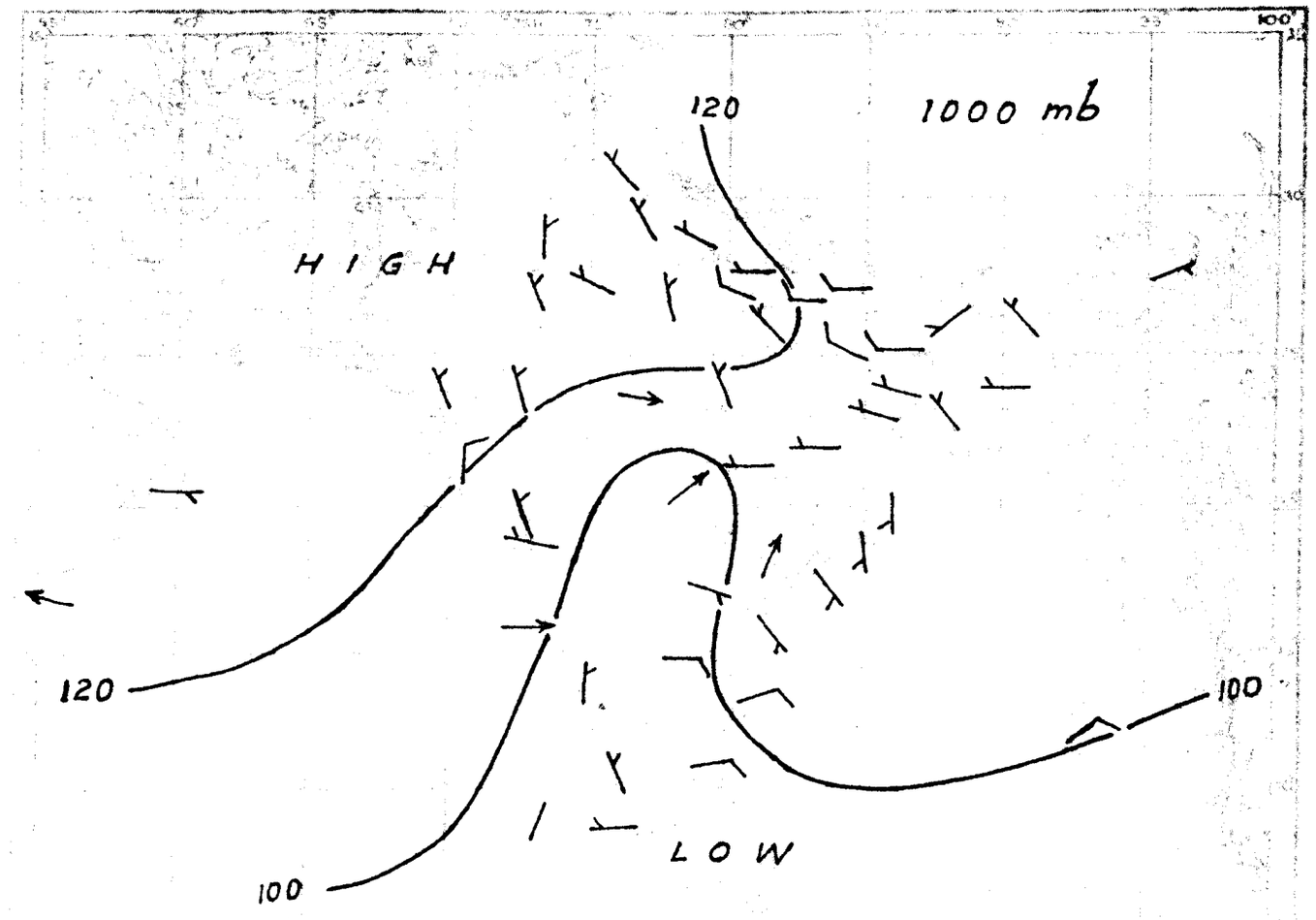
January, 1964 (Pausa 11—Magha 11, 1885 Saka)

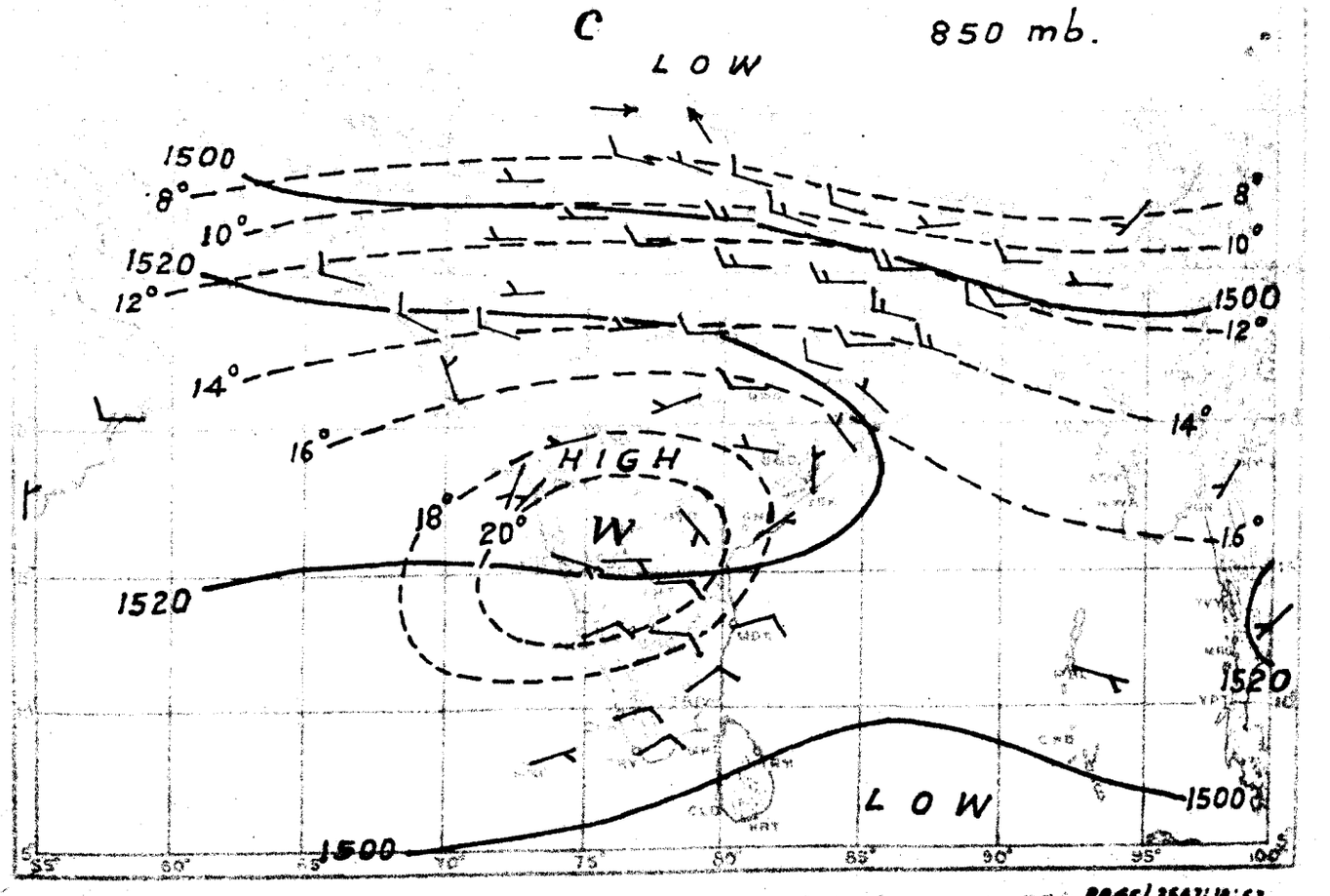
Standard Pressure Surface mbs.	SRINAGAR Surf. Pr. (846 mb.)						TRIVANDRUM (1002 mb.)						VISHAKHAPATNAM (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	5	1588	276·0	277	273	273·2	31	064	302·3	303	301	294·6	31	041	299·5	301	299	293.1
1000	5	206	..	..	..	..	31	084	..	..	..	..	31	113	..	..	..	..
900	5	1080	..	..	..	..	31	1012	294·4	297	292	288·9	31	1031	292.9	296	289	282.2
850	5	1547	..	..	..	..	31	1505	291·3	294	289	285·7	31	1522	290·1	293	287	279.5
800	5	2035	272·4	274	270	268·7	31	2024	289·1	292	286	279·6	31	2038	286.9	290	284	275.9
700	5	3092	268·8	270	268	..	31	3150	284·0	286	279	270·9	31	3155	282.9	286	279	261.2
600	5	4298	263·4	266	262	..	31	4420	276·4	279	273	264·0	31	4422	276.7	281	273	256.7
500	5	5683	254·4	261	251	..	31	5879	268·7	273	265	..	31	5882	268.0	273	263	..
400	5	7313	243·4	249	241	..	31	7601	257·7	262	254	..	31	7597	256.3	262	250	..
300	..	..	..	..	..	..	31	9713	242·5	245	239	..	30	9720	241.9	247	237	..
250	..	..	..	..	..	..	30	10980	231·9	237	227	..	30	10973	232.8	240	226	..
200	..	..	..	..	..	..	30	12458	219·7	224	214	..	30	12463	222.4	231	215	..
175	..	..	..	..	..	..	30	13292	213·2	218	209	..	30	13307	215.9	223	205	..
150	..	..	..	..	..	..	30	14256	206·4	213	201	..	30	14287	210.1	216	198	..
125	..	..	..	..	..	..	28	15320	200·5	206	196	..	27	15380	204.5	210	197	..
100	..	..	..	..	..	..	28	16641	195·3	202	192	..	24	16697	199.9	208	194	..
80	..	..	..	..	..	..	27	17928	197·6	210	191	..	20	18058	200.3	208	192	..
70	..	..	..	..	..	..	27	18712	201·6	214	193	..	18	18852	202.8	211	195	..
60	..	..	..	..	..	..	27	19629	206·3	216	199	..	14	19817	205.9	214	198	..
50	..	..	..	..	..	..	24	20738	210·9	217	204	..	11	20932	208.7	218	202	..
40	..	..	..	..	..	..	14	22110	212·6	217	207	..	..	..	..	..	..	..
30	..	..	..	..	..	..	7	23920	215.1	219	209	..	..	..	..	..	..	..
20																		
10																	..	

Note : Number of observation refer to those of dynamic height
Means are not worked out for temperature and dew point for the 1000 mb. Surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S3—407 DDG alp P/66—12-3-68—260

JANUARY 1964



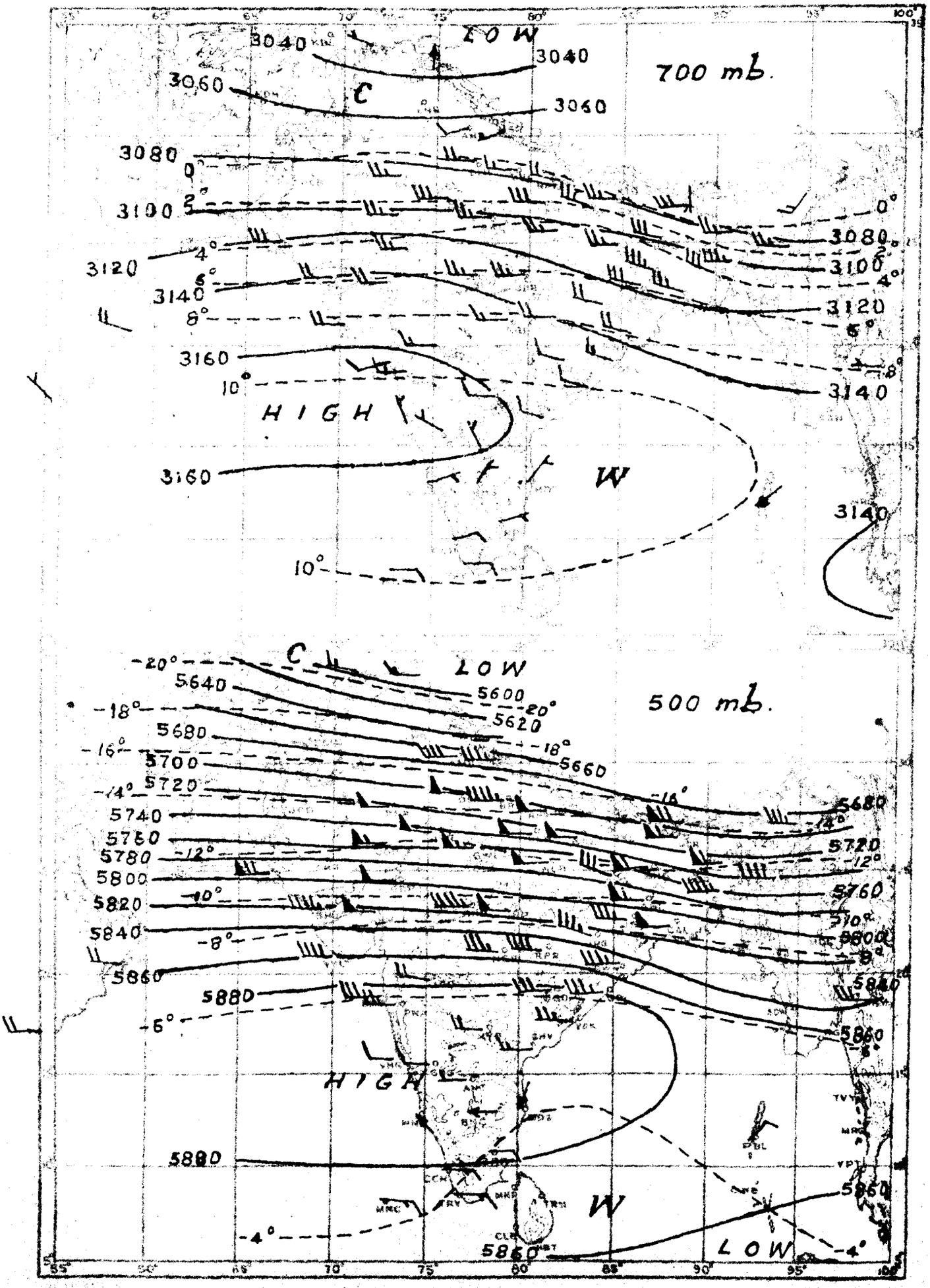


RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - Isotherms in degrees centigrade ———— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. JANUARY 1964 Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

FEBRUARY

Published by authority of the Government of India

Chief features—

i) Movement of five western disturbances across north India;

ii) A few spells of rain or thundershowers over parts of the Peninsula during the first and last weeks; and

iii) Abatement of last month's cold wave over the northern and central parts of the country.

Five western disturbances moved across north India during the month. Of these, the second and fifth disturbances were feeble and moved across the extreme north of the country as upper air troughs. The first western disturbance with the associated well marked trough in the higher levels upto 12 kms was fairly active and affected most parts of the north and central India during the second week. The third and fourth disturbances together with their induced lows similarly affected north India. The details of the movement and activity of the various western disturbances are given in the table given below.

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING FEBRUARY, 1964

S.No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1.	7th—12th	Baluchistan and adjoining Afghanistan—West Pakistan—Rajasthan—Madhya Pradesh—Bihar Plateau	Himachal Pradesh.	Fairly widespread rain.	10th	
			Punjab(I)	Local rain or snow.	10th	Joshimath 7 cm rain on 18th.
			west Uttar Pradesh	Scattered/local rain or snow.	9th, 10th, 11th	
			east Uttar Pradesh	Scattered/local rain.	10th, 11th	
			Bihar State	Scattered/local rain.	10th, 11th	
			Madhya Pradesh	Scattered/local rain	10th, 11th	
2.	14th—16th	Baluchistan and south Afghanistan—extreme north of the country	Jammu & Kashmir	Scattered light rain or snow.	15th, 16th	Feeble as upper air trough.
			The Punjab(I)	Scattered rain.	15th	
3.	16th—18th	Afghanistan—Western Himalayas	Jammu & Kashmir	Local/Scattersoed rain or snow.	17th, 18th, 19th	
			Himachal Pradesh.	Local rain.	18th	
			Punjab(I)	Scattered rain.	17th, 18th	
3(a).	17th—21st	West Rajasthan—Madhya Pradesh—Bihar Plateau—Assam	west Uttar Pradesh	Scattered/local rain or snow.	18th, 19th	Induced low.
			Bihar Plains.	Scattered rain.	19th	
			Assam.	Scattered rain.	20th	
4.	21st—24th	Northern divisions of West Pakistan—western Himalayas	Jammu & Kashmir	Scattered rain or snow.	21st, 23rd, 24th	
			Himachal Pradesh	Widespread/Local rain.	23rd, 24th	
			Punjab(I)	Local/scattered rain or snow.	23rd, 24th	
			west Uttar Pradesh	Scattered rain.	23rd	
4(a).	22nd—25th	Uttar Pradesh—Assam	Orissa	Scattered rain.	24th, 25th	Induced low.
			Gangetic West Bengal	Scattered rain.	24th	
			Assam	Local/fairly widespread rain.	23rd, 24th, 25th and 26th.	
5.	27th—29th	Afghanistan Western Himalayas	Jammu & Kashmir	Scattered very light rain or snow.	29th	Feeble.

A trough of low pressure which appeared over the central parts of the country and Orissa in the beginning of the month persisted till 8th. A trough in the high level westerlies also developed over east Uttar Pradesh and east Madhya Pradesh on 3rd and moved away eastwards across Assam by 6th. In association with these developments thundershowers occurred at a few places in the northeastern parts of the Peninsula and adjoining areas during the first week. Kalingapatam recorded 8 cm of rain and Angul and Jagdalpur 5 cm on 4th. Weather remained dry during the second and third weeks over the Peninsula. But with the slow warming up of the land, the seasonal trough of low pressure appeared over the Peninsula at the beginning of the last week causing a few light thundershowers over the northeastern parts of the Peninsula during the last week. During this period two feeble easterly waves also moved westwards across Comorin Ceylon areas causing spells of thundershowers in the extreme south Peninsula.

The cold spell which was affecting north India and adjoining central parts of the country since the middle of January continued till 4th February. The night temperatures over these areas, however, rose steadily and with the approach of the active western disturbance in the beginning of the second

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week of the month, they became above normal over northwest India by 9th and also over Uttar Pradesh and central parts of the country by 10th. They were generally above normal over most parts of north India and the central parts of the country during the third week but were again below normal during the last week particularly over northwest India. Over the Peninsula the night temperatures were generally above normal except during the middle ten days of the month when they were below normal on a few days.

The total rainfall for the month was in moderate excess in Orissa and normal in east Madhya Pradesh and north Interior Mysore. It was in slight defect in Assam and in moderate defect in Kerala. It was in large defect over the rest of the country outside Himachal Pradesh except east Rajasthan, Gujarat State, the Konkan, Madhya Maharashtra, Marathwada, coastal Andhra Pradesh and coastal Mysore, where there was no rain.

The mean maximum temperature was above normal in the Bay Islands, Bihar Plateau, east Rajasthan, east Madhya Pradesh, Telangana and the Arabian Sea Islands and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in the Bay Islands, Gangetic West Bengal Orissa and Telangana and below normal in east Uttar Pradesh and Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Arabian Sea Islands and below normal in Bihar Plateau, east Uttar Pradesh, west Rajasthan, west Madhya Pradesh. Madhya Maharashtra, Marathwada and Vidarbha It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, Orissa, the Punjab(I), Madhya Maharashtra, Telangana, Rayalaseema, and the Madras State and coastal and north Interior Mysore and below normal in Sub-Himalayan West Bengal, Bihar Plains, Uttar Pradesh, west Madhya Pradesh, Gujarat Region, the Konkan and south Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I. S. T. of the date given in the succeeding column.

POONA 5;
The 15th June, 1964.

R. ANANTHAKRISHNAN,
for *Director General of Observatories.*

—	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, & Tripura).	30·2	79	25·6	11·7	75	59	2·9	2·8
	−8·2		+0·8	+0·2	−3		−0·3	
2. West Bengal	5·3	23	28·7	15·6	67	50	1·7	1·7
	−17·3		+0·8	+1·1	−3		−0·2	
3. Orissa	36·0	138	30·1	18·6	72	61	2·8	2·8
	+9·9		+0·1	+1·1	+3		+0·9	
4. Bihar	8·9	38	27·7	12·4	64	47	1·5	1·6
	−14·4		+1·2	0	−3		−0·3	
5. Uttar Pradesh	4·9	24	26·1	9·3	64	37	1·4	2·0
	−15·5		+0·9	−1·0	−5		−0·5	
6. Punjab (India) (Including Himachal Pradesh & Delhi).*	4·8	16	22·9	7·7	71	39	3·2	3·1
	−24·7		−0·1	−0·7	−1		+0·7	
7. Jammu and Kashmir	16·7	35	7·7	−2·5	75	62	4·3	4·7
	−31·4		−5·8	−1·6	+5		−0·6	
Sub-division								
1. Bay Islands.	2·7	10	31·9	23·2	70	77	4·0	3·1
	−25·5		+2·2	+1·8	−1		+1·1	
2. Assam (Including Manipur, Tripura).	30·2	79	25·6	11·7	75	59	2·9	2·8
	−8·2		+0·8	+0·2	−3		−0·3	
3. Sub-Himalayan West Bengal.	0·2	1	26·2	11·5	70	45	1·1	1·5
	−15·0		+0·3	−0·2	−4		−0·5	
4. Gangetic, West Bengal.	7·2	28	29·4	16·8	65	51	1·9	1·8
	−18·1		+0·9	+1·5	−3		−0·1	
5. Orissa	36·0	138	30·1	18·6	72	61	2·8	2·8
	+9·9		+0·1	+1·1	+3		+0·9	
6. Bihar Plateau	15·9	42	28·3	13·5	58	45	1·8	2·0
	−22·0		+1·5	+0·1	−6		−0·3	
7. Bihar Plains	5·7	34	27·1	11·6	68	49	1·4	1·2
	−10·9		+0·9	−0·1	−2		−0·4	
8. Uttar Pradesh (East).	6·7	41	26·9	9·5	64	37	1·3	1·9
	−9·8		+1·0	−1·2	−6		−0·5	
9. Uttar Pradesh (West).	2·1	8	24·9	8·9	65	36	1·6	2·2
	−24·0		+0·8	−0·6	−3		−0·7	
10. Punjab (India) (Including Delhi).	4·8	16	22·9	7·7	71	39	3·2	3·1
	−24·7		−0·1	−0·7	−1		+0·7	
11. Himachal Pradesh	41·2		19·7	2·9	89	51	2·6	2·5
	..		..	..	..		..	
12. Jammu and Kashmir	16·7	35	7·7	−2·5	75	62	4·3	4·7
	−31·4		−5·8	−1·6	+5		−0·6	
13. Rajasthan (West)	0·5	8	26·3	9·8	47	27	1·9	1·4
	−5·6		−0·1	−0·7	−11		−0·2	
14. Rajasthan (East)	0	0	27·5	10·8	51	25	1·9	2·2
	−5·1		+1·1	−0·2	+1		+0·2	

—	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—contd.								
8. Rajasthan	0·3	5	26·9	10·4	49	25	1·9	1·8
	−5·4		+0·6	−0·4	−5		0	
9. Madhya Pradesh	9·8	72	29·5	12·6	52	28	1·4	1·9
	−3·8		+1·0	+0·2	−1		−0·2	
10. Gujarat State	0	0	30·5	13·7	58	35	0·9	0·7
	−1·8		+0·5	−0·7	0		−0·3	
11. Maharashtra State	1·1	27	32·2	16·2	49	30	1·2	1·3
	−3·0		+0·7	−0·1	−5		0	
12. Andhra Pradesh	0·5	5	33·1	20·4	71	43	2·6	2·6
	−9·0		+0·7	+1·0	+2		+0·6	
13. Madras State	2·8	18	31·5	22·2	75	54	3·9	3·1
	−12·9		+0·2	+1·0	−3		+1·1	
14. Mysore	2·3	59	32·3	18·6	63	34	1·8	2·2
	−1·6		+0·5	+0·6	−1		+0·2	
15. Kerala	12·5	57	32·1	23·4	74	65	2·8	2·9
	−9·5		+0·7	0	−3		+0·2	
Sub-division—contd.								
15. Madhya Pradesh (West).	1·4	19	29·2	11·6	46	24	1·2	1·7
	−5·8		+0·9	−0·3	−6		−0·3	
16. Madhya Pradesh (East).	20·5	94	29·8	13·8	60	34	1·6	2·1
	−1·2		+1·1	+0·9	−2		0	
17. Gujarat Region	0	0	32·8	13·8	51	20	0·6	1·0
	−1·5		+0·8	−0·4	−5		−0·4	
18. Saurashtra and Kutch.	0	0	29·0	13·6	61	45	1·1	0·6
	−2·1		+0·3	−0·8	+3		−0·2	
19. Konkan	0	0	29·2	18·7	68	62	0·8	0·9
	−0·8		+0·1	−0·7	0		−0·4	
20. Madhya Maharashtra	0	0	33·7	13·9	41	19	1·1	1·2
	−1·9		+1·0	−0·4	−7		+0·2	
21. Marathwada	0	0	33·1	15·9	31	15	1·1	1·1
	−5·3		+0·8	+0·3	−11		−0·1	
22. Vidarbha	3·8	38	32·9	17·1	45	23	1·6	1·7
	−6·2		+0·8	+0·7	−6		+0·2	
23. Coastal Andhra Pradesh.	0	0	32·1	20·9	77	58	2·8	2·3
	−12·0		+0·7	+0·6	0		+0·4	
24. Telangana	1·5	17	33·8	19·7	69	31	2·9	2·9
	−7·4		+1·1	+1·6	+5		+0·8	
25. Rayalaseema	0·1	2	34·3	20·3	62	29	1·8	2·7
	−5·0		+0·2	+0·8	+3		+0·6	
26. Madras State	2·8	18	31·5	22·2	75	54	3·9	3·1
	−12·9		+0·2	+1·0	−3		+1·1	
27. Coastal Mysore	0	0	31·7	20·0	73	61	3·2	3·0
	−0·9		+0·5	−0·9	−2		+1·2	
28. Interior Mysore (North).	5·6	108	33·3	18·9	54	26	1·6	1·8
	+0·4		+0·7	+0·9	0		+0·6	
29. Interior Mysore (South).	0·4	10	31·8	17·8	66	29	1·4	2·1
	−3·6		+0·3	+0·9	0		−0·6	
30. Kerala	12·5	57	32·1	23·4	74	65	2·8	2·9
	−9·5		+0·7	0	−3		+0·2	
31. Arabian Sea Islands.	3·5	36	31·6	23·7	80	67	3·1	3·1
	−6·3		+1·2	−0·4	+7		+0·3	

Note.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: all during hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830 1730 hours	Mean 25hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm).	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30·4	..	32·2	21	22·6	..	18·9	1	0	0	..	0	..	0	..	14·5	8·6	..	0	0	0	0	0	0	0	0	0	0	0
Long Island	30·3	..	32·7	20	21·3	..	16·4	11	0	4.2	..	4·2	24	1	..	6·7	3·4	..	0	1	0	0	0	0	0	0	0	0	0
Port Blair	31·9	+2 2	33·4	20,27	23·2	+1·8	18·9	1,10	2.7	2·7	−25·5	2·7	24	1	−1·0	10·1	8·4	−3·0	0	1	0	0	0	1	0	0	0	0	0
Car Nicobar	30·6	..	31·5	27	26·2	..	24·3	27	0	7.5	..	4·5	15	2	..	11.1	8·5	..	0	2	0	0	0	0	0	0	0	0	0
Nancowry	32.9	..	34·1	22,25	25.5	..	23·8	27	14·4	63·9	..	17·8	27	5	..	..	..	..	0	8	0	0	5	0	0	0	0	0	0
Kondul	28·6	..	29·2	24	26·0	..	25·6	26,27	51·4	119·2	..	25·6	27	13	..	..	..	..	0	17	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	22·7	..	27·2	29	13·6	..	10·3	8,9	9.3	90·3	..	24·4	20	7	..	10.7	15·3	..	1	9	0	0	3	0	0	0	0	0	0
Dibrugarh (Mohanbari)	23·8	+1·0	27·8	29	10·6	−0·8	5·7	1,2	1·4	77·0	+15·0	47·8	20	3	−3·2	6·3	3·8	+0·5	1	10	0	1	3	3	0	0	0	0	0
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	24·2	+0.8	29·1	26	11·2	−0.5	5·4	2	2·4	18·7	−35.5	11·8	20	2	−4·2	6·0	3·4	..	0	7	0	0	1	0	0	0	0	0	0
Sibsagar	23·9	+1.1	27·2	25,29	12·6	+0·6	6.8	1	4·8	29·9	−21·4	12·0	23	3	−2·2	5·9	2·8	−0·1	0	11	0	0	0	0	0	0	0	0	0
Gohpur	24·3	..	27·9	26	11·7	..	6·1	2	2·0	33·2	..	9·8	16	4	..	5·9	4·0	..	0	6	0	0	2	5	0	0	0	0	0
Majbat	26·0	..	29·7	25	11·3	..	5·9	1	0	6·1	..	6·1	16	1	..	7·6	4·8	..	0	1	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	25·0	..	28·5	26	11·9	..	6·2	1	0	26.7	..	9·7	21	3	..	..	..	..	0	4	0	0	3	0	0	0	0	0	0
Tangla	26.1	..	29·6	29	10·0	..	5·3	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	26·0	+1·3	31·7	29	13·5	+0·2	8·4	1	0	8·2	−19·2	6·6	23	1	−1·7	7·3	5·5	+1·8	0	2	0	0	0	0	0	0	0	0	0
Golaghat	25·0	..	30.0	25	12.5	..	6.7	1	0	9·2	..	9.2	23	1	.	3.7 (f)	2.5	..	0	1	0	0	0	0	0	0	0	0	0
Rangia	26.9	..	30·1	20,21	12·9	..	7·6	1	0	8·5	..	8·5	23	1	..	(i) 9·4	(f) 4·7	..	0	1	0	0	0	0	0	0	0	0	0
Chaparmukh (R)	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara	27·2	..	30·6	4 days	11.2	..	5·5	3	0	2·1	..	1·8	21	0	..	6·1	3·0	..	0	2	0	0	0	0	0	0	0	0	0
Gauhati (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	26·4	+0.8	32·2	21	10·9	+0·7	5·8	2	0	21·3	−8·4	9·8	23,24	2	−0·6	7·0	3·7	..	0	3	0	0	3	0	0	0	0	0	0
Dhubri (Rupsi)	27·0	..	31·6	20	10·9	..	5·0	5	0	5·5	..	4·8	24	1	..	8·7	5·8	..	0	2	0	0	2	1	0	0	0	0	0
Dhubri	26·4	+1·4	30.3	26	13·8	+0·4	8·9	5,6	0	5·6	−13.2	5·6	23	1	−0·5	10·5	7·5	+1·9	0	1	0	0	2	0	0	0	0	0	0
Lumding	27·7	+2·6	33·3	21	10·1	−0·1	3·9	1	11·4	11·4	−21·6	8·4	23	1	−2·0	5·5	3·5	..	0	3	0	0	0	0	0	0	0	0	0
Tura	26·1	..	30·4	29	11·5	..	6·3	5	0	0·3	..	0·3	23	0	..	5·9	5·3	..	0	1	0	0	0	0	0	0	0	0	0
Haflong	23·3	..	26·6	29	12·7	..	8·2	1,2	0	45·1	+6 2	30 5	23	3	−0 3	..	..	..	0	4	0	0	4	0	0	0	0	0	0
Silchar (Kumbhirgram)	26 7	..	31·0	29	13·7	..	7·8	2	5·1	42·0	..	12·4	23	5	..	6 8	8.5	..	0	6	0	0	6	0	0	0	0	0	0
Silchar	24·9	−2·1	29·5	18	14·0	+0·8	7·8	2	7·6	52·0	+4·0	20 6	26	5	+1·4	2·9	1·6	−0·8	0	5	0	0	6	0	0	0	0	0	0
Imphal (Tulihal)	23·6	+0·8	27·3	22	7·2	+0·7	2.2	1,2,3	4·7	30.4	−0·7	15·8	26	3	+0·3	10·0	5·7	−1·0	0	7	0	0	5	2	0	0	0	0	0
Kailashahar	27·9	..	32·8	21,23	12·1	..	4·3	1	28·1	62·4	..	29·1	24	4	..	7·6	4·5	..	0	4	0	2	5	1	0	0	0	1	0
Agartala	28·7	+0·2	34·0	23	13·3	0	7·2	2	7.8	32·7	+9·1	23·4	25	2	+0·3	9·4	5·8	+0·7	0	3	0	0	3	4	0	0	0	1	0
Sub-Himalayan West Bengal																													
Baghdogra	26·7	+0·1	31·0	23	9.5	−1·4	3·5	5	0	0	−2·3	0	..	0	−0·2	9·9	8.4	+3·6	0	0	0	0	1	0	0	0	0	0	0
Jalpaiguri	23·8	−1·1	27·8	20.29	11·6	−0·5	6·8	5	0	0	−17·0	0	..	0	−1·4	8·0	5·0	+2·9	0	0	0	0	0	0	0	0	0	0	0
Cooch Behar	26·6	..	30·4	29	11·0	..	4·9	5	0·1	0·3	−20·3	0·3	22	0	−1·8	7·2	3·7	..	0	1	0	0	2	7	0	0	0	0	0
Balurghat	28·4	..	34·3	23	12·0	..	6·3	6	0	0	..	0	..	0	..	4·2	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Malda	28·1	+1·8	37·8	26	13·5	+1·2	8·1	5	0	0·6	−20·5	0·4	19	0	−1·7	7·1	5·0	+0·3	1	1	0	0	1	0	0	0	0	0	0
***Gangetic* West Bengal**																													
Berhampore	29·3	+1·8	36·2	24	14·3	+0·7	8·9	5	0	0	−21·1	0	..	0	−1·7	1·1	0·7	−1·7	0	0	0	0	0	0	0	0	0	0	0
Suri	28.9	..	35·7	23	15·7	..	11·0	5	..	0	..	0	..	0	..	..	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Asansol	29·8	+1·9	36·9	23	13·9	−0·2	7·8	5	4·0	4·2	−27·5	4.0	11	1	−1·5	8·0	4·5	−1·3	1	1	0	0	1	0	0	0	0	0	0
Shanti Niketan	29·4	..	36·9	23	15·0	..	9·6	5	0	4·3	..	2·5	11	1	..	6·9	6·4	..	0	2	0	0	1	0	0	0	0	0	0
Krishnanagar	30·3	+2.1	35·6	22,24	15·7	+2·5	11·1	6	1.4	1·4	−27·8	1·4	5	0	−1·8	1.6	1·2	−1·5	0	1	0	0	0	0	0	0	0	0	0
Purulia	28·3	−0·7	35·4	23	15·6	+0·3	10·5	5	21.2	23·4	+10·3	17·2	11	2	+0·5	9·7	7·1	+3·4	0	3	0	0	0	0	0	0	0	0	0
Bankura	30·2	..	37·8	23	15.0	..	9.6	5	0	1·0	−28·0	1·0	1	0	−2·1	1·9	1·7	..	0	1	0	0	1	0	0	0	0	0	0
Burdwan	30·6	+2·1	37·0	23	16·7	+2·0	11·2	1	0	0·2	−33·3	0·2	24	0	−2·0	6·5	5·5	+3·1	1	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	28·3	..	33·9	23	16.2	..	10·6	5	11·0	25·4	..	15·0	24	2	..	..	..	..	0	3	0	0	3	4	0	0	0	1	0
Calcutta (Dum Dum)	29·7	+0·5	34·7	21	17·0	+1·8	11·4	5	16·8	18·7	+2 6	17·7	24	1	−0·5	7·5	5·3	+0·2	2	2	0	0	3	8	0	0	0	1	0
Calcutta	30·3	+1·6	35·5	20	18·5	+3·3	13·0	5	3·6	9·0	−20·7	4·7	7	2	+0.2	7·0	5·2	+1·0	0	4	0	0	3	3	0	0	0	2	0
Midnapore	29·9	+0·2	37·2	23	17·7	+1·5	13·2	1	0.7	7·1	−27·2	2.5	2	1	−1·0	5·8	4.9	+1·8	0	4	0	0	0	0	0	0	0	0	0
Contai	29.0	−0.4	35·2	21	18·8	+1·3	13·5	2	3.0	12.0	+1·0	5.0	24	3	+2·3	7·4	4·6	−2·1	0	3	0	0	0	3	0	0	0	0	0
Sagar Island	27·0	0	30·4	26	20·2	+2·1	14·0	2	1.1	2.2	−27·0	1.1	2	0	−1·8	13·0	13·4	+2·6	1	3	0	0	1		0	0	0	0	0
Sandheads	28·1	..	32·3	15	23·0	..	15·4	1	0	0	−14.2	0	..	0	−1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received

(i) Mean of 21 days.

(f) Mean of 25 days.

TABLE 11—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—FEBRUARY, 1964 (MAGHA 12—PHALGUNA 10, 1885 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunderstorm	Fog	Dust-storm	Ground frost	Cale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Orissa																													
Baripada	31·2	..	37·9	20	16·8	..	12·0	5	5·4	20·2	..	11·6	24	2	..	4·5	2.8	..	0	4	0	0	3	2	0	0	0	0	0
Jharsuguda	30·3	−0.3	35·7	22	16·3	+1.9	12·6	5	2·6	21·7	−1·7	18·0	1	2	+0·5	8·4	6·7	+0·3	0	2	0	0	2	0	0	0	0	0	0
Keonjhargarh	28·8	..	34·4	22,23	16·6	..	12·4	1	11·6	33·8	..	16·2	1	4	..	7.0	5·2	..	0	4	0	0	0	0	0	0	0	0	0
Balasore	30·3	+1·0	37·1	21	17·1	+0·7	12·5	2	24·8	27.8	−7·0	13·2	2	3	+0·6	9.8	6·6	+2.4	0	6	0	0	3	2	0	0	0	0	0
Sambalpur	29·4	−0·8	36·2	25	16·1	+0.9	10·6	25	0	26·4	+2.5	14·6	1	2	0	2·2	1·6	−2·5	0	2	0	0	0	0	0	0	0	0	0
Angul	30·5	+0·1	37·1	23	17·6	+1.3	14·2	15	0	94·1	+65·4	51·0	4	4	+1·9	7·7	6·9	+1·3	0	6	0	0	0	0	0	0	0	0	0
Cuttack	31·8	+0.6	37·3	20,21	20·4	+2.2	16·7	2	0·2	32·6	+12.8	26·8	4	2	+0·5	6·0	4·5	+2·1	1	4	0	0	2	4	0	0	0	0	0
Chandbali	30·5	+1.0	36·8	20	17·4	−0·2	12·0	1	15·0	11·0	−22·3	6·2	8	2	+0·2	10·4	7·8	+0·2	0	4	0	0	0	2	0	0	0	0	0
Bolangir	32·0	..	37·4	23,24	19·2	..	13·0	15	1.4	25.4	..	10.8	3	3	..	5·4	4·9	..	0	4	0	0	2	0	0	0	0	0	0
Phulbani	29·8	..	35·3	23	14·7	..	8·1	15	14·0	58·9	..	37·4	27	3	..	5·1	2·7	..	0	5	0	0	0	0	0	0	0	0	0
Titlagarh	32·7	..	37·7	21	19·2	..	14·4	16	1.0	56·8	..	43·2	3	3	..	3·8	3·1	..	0	4	0	0	0	0	0	0	0	0	0
Bhubaneswar	31·3	−0.7	37·1	21	19·6	+1·1	16·1	2	2.5	21·4	−3·3	16·2	4	3	+1·7	12·3	11·4	+0.4	1	3	0	0	6	6	0	0	0	0	0
Puri	28·2	−0.1	30·1	20	22·2	+1.6	16.6	2	23.8	36.4	+13.0	23.8	26	3	+1·8	17·6	16.5	+2·8	0	3	0	0	3	0	0	0	0	0	0
Gopalpur	28·8	+0·2	32·5	19	20.3	+0·7	16·6	4	4·0	53·0	+30·1	41·4	4	2	+0.8	15·1	11·8	−0·4	2	5	0	0	5	2	0	0	0	1	0
Koraput (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																													
Dumka	28·9	+2·0	36·1	24	13·3	+0·1	8·2	5	0	0·4	−23·5	0·4	11	0	−2·0	7.3	4.6	+2.2	0	1	0	0	0	1	0	0	0	0	0
Daltonganj	25·0	−1·6	27·0	16,22	10·7	−0.4	9·0	11,23, 27	1·4	18·9	−13·4	10·3	11	3	+0·6	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hazaribagh	25·5	+0·4	32·8	23	12·1	−0·2	6·4	5	10·5	19·0	−13·0	10·5	11	2	−0·5	9.8	7·8	−1·1	0	3	0	0	3	0	0	0	0	0	0
Dhanbad	28·7	..	36·2	23	14.2	..	10.0	28	7·4	7·4	..	7·4	1	1	..	3.0	4.4	..	0	1	0	0	0	0	0	0	0	0	0
Ranchi	27·8	+2·9	33·1	24	11·0	−1.8	6·4	5	18·0	24·0	−21·7	14·0	11	2	−1·4	8·1	6·7	+0·3	0	3	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	26·1	..	32·0	22	13·5	..	7·9	5	21·6	25·0	..	18·4	11	2	..	11·3	8·2	..	0	3	0	0	2	0	0	0	0	0	0
Jamshedpur	30·1	+1.6	36·1	20,22	15·7	+1·4	10·2	5	0.4	13·7	−35·8	7·0	24	2	−1.7	6·7	5·2	+1·5	0	6	0	0	1	1	0	0	0	0	0
Jamshedpur (P.B.O.)	29·8	..	36·2	23	15·5	..	9·6	5	0.6	10·4	..	4·8	24	1	..	6·6	4·2	..	0	5	0	0	1	0	0	0	0	0	0
Chaibasa	29·4	+0·6	36·7	22	15·3	+1·2	10·1	1,5	6.4	22·2	−15·7	12·4	1	2	−0·5	4·0	2·3	−0·3	0	4	0	0	5	0	0	0	0	0	0
Bihar Plains																													
Motihari	..	..	..	..	9·8	−0·2	4·4	4	1.1	1·1	−14.1	1·1	11	0	−1.4	2.9	(g) 1.3	−2.4	0	1	0	0	0	1	0	0	0	0	0
Forbesganj	27.0	..	31·2	24,29	10·7	..	4·9	5	0	2·6	..	1·6	22	0	..	7·8	5·0	..	0	2	0	0	2	1	0	0	0	0	0
Darbhanga	26·4	+0·9	31·9	25	12.4	+0·8	6.6	8	0	0	−13·5	0	..	0	−1.4	3.4	2.9	−0.5	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−14·5	0	..	0	−1·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	27·2	..	32·4	24	12·5	..	6·4	2	0·6	2·4	−14·9	2·4	11	0	−1·6	2.1	2·5	..	0	1	0	0	0	1	0	0	0	0	0
Purnea	27.2	+1.1	31·3	29	10·5	−0.4	3·8	5	0	1·8	−13.9	1·8	23	0	−1·3	7·0	3·7	+0·3	0	1	0	0	0	0	0	0	0	0	0
Patna	27·2	+1·8	33·5	23	13·2	+0·5	8·1	4	6.4	7·1	−11·7	6·4	11	1	−0·6	5·2	4·7	+0·2	1	2	0	0	0	3	0	0	0	0	0
Patna Aerodrome	26·0	..	31·6	24	10·6	..	5·6	4	6.4	7·0	..	6·4	11	1	..	7·1	3·2	..	1	2	0	0	0	2	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0·9	−20.2	0·9	10	0	−1·6	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bhagalpur	27.9	+0·5	34·8	23	13·5	−0·8	8.2	5	3·0	5·7	+2·2	4·4	11	1	+0·5	6·4	4·1	−2.2	0	2	0	0	1	2	0	0	0	0	0
Sabaur	26·7	+1.0	33.3	23	10·4	−0·4	4·4	5	3·2	5·2	−14·9	4·0	11	1	−0.7	7·1	3.9	−1.7	0	2	0	0	1	1	0	0	0	0	0
Jamui	27·5	..	34·9	23	12.3	..	6·1	5	2.2	9·6	..	6·4	11	2	..	4·0	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Dehri	27·1	..	35·3	23	13·4	..	7·6	5	6·3	19·6	−1·7	11·2	11	2	+0.2	6·2	4·8	..	0	2	0	0	0	2	0	0	0	0	0
Gaya	27·4	+1·1	35·4	23	11·1	−0·5	5·3	5	9·9	18·7	−2·9	14·9	11	2	+0·2	7·8	5.3	−1·1	0	3	0	0	3	2	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri	26·9	+1.1	32·3	23	9·9	−0.9	3·4	1	0	0	−12·4	0	..	0	−1·4	5·0	3·4	−0·1	0	0	0	0	1	0	0	0	0	0	0
Bahraich	27·3	+2.3	32·1	23	10·0	−0·5	3·1	1	1·5	2·3	−20·8	1·5	19	0	−2·0	7·4	4·7	+1.3	0	2	0	0	1	0	0	0	0	0	0
Nautanwa	27·5	..	32·0	22	8·4	..	2·8	3	0	0	..	0	..	0	..	5·5	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	26·3	+0.2	32·2	23	8.9	−1·8	2.2	3	4.3	10·9	+1·2	10·9	11	1	−0.1	8·0	5·4	0	0	1	0	1	1	1	0	0	0	0	0
Gonda	26·9	+1·3	33·0	23	7·6	−3·2	1·6	2	0	0	−23·1	0	..	0	−2·3	4·3	4·1	−0·9	0	0	0	0	0	0	0	0	0	0	0
Lucknow	26·9	+1.0	32.5	23	10·3	−0.5	4·0	1,2	0	2·0	−16.3	2·0	10	0	−1·6	2.0	1·7	−1·0	0	1	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	25·1	−0.3	32·8	23	6·4	−2.6	0	2	0.9	2·5	−15.8	1·6	10	0	−1.6	10·2	6·4	..	0	2	0	0	0	1	0	0	0	0	0
Faizabad	27·0	..	32·6	23	8·0	..	2·1	3	2·4	2·4	..	2·4	11	0	..	4·4	2·3	..	0	1	0	0	0	7	0	0	0	0	0
Gorakhpur	27·6	+2·2	33·6	23	11·1	−0·1	5·5	2	3.2	3·2	−12·8	3·2	11	1	−0·8	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	26.8	+1·8	32·7	19, 23	11·2	+0·6	4·3	3	2.2	8·2	−8·6	6·0	10	1	−0·6	12·6	8·2	+1.6	0	2	0	0	1	1	0	0	0	0	0
Kanpur (Aerodrome)	27·0	..	32·7	23	9·7	..	2·9	2	0	3·5	..	2·5	10	1	..	..	..	..	0	2	0	0	1	0	0	0	0	0	0
Sultanpur	27·4	..	33·5	23	9·8	..	4·1	3	4.4	4.4	..	4.4	11	1	..	4·7	3·4	..	0	1	0	0	0	0	0	0	0	0	0
Azamgarh	27·6	..	33·2	22,23	10·4	..	4·6	2,3	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	27·1	+0·5	33·7	19	9·3	−2.0	2·2	2	12.0	12·0	6·0	12·0	11	1	−1·4	7·9	4·9	+0·7	0	1	0	1	1	0	0	0	0	0	0
Ballia	27·1	..	33·0	22,23	8·7	..	2.6	2	4.6	6·8	..	4.6	11	1	..	5·5	2·6	..	0	2	0	0	0	0	0	0	0	0	0
Banda	28·0	..	33·9	19	11·5	..	5·8	26	0	0	..	0	..	0	..	3·0	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	27·6	+1·4	35·0	23	10·5	0	4·0	2	2·4	8·2	−7·8	5.8	10	1	−0·7	5·7	3·3	−1·8	0	2	0	0	1	2	0	0	0	0	0
Varanasi (Babatpur)	27.2	−0·1	35·2	23	9·4	−2.2	2·8	2	0	12·9	+5·0	9.3	11	2	+1·2	10·1	6·7	−2·4	0	2	0	0	0	0	0	0	0	0	0
Varanasi	27·1	+0.8	34·4	23	10·1	−1·1	4·4	3,4,6	6·6	18·0	0	11·4	10	2	+0·1	5·6	4·1	−0·4	0	2	0	0	0	10	0	0	0	0	0

(R) Register not received.

(g) Mean of 24 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																													
Mukhim	13.1	..	19.0	17	4.3	..	—1.3	3	23.2	45.2	..	19.0	10	5	..	..	..	..	0	6	0	0	3	0	0	0	0	0	0
Tehri	21.8	..	27.0	28	6.2	..	0.2	3	12.1	25.2	..	10.0	19	3	..	2.6	1.7	..	0	6	0	0	0	0	0	0	0	0	0
Dehra Dun	21·8	+1·1	25·8	22	7·9	−0·2	·2	2	1·2	10·0	−52·7	5·4	18	1	—2·8	4·2	3.8	+1·1	0	5	0	0	1	0	0	0	0	0	0
Mansiari	11.0	..	17.6	17	2.3	..	—4.0	1	..	52·4	..	18·3	10	5	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Roorkee	24·0	+1·5	28·3	21	7·7	−0·6	2·0	1,4	1·3	2·9	—35·7	1·3	23	0	—2·8	6·0	4·2	+0·7	0	3	0	0	1	0	0	0	0	0	0
Najibabad (R)																													
Meerut	24·6	+1·1	28·2	5days	8·3	−0·6	2·8	2	0	0	—25·9	0	..	0	—2·2	..	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	25·9	+2.0	30·2	17	10·6	+0·5	3·8	2	2·0	4·0	—20.6	2·0	11,18	0	—1·9	9·4	6·6	+3·4	0	2	0	0	1	1	0	0	0	0	0
Aligarh	...	..	..	..	8·6	—1·7	2·5	1,2	0	0	—19·3	0	..	0	—2·1	6·3	4·4	—1·2	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	26·6	+1·2	31·6	22,23	..	..	..	..	0	0	—13·7	0	..	0	—1.2	6·3	3·3	+0·6	0	0	0	0	0	0	0	0	0	0	0
Agra	25·9	+0·7	30·5	22	9·4	+0·4	2·2	3	0	0	—12·5	0	..	0	—1·1	2·5	1·8	-3·3	0	0	0	0	0	0	0	0	0	0	0
Agra Aerodrome	(a) 25·0	..	..	..	8.1	..	1.6	1,4	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai	27·1	..	32·3	23	10.3	..	4.3	3	0	2·4	..	2·4	10	0	..	6·4	5·0	..	0	1	0	0	0	0	0	0	0	0	0
Jhansi	27·6	+0·4	33·1	18	9·7	—1·7	2·4	1	0	0	—11·4	0	..	0	—1·1	3·8	3·1	—1·2	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	20·8	—1·4	25·6	28	7·6	—0·8	0.6	3	2·8	4·8	—37·1	2·2	24	0	—2·3	..	..	.	0	3	0	0	2	0	0	0	0	0	0
Amritsar (Rajasansi)	21·2	—0·9	25·5	27	5·8	—0.5	0	2	2·0	5 2	—10·7	2·8	23	1	—0 6	7·5	5·9	—2·0	1	3	0	0	1	0	0	0	0	0	0
Adampur (Aerodrome)	22·6	..	29·0	29	4·7	..	—3·4	3	0	3·9	..	3·1	23	1	..	..	..	..	0	2	0	0	2	0	0	0	0	0	0
Ludhiana	23·3	+1·5	28·0	29	4·8	—3·8	2·2	25,26	6·0	6·0	—28·3	6.0	10	1	—1·7	5·8	3·6	+0·9	0	1	0	0	0	0	0	0	0	0	0
Ferozepur	22·0	..	25·8	28	6·0	..	0	2	0	3·8	..	3·8	23	1	..	5·0	3·7	..	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	21·8	..	26·9	29	5·3	..	—1·4	4	8·4	11.2	..	9·4	10	1	..	..	..	..	0	2	0	0	0	1	0	0	0	0	0
Chandigarh	22·5	—0·9	27·4	29	9·8	+0·9	3·0	3	2·4	11·6	—13·9	7.6	23	2	+0·4	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Ambala	23.8	+1·0	28·8	29	9·1	+0·3	1·6	2	0·2	2·1	—45·4	1·6	22	0	—3·1	8·2	8·0	+2·7	0	0	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	23·6	..	29·6	29	8·0	..	—0·3	1	0·8	3·2	..	2·4	22	0	..	..	..	..	0	2	0	0	3	1	0	0	0	0	0
Patiala	23·0	..	28·2	29	8·7	..	2·2	2	2·0	7·4	—28·7	3·4	23	2	—0·7	8·8	8·5	..	0	2	0	0	1	2	0	0	0	0	0
Bhatinda	22·5	..	27·9	29	6·7	..	—0·9	1,3	8 0	8.0	..	8·0	10	1	..	2·3	(c) 1·9	..	0	1	0	0	0	0	0	0	0	0	0
Karnal	23·3	..	27·4	28	8·1	..	1·5	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	24·5	—0·1	29·0	29	7.5	—0·9	1·2	3	0	0	—13·7	0	..	0	—1·2	6·3	6·3	0	0	0	0	0	0	0	0	0	0	0	0
New Delhi (Safdarjung)	24·3	0	28·6	29	9·1	—0·3	2·7	1	0	1.5	—19·6	1.5	10	0	—1·7	12·6	9·0	—1·6	0	1	0	0	0	5	0	0	0	0	0
Palam (Aerodrome)	24.6	..	28·5	29	7·8	..	0·6	3	0	1·6	..	1·6	10	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	19.5	—1.8	25·1	28	3·1	—1·8	—1·1	5	15·6	27·6	—2.5	11·6	10	4	+1·5	2·3	2·3	-0·2	..	4	0	0	0	4	0	0	0	0	0
Bilaspur	20·0	..	26.0	26	2·7	..	0	2,22,23	13·0	54·8	..	26·8	23	3	..	2·4	2·8	..	..	4	0	0	0	3	0	1	0	2	0
Jammu and Kashmir																													
Missar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonamarg (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
Leh	—3·4	—4·0	+3·0	19	—16·0	—3.9	—26.4	1	3·1	15·3	+7.4	5·2	17	2	+1·1	2·3	2·9	+0.6	0	6	6	0	0	0	0	0	0	0	0
Srinagar	4·7	—2·0	12·0	28	—0·9	+0.5	—9·8	3	4·1	32.9	—39·2	19·9	18	3	—3·2	..	..	..	0	5	6	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	4·4	..	11·5	28	—1·9	..	—13·8	3	3.5	25·1	..	17.3	18	2	..	..	..	..	0	3	4	0	0	4	0	0	0	0	0
Gulmarg	Closed during winter months																												
Qazigund	4·8	..	11·9	28	—4.1	..	—16 7	3	26·4	67 5	..	38·8	18	6	..	5 2	4 9	.	0	7	4	0	1	1	0	0	0	0	0
Banihal	11·4	..	17·0	28	0.2	..	—8·1	1	31·3	67·2	..	24·9	18	5	..	..	..	..	0	8	1	0	3	0	0	0	0	0	0
Jammu	21·7	+1·4	26 9	28	9·4	—1·3	3·7	1	0	1.8	—62·5	1·2	18	0	-3·7	7·1	6·5	.	0	2	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	20·4	..	25·1	28	9·4	..	2·8	3	12·6	12.6	..	11.3	24	1	..	..	.	..	0	2	0	0	2	1	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	22.5	—2·5	27·8	28	7.8	—1·3	1·5	2	1.6	2.4	—2·7	1·6	10	0	-0·5	5.3	3·0	—0·8	0	2	0	0	1	2	0	0	0	0	0
Anupgargh (R)																													
Mahajan	24·9	..	31·0	29	4·5	..	—2·8	2	0	0	..	0	..	0	..	(m) 9·1	(k) 6·5	..	0	0	0	0	0	0	0	0	0	0	0
Churu	25·4	..	31·3	18	6·6	..	—1·1	2	0	0	..	0	..	0	..	6·1	5·8	..	0	0	0	0	0	1	0	0	0	0	0
Bikaner	25·9	—0·3	31·4	29	6.7	—1·7	0	2	0	0	—6·9	0	..	0	—0·7	5·4	3·8	—2·0	0	0	0	0	0	1	0	0	0	0	0
Nagaur	24·4	..	31·1	17	9·2	..	1·1	2	0	2.0	..	2·0	10	0	..	8·5	7.5	..	0	1	0	0	0	0	0	0	0	0	0
Phalodi	26·4	..	32·0	29	8·2	..	2·8	2	0	0	—5·6	0	..	0	—0 6	..	8 5	..	0	0	0	0	0	0	1	0	0	0	0
Jaisalmer	26·5	..	32·2	30	9.6	..	0·6	1	0	0	..	0	..	0	..	10·0	8·0	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	28·5	+1·5	34·6	17	12·0	+0·6	4·8	4	0	0	—6·1	0	..	0	—0·6	5·1	8·6	—2·3	0	0	0	0	0	1	0	0	0	0	0

*Data not reliable. (R) Register not received. (m) Mean of 18 days. (n) Mean of 17 days. (c) Mean of 28 days. (k) Mean of 20 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (West)—*contd.*																													
Barmer	28·3	+0·9	35·5	17	12·8	—0·3	8·2	4	0.3	0·3	—6·8	0·3	10	0	—0·6	7·3	6·9	—1·0	0	1	0	0	0	0	0	0	0	0	0
Erinpura (Jawa Dam)	29·4	..	35·1	17	10 7	..	4·1	4	0	0	..	0	..	0	..	3·7	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	30·0	..	30·8	18	6·5	..	—0·9	2	0	0	..	0	..	0	..	7·5	6.5	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	25·5	.	30.9	16	7·7	..	0·5	2	0	0	..	0	..	0	..	9·2	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	25·5	..	30.3	16	10·0	..	3·2	1	0	0	..	0	..	0	..	3·4	2·0	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	25.8	+1·0	31·7	18	10·6	+0·3	2·2	4	0	0	—8·1	0	..	0	—0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	26.6	..	31·8	22	8·4	..	0.4	1	0	0	..	0	..	0	..	5·4	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	26 4	+1·4	31·9	17	10·0	+0.1	3·4	1	0	0	—6·6	0	..	0	—0·7	7·4	4·3	+0·9	0	0	0	0	0	0	0	0	0	0	0
Tonk	25·6	..	33·4	18	8·4	..	1·4	4	0	0	..	0	..	0	..	6·3	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	27·3	..	33.6	17	9·8	..	3·0	1	0	0	..	0	..	0	..	6·8	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	27·8	..	36·0	18	12·1	..	5·6	1	0	0	..	0	..	0	..	9·5	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Kota	28·4	+0 6	35.4	18	12·7	—0.3	4·6	2	0	0	—5.3	0	..	0	—0.5	3·4	2.3	—0·4	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	29·4	..	35·0	17	11·6	..	4·6	2	0	0	..	0	..	0	..	7·1	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	27·8	+1·5	33·0	17	9·5	—0·8	3·2	2	0	0	—3·6	0	..	0	—0 5	3·4	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	28·9	+1·0	35·3	18	11.2	—0·4	3·8	2	0	0	—2·0	0	..	0	—0·4	6·7	4·2	0	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	26·6	—0·3	32·1	18	8 8	—1·1	1·0	1	0	0	—8·1	0	..	0	—0·8	8.4	4.3	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	28·3	—0 1	34.4	18	9·1	—0·8	2·0	1	0	0	—5 5	0	..	0	—0·6	7·9	6·0	+0·9	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	27·0	..	33·3	18	6·3	..	—2 2	1	0	1 0	..	1.0	10	0	..	6·5	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Nowgong	27·9	+1·2	34.5	18	8.1	—2.3	1·3	2	0	0	—14·5	0	..	0	—1·3	3·4	1·4	—1·2	0	0	0	0	0	1	0	0	0	0	0
Guna	29·3	+2·0	35·0	18	9·2	—0·9	0·1	1	0	0	—4·8	0	..	0	—0·6	10·1	6·7	..	0	0	0	0	2	0	0	0	0	0	0
Nimach	27·8	+0·7	33·7	17	11.6	+0·5	5·2	2	0	0	—3·8	0	..	0	—0·4	8 6	6·7	—0·7	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	29·5	..	35·9	18	10·1	..	2·5	2	0	0	..	0	..	0	..	10·0	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	27·9	+0·6	33·1	18	14·0	+0·8	9·7	1	1.0	1·0	—10·9	1·0	10	0	—1·2	6·0	5·7	..	0	1	0	0	1	0	0	0	0	0	0
Ratlam	29·7	+0·4	34·8	18,21	12·6	—0·4	7·0	2	0	0	—1·7	0	..	0	—0·3	11·1	9 6	+1·4	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	29·1	+0·9	33·9	18	12·1	—0·5	5·5	1	0	0	—3·8	0	..	0	—0·5	10·5	9·7	+2·0	0	0	0	0	0	0	0	0	0	0	0
Ujjain	29·9	..	34·4	18	10·0	..	2·6	2	0	0	..	0	..	0	..	11·0	7·2	..	0	0	0	0	0	15	0	0	0	0	0
Narsinghpur	30·7	..	36·2	18	10·8	..	3·4	2	0	2·0	..	2·0	10	0	..	5·9	3·8	..	0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	30·7	+1·3	36·0	18	14.6	+0 4	7·7	3	0	0	—9·7	0	..	0	—0·9	7·2	5·9	+2·4	0	0	0	0	0	0	0	0	0	0	0
Indore	29·6	+0·9	35·2	21	10·7	+0·1	3·5	4	0	0	—3·6	0	..	0	—0·5	11·9	9.8	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	30·8	..	35·4	17,18	11·6	..	5·0	2	0	0	..	0	..	0	..	7·9	4 1	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	29·4	+0·5	34 0	22	12·4	—0 3	7.0	3	0	16·3	+10·4	16·3	10	1	+0·6	7·6	4.9	—0 3	0	1	0	0	1	0	0	0	0	0	0
Seoni	30·1	+1·8	34·4	22	13·7	+1·0	8·2	2	13·0	2·2	—18·4	2·2	10	0	—2.0	9.1	6·4	+1.9	0	1	0	0	2	0	0	0	0	0	0
Betul	30·2	+0·7	34·3	22	12·1	—0.2	5·0	4	0	0	—2·2	0	..	0	—0·3	7 8	3·8	—1·4	0	0	0	0	1	0	0	0	0	0	0
Khandwa	32·8	+1·3	37·4	22	13·2	—0·1	6·2	3	0	0	—4·1	0	..	0	—0·4	9·8	6·5	+1·0	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	28·7	+2·4	35·7	22	10·6	—0·6	4·1	4	0	3·3	—16·5	3·3	10	1	—0·8	7·4	4·1	—0·1	0	1	0	0	1	0	0	0	0	0	0
Sidhi	28·8	..	35·6	22	9·7	..	2·5	2	0	9.5	..	6·5	10	2	..	5·4	2·9	..	0	2	0	0	0	0	0	0	0	0	0
Umaria	28.9	+1·6	35·2	22	10·3	—0·6	2·8	2	0	0.8	—24·6	0 8	10	0	—1·9	7·1	4·0	0	0	1	0	0	0	0	0	0	0	0	0
Jabalpur	29·9	+2.5	35·2	18	11·5	+0·9	4·4	2	0	8.3	—11·0	7·9	10	1	—0·7	6·4	4·2	+1·5	0	2	0		2	1	0	0	0	0	0
Ambikapur	27·4	+0·3	33·0	22	11·3	+0·9	5.7	5	8.8	30.4	+8·2	13·8	10	3	+1·1	9.0	6·4	—0·5	0	4	0	0	1	0	0	0	0	0	0
Pendra	27·3	+1·7	32·4	23	13·7	+1·2	8·1	4	22.4	46·4	+9·1	16·8	28	4	+1·1	9·6	6·0	..	0	5	0	0	4	0	0	0	0	2	0
Mandla	29·7	+0·4	33·8	22	10·1	0	4·3	4	2.0	9.8	—5·5	7·4	10	1	—0·7	5·6	2·9	+0 5	0	3	0	0	3	0	0	0	0	0	0
Champ	30·9	+0·2	36·1	22	15·3	—0·5	11·0	4,5	1·2	22.8	+9·5	15·0	1	2	+0·8	6·6	5·9	+0·1	0	3	0	0	2	0	0	0	0	0	0
Raigarh	31·6	—0·3	37·5	22	17·1	+1·2	13·3	14	0	29.8	+14·3	23.6	1	2	+0·7	5.3	4·4	0	0	2	0	0	0	0	1	0	0	0	0
Raipur	31·2	+1·2	35·8	22	17·4	+1·8	12·8	4	0	3·2	—18·9	3·0	1	1	—0·8	8.4	6.9	+1·1	1	1	0	0	2	0	0	0	0	0	0
Kanker	31·5	+1.7	36.0	22,26	17·7	+3·0	12·0	15	0	12.1	—9·7	12·1	27	1	—1·1	6.2	4·7	+0·4	0	1	0	0	2	0	0	0	0	0	0
Jagdalpur	30.9	+0·6	34.8	21	16·9	+2·6	12·9	15	59.1	59·1	+31·7	50·6	4	2	+0·4	6·7	4·1	..	0	2	0	1	2	0	0	0	0	1	0
Gujarat Region																													
Deesa	30·2	..	35·5	16	11·7	..	5.5	1	0	0	..	0	..	0	..	9.3	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	31·2	..	37·0	17	..	..	..	..	0	0	..	0	..	0	..	7·4	6.3	..	0	0	0	0	0	0	0	0	0	0	0
Idar	30·6	..	36.1	17	16·0	..	8·5	2	0	0	..	0	..	0	..	8.6	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	31·5	+1.1	36·7	17	13·6	—0·4	7.7	2	0	0	—2·0	0	..	0	—0·2	10.1	5·6	+1·4	0	0	0	0	0	0	0	0	0	0	0
Dohad	30·6	0	36·0	17	12·6	—1.6	6·6	2	0	0	—1·7	0	..	0	—0·2	9·0	7·8	—2·5	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidyanagar	32·0	..	37.6	17	12·2	..	6.2	7	0	0	..	0	..	0	..	9·1	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	32·3	..	37·1	17	12.7	..	7·3	2	0	0	..	0	..	0	..	8·3	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	33.7	+1·1	38.9	16,17	13·6	+1·2	8·6	7	0	0	—1·4	0	..	0	—0·3	2.5	1.3	—2·3	0	0	0	0	0	1	0	0	0	0	0

(R) Register not Received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena No. of days										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28
Gujarat Region — *contd.*																													
Broach	34·3	0	38·6	16	13·5	—1·4	6·6	3	0	0	—0·3	0	..	0	—0·1	7·4	4·7	—1·2	0	0	0	0	0	0	0	0	0	0
Surat	33·7	+1·8	38·2	20	15·6	0	9·8	2	0	0	—2·0	0	..	0	—0·2	8·2	7·2	+2·1	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch—																													
Bhutakia Bhimasar (R)																													
Naliya	29·6	..	35·6	17	10·0	..	6·0	1	0	0	..	0	..	0	..	15.2	11·1	..	0	0	0	0	0	4	1	0	0	0
Bhuj (Rudramata)	29·3	+0·7	34·7	14	12·0	—0·9	6·2	5	0	0	—4·3	0	..	0	—0·4	12·3	9·2	—0·1	0	0	0	0	0	0	0	0	0	0
Kandla	30·3	..	36·2	14	13·9	..	8·5	2	0	0	..	0	..	0	..	18·0	19·2	..	0	0	0	0	0	0	0	0	0	0
Aerodrome New Kandla	28·1	..	34·4	13	16·0	..	12·0	1,2	0	0	..	0	..	0	..	11·6	13·0	..	0	0	0	0	0	0	0	0	0	0
Mandvi	26.4	+0·1	31.2	13	14.3	—0.5	11.0	5	0	0	0	0	..	0	0	16.7	15.9	—0·5	0	0	0	0	0	2	0	0	0	0
Surendranagar	31·2	—0.2	36·9	17	15·1	+0.3	9.3	1	0	0	0	0	..	0	0	9·6	9·0	—1.3	0	0	0	0	0	0	0	0	0	0
Okha	24·6	..	28·4	16	19·1	..	17·0	3	0	0	..	0	..	0	..	17.0	19 1	..	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	28·4	—0·4	32·8	13,14, 17	11·9	—0·1	6·0	2	0	0	—2.0	0	..	0	—0·2	..	..	..	0	0	0	0	0	1	0	0	0	0
Dwarka	26·7	+0·9	32·3	13	16·8	—0.5	13·2	5	0	0	—6·1	0	..	0	—0·5	16·7	14·3	+0.3	0	0	0	0	0	0	0	0	0	0
Rajkot	31·2	—0·3	36·5	17	12·2	—0 6	5·8	1	0	0	0	0	..	0	0	16.0	13·0	—0 6	0	0	0	0	0	2	0	0	0	0
Bhavnagar Aerodrome.	30·6	+1·1	35·0	14	14·3	—0·4	9·1	2	0	0	—1·5	0	..	0	—0·2	17·7	14·3	+1·5	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	30·1	0	36·4	16	13·9	—2·9	8·7	2	0	0	—0·8	0	..	0	—0·1	16.6	12.7	..	0	0	0	0	0	1	0	0	0	0
Keshod	32·0	..	36·4	16	12·4	..	7·0	1,2	0	0	..	0	..	0	..	15·9	13·7	..	0	0	0	0	0	3	0	0	0	0
Mahuva	31·2	..	35·0	18	13 7	.	11·2	13	0	0	..	0	..	0	..	9·6	7·7	..	0	0	0	0	0	0	0	0	0	0
Veraval	23.4	..	32·5	28	14.0	..	9 4	1	0	0	—1·8	0	..	0	—0·2	17·2	14·7	..	0	0	0	0	0	1	0	0	0	0
Konkan																													
Dahanu	28.1	0	34·9	13	..	..	..	..	0	0	—0.3	0	..	0	—0 1	17·5	12·4	+0·5	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	31·1	+1·7	36·0	16	16·0	+0·3	11·9	2	0	0	—1.7	0	..	0	0·1	12·2	8·3	..	0	0	0	0	0	1	0	0	0	0
Bombay	28·9	+0·5	34·2	12	19 1	—0.6	14·8	1	0	0	—2.0	0	..	0	—0.1	8·9	7·0	—1·3	0	0	0	0	0	0	0	0	0	0
Alibag	27·9	—0.2	30·4	16	17·3	—1.0	12.6	2	..	0	—0.8	0	..	0	—0.2	..	8.7	0	0	0	0	0	0	0	0	0	0	0
Bhira	37.0	..	40.0	20,21	13.9	..	9·3	1	0	0	..	0	..	0	..	4·9	2·7	..	0	0	0	0	0	0	0	0	0	0
Harnai	27·6	—0·1	33·2	11	21·6	—0.4	17·7	1	0	0	—0·1	0	..	0	0	17·6	14·1	+0.2	0	0	0	0	0	0	0	0	0	0
Ratnagiri	30·2	..	36·1	16	18·1	..	15·0	1	0	0	—1·0	0	..	0	—0·1	10·8	6·9	..	0	0	0	0	0	0	0	0	0	0
Devgarh	28·9	—0·9	30·9	14,15, 17	20 6	—1.0	19·5	1,2,4	0	0	—0·1	0	..	0	0	18·5	14·4	+0.2	0	0	0	0	0	0	0	0	0	0
Vengurla	31·6	—0·1	35·8	14	17·8	—1.2	15·1	1	0	0	—0·3	0	..	0	—0·1	10.1	5 2	..	0	0	0	0	0	0	0	0	0	0
Panjim	31.7	..	35.6	16	20.0	..	18.0	1	0	0	..	0	..	0	..	12.3	9.6	..	0	0	0	0	0	0	0	0	0	0
Mormugao	29.8	..	34.5	14,16	21.2	..	19.2	1	0	0	..	0	..	0	..	15·1	13.1	..	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	33.4	..	37·4	21	16·5	..	11·6	2,3	0	0	..	0	..	0	..	8·3	5·9	..	0	0	0	0	0	0	0	0	0	0
Jalgaon	34·1	+0·8	38·3	21	12.3	—2 0	6.2	2	0	0	—2·7	0	..	0	—0·4	11.7	10·0	+1·6	0	0	0	0	0	0	0	0	0	0
Malegaon	33.1	+0.9	37·2	21	11·1	—1·5	4·2	2	0	0	—2·3	0	..	0	—0·2	8·5	6·8	0	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	32·8	..	36·1	21	10·8	..	5·5	1	0	0	..	0	..	0	..	10.3	6·0	..	0	0	0	0	0	0	0	0	0	0
Ahmadnagar	33·6	+2·2	36·0	23	13 2	—0.1	9.0	1	0	0	—3.3	0	..	0	—0 3	9·4	7·1	—0.6	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	0	0	—3·1	0	..	0	—0 3	..	..	..	..	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	32·8	..	35·3	21	13·8	..	8.7	26	0	0	..	0	..	0	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Poona	32·8	+0·7	35·3	23	10·6	—1.0	5·3	2	0	0	—1.5	0	..	0	—0.2	7·2	4·2	..	0	0	0	0	0	0	0	0	0	0
Jeur	34·0	+0.4	37·0	22	13·8	—0·9	8·9	1.2	0	0	—2.1	0	..	0	—0.2	10·0	6·5	+0·2	0	0	0	0	0	0	0	0	0	0
Baramati	33.6	+0.3	36·8	23	14.3	—0.2	9.4	2	0	0	0	0	..	0	0	8.1	8.3	+0·7	0	0	0	0	0	0	0	0	0	0
Sholapur	34·3	+0.7	37.0	28	18·2	+1·1	13·6	2	0	0	—3·3	0	..	0	—0.3	10.1	7.8	—1.1	0	0	0	0	0	0	0	0	0	0
Miraj	34·0	+1.5	36·6	21,26	15·8	+0 8	11·5	19	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	1	0	0	0	0
Kolhapur	34·1	+1·3	36·6	21	15 7	—0·2	12·4	19	0	0	—0.5	0	..	0	—0.1	12·1	9 7	+0·7	0	0	0	0	0	2	0	0	0	0
Marathwada																													
Aurangabad	32·6	+1·2	35·4	21	15·7	+0·4	10·2	2	0	0	—4·3	0	..	0	—0·4	8·0	7·5	—1.2	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	32·5	..	35·3	21	11·2	..	4·9	2	0	0	..	0	..	0	..	10·0	7·1	..	0	0	0	0	0	0	0	0	0	0
Parbhani	33·5	+0·4	36·3	4days	16·0	+0·3	11·0	2	0	0	—6 2	0	..	0	—0.7	8.1	6.6	+0.2	0	0	0	0	0	0	0	0	0	0
Nander	34·2	..	37·2	22,29	15·7	..	11·2	2	0	0	..	0	..	0	..	5·1	3·7	..	0	0	0	0	0	0	0	0	0	0
Bir	33 6	..	37·1	22	13·9	..	7·5	1,2	0	0	..	0	..	0	..	6·6	4·6	..	0	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	31·5	+0.8	35·1	22	16·1	+0.8	10·9	2	0	16·8	+2.1	16.8	1	1	—0.1	5·8	3·7	+0.2	0	1	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	32·5	+0·4	36·2	22	15·3	0	10·4	2	0	1·5	—15·0	1·5	10	0	—1.4	10·7	8·9	..	0	1	0	0	2	0	0	0	0	0
Amravati	33·5	+1.7	37·6	22	17.9	+1.2	12.0	2	0	2·6	—8.6	2·6	10	1	+0.2	11·6	10·2	+3·8	0	1	0	0	0	0	0	0	0	0
Akola Aerodrome	33·6	..	37.5	21	15·5	..	9·1	2	0	0	..	0	..	0	..	10·9	8·8	..	0	0	0	0	0	0	0	0	0	0
Akola	33.9	+1·3	37·8	21	15·3	+1·0	8·3	2	0	0	—7·6	0	..	0	—0·6	7·3	5·0	0	0	0	0	0	0	0	0	0	0	0
Brahmapuri	32·7	..	36·1	24	17·2	..	14.2	14	0	14 4	..	7·8	27	2	..	8·1	5·3	..	0	2	0	0	0	0	0	0	0	0
Buldana	30·9	+0·5	34·6	22	16·2	—1·5	10 0	1	0	0	—0·3	0	..	0	0	9·0	7·1	—1.5	0	0	0	0	0	0	0	0	0	0
Yeotmal	32·9	+0·6	36·5	22	17·6	—0·3	11·6	2	0	0	—4·1	0	..	0	—0·3	12·0	10·3	+0.8	0	0	0	0	1	0	0	0	0	0
Chanda	33·7	+1.3	37·5	23	18·1	+2.8	12·5	15	0.2	9·2	—11·4	5·8	27	2	+0.7	7·9	5.7	+2.3	0	2	0	0	3	0	0	0	0	0
Pusad	34.2	..	37·7	22	15·8	..	11·0	2	0	0	..	0	..	0	..	8·9	5·6	..	0	0	0	0	0	0	0	0	0	0
Sironcha	34·0	+0·1	37·2	24	20·0	+1·9	14·4	15	0	0	—4.7	0	..	0	—0.6	8·8	6·0	+1.5	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh																													
Kalingapatam	30·4	+0·2	33.6	22,24	20·5	+0.6	17·4	4,17,22	0	0	−15 5	0	..	0	−1·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	31·5	−0.2	34·5	24	20·7	+0·9	16·7	21	0	0	−23.9	0	..	0	−1.1	16·3	7·7	+2.6	0	0	0	0	0	0	0	0	0	0	0
Kakinada	31·6	+1·8	34·6	10	21·4	+0·5	19·5	20,22	0	0	−8·1	0	..	0	−0·6	13·4	9·5	+1.9	0	0	0	0	0	0	0	0	0	0	0
Nidadavole	32.2	..	34.4	19	19.7	..	15.9	18	0	0	..	0	..	0	..	6.7	5.4	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	35·2	+1·6	38·9	24	21·1	+0·5	16·6	18	0	0	−13.5	0	..	0	−1·3	8·7	7·1	−0·8	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	33·0	+0·1	35·2	21	20·4	+0·4	16·2	18	0	0	−3·1	0	..	0	−0 5	16·7	11·1	+1·8	0	0	0	0	0	0	0	0	0	0	0
Nagarjuna Konda	(R)																												
Masulipatam	30.4	+0.3	33·0	20	21.0	+0.7	18·0	17	0	0	−13.5	0	..	0	−0.6	5.5	3·5	−2.6	0	0	0	0	0	0	0	0	0	0	0
Ongole	32·4	..	35·0	21,22	21.5	..	17·9	17	0	0	..	0	..	0	..	8·5	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	32·8	+0·9	35·4	24	21·4	+0·4	18·4	18	0	0	−6·1	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	34·7	+0.8	37·8	24	21·2	+2.4	17·1	15	0	7·3	+5.1	6·0	25	1	+0.7	10·3	7·3	+1.6	0	1	0	0	1	0	0	0	0	0	0
Nizamabad	34.3	+1.6	37.7	27	19.1	+2.4	15.0	16	0	0	−17·0	0	..	0	−1.2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	33·7	+1.8	36·9	24	20·1	+1.3	17·4	20	0	0	−14·7	0	..	0	−1.1	13·1	11·2	+3.3	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	31·4	..	34 8	24	18·6	..	15.8	10	0	0·3	..	0·8	29	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Bhadrachallam	34·1	+0·1	37·0	21	20·4	+1·4	16·0	18	0	0	−1·3	0	..	0	−0·2	5·2	6·7	+0·2	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	32·1	+1·4	35·9	24	17·5	+0·7	13 3	19	0	0	−9·1	0	..	0	−0·9	14·3	10·1	+1·9	0	0	0	0	0	1	0	0	0	0	0
Khammam	33·7	..	36·7	23	21·0	..	17·7	18	0	0	..	0	..	0	..	7.8	6·5	..	0	0	0	0	0	2	0	0	0	0	0
Mahbubnagar	32·9	..	36·8	27	18·8	..	15·2	13	0	3.0	..	3·0	28	1	..	8.9	6.6	..	0	1	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	34·5	+0·3	38·2	24	20·5	+1·6	12·3	19	0	0·4	−6·7	0	..	0	−0·5	9·0	8·4	+2·8	0	0	0	0	0	0	0	0	0	0	0
Anantapur	33·8	+0.4	38·0	26	19·6	+0.9	15·8	18	0	0	−5·2	0	..	0	−0.3	9·6	9·5	+0.4	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	34·6	0	38·8	25	20.9	0	13·3	18	0	0	−3.1	0	..	0	−0.2	3·9	3·3	−9.6	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	30·8	..	34·4	24	16 6	..	12·6	17	0	0	..	0	..	0	..	10·8	9·0	..	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	30·5	..	32·5	26	21·8	..	19·2	5	..	0	..	0	..	0	..	..	6.9	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	31·0	−0·3	34·3	26	21·6	+1·4	19 2	18	0	0	−10.4	0	..	0	−0·7	13·2	8 6	−1·9	0	0	0	0	0	0	0	0	0	0	0
Vellore	31·9	+0.3	34·5	25	19·5	+0 5	14·2	17	0	0	−6.3	0	..	0	−0.6	8·0	7·9	+3.6	0	0	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	32·1	..	35·1	25	21·0	..	18·9	9,17	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tirupattur	32·2	.	35·3	25	16·0	..	11 0	17	0	0	..	0	..	0	..	5·5	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	33·9	..	35·7	27	20·6	..	16 9	16	0	0	..	0	..	0	0	6·2	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Cuddalore	29·8	+0.3	31·9	25	21.6	+0.5	18.7	9	0	0	−22·9	0	..	0	1.2	12.4	9.2	+3.2	0	0	0	0	0	0	0	0	0	0	0
Kallakkurichchi	31·4	..	34·3	26	21·0	..	18·2	9	0	0	−14.2	0	..	0	-0.6	8·7	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Salem	33·8	−0 1	35·9	25,26	21·1	+1·7	17·2	9	0	0	−8·4	0	..	0	-0.6	11·9	13.3	−6·1	0	0	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	32·2	..	34·7	26	19·5	..	15·1	10	0	0	..	0	..	0	..	16·7	13·7	..	0	0	0	0	0	0	0	0	0	0	0
Coimbatore	32·5	−0·2	35·4	26	20·0	+0·8	17·1	10	0	0	−9.1	0	..	0	−0.5	10·5	7·5	+3·3	0	0	0	0	0	0	0	0	0	0	0
Nagapattinam	29·5	+0.2	32·0	27	25·2	+2.3	21·3	17	0	0	−21·1	0	..	0	−1·0	18·6	18·5	+7.7	0	0	0	0	0	0	0	0	0	0	0
Tiruchchirapalli	32·9	−0·2	35·3	27	21·2	+0·5	18·0	9	0	0	−12·5	0	..	0	−0.6	13.7	11·5	+5·1	0	0	0	0	0	0	0	0	0	0	0
Vedaranniyam	30·9	..	33·2	27	23·9	..	19·9	10	0	0	..	0	..	0	..	10·7	8·6	..	0	0	0	0	0	0	0	0	0	0	0
Atirampattinam	32·2	..	34·0	28	21·9	..	19·5	9,11	0	0	..	0	..	0	..	14·1	9·5	..	0	0	0	0	0	0	0	0	0	0	0
Madurai	32·5	+0.1	34·8	27	22·4	+1·6	19·9	9	0	0	−13·5	0	..	0	-0.7	9·4	7·1	+1·0	0	0	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	32·9	..	34·7	27,25	21·6	..	18·4	9	0	0	..	0	..	0	..	14·9	11·2	..	0	0	0	0	0	0	0	0	0	0	0
Tondi	29·9	..	31·4	29	23·6	..	21·1	9,11	0	0	..	0	..	0	..	19·9	18·5	..	0	0	0	0	0	0	0	0	0	0	0
Pamban	30·7	+1.4	33·1	25	25·3	+1.4	23·0	4	0	3·4	−18.4	3·4	28	1	-0.4	19·8	15·2	+4.4	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	28·3	+0.1	29·8	28	23·1	+0.1	20·2	4	0	14·5	−5·9	14·5	28	1	+0.3	24.1	24·0	+4.6	0	1	0	0	0	0	0	0	0	0	0
Palayamkottai	33·3	+0·6	35·3	24	23·2	+0·5	21·1	4	1·2	16.2	−11·5	12.2	28	2	+0.3	9·3	6.1	-2·2	0	3	0	0	0	0	0	0	0	0	0
Kanniya kumari	31.9	..	33·0	18	24·4	..	22·2	9	1.5	1·5	..	1·5	29	0	..	27·3	21.3	..	0	1	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	30·8	0	36·4	15	18·9	−0.8	15·9	18	0	0	−0.7	0	..	0	−0·1	12·1	8·4	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	31·9	+0.5	36·4	16	18·5	−1.9	17·0	19	0	0	−0·3	0	..	0	0	10·6	9·0	+3 9	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	33·1	..	35·5	17	21·9	..	19·0	18	0	0	..	0	..	0	..	11·5	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	32·3	+1·1	35·6	17	22·6	+0·1	21·2	14	0	0	−1.8	0	..	0	−0·1	12·3	9·4	+1·2	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	32·0	+0·8	35·8	25	19·3	+0.7	15·4	1	0	0	−9 4	0	..	0	−0·8	8·1	11·9	+1·9	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	34·3	+0·8	37·4	23,26	18·9	+1·0	16·0	19	0	33·4	+26·5	33·4	3	1	+0·5	12·1	9·3	+0·6	0	1	0	0	2	0	0	0	0	0	0
Bijapur	33·5	+0·7	36·9	26	19·0	+1·3	13·4	2	0	0	−2·3	0	..	0	−0·2	6·3	4·3	−1·2	0	0	0	0	0	0	0	0	0	0	0
Raichur	34·1	+0·7	38·2	24	21·4	+1·2	18.3	13	0	0	−7·1	0	..	0	−0·6	9·9	10·7	+2·2	0	0	0	0	0	0	0	0	0	0	0
Belgaum	32·7	+0.3	35·1	23	16.0	+0·8	13·2	18	0	0	−1·3	0	..	0	−0.1	6·4	3·3	−2.7	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or slee	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28
Interior Mysore (North)—(Contd.)																												
Belgaum (Samra)	32.3	..	35·0	26	16.8	..	13.2	17	0	0	..	0	..	0	..	10.5	6.9	..	0	0	0	0	0	0	0	0	0	0
Gadag	32·2	+0·6	36·3	23,24	18.7	+0.4	15·3	13	0	0	−4.1	0	..	0	−0·4	8·6	6·7	−0·2	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																												
Bellary	33.9	−0·4	37.4	24,26	20.9	+2.0	16·0	14	0	0	−4.6	0	..	0	−0·3	8·9	5.7	+1.0	0	0	0	0	0	0	0	0	0	0
Chitradurga	32·0	0	35·6	24	20.2	+1·2	14.9	13	0	0	−2.8	0	..	0	−0.2	8.7	7.0	+0.9	0	0	0	0	0	0	0	0	0	0
Shimoga	32·8	−0.1	36·1	25	15·8	−0·3	11·0	17	0	0	−0.2	0	..	0	0	6·4	3·9	−0·4	0	0	0	0	0	0	0	0	0	0
Agumbe	30.1	..	32·4	21	13.1	..	9.8	18	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Balehonnur	31·4	+2.3	34·4	19	16·9	+1·3	14·6	13	..	2·8	+1·3	2·8	23	1	+0.8	..	..	..	0	1	0	0	0	0	0	0	0	0
Hassan	31·0	+0.4	33.5	25,26	15·7	+0.4	11·1	17	0	0	−6.1	0	..	0	−0.4	5·3	3·0	−1.7	0	0	0	0	0	0	0	0	0	0
Bangalore	29.8	0	33.0	26	16·7	+1·1	12·2	17	0	0	−6.6	0	..	0	−0·4	12.3	10·5	+2·9	0	0	0	0	0	0	0	0	0	0
Bangalore Aerodrome.	29.3	..	32·0	26	15·4	..	10·0	17	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0
Mysore	31.4	−0.2	34.5	24,26	18·6	+0.7	15.6	13,17	0	0	−6.1	0	..	0	−0.5	15.4	11.5	+3.9	0	0	0	0	0	0	0	0	0	0
Kerala																												
Calicut	32.3	+0·9	33·5	25	23.2	+0·4	21.5	13	0	0	−4.8	0	..	0	−0.3	14.7	11·7	+1.9	0	9	0	0	0	0	0	0	0	0
Palghat	36·1	..	38.8	27	23.2	..	20.2	6	0	0	..	0	..	0	..	14·2	10·1	..	0	0	0	0	0	0	0	0	0	0
Fort Cochin	31·8	+1·2	33·0	14,17, 21	23.6	−0·6	22.3	4	0	0	−20.3	0	..	0	−1.2	10·3	6.5	−1.2	0	0	0	0	0	0	0	0	0	0
Cochin (Naval Air-Station)	32·7	..	34.2	21	23·2	..	20.9	13	0	0	..	0	..	0	..	13·4	9·0	..	0	0	0	0	3	0	0	0	0	0
Alleppy	32.1	+0·2	34·0	16	23·6	−0·1	21·5	4	0	22.4	−21·3	14·0	9	2	−0·5	15.9	9.9	−0·4	0	3	0	0	2	0	0	0	0	0
Punalur	34·6	..	36.7	25	21.3	..	18.0	5	0	2.4	..	2.4	26	0	..	7.1	5·3	..	0	1	0	0	0	0	0	0	0	0
Trivandrum	32·0	+0·3	34.6	17	23.1	+0.2	20·9	4	0	27.5	+8.2	24.5	26	2	+0.7	8.3	5·8	+0·3	0	2	0	0	2	0	0	0	0	0
Trivandrum (Aerodrome).	31·1	..	33.5	17	22.7	..	20·1	4,5	..	33·2	..	29.2	26	2	..	..	6·7	..	0	3	0	0	1	0	0	0	0	0
Arabian Sea Islands																												
Amini*																												
Minicoy*																												
Hill Stations excluding Kashmir																												
Dalhousie	12·5	−1·0	18·0	27,28	3·1	−1.0	−2·5	1,2	10.0	33·0	−123.6	11·0	18	5	−2.3	4.3	3.2	−0.7	0	6	0	0	0	2	0	0	0	0
Dharmsala	16·3	−0·8	20·6	28	7·9	−0.9	1·7	1,2	6.8	30.3	−62.0	15·6	10	4	−0.7	6.1	4·4	−0·2	0	5	0	0	0	0	0	0	0	0
Simla	10·3	+1·0	15·6	21	3·3	+1.0	−3·1	1	20·5	30.3	−43.9	10·5	10	5	−0.7	4·7	3·6	+0.9	0	8	3	0	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	25·6	−58.0	12.0	1	3	−2.5	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	18·9	..	23·1	29	9·9	..	8·2	4	..	197.2	..	45·2	18	11	..	..	..	..	0	11	10	0	0	20	0	23	0	0
Badrinath	Closed during winter months																											
Joshimath	12·9	..	18·3	21	3·6	..	−1·8	3	49·9	141·5	..	65·6	10	6	..	6·6	7·2	..	0	9	0	0	0	0	0	0	0	0
Mussoorie	11·9	+1·6	18.4	17	3·7	+0·5	−1·2	1	5.6	34·6	−52·0	26·8	1	2	−3.2	11.6	9·2	+2·0	0	3	0	0	2	0	0	8	0	0
Mukteswar (Kumaun)	12·5	+2·2	18·9	21	2·8	+0·7	−4·6	1	9.2	11.8	−52·5	5·2	23	3	−1.7	12·7	12.2	+2·9	0	3	0	0	1	1	0	0	0	0
Nainital	11·8	−1·3	18·0	17	3·0	−1.1	6·0	3	7.5	19·5	−24.5	7·0	11	3	+0·6	11·4	7·3	−0·6	0	6	0	0	0	0	0	0	0	0
Kalimpong	..	..	..	..	..	..	..	..	0	0	−28.7	0	..	0	−3.0	..	..	..	0	0	0	0	0	0	0	0	0	0
Darjeeling	11·2	+1·1	16 1	21	3·9	+0.1	−0.9	5	1.6	14·4	−15.8	11·0	16	1	−1.6	3·4	2·9	−0·5	0	4	0	0	1	9	0	0	0	0
Kohima	17·5	..	23·6	25	6.4	..	2.8	9	7.8	15.4	..	4.6	23	4	..	..	2·4	..	0	5	0	0	0	0	0	0	0	0
Shillong	18·2	+1·3	23·1	22	5·7	−0·1	0·6	5	0.8	8.8	−18·1	6.2	23	2	−0.8	4.2	4·4	+0·7	0	2	0	0	0	0	0	0	0	0
Cherrapunji (R)																												
Abu	21.9	+1.9	26·6	17	9.5	−2.2	3.6	1,2	0	0	−5·8	0	..	0	−0·6	12·4	9·3	+2·2	0	0	0	0	0	0	0	0	0	0
Aijal	22·4	..	26·6	20,22	13.4	..	6.0	7	0·3	35·7	..	15·4	24	3	..	9·6	6·2	..	0	5	0	0	0	0	0	0	0	0
Pachmarhi	25·0	+0.9	29.8	18	9.9	−0.5	1.8	4	0	0·4	−16·6	0·4	10	0	−1·5	6·2	4·1	−0·9	0	1	0	0	1	0	0	0	0	0
Mahabaleshwar	27·8	+2·6	31·0	21	15.5	+0.9	12.5	1	0	0	−2·5	0	..	0	−0·1	10·4	9·8	+0·5	0	0	0	0	0	0	0	0	0	0
Mercara	28·1	+1.1	30·6	24	15.5	+0.5	13.0	4 days	0	0	− ·1	0	..	0	−0.5	10.3	8.2	+2.9	0	0	0	0	0	0	0	0	0	0
Ootacamund	22.7	+3·0	25.1	18	5.4	−1.2	0·2	16	0	0·4	−12·5	0.4	27	0	−1·1	4.1	1·9	−2·6	0	1	0	0	0	0	0	11	0	0
Coonoor (R)																												
Kodaikanal	19·3	+1·5	21·3	25	8·5	−0.1	4.5	13	0·2	0·2	−38·7	0·2	28	0	−2·4	14.1	13.7	+1.1	1	0	0	0	0	2	0	13	0	0
Nepal																												
Katmandu	20·6	..	26·0	21	2.5	..	−1.8	5	0	1·6	..	1·6	19	0	..	1·5	1·0	..	0	1	0	0	1	3	0	5	0	0
Sikkim																												
Lachen	6·3	..	14.0	26	−3·8	..	−7·0	7,8,19	..	128.0	..	28·0	12	8	..	..	..	..	0	12	..	..	..	..	..	..	..	..
Hydrometeorological Observatories—																												
Damoda Catchment																												
Tilaiya	26·3	..	33·6	23	12.1	..	6.1	5	7.6	23·8	..	13.5	11	2	..	8·0	5·1	..	0	3	0	0	0	0	0	0	0	0
Hazaribagh	25.9	..	33·3	23	11·1	..	5.3	5	10.9	15.5	..	11.5	11	2	..	10.3	5·1	..	1	3	0	0	2	1	0	0	0	0

*Data given as addenda December, 1964 issue.

(R) Register not recoved.

Sub-division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— (*Contd.*)																													
Damodor Catchment—*contd.*																													
Konar	29·5	..	33·9	23	16·0	..	11·3	14	10.0	10·4	..	10·0	11	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Bokaro	28.9	..	32.8	21,29	11·9	..	6.2	1	0	0	..	0	..	0	..	4.9	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Mathon	30.3	..	38.2	26	13.3	..	6·3	5	5.2	6·5	..	6.5	11	1	..	3·6	2·2	..	0	1	0	0	1	2	0	0	0	0	0
Ramgarh	28.7	..	36.0	23	11.3	..	5·6	5	7.6	9.1	..	8·4	11	1	..	3.5	1.5	..	0	2	0	0	0	0	0	0	0	0	0
Panchet Hill's	29.2	..	36.2	23	15.3	..	10.6	5	3.5	3·8	..	3·8	5	1	..	4.2	2.9	..	0	1	0	0	0	0	0	0	0	0	0
Durgapur	28.9	..	37.4	23	15.6	..	10.8	5	0	2.0	..	2·0	11	..	..	8·7	6·7	..	0	1	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Sonabahar	29.5	..	35.0	22	12.7	..	7.7	5	..	13.0	..	8.3	1	2	..	..	..	..	1	2	0	0	0	0	0	0	0	0	0
Hirakud	30.8	..	36.2	22	16.9	..	12.6	15	0·6	57·3	..	37.2	27	2	..	5.0	3·5	..	1	3	0	0	2	0	0	0	0	0	0
Simkund	29.4	..	35.1	20,21, 23	15.3	..	11.6	15	14·4	33.7	..	13·4	1	4	..	6.3	3.1	..	0	6	0	0	7	3	0	0	0	0	0
Sonepur	31·0	..	36.9	23	18.8	..	13.8	15	..	20.6	..	5·7	2	4	..	..	2.9	..	0	6	..	..	..	..	..	..	..	..	..
Khijrawan	31·8	..	36 1	22,23, 24	16.9	..	11·5	15	0	0	..	0	..	0	..	6.6	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Bagra Tawa	31·4	..	36·2	18,22	12.5	..	5·4	2	0	0	..	0	..	0	..	7·0	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Punasa	32·3	..	37·8	21	12.8	..	6.3	2	0	0	..	0	..	0	..	6·7	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	33·8	.	39·0	21	12·5	..	5·4	7	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	31.2	..	36·4	18	12·7	..	8·6	6	0	0	..	0	..	10	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Somosom	(l) 12·0	..	17·7	21	−1.1	..	−9.0	4	0	4·8		4.8	23	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Kindi Bazar	..	..	..	..	..	..	..	..	1·4	6·2	..	4·0	10	1	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Timure	16·9	..	21·9	21	4.5	..	−0·2	5	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Pokhara	21·2	..	25·6	23	8·8	..	4·6	5	5.2	8·2	..	6.8	19	1	..	6·1	5·5	..	1	2	0	0	3	0	0	0	0	0	0
Gorkha	20.2	..	25.1	23	10·7	..	6.3	4,5	0.3	0.9	..	0.6	19	0	..	0	0	..	0	2	0	0	1	0	0	0	0	0	0
Nuwakot	22.4	..	26·8	25	9·9	..	5·5	5	0	0	..	0	.	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans-Himalayan Region)																													
Dailekh	19·2	..	20.9	19	6.7	..	5.3	1	15.0	21.4	..	10.0	23	3	..	.	..	..	0	4	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	13·7	..	19·7	17	5·1	..	−1·6	1	7·2	14·6	..	4·6	23	3	..	6.2	5.3	..	0	6	0	1	2	0	0	4	0	0	0
Sallyana	19·2	..	25.9	21	7·7	..	1·9	1	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	28·6	..	33·9	25	13·8	..	9·9	3,4	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu*																													
Kosi Catchment																													
Chautara	19.8	..	25·7	22	7·1	..	2·6	1,4	0.4	5·4	..	4.6	19	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Chepura	..	..	..	..	..	..	..	..	6·3	31·4	..	13·1	24	3	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	5·7	..	11·1	21	−3·6	..	−8·4	7	8·0	19·5	..	8·5	11	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Taplethok	19·4	..	25·6	23	7·8	..	2·8	5	0	7·2	..	7·0	11	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Bhojpur	16·6	..	22·6	24	7·9	..	2·6	1	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	15·2	..	21·3	23	5·3	..	0·1	5	0	4·3	..	2.2	16	0	..	..	..	..	1	2	0	0	0	0	0	1	0	0	0
Okhaldhunga	15·9	..	20·5	23	5·7	..	−0·2	1	0	0·6	..	0·6	19	0	..	5·6	4.2	..	0	1	0	0	1	0	0	7	0	0	0
Chainpur	21·9	..	24·7	25	11·0	..	9.2	6	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Angbung	(g) 18·3	..	22·9	29	8·8	..	3·5	6	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Barahkshetra	26·3	..	30·9	24	11·8	..	6·3	5	0·3	0·3	..	0.3	24	0	..	8.1	5·5	..	0	1	0	0	1	0	0	0	0	0	0
Tista Catchment																													
Gangtok	15·6	..	21·5	23	5·4	..	0.3	5	1·1	17·8	..	6.7	20	2	..	6·1	5·0	..	0	6	0	0	0	4	0	1	0	0	0
Gezing	18·1	..	24.7	26	6·5	..	1.0	5	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..

(g) Mean of 24 days. *Data included under Nepal. (l) Mean of 19 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	W	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Island																											
Maya Bandar	0830	28	1013·4	1010.2	..	26·2	23·6	22·3	26·9	80	..	2·4	..	2·4	0	0	14	0	12	0	1	0	1	0	0	15	0
	1730	"	1010·8	1007·7	..	27·3	25·5	21·6	25·8	71	..	1·7	..	13·6	0	0	28	0	27	1	0	0	0	0	0	1	0
Long Island	0830	25	1012.9	1010·0	..	27·6	24·4	22·9	27·9	76	..	3·3	..	2·5	0	0	19	1	11	1	3	0	1	1	1	10	0
	1730	"	1010·3	1007·4	..	26·4	23·9	22·9	27·9	78	..	2·5	..	0·5	0	0	8	0	6	0	0	1	0	0	1	21	0
Port Blair	0530	79	1011·1	1002·1	..	24·1	23·1	22·6	27·4	91	..	3·2	..	4·7	0	0	18	2	15	1	0	0	0	0	0	11	0
	0830	"	1013·0	1004·2	−0·3	29·1	24·9	23·0	28·1	79	−1	4·0	+1.1	10·3	0	0	28	0	28	0	0	0	0	0	0	1	0
	1130	"	1011.8	1003·0	..	30·6	25·4	23·0	28·1	65	..	4.2	..	12·0	0	2	26	1	26	1	0	0	0	0	0	1	0
	1730	"	1010·2	1001·3	..	27·0	24·0	22·6	27·4	77	..	3·1	..	7·7	0	0	28	1	25	1	0	0	0	0	1	1	0
	2330	"	1012·0	1003·1	..	25·2	23·7	22.9	27·9	87	..	3·2	..	6·6	0	0	22	0	19	3	0	0	0	0	0	7	0
Car Nicobar	0830	10	1012·1	1010·9	..	28·9	21·3	22·1	26·6	74	..	4·3	..	4·6	0	0	29	0	27	2	0	0	0	0	0	0	0
	1730	"	1009·7	1008·6	..	27·9	24.8	23·3	28·6	78	..	3·7	..	2·7	0	0	29	0	29	0	0	0	0	0	0	0	0
Nancowry	0830	26	1011·8	1008·8	..	28·8	26·1	24·9	31·5	79	..	4·2	..	0·1	0	0	2	0	1	0	1	0	0	0	0	27	0
	1730	"	1008·8	1005·9	..	28·1	25·3	24.1	30·0	79	..	3·6	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Kondul	0830	8	..	..	..	27·9	25·9	25·1	31.9	84	..	5·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	..	..	..	27·6	25·9	25·1	31·9	86	..	5·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1016·7	998·3	..	17·0	13·6	10.7	12·9	67	..	4.0	..	21·2	0	21	8	1	0	0	0	1	0	0	27	0	0
	1730	"	1012·8	991·6	..	17·6	14·9	12·8	14·8	71	..	4·0	..	7·9	0	5	18	0	1	1	0	1	1	1	18	6	0
Dibrugarh (Mohanbari)	0230	111	1013·8	1000·6	..	13·4	12·3	11·6	13·7	91	..	4·7	..	2·6	0	0	7	0	4	3	0	0	0	0	0	22	0
	0530	"	1014·1	1000·9	..	12·3	11·6	11·0	13·1	91	..	4·7	..	2·1	0	0	11	0	10	0	1	0	0	0	0	18	0
	0830	"	1016·3	1005·2	−0·2	16·5	14·3	12·5	14·5	73	−7	5·9	−0·5	6·6	0	0	26	1	17	6	1	0	1	0	0	3	0
	1130	"	1011·7	1001·8	..	21·6	15·7	10·9	13·0	52	..	4·4	..	7·5	0	0	28	2	16	10	0	0	0	0	0	1	0
	1730	"	1012·0	999·1	..	19·0	15·6	13·0	15·0	68	..	3·9	..	2.8	0	0	11	0	9	2	0	0	0	0	0	18	0
	2330	"	1013·9	1000·8	..	14·1	13·1	12·3	14·3	89	..	4·8	..	2·5	0	0	11	0	9	2	0	0	0	0	0	18	0
Digboi (R)	0830	152	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	0830	102	1016·6	1001·5	+1·3	17·1	14·7	12·8	14·8	76	−3	4·3	+0·1	2·1	0	0	17	0	17	0	0	0	0	0	0	12	0
	1130	"	1014·7	1002·9	..	22·2	16·5	12·1	14·1	54	..	4·5	..	4·3	0	0	24	0	22	0	2	0	0	0	0	5	0
	1730	"	1012·3	1000·7	..	19·0	15·8	13·4	15·4	71	..	4·3	..	0·8	0	0	8	1	7	0	0	0	0	0	0	21	0
Sibsagar	0830	97	1016·8	1005·3	+0·5	17·4	15·3	13·7	15·7	80	−8	3·8	−2·0	2·8	0	0	17	11	6	0	0	0	0	0	0	12	0
	1730	"	1012·3	1001·1	..	21·5	18·0	15·7	17·8	70	..	3·9	..	2·3	0	0	13	7	4	0	2	0	0	0	0	16	0
Gohpur	0830	..	..	..	..	16.0	14·5	13.3	15·3	84	..	4·6	..	3.3	0	0	25	1	8	4	10	0	0	0	2	4	0
	1730	..	..	..	..	20·0	16·1	13·2	15·2	64	..	4·0	..	4·4	0	0	26	5	13	1	2	0	0	0	4	3	1
Majbat	0830	..	..	..	..	19.2	15.3	12.2	14·2	64	..	1·9	..	3·9	0	0	28	2	7	10	7	0	0	0	0	1	2
	1730	..	..	..	..	20·8	16.3	12.9	14.9	61	..	1·7	..	2·1	0	0	19	3	5	4	2	1	1	2	1	10	0
Jorhat (Aerodrome)	0530	90	1013·9	1003·2	..	12·7	12·2	11·8	13·8	95	..	4·4	..	3·1	0	0	10	0	6	1	0	1	1	0	1	19	0
	0830	"	1015·9	1005·1	..	17·6	15·2	13·4	15·4	78	..	4·4	..	4·5	0	0	14	0	10	1	1	0	1	1	0	15	0
	1130	"	1011·4	1001·1	..	22·6	17·1	13·1	15·1	56	..	3·7	..	7·6	0	0	26	3	15	3	0	1	2	0	2	3	0
	1730	"	1011·5	1001·1	..	19·9	16·3	13.6	15·6	67	..	4·0	..	4·7	0	0	16	0	16	0	0	0	0	0	0	13	0
	2330	"	1013·5	1002·9	..	14·9	13·9	13·1	15·1	89	..	3·7	..	5·1	0	0	16	2	9	1	0	1	2	0	1	13	0
Tezpur	0830	78	..	..	..	17·7	14·5	11·9	13·9	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	..	..	..	19·6	15.3	11·9	13·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	79	1016·3	1007·5	+0.1	17·0	14·6	12·7	14·7	75	−6	2·0	−1·0	2·9	0	0	29	4	16	5	2	0	1	0	1	0	0
	1730	"	1012·8	1003·3	..	22·2	16·1	11·3	13.4	52	..	2·0	..	1·8	0	0	23	5	11	6	0	2	3	0	0	6	0
Golaghat	0830	..	..	..	..	16·7	14·5	12·7	14·7	76	..	2·3	..	1·8	0	0	25	0	14	1	2	0	4	0	4	4	0
	1730	..	..	..	..	24·3	19·2	15·9	18·1	62	..	(f) 2·1	..	(f) 2·1	0	0	25	0	14	0	0	0	2	0	9	0	0
Rangia	0830	30	1016·6	1009·6	..	19·6	15·0	11·2	13·3	58	..	(f) 0·7	..	(d) 3·0	0	0	26	0	5	14	2	1	0	2	2	1	0
	1730	"	1012·1	1005·2	..	24·1	18·8	15·3	17·4	57	..	(i) 0.6	..	(i) 1·3	0	0	7	0	2	1	0	0	0	2	2	15	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara	0830	33	1016·7	1012·1	..	16·6	14·3	12·5	14.5	76	..	0	..	1·1	0	0	17	0	13	1	1	0	0	1	1	12	0
	1730	"	1013·5	1009·2	..	26·3	18·6	13·2	15·2	47	..	0·6	..	1·8	0	0	22	2	6	1	2	0	3	3	5	7	0
Gauhati (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	0230	54	1012.9	1006·4	..	13·1	12·3	11·6	13.7	91	..	1·3	..	1·5	0	0	4	0	0	1	0	1	2	0	0	25	0
	0530	"	1013·5	1007·0	..	11·6	11·2	10·8	12·9	95	..	1·5	..	1·2	0	0	6	1	1	2	0	0	1	1	0	23	0
	0830	..	1015·7	1009·4	+0.2	17·6	15·0	13·0	15·0	75	+7	1·5	−1.2	2·0	0	0	11	2	4	2	1	2	0	0	0	18	0

(R) Register not received. (f) Mean of 25 days. (d) Mean of 27 days. (i) Mean of 22 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h): 62 or more	Wind speed (km. p.h): 20 to 61	Wind speed (km. p.h): 1 to 19	No. of observations, Wind direction: NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Bhorjor)—*Contd.*	1130	54	1014·1	1008.0	..	23·7	17·1	12·1	14·1	48	..	1·7	..	6·7	0	0	25	7	12	0	0	4	1	1	0	4	0
	1730	"	1011·1	1004·9	..	22·6	16·7	12·2	14·2	52	..	2·1	..	2·4	0	0	13	1	5	0	1	0	1	3	2	16	0
	2330	"	1013·7	1007·2	..	14·9	13·6	12·5	14·5	86	..	1·5	..	1·6	0	0	8	0	2	1	0	2	3	0	0	21	0
Dhubri (Rupsi)	0530	36	1013·1	1007·7	..	12·2	11·4	10·7	12·9	90	..	1·2	..	3·5	0	0	18	0	15	2	0	0	0	1	0	11	0
	0830	"	1015·3	1010·1	..	17·8	14·7	12·2	14·2	70	..	1·4	..	7·6	0	0	29	0	13	10	1	2	1	2	0	0	0
	1130	"	1014·2	1009·0	..	24·7	16·9	10·8	12.9	42	..	1·1	..	9·4	0	1	28	0	5	14	2	2	3	3	0	0	0
	1730	"	1011·1	1005·9	..	21·9	16·7	12·8	14·8	58	..	1·1	..	2·9	0	0	16	1	4	1	0	0	2	7	1	13	0
Dhubri . .	0830	35	1015·9	1011.8	+0.3	17·7	15·0	12·9	14·9	73	—3	1·0	—1·0	7·7	0	1	26	0	21	2	2	0	1	0	0	2	1
	1730	"	1011·7	1007·6	..	23·0	16·4	11·2	13·3	48	..	0·7	..	0·5	0	0	2	0	2	0	0	0	0	0	0	27	0
Lumding . .	0830	149	1016·4	999·0	..	17.1	14·0	11·4	13·5	71	—16	1·0	..	1·9	0	0	10	0	3	4	1	0	2	0	0	19	0
	1730	"	1011·4	994·3	..	24·0	17·4	12·5	14·5	49	..	3·2	..	2·0	0	0	11	0	1	2	0	1	3	0	4	18	0
Tura . .	0830	370	1016·1	973·4	..	17·9	14·5	11·7	13·7	66	..	6.7	..	2·8	0	0	27	0	0	12	9	2	3	1	0	2	0
	1730	"	1011·4	969·6	..	23·8	19·6	17·0	19·4	68	..	7·3	..	2·8	0	0	29	2	1	5	3	4	9	4	1	0	0
Haflong .	0830	682	1017·7	940.4	..	17·1	13·4	10·5	12·7	66	..	2·6	..	7·4	0	0	29	0	0	0	0	10	16	0	3	0	0
	1730	"	1010·9	934·8	..	19·9	14·8	11·0	12·7	58	..	2·0	..	7·6	0	0	29	0	0	0	0	5	23	0	1	0	0
Silchar (Kumbhirgram)	0530	97	1012·7	1001·2	..	14·2	12·7	11·4	13·5	85	..	3·3	..	9·2	0	0	29	0	1	27	0	0	0	1	0	0	0
	0830	"	1014·7	1003·4	..	18·1	15·3	13·1	15·1	73	..	3·0	..	9·1	0	0	29	0	0	29	0	0	0	0	0	0	0
	1130	"	1012·7	1001·7	..	24·1	17·7	13·1	15·1	50	..	3·0	..	6·0	0	0	24	0	0	8	7	1	7	1	0	5	0
	1730	"	1010.2	999·2	..	23·1	17·4	13·3	15·3	54	..	1·9	..	3·2	0	0	23	4	3	4	0	1	3	6	2	6	0
Silchar .	0830	29	1015·9	1012·5	—0·1	18·8	15·8	13·6	15·6	71	—6	2·7	+0·4	1·7	0	0	25	2	7	6	4	4	2	0	0	4	0
	1730	"	1011·3	1008·0	..	23·8	18·1	14·2	16·2	55	..	2·2	..	0·4	0	0	6	2	0	0	1	0	1	0	2	23	0
Imphal (Tulihal)	0530	781	1017·2	926·6	..	8·1	7·9	7·7	10·5	97	..	4.3	..	0·8	0	0	5	0	1	2	0	0	0	0	2	24	0
	0830	"	1017·4	928·6	+0·3	14·3	12·2	10·5	12·7	78	+8	4·0	+1·5	1·6	0	0	8	0	2	2	2	1	0	1	0	21	0
	1130	"	1013·5	926·6	..	20·8	16·0	12·7	14·7	59	..	4·6	..	7·1	0	2	22	1	1	0	2	4	6	6	4	5	0
	1730	"	1011·5	924·6	..	18·8	15·5	13·3	15·3	70	..	3·7	..	9·8	0	1	25	1	0	1	0	0	2	9	13	3	0
	2330	"	1015·9	926·6	..	11·9	11·1	10·4	13·5	91	..	3·3	..	4·0	0	2	10	0	2	0	0	0	2	5	3	17	0
Kailashahar	0530	29	1014·7	1011·3	..	13·6	13·2	12·9	14·9	95	..	3·0	..	1·2	0	0	9	2	0	1	4	1	1	0	0	20	0
	0830	"	1016·1	1012·7	..	18·1	15·7	13·9	15·9	76	..	2·0	..	3·7	0	0	24	1	0	2	1	9	10	1	0	5	0
	1130	"	1014·8	1011·5	..	25·6	18·8	14·2	16·2	50	..	3·0	..	4·3	0	0	22	3	2	2	1	4	5	5	0	7	0
	1730	"	1011·9	1008·6	..	24·1	19·0	15·7	17·8	61	..	3·1	..	1·4	0	0	7	0	2	0	1	1	1	0	2	22	0
Agartala . .	0230	16	1012·1	1010·2	..	15·6	14·9	14·4	16·4	91	..	1·4	..	3·7	0	0	16	0	3	0	5	6	0	0	2	13	0
	0530	"	1012·4	1010·5	..	15·0	14·3	13·7	15·7	92	..	3·0	..	4·1	0	0	17	1	2	0	2	10	0	1	1	12	0
	0830	"	1014·7	1012·8	+0·7	20·4	17·5	15·5	17·6	73	+2	3·2	+0·1	6·7	0	1	18	0	5	1	1	8	0	2	2	10	0
	1130	"	1013·4	1011.6	..	26·6	19·3	14·5	16·5	48	..	3·1	..	11·6	0	3	25	6	2	0	0	5	5	4	6	1	0
	1730	"	1010·7	1008·9	..	24·8	18·7	14·6	16·6	53	..	2·8	..	6·6	0	2	22	6	4	2	0	4	4	2	2	5	0
	2330	"	1012·8	1010·9	..	17·6	16·3	15·4	17·5	86	..	1·3	..	5·1	0	1	16	0	2	1	4	6	1	0	3	12	0
Sub-Himalayan West Bengal																											
Baghdogra . .	0230	131	1013·2	997·6	..	12·2	10·9	9·7	12·0	85	..	0·8	..	2·4	0	0	17	8	2	1	0	0	0	3	3	12	0
	0530	"	1013·3	997·5	..	10·7	9·8	8·9	11·4	88	..	0·9	..	3·4	0	0	16	3	0	3	0	0	1	7	2	13	0
	0830	"	1015·5	1000.1	+1·2	17·6	14·0	11·0	13·1	65	—6	1·3	—0·5	5·4	0	0	20	3	6	5	1	0	1	4	0	9	0
	1130	"	1014·3	999·3	..	24·8	16·4	9·5	11·9	38	..	1·4	..	10·8	0	0	29	0	1	12	8	2	5	1	0	0	0
	1730	"	1011.0	995·9	..	22·1	16·0	11·1	13·2	50	..	2·7	..	4·7	0	0	17	0	3	0	1	1	5	7	0	12	0
	2330	"	1013·6	998·1	..	13·5	12·0	10·6	12·8	83	..	1·0	..	5·1	0	0	23	9	5	3	0	0	0	2	4	6	0
Jalpaiguri . .	0830	83	1015·4	1005·7	+0·2	14·6	13·2	12·0	14·0	84	+4	0·7	—1·0	3·4	0	0	23	8	3	2	1	1	0	2	6	6	0
	1730	"	1010·9	1001·4	..	23·8	16·7	11·1	13·2	45	..	0·7	..	3·2	0	0	18	0	1	3	1	3	6	4	0	11	0
Cooch-Behar .	0830	43	1015·7	1010·6	..	17·9	14·7	12·1	14·1	70	..	1·7	..	8·3	0	0	27	0	4	18	1	1	2	0	1	2	0
	1130	"	1014·4	1009·5	..	24·1	16·9	11·3	13·4	45	..	1·5	..	12·4	0	4	25	0	7	13	1	3	3	0	0	0	2
	1730	"	1011·2	1006.3	..	22·5	16·9	12·7	14·7	54	..	1·4	..	0·7	0	0	4	0	0	1	0	0	3	0	0	25	0
Balurghat . .	0830	26	1014.3	1011·3	..	18·5	14·8	11·8	13·8	66	..	1·1	..	2·3	0	0	23	3	3	4	3	2	3	3	2	6	0
	1730	"	1010·2	1007·2	..	23·9	17·3	12·4	14·4	49	..	0·9	..	0·7	0	0	8	0	0	0	0	0	4	3	1	21	0
Malda . .	0830	31	1015·3	1011·6	—0·2	19·0	14·7	11·1	13·2	60	—11	1·3	—0·1	3·5	0	0	28	6	4	3	2	1	3	2	7	1	0
	1730	"	1011·3	1007·7	..	24·9	16·9	10·6	12·8	41	..	1·2	..	2·8	0	0	25	2	2	4	0	0	1	2	14	4	0
Gangetic West Bengal																											
Berhampore . .	0830	19	1015·1	1012.9	—0·2	19·9	15·7	12·5	14·5	62	—8	0.5	—1·7	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	"	1010·7	1008·5	..	26·3	17·9	11·7	13·7	41	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Suri . .	0830	..	..	..	..	20·4	15·0	10·5	12·7	53	..	1·2	..	3·5	0	0	28	9	3	4	1	4	1	4	2	1	0
Asansol .	0230	126	1012·9	988·1	..	15·7	13·1	10·8	12·9	73	..	1·2	..	1·0	0	0	5	0	1	0	0	0	1	0	3	24	0
	0530	"	1013.3	998·4	..	14·7	12·5	10·5	12·7	77	..	1·1	..	1·4	0	0	8	2	2	0	0	0	1	1	2	21	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS— FEBRUARY 1964 (MAGHA 12, —PHALGUNA 10, 1885 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Meanpressre in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Meanpressre in millibars: At station level	Meanpressre in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Asansol—*Contd.*	0830	126	1015·3	1000·7	+0·3	20·3	15·2	11·0	13·1	56	—7	1·3	—0·8	4·7	0	0	22	6	2	1	1	0	1	4	7	7	0
	1130	,,	1014·3	1000·0	..	27·3	17·8	10·5	12·7	35	..	1·0	..	7·2	0	0	29	4	7	1	4	1	2	3	7	0	0
	1730	,,	1011·0	996·7	..	26·2	17·7	11·3	13·4	40	..	1·3	..	3·2	0	0	20	1	0	0	0	2	2	2	13	9	0
	2330	,,	1013·6	998·8	..	18·1	14·4	11·3	13·4	66	..	1·0	..	3·2	0	0	16	5	0	0	0	2	2	2	5	13	0
Shanti Niketan	0830	59	1015·5	1008·7	..	20·8	15·2	10·6	12·8	53	..	1·2	..	5·7	0	0	27	11	5	0	0	0	5	1	5	2	0
	1130	,,	1014·8	1008·1	..	26·5	17·0	9·3	11·7	34	..	1·6	..	5·8	0	0	27	4	7	1	5	0	3	3	4	2	0
	1730	,,	1011·4	1004·7	..	25·7	17·3	10·8	12·9	40	..	1·5	..	3·1	0	0	21	9	1	0	0	0	2	6	3	8	0
Krishnanagar	0830	15	1015·3	1013.7	+0·1	20·9	16·6	13·5	15·5	64	—9	0·8	—1·4	0·3	0	0	3	0	0	0	0	3	0	0	0	26	0
	1730	,,	1011·2	1009·5	..	26·7	19·5	14·8	16·8	49	..	1·1	..	0·1	0	0	1	0	0	0	0	1	0	0	0	28	0
Purulia	0830	255	1015·8	986·4	+0·4	20·1	13·9	8·2	10·9	47	—6	1·5	+0·3	5·1	0	0	27	0	5	0	4	0	1	0	17	2	0
	1730	,,	1010·8	982·3	..	26·0	16·8	9·3	11·7	37	..	2·8	..	2·9	0	0	20	0	4	0	3	0	2	0	11	9	0
Bankura	0830	100	1014·3	1002·7	..	20.7	14·7	9·5	11.9	51	..	0·7	..	0·9	0	0	13	2	7	1	0	0	1	0	2	16	0
	1730	,,	1011·6	1000·3	..	27·4	17·4	9·4	11·8	30	..	1·1	..	0·3	0	0	2	0	1	0	0	0	0	0	1	27	0
Burdwan	0830	32	1014·9	1011·1	—0·4	22·3	16·9	12.9	14·9	56	—11	1·0	—1·3	1·4	0	0	10	2	0	3	0	1	0	3	1	19	0
	1730	,,	1009·9	1006·1	..	27·5	19·1	13.3	15·3	42	..	1·0	..	2·4	0	0	12	3	0	1	0	4	0	3	1	17	0
Barrackpore (Aerodrome)	0530	7	1012·9	1012·1	..	17·5	16·5	15·8	17·9	90	..	3·1	..	2·0	0	0	10	1	3	2	0	2	1	1	0	19	0
	0830	,,	1015·2	1014·4	+0·5	21·1	18·5	16 9	19·3	76	+7	2·4	+0.6	5·8	0	1	22	6	4	6	2	1	2	2	0	6	0
	1130	,,	1014·4	1013·6	..	26·6	19·5	14·9	16·9	49	..	2·1	..	8·8	0	1	28	3	2	4	2	4	3	5	6	0	0
	1730	,,	1011·3	1014·3	..	25·7	20·8	17·9	20·5	64	..	2·3	..	4·7	0	2	14	2	0	1	0	4	1	2	6	13	0
	2330	,,	1013·4	1012·5	..	19·6	17·4	15·9	18·1	80	..	1·1	..	2·3	0	0	11	0	2	0	1	1	4	3	0	18	0
Calcutta (Dum Dum)	0230	6	1012·0	1011·2	..	18·6	17·3	16·5	18·8	88	..	3·0	..	3·4	0	0	16	3	4	0	0	6	3	0	0	13	0
	0530	,,	1012·3	1011·6	..	17·8	16·8	16·1	18·3	90	..	3·4	..	3·1	0	0	16	4	4	0	1	2	5	0	0	13	0
	0830	,,	1014·8	1014·0	—0·1	21·3	18.3	16·3	18·5	74	+4	3·4	+1·5	5·0	0	0	26	8	5	1	4	2	3	2	1	3	0
	1130	,,	1014·0	1013·2	..	27·2	19·7	14·8	16·8	48	..	3·1	..	6·5	0	0	27	5	7	0	1	3	2	4	5	2	0
	1730	,,	1010·8	1010·0	..	26·1	19·8	15·8	17·9	53	..	2·4	..	2·7	0	0	15	4	0	1	0	7	1	1	1	14	0
	2330	,,	1012·9	1012·1	..	19·6	17·7	16·5	18·8	81	..	1·4	..	4·5	0	0	21	3	4	0	1	8	5	0	0	8	0
Calcutta	0830	6	1014·6	1013·9	—0·5	21·8	18·6	16·6	18·9	72	—7	3·0	+0·7	5·8	0	0	25	4	5	4	0	4	3	3	2	4	0
	1130	,,	1013·7	1012·9	..	27·7	20·0	15·1	17·1	47	..	2·2	..	5·5	0	0	26	3	3	3	2	2	3	6	4	3	0
	1730	,,	1010·6	1009·9	..	26·8	19·7	15·1	17·1	50	..	2·3	..	3·7	0	0	20	2	1	1	1	6	1	3	5	9	0
Midnapore	0830	45	1015·0	1009.8	—0·1	22·2	17·1	13·4	15·4	58	—6	2·1	+0·1	2·4	0	0	23	3	11	3	0	2	1	1	0	6	2
	1730	,,	1010·8	1005 6	..	28·3	18·7	11·7	13·7	39	..	1·7	..	1·5	0	0	13	2	6	0	0	3	1	1	0	16	0
Contai	0830	11	1014·5	1013·3	+0·6	22·7	19·9	18·3	21.0	76	+8	1·8	+0·6	2·8	0	0	20	9	0	1	0	5	3	2	0	9	0
	1730	,,	1010·8	1009·6	..	24.9	21·3	19·3	22·4	71	..	1·5	..	3·2	0	0	24	2	0	0	8	12	2	0	0	5	0
Sagor Island	0830	3	1014·1	1013·7	—0·9	23·1	20·7	19·3	22·4	79	+1	3·2	+0·6	15·1	0	8	20	6	7	2	0	2	9	1	1	1	0
	1730	,,	1010·6	1010·3	..	24·7	21·6	19·9	23·2	75	..	2·7	..	14·0	0	4	23	3	2	0	3	11	7	1	0	2	0
Sandheads	0530	10	1012·4	1011·3	..	23·9	22·1	21·2	25·2	84	..	3·1	..	12·1	0	6	19	3	4	0	0	3	12	1	2	4	0
	0830	,,	1014·0	1012·9	—1·2	24·8	22·6	21·5	25·6	82	+12	2·5	+0·7	13·4	0	5	21	6	4	0	0	2	11	0	3	3	0
	1130	,,	1013·7	1012·6	..	25·6	22·9	21·5	25·6	79	..	2·5	..	13·6	0	5	23	4	7	1	1	0	11	2	2	1	0
	1730	,,	1011·6	1010·5	..	25·2	22·7	21·5	25·6	79	..	2·8	..	10·5	0	3	20	0	6	1	0	4	12	0	0	6	0
	2330	,,	1012·8	1011·7	..	24·3	22·5	21·6	25·8	85	..	1·5	..	12·7	0	5	20	1	4	2	1	6	10	1	0	4	0
Orissa																											
Baripada	0830	54	1015·6	1009·2	..	21·8	17·0	13·5	15·5	61	..	1·9	..	4·2	0	0	26	9	4	0	0	1	2	3	6	3	1
	1730	,,	1011·6	1005·5	..	27·1	19·4	14·3	16·3	47	..	2·2	..	2.4	0	0	13	1	2	1	4	3	1	0	0	16	1
Jharsuguda	0230	230	1012·1	985·5	..	18·3	16·0	14·3	16·3	78	..	1·5	..	2·8	0	0	13	6	5	1	0	0	0	0	1	16	0
	0530	,,	1012.5	985·8	..	17·0	15·2	13·8	15.8	82	..	2·1	..	2·7	0	0	12	4	8	0	0	0	0	0	0	17	0
	0830	,,	1014·6	988·2	+0·1	20·7	16·3	13·0	15·0	62	+6	2·7	+1·4	6·3	0	0	22	6	12	1	0	1	0	1	1	7	0
	1130	,,	1013·7	987·8	..	27·0	18.9	13·3	15·3	45	..	2·5	..	7·7	0	2	23	3	8	2	3	3	4	2	0	4	0
	1730	,,	1009·9	984·2	..	27·9	19·3	13·4	15·4	43	..	3·0	..	4·8	0	1	16	1	4	1	1	4	3	2	1	12	0
	2330	,,	1012·7	986·3	..	20·5	17.2	14·1	16·1	71	..	1·7	..	3·4	0	1	13	5	4	2	1	1	0	0	1	15	0
Keonjhargarh	0830	463	1014·9	963·1	..	22·5	17·0	12·9	14·9	59	..	1·8	..	2·1	0	0	27	6	5	4	2	0	0	8	2	2	0
	1730	,,	1010·5	959·1	..	24·8	18·5	14·2	16·2	54	..	2·7	..	2·1	0	0	29	6	1	2	1	3	1	14	1	0	0
Balasore	0830	20	1014·7	1012·3	—0·6	21·9	18·5	16·3	18·5	71	+2	3·3	+1·3	7·2	0	1	27	16	1	0	1	5	3	0	2	1	0
	1730	,,	1010·9	1008·6	..	24·8	20·7	18·3	21·0	68	..	3·1	..	6·9	0	1	26	1	0	1	11	13	1	0	0	2	0
Sambalpur	0830	148	1014·3	997·3	—0·7	22·1	18·3	15·8	17·9	68	+3	1·5	—0·2	0·6	0	0	8	1	7	0	0	0	0	0	0	21	0
	1730	,,	1010·2	993·7	..	27·5	19·7	14·6	16·6	47	..	1·2	..	1·2	0	0	5	3	1	0	1	0	0	0	0	24	0
Angu	0830	139	1014·9	998·7	—0·1	21.8	18·9	17·1	19·5	76	+9	4·0	+1·6	4·3	0	0	29	5	1	3	7	0	2	5	6	0	0
	1730	,,	1011·5	996·1	..	25·5	19·6	15·9	18·1	56	..	2·3	..	3·2	0	0	29	1	3	4	5	1	3	4	8	0	0
Cattack	0830	27	1014·7	1011·7	—0·4	23·6	20·7	19·1	22·1	75	—1	3·2	+0·9	3·7	0	0	18	1	2	4	0	1	6	3	1	11	0
	1730	,,	1010·6	1007·6	..	29·1	22·1	18·2	20·9	54	..	2·3	..	4·6	0	0	21	0	1	6	2	7	4	1	0	8	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*(Contd.)*																											
Chandbali	0830	6	1014·7	1014·0	−0·2	23·1	20·2	18·5	21·3	75	−2	2·6	+0·4	5·0	0	0	24	5	1	1	1	1	5	1	9	5	0
	1730	"	1010·9	1010·3	..	25·5	20·7	18·9	21·8	65	..	3·4	..	7·7	0	1	25	0	4	7	13	0	0	0	2	3	0
Bolangir	0830	190	1014·6	992·8	..	23·7	19·3	16·5	18·8	66	..	2·8	..	3·9	0	0	29	7	4	0	4	7	5	0	2	0	0
	1730	"	1009·8	988·5	..	29·5	21·5	16·8	19·1	49	..	2·5	..	4·4	0	0	29	9	7	2	3	2	3	0	3	0	0
Phulbani	0830	464	1012·8	960·2	..	19·4	17·2	15·7	17·8	79	..	1·7	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	"	1008·3	957·2	..	26·7	19·4	14·6	16·6	49	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Titlagarh	0830	211	1015·8	991·8	..	24·0	19·5	16·7	19·0	65	..	1·8	..	3·9	0	0	28	0	5	0	7	1	13	0	2	1	0
	1730	"	1009·3	985·6	..	30·0	21·2	15·8	17·9	47	..	1·3	..	3·5	0	0	27	0	14	1	2	0	6	0	4	2	0
Bhubaneswar	0230	46	1012·2	1006·8	..	21·3	20·0	19·3	22·4	88	..	1·7	..	10·6	0	4	23	0	4	3	1	4	12	2	1	2	0
	0530	"	1012·7	1007·3	..	20·7	19·5	18·7	21·6	89	..	2·1	..	8·1	0	2	25	4	5	2	1	4	7	3	1	2	0
	0830	"	1014·9	1009·6	+0·6	24·3	20·7	18·7	21·6	71	+3	2·9	+0·8	11·1	0	4	25	3	5	3	1	5	10	1	1	0	0
	1130	"	1014·2	1008·9	..	28·7	21·3	16·9	19·3	51	..	3·1	..	12·6	0	4	23	0	4	5	1	5	10	1	1	2	0
	1730	"	1011·1	1005·9	..	27·3	21·4	18·1	20·8	59	..	3·0	..	19·6	0	14	15	1	1	6	3	12	6	0	0	0	0
	2330	"	1013·5	1008·1	..	22·7	20·9	19·9	23·2	85	..	1·7	..	9·5	0	3	25	0	5	0	4	4	12	2	1	1	0
Puri	0830	6	1014·8	1014·1	0	25·0	22·2	20·7	24·4	77	+1	3·1	+1·1	7·8	0	2	27	5	5	2	0	3	12	1	1	0	0
	1730	"	1011·4	1010·7	..	25·7	22·8	21·3	25·3	77	..	2·8	..	11·0	0	2	27	1	1	2	6	12	7	0	0	0	0
Gopalpur	0530	17	1012·3	1010·4	..	21·8	20·2	19·3	22·4	87	..	2·3	..	4·2	0	2	13	2	1	0	0	2	4	0	6	14	0
	0830	"	1014·8	1012·8	0	24·2	21·3	19·7	22·9	77	+4	2·3	+1·1	5·4	0	4	14	5	1	0	0	4	3	0	5	11	0
	1130	"	1014·3	1012·3	..	27·5	23·1	20·9	24·7	67	..	2·8	..	8·1	0	5	22	0	1	3	12	10	1	0	0	2	0
	1730	"	1011·3	1009·4	..	26·0	23·0	21·5	25·6	76	..	3·7	..	10·7	0	4	25	0	0	6	8	11	4	0	0	0	0
	2330	"	1013·4	1011·4	..	23·8	22·1	21·3	25·3	85	..	3·2	..	7·2	0	4	13	0	0	0	0	9	6	0	2	12	0
Koraput (R)	0830	913	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1015·5	998·1	+0·1	18·9	14·1	9·9	12·2	57	−2	1·0	−0·6	3·4	0	0	15	0	2	3	5	0	2	0	3	14	0
	1730	"	1010·6	993·7	..	25·6	18·2	12·9	14·9	46	..	1·0	..	2·9	0	0	14	0	1	2	3	0	2	3	3	15	0
Daltonganj	0830	221	1018·8	1001·8	+11·8	15·9	12·8	10·0	12·3	69	−4	0·5	−1·1	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	"	1013·3	998·0	..	23·6	16·5	10·9	13·0	45	..	0·2	..	0·2	0	0	1	0	1	0	0	0	0	0	0	28	0
Hazaribagh	0830	611	1015·1	945·9	+0·5	18·7	13·3	8·3	10·9	54	−6	1·4	−0·8	6·1	0	0	23	2	4	2	2	3	5	0	5	6	0
	1730	"	1010·8	942·8	..	22·7	15·5	9·4	11·8	46	..	1·9	..	9·0	0	0	28	12	1	0	1	1	1	1	11	1	0
Dhanbad	0830	257	1017·1	987·3	..	20·1	13·8	8·0	10·7	47	..	0·7	..	2·5	0	0	23	5	2	1	0	1	0	4	9	6	1
	1730	"	1010·6	981·7	..	18·5	16·6	15·3	17·4	81	..	0·6	..	0·9	0	0	6	1	0	0	0	0	0	1	4	23	0
Ranchi	0830	655	1014·5	941·0	+0·3	20·0	12·9	5·7	9·1	44	−10	1·8	−0·3	2·2	0	0	18	1	1	4	0	2	2	2	6	11	0
	1730	"	1010·0	937·4	..	22·7	15·4	9·2	11·6	46	..	2·3	..	1·3	0	0	13	1	0	0	1	0	2	0	9	16	0
Ranchi Aerodrome	0530	652	1013·3	939·0	..	14·9	10·9	6·7	9·8	59	..	2·2	..	8·0	0	0	26	9	3	1	0	1	3	5	4	3	0
	0830	"	1014·9	941·2	..	17·8	12·3	6·9	9·9	50	..	2·5	..	8·3	0	0	24	4	7	2	0	1	3	1	6	5	0
	1130	"	1013·5	941·1	..	22·8	14·2	5·9	9·3	35	..	2·2	..	12·5	0	4	24	4	3	2	2	4	3	5	5	1	0
	1730	"	1009·7	937·9	..	23·9	14·7	5·9	9·3	34	..	2·9	..	14·7	0	5	23	5	0	2	3	1	3	2	12	1	0
Jamshedpur	0830	129	1015·2	1000·2	0	19·4	15·6	12·7	14·7	64	−8	1·9	−0·4	3·2	0	0	28	1	1	2	3	0	0	15	6	1	0
	1730	"	1010·2	995·7	..	28·1	18·3	10·9	13·0	36	..	2·5	..	2·8	0	0	26	2	0	5	3	0	1	11	4	3	0
Jamshedpur (P.B.O.)	0530	142	1013·1	996·5	..	16·6	14·0	11·9	13·9	74	..	1·7	..	1·7	0	0	8	0	1	0	0	2	1	2	2	21	0
	0830	"	1015·4	999·0	..	20·7	14·9	10·5	12·7	57	..	2·1	..	4·0	0	1	18	0	2	2	0	0	1	5	9	10	0
	1130	"	1014·2	998·1	..	26·2	16·9	9·3	11·7	36	..	1·6	..	5·4	0	0	26	2	3	7	0	4	2	3	5	3	0
	1730	"	1010·3	994·3	..	27·7	17·7	9·9	12·2	35	..	2·4	..	3·0	0	0	18	3	1	2	1	1	1	5	4	11	0
	2330	"	1013·2	996·8	..	20·1	16·0	12·9	14·9	64	..	1·4	..	2·7	0	0	12	0	2	0	0	2	1	1	6	17	0
Chaibasa	0830	226	1015·0	988·8	−0·2	19·6	16·1	13·5	15·5	69	−2	2·9	+0·8	2·3	0	0	23	0	8	0	1	0	13	0	1	6	0
	1730	"	1010·1	984·7	..	26·9	19·6	14·9	16·9	49	..	2·5	..	1·9	0	0	17	0	8	0	0	0	6	1	2	12	0
Bihar Plains—																											
Motihari	0830	66	1014·9	1007·0	−0·1	15·1	12·8	10·8	14·7	77	+1	(c) 0·8	−0·9	(c) 0·5	0	0	7	0	0	0	0	0	2	3	2	19	0
	1730	"	1011·3	1003·7	..	23·6	16·9	11·8	13·8	49	..	0·3	..	0·1	0	0	2	0	0	0	0	0	1	1	0	27	0
Forbesganj	0830	61	1015·4	1008·3	..	16·3	13·4	10·9	13·0	70	..	1·3	..	3·9	0	0	26	0	9	10	0	0	0	7	0	3	0
	1730	"	1011·1	1004·1	..	23·2	16·8	11·9	13·9	49	..	1·5	..	3·4	0	0	25	0	1	1	0	0	1	19	3	4	0
Darbhanga	0830	49	1016·2	1010·4	+1·1	19·3	15·3	12·1	14·1	67	−6	0·7	−1·0	1·2	0	0	7	0	1	0	0	0	0	4	2	22	0
	1730	"	1011·8	1006·1	..	24·5	20·7	18·5	21·3	70	..	0·7	..	0·3	0	0	5	0	1	0	0	0	0	2	2	24	0
Chapra	0830	58	1015·9	1009·2	..	18·3	14·0	9·3	11·7	62	..	1·2	..	2·1	0	0	20	0	1	0	6	0	12	0	1	9	0
	1730	"	1015·8	1009·1	..	22·4	15·5	9·9	12·0	46	..	0·4	..	3·7	0	0	27	0	0	0	3	1	16	6	1	2	0
Purnea	0830	38	1015·4	1011·0	+0·2	16·8	13·6	10·9	13·0	68	−8	1·3	−0·4	1·9	0	0	20	0	1	9	0	0	3	7	0	9	0
	1730	"	1010·6	1006·2	..	23·7	16·6	11·0	13·1	45	..	1·1	..	2·5	0	0	19	2	0	0	0	0	2	13	2	10	0
Patna	0830	53	1015·5	1009·3	+0·1	17·0	13·3	10·0	12·3	64	+1	1·5	−0·4	4·7	0	0	25	0	1	2	2	2	6	12	0	4	0
	1730	"	1011·5	1005·5	..	24·5	16·2	9·3	11·7	39		1·5	..	4·2	0	0	25	1	2	1	0	2	3	13	3	4	0

(c) Mean of 26 days.

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna Aerodrome	0530	60	1012·7	1005·6	..	12·3	10·9	9·5	11·9	82	..	1·0	..	1·4	0	0	8	0	0	0	2	1	3	2	0	21	0
	0830	"	1015·1	1008·1	..	16·4	12·9	9·7	12·0	66	..	1·7	..	5·9	0	0	20	1	1	2	4	0	3	7	1	9	1
	1130	"	1014.7	1007·9	..	23·4	15·7	9·1	11.5	42	..	1·9	..	11·1	0	3	24	3	1	1	6	1	2	10	3	2	0
	1730	"	1011·3	1004·4	..	24.0	16·1	9·5	11·9	41	..	1·8	..	3·9	0	0	17	0	1	2	1	0	3	7	3	12	0
	2330	"	1013·1	1006·1	..	15·3	12·9	10·8	12·9	74	..	0·5	..	1·5	0	0	9	1	1	1	1	0	1	1	3	20	0
Bhagalpur	0530	49	1013·2	1007·4	..	14·2	12·0	10·0	12·3	77	..	1·4	..	2·5	0	0	15	0	0	3	3	5	3	1	0	14	0
	0830	"	1015·6	1009·8	+0·9	17·9	13·9	10·5	12·7	64	+3	2·1	+1·0	2·3	0	0	15	0	0	2	3	0	6	3	1	14	0
	1130	"	1015·2	1009·6	..	23·8	16·1	9·7	12·0	42	..	1.9	..	5·6	0	1	24	0	1	4	2	0	3	11	3	4	1
	1730	"	1011.5	1005·9	..	23·5	16·7	11·4	13·5	44	..	1·7	..	3.5	0	0	22	0	0	1	1	0	5	11	3	7	1
	2330	"	1013·7	1007·9	..	17·7	13·8	10·4	12·6	64	..	0·7	..	3·6	0	0	21	0	2	5	2	3	6	2	1	8	0
Sabaur	0830	37	1015·4	1010·9	+0.4	16·5	13·9	11·7	13·7	75	—4	2·0	−0·4	2·2	0	0	22	1	1	4	0	1	6	8	1	7	0
	1730	"	1011·0	1007·0	..	24·1	18·2	14·1	16·1	53	.	1·7	..	2·3	0	0	21	0	0	0	0	0	0	8	13	8	0
Jamui	0830	82	1016·7	1007·0	..	17·9	14·4	11·5	13·6	67	..	0.3	..	2·8	0	0	26	0	3	5	0	0	0	6	12	3	0
	1730	"	1013·0	1003·4	..	24·6	17·6	12·5	14·5	49	..	0·3	..	2·7	0	0	25	1	4	0	0	0	0	10	10	4	0
Dehri	0830	107	1015·4	1002.8	..	18·0	13·9	10·3	12.5	63	..	1 1	..	3·1	0	0	29	1	1	2	5	5	11	2	2	0	0
	1730	"	1010.9	998·6	..	25·3	16·2	8·4	11·0	33	..	1·4	..	3·5	0	0	29	7	2	4	1	0	0	12	3	0	0
Gaya	0230	116	1013·7	999.9	..	13·6	11·3	9·1	11.5	74	..	0·5	..	3·9	0	0	21	1	2	0	3	10	4	1	0	8	0
	0530	"	1013·8	999·9	..	12·2	10·3	8·4	11·0	78	..	0·9	..	4·9	0	0	22	0	0	0	5	9	5	3	0	7	0
	0830	"	1015·8	1002·1	+0·4	17·1	13·1	9·5	11 9	62	+2	1·2	−0·6	3·8	0	0	20	0	0	1	1	4	10	2	2	9	0
	1130	"	1015·3	1002·0	..	24·5	15·5	7·5	10·4	35	..	1·2	..	9·4	0	3	26	2	5	3	2	1	3	6	7	0	0
	1730	"	1011·6	998·3	..	24·6	15·9	8·5	11 1	37	..	1·7	..	6·5	0	0	27	6	10	0	1	0	0	1	9	2	0
	2330	"	1014·1	1000·3	..	15·8	12·4	9·2	11 6	67	..	0·3	..	3·2	0	0	17	0	0	1	7	4	3	1	1	12	0
Uttar Pradesh (East)																											
Kheri	0830	147	1014·5	996·7	0	12·6	9·8	7·7	10·5	71	−3	0·9	−0·7	1·8	0	6	19	2	1	3	1	0	0	11	1	10	0
	1730	"	1011.4	994·5	..	23·0	15·9	9·0	11·5	42	..	2·3	..	2·4	0	0	23	0	0	2	0	0	0	19	2	6	0
Bahraich	0830	124	1015·2	1000·5	+0·6	14·4	11·0	7·4	10·3	65	−11	1·7	+0.1	3 6	0	0	19	1	0	4	1	0	1	9	3	10	0
	1730	"	1011·7	997.4	..	23·5	15·3	7·8	10·7	37	..	2.1	..	2·3	0	0	18	0	0	3	1	0	1	12	1	11	0
Nautanwa	0830	99	1014·3	1002·5	..	13·5	11.5	9·5	11·9	77	..	0·5	..	2·1	0	0	23	0	1	7	7	0	3	2	3	8	0
	1730	"	1011·1	1000·0	..	24·3	16·3	9·7	12·0	42	..	0·7	..	3·1	0	0	19	0	0	4	3	0	8	3	1	10	0
Hardoi	0830	142	1018·4	1001·2	+4.1	13·9	10·9	7·9	10·7	68	−4	2·1	+0·6	3·9	0	0	26	4	0	4	1	0	1	7	9	3	0
	1730	"	..	..	..	23·6	15·6	8·3	10·9	39	..	3·0	..	2.8	0	0	25	2	1	2	0	0	2	11	7	4	0
Gonda	0830	110	1015·7	1002·7	..	23·3	15·9	9·7	12·0	62	−13	0·6	−1·6	1·5	0	0	17	1	0	5	0	0	0	2	9	12	0
	1730	"	1011·7	999·2	..	23·3	15·9	9.7	10.9	43	..	0·6	..	0·5	0	0	4	0	0	0	0	0	0	3	1	25	0
Lucknow	0837	111	1015·1	1001·9	−0·2	13·4	10·9	8·2	10·9	72	+4	1·4	−0·6	2·0	0	0	20	0	0	2	1	2	1	12	2	9	0
	1730	..	1011·2	999.6	..	24·9	16·1	8·2	10·9	36	..	2·1	..	1·3	0	0	11	0	0	0	0	0	0	10	1	18	0
Lucknow (Amausi)	0230	128	1013·3	998·3	..	10·9	8·9	6·5	9·7	75	..	0·8	..	7·9	0	0	25	3	2	2	1	0	0	10	7	4	0
	0530	"	1013·2	997·8	..	9·1	7·7	6.1	10·9	82	..	0·9	..	7·1	0	0	27	2	4	3	0	0	3	8	7	2	0
	0830	"	1015·2	1000·0	−0·3	14.0	10·6	7·0	10·0	62	−6	1·4	−0·6	7·9	0	23	1	3	1	2	1	0	2	10	5	5	0
	1130	"	1014·8	1000·2	..	23·7	14·8	5·9	9·3	34	..	1·0	..	13·8	0	20	7	1	0	4	2	3	2	11	4	2	0
	1730	"	1011·3	996·8	..	24·3	15·4	7·4	7·5	36	..	2·6	..	11·7	0	3	25	1	1	3	0	1	3	13	6	1	0
	2330	"	1013·9	998·7	..	13.3	10·3	7·2	10·1	67	..	0·5	..	8.2	0	27	1	4	1	1	1	1	5	7	8	1	0
Faizabad	0830	102	1015·0	1002·9	..	14·0	11·0	7·7	10·7	67	..	1·5	..	1.8	0	0	15	1	3	0	2	0	1	5	3	14	0
	1730	"	1011.3	999·7	..	23·5	15·9	9·3	11·9	42	..	2·9	..	1.2	0	0	10	0	1	0	0	0	1	6	2	19	0
Gorakhpur	0830	77	1015.4	1006.3	+0·6	16.7	12.6	8·5	11·1	59	−12	0·8	−0·7	3·0	0	0	24	0	0	5	2	2	2	11	2	5	0
	1730	"	1010.6	1001.8	..	25·9	16·5	8·7	11·2	37	..	1·6	..	2·0	0	0	27	1	0	2	2	1	8	9	4	2	0
Gorakhpur P.B.O.	0230	78	1012·8	1003·5	..	14·3	11·3	8·7	11·2	71	..	0·7	..	3·0	0	0	12	3	2	0	1	0	1	2	3	17	0
	0530	"	1012·9	1003·5	..	12·9	10·4	8·2	10·9	74	..	0·6	..	2·2	0	0	13	3	1	0	1	1	3	3	1	16	0
	1130	"	1015·2	1006·2	..	23·1	15·2	9·3	11·7	43	..	1·2	..	6·6	0	0	28	0	3	1	7	5	3	8	1	1	0
	2330	"	1013·5	1004·3	..	16·1	12·7	10·1	12·3	69	..	0·3	..	2·3	0	0	12	2	1	0	0	2	2	4	1	17	0
Kanpur	0830	126	1015·3	1000·3	−0·1	13·7	10.7	7·4	10·4	67	−1	0·8	−0·5	3·6	0	0	15	2	2	1	1	1	2	3	3	14	0
	1730	"	1011·9	997·6	..	25·2	15·7	7·0	10·1	32	..	1·6	..	6·0	0	0	22	8	1	0	0	0	1	9	3	7	0
Kanpur (Aerodrome)	0530	124	1013·7	998·6	..	11·5	8·5	5·3	8.9	69	..	1·4	..	8·0	0	0	16	1	1	1	1	1	2	7	2	13	0
	0830	"	1015·6	1000·7	..	14·9	12·5	6·2	9·5	57	..	2·0	..	5·2	0	0	21	4	3	1	1	1	1	8	2	8	0
	1130	"	1015·5	1001·0	..	23·7	14·5	4·8	8·6	32	..	2·2	..	11·5	0	2	26	6	3	2	4	1	2	5	5	1	0
	1730	"	1011·7	997·5	..	24·9	14·6	3·6	7·9	27	..	3·2	..	9·7	0	1	26	7	1	3	0	0	1	8	7	2	0
	2330	"	1014·2	997·3	..	16·0	11·1	5·6	9·1	52	..	1·0	..	6·5	0	0	17	3	1	1	1	0	1	6	4	12	0
Sultanpur	0830	97	1016·0	1004·5	..	15.5	11·8	8·2	10·9	63	..	1·5	..	6.9	0	0	11	0	1	0	1	0	1	6	2	18	0
	1730	"	1011·0	1000·2	..	25·4	16·4	8·6	11·4	35	..	2·2	..	1·6	0	0	16	0	0	1	2	0	1	7	5	13	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in k.m. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Azamgarh	0830	78	1015·0	1005.5	..	14·7	12·2	9·8	12·2	74	..	0.5	..	6·1	0	0	29	0	0	1	0	0	1	27	0	0	0
	1730	,,	1011·1	1002·5	..	24·1	17·9	13.3	15.5	53	..	1.2	..	4·7	0	0	29	0	1	1	0	0	0	27	0	0	0
Fatehpur	0830	114	1015·8	1002·2	..	14·7	11·3	7·7	10·7	64	−7	1·0	−0·8	3.5	0	0	22	0	3	3	2	1	7	3	3	7	0
	1730	,,	1012·0	998 7	..	25·0	16·5	9·2	11·9	38	..	1·9	..	4·6	0	0	20	4	2	2	0	0	1	2	9	9	0
Ballia	0830	64	1016·6	1009·1	..	17·5	13·4	9.8	11·9	63	..	1·1	..	1·3	0	0	19	0	2	2	1	0	3	4	7	10	0
	1730	,,	1012·7	1005·7	..	19·6	17·0	12.2	14·2	53	..	0·5	..	0·4	0	0	6	0	0	1	1	0	0	2	2	23	0
Banda	0830	121	1016·8	1002.4	..	16·2	11.7	7.0	10.0	56	..	0.5	..	2·1	0	0	29	0	3	0	7	0	17	0	2	0	0
	1730	,,	1012·4	998.6	..	25·5	16.0	7.9	10.7	39	..	0.2	..	2·1	0	0	29	0	6	0	5	0	8	0	10	0	0
Allahabad (Bamhrauli)	0230	98	1013·5	1001·8	..	13.1	10.5	7.7	10.5	71	..	0·9	..	0.8	0	0	7	0	0	0	0	1	1	1	4	22	0
	0530	,,	1013.5	1001·7	..	11·6	9.7	7.2	10.1	74	..	0·9	..	1.4	0	0	10	2	1	0	1	2	1	3	0	19	0
	0830	,,	1015.6	1003.9	0	14·9	11.3	7.4	10.3	62	−4	1·3	−0·9	2·6	0	0	18	1	0	3	1	2	2	8	1	11	0
	1730	,,	1015·4	1004.2	..	25·4	14.9	5.0	8.7	32	..	1.5	.	4·8	0	0	23	1	3	3	5	1	1	7	2	6	0
	1130	,,	1011.6	1000·4	..	25·1	15·7	6.7	9.8	33	..	1·8	..	3.8	0	0	25	6	3	1	0	0	0	6	6	4	3
	2330	,,	1013.8	1002.3	..	15·5	11.3	7.6	10.4	61	..	0·7	..	1·4	0	0	10	1	1	0	1	0	1	3	3	19	0
Varanasi (Babatpur)	0530	85	1014·3	1004.1	..	11.2	9.1	6.5	9.7	73	..	0.4	..	2.4	0	0	8	0	2	1	0	0	3	1	0	21	1
	0830	,,	1016·5	1006.2	+0·9	16·1	12·2	8.6	11.2	65	+2	0.7	−0·6	6·0	0	0	20	0	0	1	2	0	12	4	1	9	0
	1130	,,	1016·1	1006.1	..	23.1	15·1	7.8	10.6	40	..	0.8	..	8·0	0	0	25	0	2	3	2	0	4	6	3	4	5
	1730	,,	1012·6	1002.8	..	24·6	15.3	7.5	10.5	36	..	1·4	..	6.0	0	1	23	2	1	0	1	0	1	9	8	5	2
	2330	,,	1014·7	1004·1	..	15·5	11.8	8·0	10.7	62	..	0·5	..	4.5	0	0	14	0	0	2	0	0	1	11	0	15	0
Varanasi	0830	76	1015·4	1006.3	−0·1	15·4	12·5	9.8	12.0	70	+1	1.7	−0·2	1·9	0	0	25	0	2	0	2	0	3	17	1	4	0
	1730	,,	1010 8	1002.4	..	25·5	16.7	9.5	11.9	40	..	1.3	..	2·1	0	0	24	3	3	2	0	0	1	13	2	5	0
Uttar Pradesh (West) Muktim	0830	..	..	..	..	7.2	3·8	−0·2	6.0	59	..	4·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·9	5·1	1·4	6 8	55	..	4·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	8·9	7·6	6·7	9·8	84	..	4·1	..	0·6	0	0	4	1	2	0	0	0	1	0	0	25	0
	1130	..	..	..	..	15·6	10·1	4·2	8·2	48	..	3·3	..	0·1	0	0	1	0	0	0	0	1	0	0	0	28	0
	1730	..	..	..	..	19·3	11·2	2·2	7·2	35	..	3·6	..	1·0	0	0	9	1	0	2	0	2	3	0	1	20	0
Debra Dun	0530	682	1014·7	935.6	..	9.6	7·4	5.1	8.8	71	..	2.5	..	5.0	0	0	7	1	6	0	0	0	0	0	0	22	0
	0830	,,	1013·9	937.2	+0 4	12.0	9·1	6.1	9.4	68	−5	3.8	+0·5	1·0	0	0	13	3	5	0	0	1	0	3	1	16	0
	1130	,,	1015 0	938.1	..	18.5	11·9	5.4	9.0	43	..	3.9	..	2.8	0	0	23	1	1	1	3	1	3	11	2	6	0
	1730	,,	1011.7	935·2	..	19.4	12·4	5.8	9·4	42	..	4.0	..	2.4	0	0	26	0	2	0	1	1	4	16	2	3	0
	2330	,,	1015.1	936·6	..	12·6	9·4	6.2	9.5	62	..	2.2	..	1.3	0	0	10	2	7	0	0	0	0	1	0	19	0
Mansiari	0830	..	..	..	..	6·2	2·0 (c)	−3·5	4·6 (c)	50 (c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·9	3·6	0	6·1	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1016·1	983·6	+0.6	11.7	9·1	6·5	9·5	70	−9	3·3	+0·7	1·3	0	0	19	0	2	0	0	0	0	0	17	10	0
	1730	,,	1013.1	982·2	..	22.3	13.7	4·8	8·7	33	..	3·3	..	1·8	0	0	26	0	1	0	0	0	0	0	25	3	0
Najibabad	0830	270	1015·9	983·8	..	10.6	8·4	6·0	9·3	74	..	2.9	..	1.9	0	0	17	1	2	4	0	0	1	4	5	12	0
	1730	,,	1014.5	983·5	..	21.2	14·3	7.5	10·4	43	..	3·0	..	3·8	0	0	28	0	1	1	3	0	2	7	14	1	0
Meerut	0830	222	1016.7	990·1	+0.8	12.4	10·1	7.6	10·4	72	+2	0	−2·3	9·2	0	3	26	13	2	2	2	2	0	5	3	0	0
Bareilly	0830	173	1015.6	995·2	+0·6	15.0	11·2	7·4	10.2	61	−14	2·2	−0.1	3·4	0	0	29	9	6	1	3	0	1	2	7	0	0
	1730	,,	1011.6	991·8	..	22.5	14·4	6·6	9·9	37	..	2·3	..	1.7	0	0	19	4	0	1	0	0	0	3	11	10	0
Bareilly (P.B.O.)	0230	172	1013.4	993·1	..	14.1	10·3	6·7	9·8	61	..	0 4	..	2.5	0	0	24	1	1	1	1	0	0	8	12	5	0
	0530	,,	1013.1	992·7	..	13·0	9.7	6.5	9.7	65	..	0·7	..	2·8	0	0	21	2	2	2	1	0	0	4	10	8	0
	1130	,,	1015·4	995·4	..	20.1	13·6	8·1	10.8	47	..	2·1	..	3·4	0	0	26	1	3	2	2	1	3	6	8	3	0
	2330	,,	1013.9	993·8	..	16.0	11·0	7·0	10·0	52	..	0·4	..	2·9	0	0	21	0	1	2	1	0	0	9	8	8	0
Aligarh	0830	187	1015.7	992·9	..	12·1	9·2	5·8	9·2	68	0	2.5	+0.5	1·6	0	0	16	2	1	0	1	0	0	7	5	13	0
	1730	,,	1012.4	990·4	..	22·9	14·0	5·5	9·0	34	..	3·3	..	2·3	0	0	21	3	0	2	0	0	0	12	4	8	0
Mainpuri	0830	157	1015·4	996·7	−0.1	13·8	10.4	7.4	10·3	70	+4	0	−2·2	1·4	0	0	13	0	1	1	2	0	0	1	8	16	0
	1730	,,	1011.4	993·4	..	24.1	16·4	10·7	12·9	46	..	0·1	..	1·5	0	0	14	0	0	1	0	0	9	0	4	15	0
Agra	0830	169	1016.3	996.3	+0·5	13.4	10·1	6·5	9.7	63	0	0·5	−1·6	0·5	0	0	3	0	0	0	0	0	0	0	3	26	0
	1730	,,	1012·3	991.8	..	24.0	16·0	8·1	10·8	39	..	1·5	..	0·4	0	0	2	1	0	0	0	0	0	0	1	27	0
Agra (Aerodrome)	0530	169	1014.6	994.3	..	9.3	7·7	5·6	9·1	75	..	1·6	..	5·1	0	0	17	2	0	3	0	0	0	4	8	12	0
	0830	,,	1016.1	996.0	..	12.3	9·6	6·9	9.9	69	..	2·3	..	4·3	0	0	18	3	1	0	1	0	0	5	8	11	0
	1130	,,	1015.6	997.7	..	22·1	14·4	6·8	9·9	38	..	2.1	..	10.7	0	6	20	5	0	2	4	2	3	4	6	3	0
	1730	,,	1012.2	993.9	..	23·4	14·7	5·8	9.2	33	..	2·9	..	10·7	0	2	25	6	3	3	1	0	0	4	10	2	0
	2330	,,	1014.6	994·6	..	13·8	10·5	7·0	10·0	65	..	1·4	..	4.9	0	0	15	6	0	2	1	0	0	0	5	14	1
Orai	0830	141	1018·1	1001·2	..	17·6	13·0	8·6	11·2	57	..	0·9	..	2·1	0	0	28	1	7	0	3	1	4	0	12	1	0
	1730	,,	1012·6	995·6	..	25·3	16·3	8·3	10·9	35	..	0	..	2·0	0	0	29	0	2	0	0	0	0	0	27	0	0
Jhansi	0830	251	1016 5	986·0	−0·7	15·2	9·8	4·1	8·2	50	−4	0·7	−0.7	1·2	0	0	17	9	1	1	0	0	0	1	5	12	0
	1730	,,	1011·7	983·3	..	26·5	15·0	2·8	7·7	22	..	0·7	..	1·2	0	0	11	3	0	3	0	0	0	2	3	18	0

(c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—FEBRUARY, 1964 (MAGHA 12,—PHALGUNA 10, 1885 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1015·0	977.9	..	9·7	8·6	7·1	10·3	85	..	3·9	..	2·4	0	0	8	2	2	2	0	0	0	0	2	21	0
	0830	,,	1016·1	979·1	+0.5	11·3	9·4	7·4	10·3	78	+4	5·1	+1·8	3·3	0	0	12	1	8	1	1	0	0	0	1	17	0
	1130	,,	1016·4	980·3	..	18·2	12·6	6·9	10·1	48	..	5·1	..	6·2	0	1	23	1	3	2	1	3	10	4	0	5	0
	1730	,,	1013·5	977·7	..	19·3	13·1	6·6	10·3	47	..	4·8	..	8·4	0	1	23	1	0	2	0	1	8	11	1	5	0
	2330	,,	1016·0	979·1	..	11·9	10·1	8·3	10·9	87	..	3·5	..	3·5	0	0	7	0	2	0	0	1	2	0	2	22	0
Amritsar (Rajasansi)	0530	234	1015·2	986.9	..	7·1	6·4	5·4	9.0	89	..	2·2	..	5·1	0	0	15	3	0	3	0	0	0	1	8	14	0
	0830	,,	1016.6	988·4	+0·8	8·6	7·5	6·3	9·5	85	0	4·0	+1·3	3.2	0	0	13	2	0	0	1	0	0	4	6	16	0
	1130	,,	1017·0	989·7	..	17.7	12·3	6.7	9·9	50	..	4·3	..	9·4	0	2	21	4	1	1	0	2	0	5	10	6	0
	1730	,,	1013·7	986.6	..	19·3	13·0	6·6	9·9	46	..	3·9	..	8.8	0	2	19	5	1	0	0	1	0	2	12	8	0
Adampur (Aerodrome).	*0530	249																									
	0830	,,	1016·5	986·5	..	7·8	7·1	6.2	9·5	92	..	4·5	..	1·3	0	0	7	3	0	1	0	0	0	0	3	22	0
	*1130	,,																									
	1730	,,	1013·8	985·0	..	19·5	12·4	6.6	9·6	45	..	4·1	..	10·7	0	0	27	2	0	2	1	0	1	7	14	2	0
	*2330	,,																									
Ludhiana	0830	24	1016·2	986·6	+0.2	9·7	7·8	5·5	9·0	75	—1	3·2	+0·6	0 6	0	0	7	2	0	0	1	0	0	2	2	22	0
	1730	,,	1013·2	984·7	..	20·8	13·6	6·6	9·7	41	..	3 6	..	4 6	0	0	28	3	2	2	0	0	1	3	17	1	
Ferozepore	0830	200	1017·2	993·0	..	9·8	8.0	5·8	9·3	77	..	2·8	..	1·2	0	0	12	0	2	0	0	0	0	0	10	17	
	1730	,,	1014·3	991·1	..	19.9	12·8	5.5	9·0	42	..	2·4	..	2·1	0	0	26	3	4	0	0	0	0	0	19	3	
Halwara (Aerodrome).	0830	242	1018·7	989·5	..	9·4	8·1	6·5	9.7	83		3 5	..	5·5	0	0	29	3	1	0	3	0	1	3	18	0	
	1730	,,	1016.5	988·3	..	19·7	12·7	5·3	9·0	41	.	3.8	..	7·5	0	0	29	4	2	1	1	0	0	3	18	0	
Chandigarh	0830	347	1015·0	974.0	+0·4	14·5	10.1	5·1	8 8	56	—10	2 9	+1·4	2.1	0	0	23	0	0	2	0	0	0	0	21	6	
	1730	,,	1012·1	972·3	..	20·7	12.8	4·5	8·4	35	..	3.2	..	2.5	0	0	11	0	0	6	0	0	0	0	5	18	
Ambala	0830	272	1015·9	983.7	+0·6	12·9	10·0	7·1	10 1	66	—7	1·5	—1·4	4·1	0	0	22	2	4	0	10	0	1	0	5	7	
	1730	,,	1012·6	981·5	..	20·9	13·8	7·0	10·0	42	..	0·5	..	5·1	0	0	20	0	8	0	7	0	0	0	5	9	
Ambala (P.B.O.)	0230	278	1014·1	981·3	..	12·4	9.5	6·9	9.9	70	..	1·8	..	5·5	0	0	16	4	2	0	1	0	0	1	8	13	
	0530	,,	1013.8	980·8	..	11·0	8·8	6·7	9·8	76	..	2.5	..	5·9	0	0	19	4	0	0	1	0	1	1	12	10	
	1130	,,	1015.5	983·4	..	19.3	13·5	9·1	11.5	52	..	4·3	..	6·4	0	0	21	3	1	0	6	0	1	1	9	8	
	2330	,,	1014.4	981·8	..	14·5	11·0	8·0	10.7	65	..	1.4	..	7·4	0	0	22	3	2	0	2	0	0	1	14	7	
Ambala (Aerodrome).	0530	274	1014 2	981.4	..	8.9	7·5	5·9	9.3	82	..	2·8	..	4·8	0	1	12	1	0	1	0	0	0	3	8	16	
	0830	,,	1015·2	982 9	..	11·4	8·9	6·7	9.4	78	..	4·3	..	5·3	0	0	16	1	0	1	1	2	0	1	9	13	
	1130	,,	1015.5	983·9	..	19·7	13·0	5·8	9·5	42	..	4 0	..	16 9	0	4	20	0	3	0	4	1	0	3	10	5	
	1730	,,	1012·4	980·9	..	20·9	12·9	4·2	8·7	36	..	3·7	..	14·1	0	9	20	0	0	2	0	0	1	12	12	0	
	2330	,,	1014.7	982·2	..	11·3	9·9	7·0	10 8	71	..	2·2	..	6·6	0	0	18	0	0	1	0	0	0	7	10	11	
Patiala	0830	251	1016.1	986·4	..	12·3	9·5	7·2	9.7	72	..	2·4	..	7·5	0	0	18	0	0	1	1	0	0	0	16	11	
	1730	,,	1013.8	984 6	..	20·1	13 4	6·7	9.9	44	..	3·7	..	9·1	0	0	25	1	0	0	0	0	0	0	24	4	
Bhatinda	0830	211	1016.2	991·2	..	13·8	11·5	9·3	11·9	70	..	1·6	..	0·5	0	0	7	1	0	0	0	0	2	0	4	22	
	1730	,,	1013.0	988·5	..	20.5	15·6	11·4	13·7	54	..	1·1	..	1·0	0	0	9	4	0	0	0	0	0	0	5	20	
Karnal	0830	249	1016.7	989.9	..	15·5	11·0	6·3	9·5	58	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	
	1730	,,	1011·7	983·0	..	20·8	14·2	7·2	11·2	47	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	
Hissar	0530	221	1015.1	988·5	..	8·7	7·1	5·1	8 8	79	..	1.9	..	4·4	0	0	26	2	3	3	3	1	1	4	9	3	
	0830	,,	1016.7	990·3	+0·8	11.0	8·5	5·6	9·1	71	+6	2·8	+0·6	3·1	0	0	23	2	2	2	3	4	5	2	3	6	
	1130	,,	1016.4	990.9	..	20.7	13·9	7·2	10·1	43	..	2·8	..	5·9	0	1	28	1	1	6	4	0	7	6	4	0	
	1730	,,	1012·2	987·6	..	22·4	13·8	5·0	8·8	33	..	2·7	..	5·8	0	0	26	5	1	3	0	0	0	4	13	3	
	2330	,,	1015·1	989·1	..	12·7	9·7	6·2	9·7	65	..	1·6	..	5·7	0	0	25	6	5	2	0	1	0	2	9	4	
New Delhi (Safdarjung)	0230	21	1014·7	988·9	..	12·3	9·7	6·7	9.9	69	..	1·3	..	3·9	0	0	17	3	1	0	0	0	0	4	9	12	
	0530	,,	1014·3	988·5	..	11.1	8·8	6·2	9.4	72	..	1·7	..	4·4	0	1	16	0	2	0	0	2	3	4	6	12	
	0830	,,	1016 1	990.3	+0·3	12.0	9·3	6·0	9.5	67	+4	2·6	+0.2	6·0	0	1	21	0	2	0	0	1	4	10	5	7	
	1130	,,	1016·1	991·1	..	21 0	13·5	5·7	9.4	38	..	2·6	..	0·4	0	3	24	2	0	2	2	3	3	8	7	2	
	1730	,,	1012.6	987·8	.	23·1	14·0	4·9	8.7	32	..	2·8	..	11·1	0	5	24	0	3	2	0	0	1	6	17	0	
	2330	,,	1015·0	989·4	..	14·3	10·9	7·1	10.2	63	.	1·1	..	4·6	0	0	14	1	1	0	1	1	0	4	6	15	
Palam (Aerodrome)	0230	233	1014·7	987·0	..	11·3	8·9	5·4	13.4	65	..	0·7	..	8·8	0	1	27	7	3	2	1	1	2	4	8	1	
	0530	,,	1013·9	986·1	..	9.8	7·6	5·0	8.7	73	..	1.6	..	8·6	0	0	27	1	2	4	1	0	4	12	3	2	
	0830	,,	1015·8	988·0	..	11·0	8.7	5·6	9·4	71	..	1.6	..	9·7	0	0	29	1	2	2	1	1	15	4	3	0	
	1130	,,	1015·9	988·9	..	20·3	13·5	6·6	10.0	43	..	2·6	..	11·6	0	0	28	5	0	2	2	2	2	10	5	1	
	1430	,,	1012·9	986·5	..	23·9	14·8	5·9	9·5	38	..	2·8	..	16·1	0	6	23	3	0	2	2	0	2	8	12	0	
	1730	,,	1012·0	985·7	..	23·0	14·1	4·7	8·9	33	..	2·7	..	14·7	0	4	25	7	2	4	0	1	0	5	10	0	
	2030	,,	1013·9	986·7	..	17·3	12·3	7·1	10.3	51	..	(c) 1·8	..	(c) 9·5	0	1	27	8	6	2	2	0	2	2	8	0	
	2330	,,	1014·1	987·1	..	14·4	10·5	6.5	9·5	61	..	1·3	..	9·9	0	1	27	7	6	2	3	1	3	2	4	1	

*Data not available.

(c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Himachal Pradesh—																											
Mandi	0830	761	1018·9	929.9	+1.2	7·2	6.3	4·1	8·8	88	−1	5·2	+2 0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1730	,,	1012·3	927·1	..	17·8	11·2	4·6	8.5	47	..	4·9	..	0 3	0	0	4	0	0	0	4	0	0	0	0	25	0
Bilaspur	0830	587	1018·2	949·6	..	8.0	7·6	6.2	10·1	89	..	0	..	0·5	0	0	4	0	1	1	1	0	1	0	3	25	0
	1730	,,	1014 5	947.7	..	18·7	12·5	6·9	9·9	48	..	0	..	0.3	0	0	4	0	0	1	0	0	2	1	0	25	0
Jammu and Kashmir—																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Kargil (R)	0830																										
(R)	1730																										
Leh	0530	3514	3122 0	664·9	..	−15·3	−16·3	−20·4	1.0	61	..	4.2	..	3.9	0	0	19	5	14	0	0	0	0	0	0	10	0
	0830	,,	3120.5	665·6	+2·0	−11·0	−12·3	−16.3	1·5	64	+9	4.6	−0.7	1·9	0	0	14	1	6	0	0	3	4	0	0	15	0
	1730	,,	3105·9	664·9	..	−6.5	−8·3	−12·2	2·2	65	..	5.4	..	3·0	0	0	20	0	1	0	4	4	0	11	0	9	0
Srinagar	0830	1587	1538 1	845·0	+1.1	−0.3	−0.8	−1·6	5.2	91	+3	6.5	+0·3	2·8	0	0	19	1	0	1	5	0	2	4	6	10	0
	1130	,,	1545.6	845 0	..	2·4	1·0	−0.9	5.6	79	..	6·7	..	2·9	0	0	22	3	0	2	3	1	1	5	7	7	0
	1730	,,	1519·5	843·2	..	3·8	1·7	1·0	5.6	71	..	6·1	..	3.7	0	0	24	6	2	1	2	2	1	2	8	5	0
Srinagar (Aerodrome)	0530	1666	1524·8	834.9	..	−1·0	−1.2	−2·5	5.4	89	..	6·0	..	1·3	0	1	3	1	0	1	0	0	0	1	1	25	0
	0830	,,	1534.4	836.7		−0.7	−1.3	−2·2	5·1	90	..	2·5	..	2.6	0	0	13	1	2	0	3	2	1	0	4	16	0
	1130	,,	1541·2	837·0	..	2·9	0·9	−1·7	5·7	83	..	6·8	.	3.4	0	0	19	3	2	1	3	0	0	2	8	10	0
	1730	,,	1524·8	831·9	.	3.6	1·8	−0·5	5.8	77	..	5·1		4·7	0	0	14	3	0	2	1	0	1	0	7	15	0
	2330	,,	1530·0	836·2	..	0 3	−1·0	−1·6	4.8	84	..	5·6	..	1·4	0	0	6	2	1	0	0	0	0	2	1	23	0
Gulmarg	0830	2655				Closed during wither months																					
	1730	,,																									
Qazigard	0830	..	.	..	..	−1·7	(h) −0·4	(h) −2·2	5·1	82	..	6·5	..	2·8	0	0	22	0	0	1	16	2	0	2	1	7	0
	1730	..	.	..	..	3.5	1·3	−1·8	5·2	70	..	6·0	..	5·8	0	0	21	0	2	0	5	6	5	2	1	8	0
Banihal	0830	..	..	..	..	2·9	1·3	−0·8	5·7	77	..	5·8	..	12·5	3	4	2	0	0	0	2	0	0	0	7	20	0
	1730	..	..	..	..	8·4	4·4	−0·8	5·8	54	..	5·8	..	4·5	0	2	10	0	0	0	3	0	0	2	7	17	0
Jammu	0830	366	..	..	..	11·6	1·9	6·2	9·5	70	+4	3.7	+0.6	7·3	0	0	27	8	13	3	0	0	0	1	2	2	0
	1730	,,	..	..	..	18.3	12.8	7.2	10.4	50	..	2 5	..	3.9	0	0	26	7	7	1	1	2	4	2	2	3	0
Jammu (Aerodrome)	0530	292	1015·1	980·2	..	10·7	8·6	6·2	9·5	74	..	3·5	.	4·9	0	0	20	2	13	4	0	0	1	0	0	9	0
	0830	,,	1016·1	981·3	..	11·0	8 7	6·1	9·4	73	..	4·9	..	4·8	0	0	22	2	12	6	0	1	0	0	1	7	0
	1130	,,	1016·8	982·3	..	17·2	12·1	6.7	10·0	51	..	5·0	..	5.8	0	1	21	2	3	1	2	5	2	5	2	7	0
	1730	,,	1013·9	980·0	..	18·4	12·6	6·9	9·9	50	..	4·8	..	6.0	0	1	21	1	2	0	1	4	3	9	2	7	0
	2330	,,	1016·1	981·3	..	12·6	10·3	7·8	10·7	74	.	3·5	..	5·8	0	1	20	1	13	4	0	2	1	0	0	8	0
Rajasthan (West)																											
Ganganagar	0530	177	1014.9	993.6	..	9·3	7·5	5.3	8·9	77	..	1·6	..	2·3	0	0	16	1	4	5	2	1	0	1	2	13	0
	0830	,,	1016·5	995·2	+0.6	9·5	7·5	5.1	8·8	74	+4	2·4	+0.5	1·8	0	0	15	5	2	2	2	0	0	1	3	14	0
	1130	..	1016·9	996·4	..	20.0	13·7	7.5	10·7	46	..	3.4	..	5·9	0	0	29	6	7	0	5	2	2	1	6	0	0
	1730	,,	1013·3	993·0	..	22·6	14·7	7.3	10·4	39	..	0·5	..	3·2	0	0	26	13	5	0	0	0	1	0	7	3	0
	2330	,,	1015·7	994 7	..	13·5	10·7	7.0	10·1	65	.	0.9	..	2·4	0	0	16	9	3	2	0	0	1	0	1	13	0
Anupgarh (R)	0830	..																									
(R)	1730	..																									
Mahajan	0830	187	1015.4	992.9	..	10·6	8.4	5.4	9.3	71	.	(h) 1.7	..	(h) 2·5	0	0	17	2	5	1	7	0	2	0	0	6	0
	1730	,,	1011.8	990.4	..	22·8	15.8	10.3	12.9	49	..	(j) 1.2	..	(j) 4·5	0	0	17	7	2	0	0	0	0	2	6	4	0
Churu	0830	291	1017·1	982·3	..	10·2	7·1	−3·6	7.6	61	.	2.3	..	3·8	0	0	18	2	1	8	2	1	1	2	1	11	0
	1730	,,	1012·4	979·3	..	23.9	16·6	10 2	12.9	44	..	2·9	..	7.6	0	0	26	17	1	1	0	0	0	5	2	3	0
Bikaner	0830	224	1016·4	989·5	+0·4	11·0	6·2	−2 0	5.6	41	−1.8	1·2	−1·0	2·1	0	0	17	1	3	2	7	0	1	2	1	12	0
	1730	,,	1011·7	986·6	..	24·6	13·5	0·4	6.5	25	..	1·3	..	4·0	0	0	26	10	7	1	2	0	1	2	3	3	0
Bikaner (P.B.O.)	0530	224	1014·6	987·7	..	8·7	5.2	−0·4	6.1	55	..	1·2		1·0	0	0	6	3	3	0	0	0	0	0	0	23	0
	1130	,,	1016·1	990·2	..	22·0	11·9	−1·7	5.8	24	..	3 0	..	4·3	0	0	25	2	10	3	4	4	1	0	1	4	0
	2330	,,	1015·1	988 6	..	14·8	8·8	0·6	6.5	39	..	1.0	..	4·0	0	0	18	4	12	0	0	0	1	0	1	11	0
Nagaur	0830	298	1016·6	981·8	..	17·0	11·3	6.1	9.7	50	..	2.3	..	6.7	0	0	28	3	4	6	4	2	2	1	6	1	0
	1730	,,	1011·6	977·9	..	24·4	16·9	10 9	13·1	43	..	1·6	..	6·8	0	0	29	9	5	2	0	2	2	3	6	0	0
Phalodi	0830	234	1015·8	988.2	..	11·6	6.6	−0·9	5.7	46	..	2·2	..	4.3	0	1	22	5	4	3	4	1	3	3	0	6	0
	1730	,,	1012·9	986.5	..	25·6	14·0	0·9	6.6	21	..	2.1	..	11·9	0	5	24	12	6	1	1	0	0	3	6	0	0
Jaisalmer	0830	242	1015 6	987.0	..	12·4	8·4	3·6	7.9	53	..	2.6	..	6·8	0	1	20	6	6	1	2	3	2	1	0	8	0
	1730	,,	1010·8	983.5	..	25·0	15·2	5·4	9.3	30	..	2.1	..	6·2	0	0	28	13	9	1	0	0	1	0	4	1	0
Jodhpur	0230	224	1013·8	987.6	..	16·1	8·9	−2·7	5.2	29	..	1.3	..	1·1	0	0	28	7	19	0	1	0	0	0	1	1	0
	0530	,,	1013.6	986.9	..	13·7	7.6	−1·5	5·5	37	..	1·6	..	7·7	0	0	26	6	20	0	0	0	0	0	0	3	0
	0830	,,	1015.5	989.0	+1·1	14.8	8.2	−2·3	5.5	31	−16	2.2	0	7.6	0	1	24	4	19	0	0	0	1	0	0	4	0

(R) Register not received. (h) Mean of 23 days. (j) Mean of 21 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(*Contd.*)																											
Jodhpur—(*Contd.*)	1130	224	1015·5	989·7	..	23·6	12·7	−1·6	5·6	21	..	2·6	..	11·4	0	6	21	6	8	9	4	1	3	1	1	2	0
	1730	,,	1011·1	985·9	..	27·3	14·1	−2·7	5·4	15	..	2·6	..	9·4	0	2	26	5	5	2	1	0	3	6	6	1	0
	2330	,,	1013·9	982·6	..	19·4	10·6	−1·5	5·7	26	..	1·7	..	11·5	0	1	27	11	14	0	0	0	0	0	3	1	0
Barmer	0530	194	1013·2	990·3	..	15·0	9·3	1·5	7·2	42	..	0·1	..	4·3	0	0	28	3	0	0	0	0	0	2	23	1	0
	0830	,,	1015·0	992·1	+0·4	15·0	9·4	2·0	7·3	43	−15	1·7	−0·4	3·3	0	0	27	0	0	0	0	1	0	0	26	2	0
	1130	,,	1015·4	993·1	..	22·9	13·8	4·2	8·4	31	..	1·9	..	4·1	0	0	26	6	6	2	0	0	0	1	11	3	0
	1730	,,	1011·1	989·2	..	27·4	16·3	5·6	9·5	27	..	1·2	..	3·4	0	0	27	8	2	3	0	0	0	1	13	2	0
	2330	,,	1013·7	991·1	..	19·3	11·7	2·8	7·7	35	..	0	..	3·7	0	0	27	8	0	0	0	0	0	1	18	2	0
Erinpura (Jawai Dam)	0830	295	1015·3	980·7	..	14·3	11·3	7·7	10·7	63	..	1·5	..	3·0	0	0	17	0	0	1	1	14	1	0	0	12	0
	1730	,,	1010·9	977·8	..	27·0	18·9	13·3	15·3	43	..	1·7	..	3·4	0	0	19	9	1	0	0	1	0	3	5	10	0
Munabao (R)	0830	80																									
	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1019·7	983·6	..	12·8	8·0	3·0	7·6	55	..	1·2	..	7·6	0	0	29	2	2	5	9	1	8	1	1	0	0
	1730	,,	1016·6	978·7	..	23·1	14·8	6·9	9·9	37	..	0·4	..	8·3	0	0	27	14	4	2	1	0	0	2	4	2	0
Sikar	0830	433	1016·1	965·5	..	13·7	8·9	2·3	7·5	49	..	1·1	..	1·4	0	0	11	2	2	1	4	0	0	2	0	18	0
	1730	,,	1011·8	963·2	..	24·9	14·1	3·1	7·4	25	..	1·4	..	2·3	0	0	20	5	0	1	2	1	0	7	4	9	0
Alwar	0830	271	1015·4	983·3	..	13·1	10·1	7·0	9·9	67	..	2·1	..	0·5	0	0	5	0	2	2	0	0	1	0	0	24	0
	1730	,,	1011.6	981·6	..	23·9	16·4	9.7	12·6	44	..	2·8	..	0·6	0	0	8	4	1	0	0	0	0	1	2	23	0
Jaipur (Sanganer)	0230	390	1013·8	968·2	..	13·6	8·3	1·2	6·7	44	..	0.7	..	4·5	0	0	20	4	5	9	0	0	0	0	2	9	0
	0530	,,	1013·8	968·0	..	12·5	7·8	1·2	6·8	48	..	0·7	..	5·6	0	0	22	3	4	12	1	0	0	0	2	7	0
	0830	,,	1015·5	970·1	−0·4	14·7	9·2	1.9	7·2	44	−4	2·5	+0·4	6·3	0	1	22	1	7	12	1	0	0	1	1	6	0
	1130	,,	1015·2	970·9	..	22·1	12·7	1·4	7·1	27	..	2·2	..	9·0	0	1	26	2	1	8	11	1	1	0	3	2	0
	1730	,,	1011·0	967·2	..	24·8	13·8	1·1	6·9	22	..	3·0	..	3·5	0	0	16	1	1	3	0	0	1	4	6	13	0
	2330	,,	1014·2	968·9	..	15·4	9·6	2·2	7·3	42	..	0·7	..	3·7	0	0	14	3	3	7	0	0	0	0	1	15	0
Dholpur	0830	176	1015.8	994 9	..	12·7	9·0	4·3	8·5	53	..	2·0	..	3·0	0	0	19	1	0	0	1	3	2	5	7	10	0
	1730	,,	1011·4	991·3	..	24·6	13·9	2·0	7·3	23	..	3·1	..	3·0	0	0	22	8	3	0	2	0	0	4	5	7	0
Ajmer	0830	486	1016·6	959·9	−0.1	12·5	7·9	2·1	6·9	51	−1	2·7	+1.0	1·6	0	0	12	1	4	2	0	1	1	1	2	17	0
	1730	,,	1011·0	956·9	..	24·8	12·7	−0·7	5·9	19	..	2·8	..	5 1	0	0	26	1	4	0	4	1	5	7	4	3	0
Tonk	0830	272	1015·2	982·8	..	12·9	9·0	3·6	7·9	54	..	1·8	..	5·5	0	0	29	1	5	2	7	0	2	3	9	0	0
	1730	,,	1010·4	980·0	..	25·4	16·2	7·3	10·2	34	..	1·7	..	4·5	0	0	29	3	0	1	2	3	2	7	11	0	0
Bhilwara	0830	425	1015.9	966.4	..	13·7	8·3	0·7	6·6	43	..	2·9	..	2.1	0	0	10	3	2	0	1	0	0	1	3	19	0
	1730	,,	1011.1	963.7	..	25·8	14·0	0·5	6·5	19	..	2·7	..	3·0	0	0	19	2	3	3	1	2	1	1	6	10	0
Kota (Aerodrome)	0530	274	1013·6	981·3	..	13·4	8·8	2·3	7·6	47	..	1.0	..	6·9	0	1	22	2	2	0	2	2	5	7	3	6	0
	0830	,,	1016·1	984·0	..	15·8	9·9	2·6	7·5	43	..	1·9	..	6·8	0	0	26	4	4	6	1	1	1	6	3	3	0
	1130	,,	1013·9	984·5	..	22·1	13·1	2·9	7·8	30	..	2·1	..	9·9	0	0	29	1	5	7	9	1	0	2	4	0	0
	1730	,,	1011·1	980·3	..	26·4	14·7	2·0	7·3	22	..	2·1	..	10·5	0	1	28	7	14	7	0	0	0	1	0	0	0
	2330	,,	1013·9	982·1	..	18·9	10·9	2·2	7·2	35	..	0·9	..	6·8	0	1	26	1	2	3	3	2	7	6	3	2	0
Kota	0830	257	1016·0	985·9	−0.1	16·7	11·0	4·5	8·6	46	−2	2·1	+0·3	1·6	0	0	5	0	1	0	0	0	0	2	2	24	0
	1730	,,	1011·3	982·3	..	25·8	15·7	6·0	9·7	30	..	2·2	..	1·4	0	0	7	4	0	0	0	0	0	1	2	22	0
Chambal (Rawat Bhatta Dam)	0830	351	1015·8	974·9	..	15·2	10·2	4·2	8·4	49	..	1·2	..	0·8	0	0	7	1	2	1	0	0	0	0	3	22	0
	1730	,,	1011·0	971·7	..	27·0	15·2	3·4	7·7	22	..	1·6	..	5·8	0	0	29	6	8	3	2	1	2	1	6	0	0
Udaipur	0230	582	1015·2	947·9	..	12·6	9·3	5·7	9·0	63	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	0530	,,	1015·1	947·3	..	10·5	7·9	4·9	8·5	69	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	0830	,,	1016·4	949·4	−0·2	14·0	9·9	5·6	9·1	58	+8	1·7	+0.3	0·2	0	0	2	0	0	0	0	0	0	0	2	27	0
	1130	,,	1014·8	950·0	..	23·6	14·6	6·3	9·3	35	..	1·7	..	3·0	0	0	20	1	3	11	2	0	2	1	0	9	0
	1730	,,	1010·5	946·4	..	26·0	16·2	8·2	10·9	34	..	1 8	..	2·2	0	0	15	0	4	3	1	1	3	2	1	14	0
	2330	,,	1014·9	948·1	..	14·8	10·8	7·0	9·7	60	..	0·1	..	0·3	0	0	2	1	0	0	0	0	0	1	0	27	0
Jhalawar	0830	321	1015·4	977·7	−0·2	14·9	9·0	3·1	7·5	49	−3	0·3	−1·2	1·5	0	0	16	5	2	1	0	0	2	1	5	13	0
	1730	,,	1009·9	974·2	..	28·0	15·0	1·2	6·6	18	..	1·1	..	4 2	0	0	26	6	6	1	0	0	1	4	8	3	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1014·1	989·4	..	11·3	8·1	3 9	8·2	61	..	1·0	..	0·7	0	0	4	1	0	0	1	2	0	0	0	25	0
	0530	,,	1014·0	989·2	..	10·1	7·3	3·6	8·0	65	..	1·5	..	1·7	0	0	11	1	0	0	0	6	1	0	3	18	0
	0830	,,	1015·9	991·5	−0·1	14·9	10·1	4·3	8·5	51	−5	2·1	+0·4	1·2	0	0	12	1	0	1	1	4	1	0	4	17	0
	1130	,,	1015·6	991·9	..	23·6	14·3	4.7	8·7	32	..	2·4	..	8·9	0	3	25	3	3	7	7	2	0	2	4	1	0
	1730	,,	1011·7	988·2	..	25·1	14·7	3·3	8·3	27	..	2 9	..	6·3	0	1	28	13	9	1	2	0	0	0	4	0	0
	2330	,,	1014·5	990·0	..	14·0	9·7	4·4	8·6	54	..	1·0	..	1·2	0	0	11	4	0	1	0	1	2	1	2	18	0
Sheopur	0830	235	1015·6	987·7	0	13·0	8·7	3·2	7·9	52	−6	1·8	−0·2	3·0	0	0	21	10	4	1	1	3	2	0	0	8	0
	1730	,,	1011.7	985·2	..	26·7	14·8	1·8	7·3	21	..	2·2	..	7·7	0	0	28	18	2	0	0	0	1	1	6	1	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.).																											
Shivpuri	0830	464	1015·7	962·2	..	16·6	9·9	2·3	7.4	40	..	1·2	..	3.9	0	0	22	0	3	8	5	3	1	2	0	7	0
	1730	"	1010·7	958·9	..	24·9	13·3	1·1	6.7	22	..	2·0	..	4·9	0	0	23	2	7	1	0	1	0	3	9	6	0
Nowgong	0830	229	1016·0	988·8	−0·1	12·5	9·5	6·3	9.5	67	+1	1·6	−0·	0.5	0	0	4	0	0	1	0	0	2	0	1	25	0
	1730	"	1011·4	985.6	..	26·1	15·1	2·9	8.2	23		1·5		1·1	0	0	8	1	1	0	0	0	0	1	5	21	0
Gwalior	0530	478	1014·4	958·3	..	10·6	6·6	1·7	6.9	55		0·3	..	3·9	0	0	23	0	3	3	12	2	0	1	2	6	0
	0830	"	1015·5	960·5	+0.1	16·6	9·7	1·7	7.1	38	−19	1·4	+0.2	5·0	0	0	28	1	4	8	11	1	0	1	2	1	0
	1130	"	1014.2	960.8	..	25·4	13·8	2.1	7.4	23	..	1·7	..	9.9	0	2	26	3	2	8	9	1	1	1	3	1	0
	1730	"	1010·0	957·1	..	26·7	14·3	2·3	7.3	21	..	1·8	..	8·1	0	0	29	6	1	4	4	0	0	7	7	0	0
	2330	"	1014·4	959·2	..	15·1	9·3	2·9	7·5	45	..	0·3	..	3·9	0	0	21	2	4	6	6	1	1	0	1	8	0
Nimach	0830	496	1016·2	958·9	0	15·4	8·5	−0·2	6.1	36	−11	1·8	+0.4	4.7	0	0	25	1	15	6	1	0	0	2	0	4	0
	1730	"	1010·6	955·8	..	26·9	13·8	−0·3	6.2	18	..	1·7	..	5·7	0	1	22	0	8	2	0	0	3	6	0	6	4
Rajgarh	0830	382	1015·0	970·7	..	14·0	9·4	3·6	8.1	53	.	0	..	1·8	0	0	24	16	0	2	0	3	1	1	1	5	0
	1730	"	1010.4	967·9	..	27·2	15·9	3·8	9.0	26	..	0	..	2·4	0	0	26	18	1	4	0	1	0	2	0	3	0
Sagar	0830	551	1014·7	952·1	−0.2	18·0	10·9	1·4	7·9	37	−9	0·7	−0.9	4·9	0	0	27	0	9	9	3	0	2	3	1	2	0
	1730	"	1009·6	948·8	..	26·1	14·0	1·1	7·2	22	..	1·2	..	3·4	0	0	23	0	4	5	1	0	1	7	5	6	0
Ratlam	0830	486	1015·1	959.2	0	16·6	11·3	6·3	9·5	51	+1	0·6	−0.9	12·3	0	5	22	3	12	7	2	1	1	1	0	2	0
	1730	"	1009·6	956·1	..	28·2	18·1	11·1	13·4	35	..	2·1	..	7·8	0	0	28	1	9	4	1	0	4	6	3	1	0
Bhopal (Barragarh)	0230	523	1013·0	953·0	..	15·8	9·5	2·5	7·3	41	..	0·5	..	10·0	0	1	28	6	9	5	3	1	1	2	2	0	0
	0530	"	1013·3	953·0	..	14·6	8·8	2·5	7·3	44	..	0·5	..	10·7	0	0	29	4	9	7	4	[illegible]	1	3	1	0	0
	0830	"	1014·9	955·2	−0.3	17·8	10.7	3·2	7·7	39	−9	1·8	+0.3	10.7	0	1	26	4	6	7	6	1	1	1	1	2	0
	1130	"	1013·8	955·6	..	25·5	14·5	4·5	8.4	26	..	1·2	..	14.8	0	3	26	0	5	4	15	1	0	1	3	0	0
	1730	"	1009·3	951·8	..	27·9	15·0	3·1	7·6	21	.	1·8	..	10·5	0	4	25	8	5	1	0	2	4	2	7	0	0
	2330	"	1013·5	954·0	..	18·4	10·8	2·7	7·5	36	..	0·9	..	10.3	0	0	29	5	14	3	2	2	0	1	2	0	0
Ujjain	0830	489	1015·7	959·1	..	15·0	9·4	3·2	7·7	46	..	1·4	..	4·8	0	0	24	3	4	5	3	1	1	0	2	5	5
	1730	"	1009·0	955·2	..	28·4	15·7	4.5	8.6	22	..	2·0	..	8·6	0	2	26	1	7	2	0	0	1	7	8	1	2
Narsinghpur	0830	356	1015·0	974·1	..	18·0	12·8	7·8	10·6	52	..	0·6	..	5·4	0	0	27	2	7	11	1	2	0	2	0	2	2
	1730	"	1009·5	970·1	..	29·1	18·6	10·6	12·9	33	..	0·5	..	2·1	0	0	26	4	2	3	1	0	1	8	7	3	0
Hoshangabad	0830	302	1014·7	979·8	−0.7	18·0	13·1	7·9	11·1	53	+2	0·9	−0·5	7·5	0	0	29	0	9	12	3	0	4	1	0	0	0
	1730	"	1009·0	975·6	..	29·8	19·3	10.9	13·8	33	..	1·5	..	4·2	0	0	28	1	7	2	2	1	10	3	2	1	0
Indore	0530	567	1013·5	947·9	..	12·5	7·4	1·1	6·6	47	..	0·1	..	5.7	0	0	25	2	6	11	0	0	6	0	0	4	0
	0830	"	1015·1	950·2	−0.5	16·2	9·5	1·9	7·1	39	−7	0·9	−0.4	7·1	0	1	21	0	6	7	0	2	5	1	1	7	0
	1130	"	1013·3	950·5	..	25·7	13·8	2·0	7·2	22	..	0·6	..	13·3	0	6	21	3	5	9	2	1	3	3	0	2	1
	1730	"	1008·8	946·8	..	28·3	14·5	0·7	6·5	17	..	1·2	..	11·8	0	5	21	5	5	3	0	1	6	4	2	3	0
	2330	"	1013·5	948·9	..	17·2	9·9	1·4	6·9	35	..	0·3	..	9·1	0	1	24	2	11	3	0	0	5	3	1	4	0
Rajpur (Jhabua)	0830	293	1015·2	981·0	..	15·9	10·2	3·3	7·9	45	..	0·8	..	1·8	0	0	10	0	0	7	0	0	0	3	0	19	0
	1730	"	1009·7	977·2	..	29·9	15·9	0·8	6·8	16	..	1·3	..	7.1	0	2	18	0	0	4	0	0	0	15	1	9	0
Chhindwara	0830	685	1015·2	937·5	+0·2	16.7	11·7	6·6	10·1	53	0	0·7	−0·6	2·6	0	0	15	2	8	1	1	1	0	0	2	14	0
	1730	"	1008·4	933·7	..	27·2	15·8	5·9	9·7	27	..	1·5	..	7·4	0	0	27	1	3	2	1	4	3	10	3	2	0
Seoni	0830	619	1014·8	944·8	−0·6	18·5	12·4	6·3	9·9	48	−5	1·1	−0.5	4·9	0	0	27	12	5	0	1	1	3	3	2	2	0
	1730	"	1008·8	941·3	..	27·2	16·2	7·2	10·5	30	..	2·1	..	6·3	0	0	29	2	3	2	4	6	8	1	3	0	0
Betul	0830	653	1014·5	940·8	+0.3	18·5	11·5	4·2	8·4	40	−8	0·9	−0·4	3·0	0	0	20	2	6	4	6	1	0	1	0	9	0
	1730	"	1008·4	937·3	..	28·3	14·9	2.1	7·2	19	..	1·2	..	4.9	0	0	28	6	8	0	2	2	2	2	6	1	0
Khandwa	0830	318	1014·7	978·0	−0·3	18·3	11·1	2·6	7·4	36	−9	0·6	−0·5	2·6	0	0	24	4	6	1	2	1	4	2	4	5	0
	1730	"	1008·7	973·6	..	31·0	16·8	3·0	7·6	18	..	1·2	..	3·7	0	0	29	0	11	0	1	1	3	2	11	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1013·9	976·4	..	11·9	8·5	4.3	8·4	62	..	0·8	..	1·7	0	0	14	2	1	1	1	2	2	4	1	15	0
	0830	"	1015·7	978·7	+0·1	15·9	10·5	4·2	8·5	44	−15	1·1	−0·8	1·0	0	0	13	0	0	6	1	1	0	5	0	16	0
	1130	"	1014·1	978·5	..	24·6	14·2	3·1	7·8	26	..	1·6	..	5·4	0	1	25	2	1	7	4	7	3	2	0	3	0
	1730	"	1010·3	974·8	..	26·4	14·8	1·5	6·8	23	..	1·1	..	5.3	0	1	24	3	4	2	0	1	3	4	8	4	0
	2330	"	1014·0	977·1	..	16.1	10·6	4·3	8·4	46	..	0·7	..	1·8	0	0	17	1	1	3	2	2	2	4	2	12	0
Sidhi	0830	*272	1015·3	983·4	..	14·7	11·2	7·6	10·5	64	..	1·1	..	1·0	0	0	14	1	1	2	0	2	4	2	2	15	0
	1730	"	1009·7	979·1	..	26·7	15.9	6·4	9·3	29	..	0·8	..	2·3	0	0	23	5	5	3	2	0	1	4	3	6	0
Umaria	0830	459	1015·7	962·4	..	14·2	11·4	8·8	11.5	71	+9	0·4	−1·7	1·9	0	0	16	0	1	0	12	2	1	0	0	13	0
	1730	"	1010·1	959·2	..	26·7	16·3	8·5	11·1	32	..	1·8	..	5·8	0	0	27	4	8	0	0	0	1	1	13	2	0
Jabalpur	0530	393	1013·8	967·9	..	12·8	10.3	7·7	10·5	72	..	0.6	..	1·8	0	0	9	1	2	0	3	1	1	0	1	20	0
	0830	"	1015·6	970·3	+0.5	17·1	12.2	7·1	10.3	54	−6	1.6	0	2·6	0	0	19	1	3	0	8	5	0	1	1	10	0
	1130	"	1013·9	970·0	..	26.0	15·9	6·1	9·9	30	..	1·6	..	4·4	0	0	25	3	7	1	3	7	0	2	2	4	0
	1730	"	1009.8	966·3	..	27·6	16·3	5·6	9·4	26	..	2·0	..	4.3	0	0	27	5	12	0	2	2	1	4	1	2	0
	2330	"	1013·8	961·6	..	17·4	12.9	8·5	11·2	58	..	0·6	..	1·8	0	0	11	1	3	2	3	1	0	1	0	18	0

*HP is provisional.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km p h): 62 or more	Wind speed (Km p h): 20 to 61	Wind speed (Km p h): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East—(*Contd.*)																											
Ambikapur	0830	611	1016·1	946·2	+0·4	15·7	12·4	9·8	12·0	69	+4	1·5	+0·4	2·6	0	0	13	3	6	0	0	0	2	2	0	16	0
	1730	,,	1010·0	942·7	..	25·1	15·8	8·3	11·2	36	.	1·9	..	8·4	0	0	27	11	7	0	0	0	3	3	3	2	0
Pendra	0530	625	1013·8	942·4	..	14·9	10·7	6·5	9·8	59	..	1·2	..	3·3	0	0	21	5	2	0	0	1	2	3	8	8	0
	0830	,,	1015·5	944·8	+0·1	17·9	12·4	7·3	10·4	52	−7	1·7	−0·2	5·3	0	0	24	7	0	1	0	2	4	3	6	5	1
	1130	,,	1013·8	944·5	..	24·1	15·2	7·8	10·8	38	..	1·6	..	10·1	0	3	24	6	3	1	1	5	4	2	5	2	0
	1730	,,	1010·1	941·2	..	25·0	15·7	8·2	11·1	36	..	2·0	..	7·7	0	0	28	10	1	0	1	5	4	1	6	1	0
	2330	,,	1014·0	943·3	..	17·9	12·5	7·4	10·6	52	..	0·8	..	4·8	0	0	28	6	1	1	0	0	2	7	11	1	0
Mandla	0830	443	1015·6	964·6	+0·1	15·5	12·0	8·4	11·2	65	−9	0·9	−0·7	0·3	0	0	2	1	0	0	0	0	0	0	1	27	0
	1730	,,	1009·2	960·2	..	26·9	16·5	6·8	10·4	31	..	1·6	..	1·5	0	0	8	2	0	0	0	3	0	1	2	21	0
Champa	0830	245	1015·0	986·6	+0·3	19·3	15·2	11·8	13·9	62	+3	2·3	+0·8	3·6	0	1	22	18	1	1	0	0	0	0	3	6	0
	1730	,,	1009·9	982·5	..	29·1	19·2	11·9	14·2	37	..	3·2	..	6·1	0	0	27	9	2	2	1	2	0	10	1	2	0
Raigarh	0830	220	1014·4	989·0	−0·1	21·3	16·4	12·5	14·7	59	+6	2·1	+0·8	4·1	0	0	29	2	19	3	2	1	0	1	1	0	0
	1730	,,	1009·6	985·0	..	29·1	18·9	11·1	13·6	36	..	1·9	..	1·9	0	0	15	6	6	0	2	0	1	0	0	14	0
Raipur	0530	298	1012·3	977·9	..	18·6	14·6	11·2	13·4	63	..	1·8	..	5·0	0	0	23	7	1	1	2	5	3	1	3	6	0
	0830	,,	1014·7	980·5	−0·1	21·2	15·6	10·8	13·2	54	−2	2·2	+0·6	6·8	0	0	27	7	7	1	2	4	2	4	0	2	0
	1130	,,	1013·8	980·4	..	27·4	18·2	10·9	13·5	39	..	2·1	..	9·7	0	2	26	3	6	5	3	2	4	2	2	1	1
	1730	,,	1009·6	976·5	..	29.5	18·7	10·3	12·8	33	..	2·3	..	6·9	0	1	24	4	6	2	1	1	5	2	4	4	0
	2330	,,	1012·3	978·4	..	22·6	16·5	11·6	13·8	52	..	1·7	.	6·5	0	0	27	4	0	6	4	7	4	2	0	2	0
Kanker	0830	402	1014·2	968·9	+0·2	22·2	18·1	14·8	17·4	61	−7	1·9	+0·1	0·8	0	0	5	1	1	0	0	0	2	1	0	24	0
	1730	,,	1009·1	965·0	..	29·4	20·3	14·1	16·4	41	..	2·3	..	2·4	0	0	22	8	2	0	0	0	4	7	1	7	0
Jagdalpur	0530	553	1012·5	949·8	..	17·6	15·8	14·6	16·6	83	..	1·7	..	0·8	0	0	4	1	0	1	0	1	0	1	0	25	0
	0830	,,	1014·2	952·1	−0·2	21·0	17·3	15·0	17·0	70	−1	2·1	+0·5	3·2	0	0	19	1	3	4	3	5	1	2	0	10	0
	1130	,,	1012·4	951·8	..	27·9	19·1	13·5	15·7	43	..	2·3	..	7·8	0	1	27	1	5	2	2	1	10	2	5	1	0
	1730	,,	1008·7	948·4	..	28·1	18·9	12·9	15·1	42	..	3·4	..	5·4	0	1	22	1	2	1	1	4	13	1	0	6	0
	2330	,,	1012·7	950·6	..	20·8	17·1	14·7	16·9	69	..	0·8	..	1·5	0	0	6	0	1	0	1	2	2	0	0	23	0
Gujarat Region—																											
Deesa	0830	136	1014·5	998·2	−0·9	14·9	9·6	2·7	7·7	46	..	0·4	.	3·7	0	0	28	0	21	2	2	0	0	0	3	1	0
	1730	,,	1011·2	995·8	..	28·9	15·9	2·1	7·5	18	..	0·2	..	3·2	0	0	29	0	8	0	4	4	0	8	5	0	0
Radhanpur	0830	30	1014·4	1010·8	..	15·4	11·9	8.5	10·7	65	..	0	..	4·1	0	0	27	0	9	6	2	1	3	0	6	2	0
	1730	,,	1011·1	1007·7	..	29·8	21·7	16.7	19.4	48	..	0	..	5·3	0	0	29	4	6	0	2	0	2	0	15	0	0
Idar	0830	219	1014·3	988·9	..	20·3	11·4	−0·5	6·3	28	..	1·3	..	7·8	0	1	23	5	10	5	1	0	0	1	2	5	0
	1730	,,	1010·4	985·9	..	28·5	15·6	1·1	7·3	18	..	1·0	..	3·7	0	0	22	0	2	2	2	0	0	15	1	7	0
Ahmadabad	0230	55	1012·4	1005·8	.	16·9	11·1	4·4	8·5	45	..	0	..	7·9	0	0	25	8	6	1	0	0	0	2	8	4	0
	0530	,,	1012·2	1005·6	..	15·2	10·3	4·2	8·6	50	..	0·1	..	8·9	0	0	25	5	8	3	0	1	0	2	6	4	0
	0830	,,	1014·2	1007·7	−0·9	16·8	11·0	4·0	8·5	44	−12	1·2	0	9·4	0	3	20	2	9	9	0	0	0	1	2	6	0
	1130	,,	1014·7	1008·4	.	27·0	15·5	3·5	8·3	23	..	1·2	..	17·0	0	10	19	1	8	13	3	0	1	1	2	0	0
	1730	,,	1010·5	1004·3	.	30·4	16·6	2·7	7·7	18	..	1·4	..	13·0	0	3	26	6	2	4	1	4	1	4	7	0	0
	2330	,,	1012·9	1006·4	.	19.4	12·5	5·2	8·9	40	..	0·2	..	8·3	0	0	27	7	4	1	1	0	3	1	10	2	0
Dohad	0830	333	1014·7	976·1	−0·4	17·0	10·2	1·3	7·0	36	−13	0·6	−0·5	5·9	0	1	24	0	8	9	3	4	0	1	0	4	0
	1730	,,	1009·4	972·6	.	29·9	15·4	−1·4	5·8	16	..	0·6	..	6·3	0	1	24	2	1	3	0	0	12	5	2	4	0
Vallabh Vidyanagar	0830	44	1014·1	1009·0	.	15·6	11·0	5·7	9·4	54	..	0·6	..	7·2	0	0	25	7	11	1	1	1	2	1	1	4	0
	1730	,,	1010·2	1005·4	.	30·7	17·3	4·8	8·9	20	.	0·9	..	6·4	0	0	29	7	2	1	0	1	4	1	13	0	0
Baroda Aerodrome	0830	38	1014·2	1009·7	.	16·5	11·1	5·0	8·9	48	..	0·2	..	7·3	0	0	25	12	3	3	0	3	2	1	1	4	0
	1130	,,	1014·4	1010·1	..	27·9	16.1	4·5	8·8	24	..	0·3	.	11·9	0	5	19	5	7	6	0	2	0	3	1	5	0
	1730	,,	1010·1	1005·9	..	31·0	16·9	3·1	7·9	18	..	0·6	..	12·2	0	5	21	8	2	0	0	2	1	5	8	3	0
Baroda	0530	34	1012·0	1007·8	.	15·2	11·1	6·5	9·9	57	.	0	..	0·3	0	0	4	0	3	0	0	0	0	0	1	25	0
	0830	,,	1014·3	1010·1	0	15·5	11·1	6·3	9·7	55	−7	0·4	−0·5	0·7	0	0	8	0	8	0	0	0	0	0	0	21	0
	1130	,,	1014·6	1010·6	..	28·4	16·7	5·6	9·5	25	..	0·4	.	1·9	0	0	14	0	8	3	1	0	0	1	1	15	0
	1730	,,	1010·3	1006·4	..	31·9	18·0	5·6	9·4	20	.	0·7	.	2·0	0	0	16	1	3	0	0	0	0	5	7	13	0
	2330	,,	1012·7	1008·6	..	20·0	13·9	8·0	10·9	47	..	0	..	0·6	0	0	7	0	5	0	0	0	0	1	1	22	0
Broach	0830	17	1013·3	1011·3	−0·3	15·8	11·2	6·0	9·6	54	−2	0·3	−0·6	4·3	0	0	29	2	13	0	2	1	2	0	9	0	0
	1730	,,	1009·4	1007·5	..	32·6	17·2	2·6	7·2	15	..	0·5	..	6·4	0	0	29	0	15	0	3	0	1	1	9	0	0
Surat	0530	12	1011·7	1010.3	..	16·2	13·6	11·3	13·5	74	..	0	..	6·3	0	0	26	12	5	2	7	0	0	0	0	3	0
	0830	,,	1013·8	1012·4	−6	17·7	14·2	11·1	13·4	67	+7	0·6	−0·4	6·2	0	0	25	3	11	2	4	1	0	0	4	4	0
	1130	,,	1014·1	1012·8	..	29·2	18·8	10·9	13·3	33	..	0·8	..	7·2	0	0	28	5	9	5	2	0	1	0	6	1	0
	1730	,,	1009·9	1008·6	..	30·2	19·5	11·5	13·9	32	..	1·7	..	6·9	0	0	29	0	4	0	0	0	6	1	18	0	0
Saurashtra and Kutch	2330	,,	1012·7	1011·3	..	20·6	16·4	12·9	15·3	63	..	0·1	..	7·3	0	2	23	6	6	0	1	1	5	3	3	4	0
Bhutakia Bhimasar	0830	47																									
(R)	1730	,,																									
Naliya	0830	21	1014·7	1012·2	..	13·2	10·5	7·3	10·5	70	..	1·8	..	7·9	0	1	27	7	14	4	0	0	1	0	2	1	0
	1730	,,	1011·4	1009·0	..	27.8	17.6	8.5	11·9	33	..	0·9	..	10.0	0	0	29	2	9	0	0	0	10	6	2	0	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra & Kutch (Contd.)																											
Bhuj (Rudramata)	0230	80	1013·3	1004.0	..	16·7	12·8	8·5	11·6	63	..	0·1	.	4·3	0	0	14	4	0	0	0	0	2	3	5	15	0
	0530	,,	1013·1	1003·5	..	14·4	11·7	8·7	11·5	71	..	0·3	..	1 6	0	0	6	0	1	1	0	1	1	2	0	23	0
	0830	,,	1014.9	1005·4	−0·1	14·9	11·9	8·7	11·5	69	+21	2 0	+0·8	0·5	0	0	2	0	0	0	0	1	1	0	0	27	0
	1130	,,	1015·4	1006·2	..	24·2	16·3	8·1	12 2	43	.	1·4	..	12 6	0	3	22	5	11	5	0	0	0	0	4	4	0
	1730	,,	1011 2	1002·1	..	28·9	18.0	7·1	11·8	33	..	0·9	..	11.2	0	2	24	10	6	2	0	2	0	2	4	3	0
	2330	,,	1013 8	1004·4	..	19 0	13·7	7·8	11·4	54	..	0	..	6.3	0	0	17	6	0	0	0	0	0	8	3	12	0
Kandla Aerodrome.	0830	35	1014 8	1010.7	..	17·4	11·7	4·4	9·1	47	..	0·8	..	17.7	0	12	17	9	0	0	0	0	0	2	18	0	0
	1130	,,	1015·7	1011·7	..	25·9	14 8	1·8	7·9	24	..	0·9	..	21·3	0	16	13	9	9	4	0	0	0	3	4	0	0
	1730	,,	1011·3	1007 4	..	29·3	15·9	0·2	7·2	18	.	0·6	..	19·7	0	16	12	10	2	0	0	6	4	3	3	1	0
New Kandla . .	0830	14	1015 0	1013.3	..	17·5	12·4	7·0	10·3	52	.	1·7	..	11·2	0	1	28	13	4	0	1	0	1	2	8	0	0
	1730	,,	1011·9	1010.3	..	26·7	17·0	8·4	11·5	33	..	1·0	..	12·6	0	5	23	7	6	2	1	3	7	2	0	1	0
Mandvi .	0830	9	1014 8	1013·7	−0·2	16·6	12·8	8·7	11·7	67	−2	2·4	+1·4	14·8	0	7	22	8	14	1	0	0	0	0	5	0	1
	1730	,,	1011 9	1010·8	..	24·0	20·1	17.6	20·4	70	..	0·9	..	21·9	0	16	13	0	0	1	1	3	12	8	0	0	4
Surendranagar .	0830	74	1014·4	1005·6	−0·1	17·8	13·5	9·0	12·0	59	+5	1·2	0	7·4	0	0	28	10	2	2	0	0	0	5	9	1	0
	1730	,,	1010·4	1002·1	..	30·6	21·0	14.6	17·0	39	..	0 7	..	9·4	0	0	28	6	3	3	1	0	0	7	8	1	0
Okha . .	0530	7	1013.1	1012·3	..	20·2	18·3	16·8	19·5	82	..	0·1	..	23·8	0	20	8	13	3	0	0	0	0	1	11	1	0
	0830	,,	1014·8	1014·0	..	20·3	17·9	16·0	18·5	78	..	1·7	..	21.5	0	21	8	10	7	2	0	0	0	0	10	0	0
	1130	,,	1016·2	1015·4	..	22·0	18.4	15 6	18·2	70	..	0·8	..	20·3	0	17	12	10	5	6	0	0	0	0	8	0	0
	1730	,,	1012·5	1011·7	..	22.9	19.9	17·8	20·8	75	..	0·9	..	17·1	0	11	18	2	3	2	0	0	0	6	16	0	0
	2330	,,	1014·4	1013 6	..	21·0	19·6	18·5	21·7	87	..	0	..	19·4	0	14	14	5	1	0	0	0	0	4	18	1	0
Jamnagar (Aerodrome)	0530	23	1012·7	1010 0	..	14.7	11·9	8 8	11·7	70	..	0·1	..	6·4	0	1	17	1	4	0	2	2	4	5	0	11	0
	0830	,,	1014·7	1012·0	−0·7	14·8	11 5	7 7	10·9	65	+9	0·9	−0·3	3 8	0	0	15	1	3	4	1	3	0	2	0	14	1
	1130	,,	1015·5	1012·8	..	24·1	15·5	7·3	10.7	37	..	0·8	..	12·6	0	6	19	5	14	2	0	0	0	1	3	4	0
	1730	,,	1011·3	1008·7	..	27·3	15·9	4·0	8·8	26	..	0·7	..	17 2	0	12	16	9	6	0	0	0	0	6	7	1	0
	2330	,,	1013·6	1011·0	..	19·4	15·8	12 8	15·1	67	..	0	..	11 3	0	6	23	7	2	0	0	0	4	13	3	0	0
Dwarka .	0830	11	1014·6	1013·3	−0·7	18·7	16·7	15 1	18·5	80	+9	0·8	−1·0	11·7	0	3	26	20	5	1	0	0	0	0	3	0	5
	1730	,,	1011·7	1010·4	..	24·1	19·9	17 2	19 7	68	..	0·5	..	17 2	0	10	19	11	2	1	0	0	0	6	9	0	0
Rajkot . .	0530	138	1012·8	996·5	..	13·8	10 6	6 5	10 2	66	..	0·1	..	4 5	0	1	14	3	2	0	0	1	2	2	4	14	1
	0830	,,	1014 5	998·4	−0·4	16·4	12 2	7.4	10 8	58	+2	0·3	−0·9	4 1	0	0	13	3	3	0	0	0	0	3	4	16	0
	1130	,,	1014·5	998·9	..	27·2	18·4	11.5	14 0	40	..	0·3	..	18 8	0	16	11	8	14	1	1	0	0	0	3	2	0
	1730	,,	1010·2	994.8	..	30.4	19.8	12.1	14.5	34	..	0.2	..	17.6	0	14	15	6	4	0	1	2	2	1	13	0	0
Bhavnagar Aerodrome	0830	11	1014·3	1013·0	−0.6	17·8	11·3	3·0	8 2	40	−3	0·3	−1·0	9·4	0	4	21	2	2	0	0	0	2	5	12	4	2
	1130	,,	1014·8	1013·6	..	25·9	15·5	5·4	9·1	28	..	0·3	..	16·2	0	11	18	9	16	0	1	0	0	0	3	0	0
	1730	,,	1010 5	1009·3	..	29·8	16·5	3·3	8 0	20	..	0·3	..	19·1	0	13	16	1	12	9	4	2	1	0	0	0	0
Porbandar Aerodrome	0830	7	1014·3	1013·5	−0.1	16·9	12·9	8·5	11·7	61	−9	0 9	−0·2	7.0	0	4	16	6	2	1	4	1	2	0	4	9	0
	1130	,,	1015·1	1014·3	..	27·3	17·0	7·4	11·0	32	..	0 6	..	13·1	0	8	20	4	9	4	1	2	4	0	3	1	1
	1730	,,	1011·2	1010·4	..	26 7	18 3	10·9	14 2	42	..	0·4	..	22·1	0	20	9	4	2	0	0	0	4	17	2	0	0
Keshod .	0830	51	1014 4	1008·3	..	15 5	10·6	4·1	8·8	52	..	0·2	..	10·3	0	2	26	5	9	10	1	0	0	0	0	1	3
	1130	,,	1014·9	1009 1	..	26·8	15 2	2.5	7·9	24	..	0·1	..	15·6	0	7	22	9	11	5	0	0	0	0	1	0	3
	1730	,,	1010 6	1004·8	..	30·9	16 7	1.3	7·5	18	..	0.2	..	23·8	0	20	9	3	1	1	0	1	3	15	5	0	0
Mahuva .	0830	9	1013.4	1012·3	.	17·1	10·8	2·7	7·9	41	..	0·8	..	2·4	0	0	21	10	6	0	0	0	0	0	5	8	0
	1730	,,	1010.6	1009.6		27·7	17.7	8·6	12·2	33	..	0 8	..	4·5	0	0	29	1	6	4	10	3	3	0	2	0	0
Veraval .	0230	8	1012·2	1011.3	..	17·2	13·0	7·8	11·5	60	..	0·1	..	15 0	0	5	24	19	8	0	0	0	0	0	2	0	0
	0530	,,	1011·9	1011 0	..	16·2	11·9	6·3	10 5	58	..	0	..	13·4	0	5	23	18	7	0	0	0	0	0	3	1	0
	0830	,,	1013·8	1012·9	−0·9	17·1	12·1	5·8	10·1	52	−4	0·9	−0·2	9·2	0	2	27	13	11	0	2	1	0	0	2	0	0
	1130	.	1014·6	1013·7	..	26·0	17·9	10·5	13 9	43	..	0·5	..	14·5	0	7	22	2	5	1	2	2	6	9	2	0	0
	1730	,,	1010·8	1009·9	..	24·8	20·5	17·5	20·6	66	..	0·7	..	21·4	0	16	13	0	1	0	1	1	4	13	9	0	0
	2330	,,	1013·3	1012·4	..	19·4	15 9	12·4	15·3	68	..	0·2	..	11·7	0	3	26	12	4	2	0	0	0	2	9	0	0
Konkan Dahanu .	0830	5	1012·7	1012·2	−0·3	18·7	14·7	10 9	13.5	62	−7	0 6	−0.5	5.5	0	0	27	0	8	18	1	0	0	0	0	2	0
	1730	,,	1010·1	1009·6	..	25·7	20·4	17·3	19·7	61	.	0·4	..	14·8	0	8	21	15	0	0	0	0	0	4	10	0	0
Bombay (Santa Cruz)	0230	14	1011·2	1009 6	..	18·6	15·6	13 4	15 3	73	..	0	..	3·7	0	0	15	8	3	1	1	0	0	0	2	14	0
	0530	,,	1010·9	1009·2	..	17.6	15·3	13·0	15 5	77	..	0 1	..	4·8	0	0	21	8	5	6	0	0	0	0	2	8	0
	0830	,,	1012·9	1011·3	−1·1	21·1	16·3	12.4	14·7	59	−3	0·9	−0·1	3.4	0	0	17	1	4	11	1	0	0	0	0	12	0
	1130	,,	1013·3	1011·7	..	29·1	18·6	10·4	12 9	33	..	0.5	..	10·7	0	0	29	3	3	5	4	1	0	7	6	0	0
	1730	,,	1009·8	1008·2	..	27·2	19·6	14·4	16·6	47	..	0·9	..	15·8	0	6	23	5	0	0	0	0	0	2	22	0	0
	2330	,,	1012·3	1010·6	..	20·3	17.3	15·1	17·4	73	..	0·1	..	3·3	0	0	14	7	4	0	0	0	0	0	3	15	0
Bombay . .	0830	11	1013·1	1011·8	−1·0	20·8	18·2	16·5	18·8	77	+6	1·0	0	2·6	0	0	18	5	7	4	0	0	1	0	1	11	0
	1130	,,	1013·4	1012·2	..	27·2	20·1	15·7	17·7	50	..	1·0	..	3.6	0	0	26	2	3	7	5	0	0	2	6	3	1
	1730		1010·0	1008 8	..	25·8	21·1	18·3	21·1	64	.	0·9	..	9·8	0	0	29	7	0	0	0	0	0	3	19	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan (*Contd.*).																											
Alibag	0830	7	1012·8	1012·0	−0·8	20·1	16.6	14.0	16.1	68	+1	0·1	−0·9	4·3	0	0	28	13	6	4	1	0	0	0	4	1	0
Bhira	0830	96	1012.5	1001·4	..	18.3	15.5	13.2	15.4	74	..	0·4	..	1.6	0	0	10	1	4	1	1	0	0	1	2	19	0
	1730	,,	1007·4	996.9	..	34.3	22.3	14·2	17.1	33	..	0.4	..	3.4	0	0	24	0	1	0	0	0	17	2	4	5	0
Harnai	0830	20	1012·3	1010·0	−0·2	23·4	17·7	13·6	15·7	56	−4	1·2	−0.1	7·0	0	2	20	8	5	3	2	1	1	1	1	7	0
	1730	,,	1009·5	1007·2	..	25·8	22·3	20·3	24·1	72	..	1·7	..	27·1	0	24	5	6	0	0	0	0	0	2	21	0	0
Ratnagiri	0830	35	1012·2	1008 1	−1·1	21.2	17·5	14·8	16·9	68	..	0·3	..	5.0	0	0	29	0	5	14	8	0	0	1	1	0	0
	1730	,,	1009·2	1005·3	..	28·1	22·1	18.8	21·7	58	..	0·9	..	9·7	0	0	29	6	0	0	0	0	0	7	16	0	0
Devgarh	0830	36	1012·0	1007·9	−0·6	22·3	19·6	17·9	20·5	77	+5	0·8	−0.8	7·6	0	0	29	3	7	17	1	0	0	0	1	0	0
	1730	,,	1009·0	1005·0	..	28·1	24·1	22·1	26·7	71	..	0·9	..	23.4	0	16	13	0	0	0	0	0	0	1	28	0	0
Vengurla	0230	9	1010·6	1009 6	..	20·6	18 3	17 0	19.3	80	..	0·3	..	1.4	0	0	7	7	0	0	0	0	0	0	0	22	0
	0530	,,	1010 2	1009·2		18·9	17·4	16·4	18 6	86	..	0·4	..	1.0	0	0	6	6	0	0	0	0	0	0	0	23	0
	0830	,,	1012·5	1011·5	−0·3	20·4	18·0	16 4	18 6	78	+2	0·8	−0·6	0.4	0	0	3	2	1	0	0	0	0	0	0	26	0
	1130	,,	1012·9	1011·9	..	30·1	20·6	14·2	16·5	40	..	0·6	..	5·9	0	2	22	1	0	3	2	4	9	5	0	5	0
	1730	,,	1009·2	1008 2	..	28·8	22·2	18·4	21·4	55	..	0·9	..	7.1	0	0	29	0	0	0	0	0	7	18	4	0	0
	2330	,,	1011.8	1010.8	..	22 5	19.6	17.8	20·5	76	..	0.3	..	1·9	0	0	9	8	0	0	0	0	0	0	1	20	0
Panjim	0830	57	1012.1	1005.6	..	21.6	19.1	17.5	20.0	79	..	1.7	..	6.3	0	0	24	1	3	14	4	1	1	0	0	5	0
	1130	,,	1012.3	1006.0	..	29.4	21.1	16.6	18.2	45	..	1.3	..	10.7	0	1	27	0	0	3	2	4	1	16	2	1	0
	1730	,,	1008.8	1002.4	..	28.2	22.0	18.5	21.4	56	..	1.7	..	15.6	0	8	21	9	0	0	0	0	0	5	15	0	0
Mormugao	0530	62	1010.0	1003.0	..	22.7	20.1	18.6	21.4	79	..	1.9	..	9.2	0	0	28	4	10	12	2	0	0	0	0	1	0
	0830	,,	1012.1	1005.0	..	24.2	20.4	18.1	20.9	70	..	2.1	..	8.7	0	0	28	2	9	12	2	1	1	0	1	1	0
	1130	,,	1012.5	1005.5	..	27.9	21.7	17.9	20.9	57	..	2.0	..	11.8	0	1	28	0	2	4	1	3	8	5	6	0	0
	1730	,,	1008.6	1001.7	..	27.7	23.1	20.7	24.4	66	..	1.9	..	18.9	0	7	22	1	0	0	0	0	3	6	19	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1014·0	990 2	..	21·1	16·7	13·4	15·5	62	..	0·1	..	5·2	0	0	27	1	2	15	0	5	1	3	0	2	0
	1730	,,	1009·0	986 2	..	31·4	24·0	19·8	23·8	52	..	0·3	..	2·9	0	0	26	4	1	4	0	1	0	16	0	3	0
Jalgaon	0830	201	1014 4	990·8	−0·1	16·3	9·4	0·7	6 2	35	−10	0 8	−0 2	7·2	0	0	25	1	2	7	5	2	7	1	0	4	0
	1730	,,	1008.7	986·5	..	32·9	17·0	0·4	6·5	13	..	0 8	..	10 5	0	1	27	5	2	6	0	1	4	5	5	1	0
Malegaon	0830	437	1015·0	964·5	−0·5	15·6	9·2	0·6	6·5	36	9	0 6	−0 5	5·3	0	0	28	4	0	0	0	0	2	12	10	1	0
	1730	,,	1008·0	960·3	..	31·8	16·7	1·0	6.8	15	..	1 3	..	7.7	0	0	28	4	4	4	2	2	1	6	5	1	0
Deolali (Aerodrome)	0830	571	1015·6	950·2	..	15.7	10·9	6·1	9·5	54	..	1·2	..	3 0	0	0	15	8	1	0	0	0	3	2	1	14	0
	1730	,,	1008·6	946·7	..	30·7	17.9	7·1	11 2	26	..	0·9	..	13 3	0	4	24	2	2	4	1	0	9	7	3	1	0
Ahmadnagar	0830	657	1014·4	940·2	−0·5	18·3	10·9	3·0	7.7	37	−3	1·4	+0 6	3·7	0	0	20	2	1	0	1	5	0	3	8	9	0
	1730	,,	1006·7	936·4	..	32·1	17·0	4·2	8·4	18	..	1 0	..	7 1	0	0	29	3	3	0	6	0	8	2	7	0	0
Poona (Aerodrome)	0230	593	1012·3	945·0	..	17·5	11.5	5.7	9·3	46	..	0·1	..	3·9	0	0	12	0	1	1	0	0	1	7	2	17	0
	0530	,,	1012·6	944·8	..	15·4	10·4	5 2	9 0	52	..	0·1	..	3·7	0	0	14	0	1	2	0	1	1	8	1	15	0
	0830	,,	1014·2	946·8	..	17·7	11·5	5·6	9·1	46	..	1·2	..	5·9	0	0	20	1	2	4	0	0	2	11	0	9	0
	1130	,,	1012·3	947·2	..	27·7	14·9	2·7	7·6	21	..	1·4	..	13·3	0	6	20	1	5	13	2	1	0	4	0	3	0
	1730	,,	1007·2	943·1	..	31·1	16·1	2·2	7·4	16	..	1·2	..	17·4	0	11	16	0	1	5	3	1	2	14	1	2	0
	2330	,,	1012·5	945·8	..	20·2	12·7	5·9	9·3	40	..	0·1	..	11·2	0	0	26	0	1	2	1	0	0	19	3	3	0
Poona	0530	559	1013·2	948.7	..	12·6	8·5	4·0	8.2	57	..	0·2	..	0·1	0	0	1	0	0	0	0	0	0	1	0	28	0
	0830	,,	1014·5	950·8	−0·5	16·9	11·4	6·3	9.5	51	−2	1·1	+0 3	0.3	0	0	4	0	0	0	1	1	0	1	1	25	0
	1130	,,	1012·0	950·7	..	27·9	15·6	4·5	8·8	25	..	1·1	..	4·6	0	0	24	1	2	13	2	1	0	1	4	5	0
	1730	,,	1007·3	946·8	..	31·1	16·5	3·7	8·1	16	..	0·9	..	6·0	0	0	25	1	2	5	1	0	0	13	3	4	0
	2330	,,	1012·8	949.6	..	19·1	12·2	5·7	9·2	42	..	0·1	..	0.1	0	0	6	0	0	0	0	0	2	2	2	23	0
Jejuri	0830	521	1013·8	954·5	−0·4	18·6	10·9	2·7	7·5	35	−12	1·3	+0·3	2·6	0	0	17	4	2	1	2	2	2	1	3	12	0
	1730	,,	1006.4	950·3	..	32·9	17.2	3·5	8·2	16	..	1.9	..	10·0	0	2	27	1	1	4	5	3	4	7	4	0	0
Baramati	0830	551	1014·2	951·6	−0 3	17·9	11·4	5.1	8·8	43	−6	0.3	−0·4	4·7	0	0	25	2	2	5	2	0	3	4	7	4	0
	1730	,,	1006·6	947·4	..	32·3	17·8	6·4	9·8	21	..	0·5	..	11·4	0	5	22	1	0	5	3	2	8	5	3	2	0
Sholapur	0530	479	1011 4	957·2	..	19·9	13·4	7·7	10·7	46	..	0·5	..	6·5	0	0	26	5	7	1	9	2	1	0	1	3	0
	0830	,,	1013·5	959·6	−0·4	22·1	14·7	8·6	11·4	42	+2	0·7	−0·2	6·3	0	0	26	4	9	1	8	2	0	1	1	3	0
	1130	,,	1011·9	959·5	..	29 9	19·2	12·3	14·4	35	..	0·7	..	10 5	0	1	28	4	5	2	11	2	4	0	1	0	0
	1730	,,	1007·0	955·3	..	33·2	20·1	11·9	13·9	27	..	1·1	..	7·1	0	0	27	4	1	2	9	1	4	4	2	2	0
	2330	,,	1011·3	958·0	..	25·3	16·1	8·9	11·5	36	..	0·8	..	8·9	0	0	29	3	11	3	7	1	4	0	0	0	0
Miraj	0830	554	1014·0	951·4	−0·4	18·9	12·5	6 6	9·8	45	−13	2·5	+1·6	..	0	0	6	0	0	4	0	0	0	2	0	23	0
	1730	,,	1006·5	947·0	..	33·0	17·5	4·4	8·7	17	..	2·6	..	..	0	1	15	0	0	9	0	0	4	3	0	13	0
Kolhapur	0530	570	1011·5	946·9	..	17 1	12·5	8·5	11·2	58	..	0·2	..	6·1	0	0	25	0	3	6	2	1	6	7	0	4	0
	0830	,,	1013·2	949·1	−0·6	20·4	14·1	8·1	11·5	46	−13	1·0	+0·2	4·4	0	0	17	1	2	10	1	1	0	1	1	12	0
	1130	,,	1011·2	949·2	..	29·7	16 6	5·5	9·3	22	..	0·7	..	12·3	0	4	25	0	6	11	5	2	1	1	3	0	0
	1730	,,	1006·4	945·1	..	31·7	17·7	6·5	10·0	22	..	0·9	..	12·4	0	3	25	2	2	6	1	1	2	12	2	1	0
	2330	,,	1011.7	948·0	..	21·6	15·2	10 2	12·6	50	.	0·1	..	9·9	0	0	29	0	1	5	2	0	6	15	0	0	0
Marathwada																											
Aurangabad	0830	581	1014.1	948·8	−0·7	20·7	11.9	2·7	7·6	31	−9	1·4	+0·3	2·2	0	0	10	0	1	7	0	1	0	1	0	19	0
	1730	,,	1007.8	945·0	..	31·1	16.0	2 2	7·2	16	..	1·0	..	6·1	0	0	24	1	0	4	0	0	2	14	3	5	0
Aurangabad (Chikalthan)	0230	579	1012·6	946·5	..	15·7	9.7	3·1	7·7	43	..	0	..	5·4	0	0	14	1	1	1	0	0	1	7	3	15	0
	0530	,,	1013·1	946·3	..	12·9	7·9	1·9	7·1	48	..	0·1	..	2·8	0	0	8	0	0	0	2	0	0	3	3	21	0
	0830	,,	1013·7	948·5	..	20·6	12·8	5·1	9·1	38	..	0·8	..	3·9	0	0	12	0	1	2	1	0	0	7	1	17	0
	1130	,,	1012·4	948·9	..	28·2	17·5	9.1	12·2	32	..	0·5	..	15·5	0	5	24	2	3	3	10	3	3	2	3	0	0

Sub-Divison and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in geopm. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Windspeed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*contd.*																											
Aurangabad (Chikalthan)—*Contd.*	1730	579	1007.4	944.8	..	31.0	18.6	9.3	12.3	28	..	0.9	..	12.8	0	3	24	1	0	4	2	0	5	12	3	2	0
	2330	,,	1012.8	947.2	..	18.4	11.4	4.3	8.4	40	..	0.1	..	5.8	0	0	13	3	0	1	0	1	0	5	3	16	0
Parbhani	0830	423	1014.3	966.1	+0.7	20.0	11.7	1.9	7.1	31	−12	0.7	−0.4	5.0	0	0	27	4	1	1	5	1	1	8	6	2	0
	1730	,,	1008.0	961.9	..	32.4	17.1	1.4	7.1	15	..	1.2	..	7.4	0	0	29	4	2	5	4	0	0	6	8	0	0
Nander	0830	358	1013.9	973.1	..	21.5	14.8	8.8	11.4	45	..	0.3	..	2.8	0	0	12	1	2	0	5	0	1	1	2	17	0
	1730	,,	1008.6	969.4	..	32.7	19.3	8.3	11.5	23	..	0.8	..	5.3	0	0	24	0	4	0	9	0	2	1	8	5	0
Bir	0830	519	1014.3	955.7	..	20.8	15.7	11.8	14.1	55	..	0	..	3.2	0	0	19	0	2	0	4	7	2	1	3	10	0
	1730	,,	1007.4	951.3	..	32.2	21.7	15.4	18.3	38	..	0	..	4.4	0	0	22	2	2	1	4	1	2	5	5	7	0
Vidarbha																											
Gondia	0830	313	1015.0	979.0	+0.2	19.5	14.7	10.6	12.9	57	−3	1.8	+0.5	3.2	0	0	23	5	3	1	6	2	3	0	3	6	0
	1730	,,	1009.4	974.8	..	30.1	19.2	10.5	13.4	32	..	1.7	..	3.9	0	0	27	10	2	0	0	3	6	4	2	2	0
Nagpur (Sonegaon)	0230	310	1011.7	976.0	..	18.4	12.9	7.3	10.4	50	..	0.5	..	6.0	0	0	26	10	4	1	1	0	1	4	5	3	0
	0530	,,	1012.4	976.4	..	16.6	12.1	7.4	10.4	56	..	1.0	..	6.4	0	0	27	13	4	0	1	2	1	1	5	2	0
	0830	,,	1014.5	978.8	−0.4	19.7	13.2	6.4	9.9	43	−9	2.0	+0.2	6.4	0	0	27	10	7	5	2	0	1	0	2	2	0
	1130	,,	1013.2	978.6	..	28.2	17.5	8.1	11.3	31	..	1.9	..	7.1	0	0	25	0	6	6	6	2	2	2	1	4	0
	1730	,,	1008.6	974.3	..	30.6	17.7	6.3	9.8	24	..	1.8	..	7.4	0	2	26	3	7	6	2	3	3	2	2	1	0
	2330	,,	1012.3	976.9	..	20.6	14.0	7.5	10.7	45	..	0.9	..	5.1	0	0	21	7	6	3	1	0	1	0	3	8	0
Amravati	0830	370	1014.0	972.0	−0.3	22.2	13.1	2.5	7.7	29	−14	1.8	+0.4	5.2	0	0	27	2	13	6	1	3	2	0	0	2	0
	1730	,,	1008.2	967.8	..	31.8	16.8	1.5	7.0	15	..	1.4	..	5.3	0	0	29	1	0	4	2	3	6	9	4	0	0
Akola Aerodrome	0530	309	1011.2	975.4	..	17.3	9.8	0.2	6.1	32	..	0.5	..	8.1	0	0	26	6	4	3	6	1	2	1	3	3	0
	0830	,,	1013.3	977.9	..	20.2	11.6	1.3	6.8	29	..	1.2	..	8.6	0	1	26	2	8	5	2	1	4	3	2	2	0
	1130	,,	1012.7	978.1	..	28.5	16.1	3.5	8.2	21	..	1.1	..	10.6	0	0	29	1	3	6	5	3	2	6	3	0	0
	1730	,,	1007.6	973.7	..	32.1	16.7	0.6	6.5	14	..	1.7	..	9.2	0	0	29	3	5	0	1	1	3	6	10	0	0
	2330	,,	1011.1	976.0	..	22.5	12.1	−0.8	6.5	21	..	0.4	..	8.4	0	0	27	6	1	4	5	4	1	1	5	2	0
Akola	0830	282	1014.1	981.6	−0.4	19.6	11.8	3.1	7.6	35	−9	0.7	−0.7	0.2	0	0	3	0	3	0	0	0	0	0	0	26	0
	1730	,,	1007.9	977.2	..	32.6	17.7	4.1	8.2	18	..	1.0	..	1.3	0	0	15	3	1	2	1	0	0	6	2	14	0
Bramhapuri	0830	229	1014.6	988.2	..	20.9	16.5	13.0	15.2	63	..	2.0	..	3.5	0	0	22	6	4	4	3	4	1	0	0	7	0
	1730	,,	1009.2	984.2	..	31.1	19.5	10.4	13.2	31	..	2.2	..	2.7	0	0	25	2	3	4	5	5	4	2	0	4	0
Buldhana	0830	650	1013.7	940.8	+0.1	20.2	11.6	2.6	7.4	32	−11	0.7	−0.4	6.0	0	0	25	1	4	1	6	2	4	0	7	4	0
	1730	,,	1008.4	937.7	..	29.6	15.7	3.1	7.7	19	..	0.7	..	5.7	0	0	26	4	9	0	1	2	1	1	8	3	0
Yeotmal	0830	451	1013.1	962.2	−0.4	22.0	13.6	4.0	8.7	34	−8	2.1	+0.5	8.8	0	1	28	4	5	10	1	1	1	6	1	0	0
	1730	,,	1007.7	958.6	..	31.4	17.2	3.3	7.7	18	..	2.6	..	8.6	0	2	27	5	3	7	2	2	1	7	2	0	0
Chanda	0830	193	1013.6	991.4	−0.9	21.2	16.8	13.3	15.6	62	+5	1.5	+0.1	5.4	0	0	28	1	7	10	6	1	1	0	2	1	0
	1730	,,	1008.6	987.2	..	31.3	19.8	11.8	13.7	30	..	2.7	..	6.8	0	0	29	2	7	8	6	3	1	1	1	0	0
Pusad	0830	334	1014.6	976.4	..	20.1	14.1	8.4	11.2	48	..	1.3	..	3.2	0	0	26	4	2	1	3	1	3	1	11	3	0
	1730	,,	1008.6	972.1	..	32.8	20.8	12.3	14.8	30	..	2.6	..	8.1	0	0	28	2	9	0	6	0	6	1	4	1	0
Sironcha	0830	123	1014.7	1000.6	+0.2	23.6	19.4	16.7	19.1	66	+1	2.3	+0.7	3.4	0	0	26	1	0	3	21	1	0	0	0	3	0
	1730	,,	1009.1	995.5	..	33.0	20.9	12.4	14.9	30	..	1.6	..	5.1	0	0	29	0	0	4	23	1	1	0	0	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1014.7	1014.0	−0.1	25.4	22.6	21.2	25.2	77	−2	1.6	−0.2	6.4	0	0	28	10	2	0	1	2	3	1	9	1	0
	1730	,,	1011.0	1010.3	..	27.4	24.8	23.4	29.1	79	..	1.1	..	11.6	0	3	26	1	0	0	7	11	8	0	2	0	0
Vishakhapatnam	0230	3	1012.3	1011.9	..	22.5	20.7	19.7	22.9	84	..	1.6	..	1.1	0	0	5	0	0	1	0	1	2	1	0	24	0
	0530	,,	1012.4	1012.0	..	21.5	19.9	18.0	21.7	85	..	1.3	..	0.3	0	0	2	0	0	0	0	1	1	0	0	27	0
	0830	,,	1014.7	1014.3	0	25.5	21.6	19.4	22.7	69	−8	2.2	−0.3	2.1	0	0	9	1	0	1	1	1	1	2	2	20	0
	1130	,,	1014.2	1013.8	..	30.6	22.3	17.6	20.1	47	..	2.8	..	10.7	0	3	21	0	0	2	8	6	7	1	0	5	0
	1730	,,	1011.2	1010.8	..	27.8	22.0	18.8	21.7	59	..	2.1	..	12.9	0	2	27	0	0	4	10	5	10	0	0	0	0
	2330	,,	1013.7	1013.3	..	24.0	21.5	20.2	23.5	79	..	2.5	..	1.4	0	0	7	0	0	1	1	2	2	0	1	22	0
Kakinada	0830	8	1014.7	1013.8	0	23.3	21.1	20.0	23.2	81	+6	2.3	−0.3	6.8	0	0	29	0	27	0	2	0	0	0	0	0	0
	1730	,,	1011.0	1010.1	..	27.9	22.7	20.0	23.4	63	..	1.0	..	13.2	0	0	29	0	0	0	29	0	0	0	0	0	0
Nidadavole	0830	12	1014.7	1013.2	..	24.0	21.3	19.8	23.2	77	..	3.3	..	4.8	0	0	27	6	11	9	1	0	0	0	0	2	0
	1730	,,	1010.5	1009.1	..	30.1	22.4	18.3	20.8	49	..	2.9	..	6.9	0	0	29	0	0	7	10	4	6	2	0	0	0
Kottachintala	0830	106	1013.9	1001.7	..	24.7	21.1	19.1	22.0	71	+1	2.8	−0.1	2.1	0	0	21	0	0	1	6	11	1	2	0	8	0
	1730	,,	1008.7	997.0	..	33.2	22.0	15.2	17.3	35	..	2.7	..	2.7	0	0	27	0	0	0	22	5	0	0	0	2	0
Cocanada	0230	24	1011.9	1009.1	..	21.4	20.5	20.0	23.4	91	..	1.0	..	2.7	0	0	16	6	3	4	2	0	0	0	1	13	0
	0530	,,	1012.1	1009.2	..	21.0	20.3	19.9	23.2	93	..	1.4	..	3.0	0	0	17	1	5	10	0	0	0	0	1	12	0
	0830	,,	1014.4	1011.7	+0.4	24.5	22.1	20.9	24.7	80	+2	2.8	+0.7	7.9	0	0	27	1	4	14	5	3	0	0	0	2	0
	1130	,,	1014.0	1011.2	..	29.9	22.8	18.9	21.8	52	..	3.4	..	14.4	0	2	27	0	2	11	8	6	1	1	0	0	0
	1730	,,	1010.5	1007.7	..	30.1	21.9	17.0	19.5	46	..	2.3	..	17.7	0	10	19	0	0	2	18	9	0	0	0	0	0
	2330	,,	1013.2	1010.4	..	22.7	20.9	19.9	23.2	84	..	1.0	..	4.2	0	0	18	2	3	7	3	2	0	0	1	11	0
Nagarjuna Konda(R)	0830	126	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*contd.*																											
Masulipatam	0830	3	1014·3	1013·9	—0·4	24·3	22·1	21·0	24·7	82	+1	4·8	+2·7	2·7	0	0	22	7	6	1	2	4	1	0	0	7	1
	1730	,,	1011·0	1010·7	..	27·8	23·0	20·6	24·1	65	..	3·0	..	6·1	0	0	28	0	0	10	15	0	0	0	0	1	3
Ongole	0830	12	1014·0	1012·7	..	25·0	23·3	22·5	27·3	86	..	3·3	..	2·0	0	0	21	2	1	1	10	0	6	1	0	8	0
	1730	,,	1010·5	1009·1	..	28·8	25·7	24·2	30·4	77	..	2·2	..	4·7	0	0	28	0	0	27	0	0	1	0	0	1	0
Nellore	0530	20	1011·5	1009·1	..	21·7	20·9	20·4	24·1	92	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	0830	,,	1013.8	1011·5	—0·4	24·5	22·1	20·8	24·7	80	—1	2·8	+0·4	0·3	0	0	5	0	0	0	2	0	1	1	1	24	0
	1130	,,	1013·5	1011·2	..	30·6	23·3	19·4	22·7	51	..	3·4	..	2·9	0	0	27	0	19	2	4	2	0	0	0	2	0
	1730	,,	1010·3	1008·0	..	29·0	22·9	19·7	22·9	58	..	3·8	..	4·4	0	0	29	0	28	0	1	0	0	0	0	0	0
	2330	,,	1012·7	1010·5	..	23·9	22·2	21·3	25·3	85	..	0·5	..	0·6	0	0	4	0	0	0	4	0	0	0	0	25	0
Telangana Ramgundam	0830	156	1013·5	995·7	—0·5	23·4	19·9	17·8	20·4	71	+17	2·1	+0·2	5·3	0	1	23	0	1	4	12	5	2	0	0	5	0
	1730	,,	1008·7	991·4	..	33·6	21·4	13·2	15·6	30	..	2·8	..	5·4	0	0	28	0	2	7	11	5	1	1	1	1	0
Nizamabad	0830	381	1013.4	970.4	—0·5	23.5	17.9	13.5	16.0	55	+1	0·7	—0.5	0·3	0	0	3	0	0	0	2	0	1	0	0	26	0
	1730	,,	1007·9	965·7	..	32.3	19·5	9.3	12.3	25	..	2.4	..	1.2	0	0	15	0	11	0	2	0	1	0	1	14	0
Hanamkonda	0830	269	1013·8	983·3	—0·7	23·3	20·3	18·5	21.3	75	+5	1·8	—0·7	2·5	0	0	29	0	0	0	7	22	0	0	0	0	0
	1730	,,	1009·7	980·8	..	31·9	20·3	12·1	14·3	31	..	1·7	..	2·0	0	0	29	2	2	4	16	5	0	0	0	0	0
Hakimpet (Aerodrome)	0530	613	1011·7	942·9	..	19·6	17·1	15·5	17·9	79	..	1·8	..	13·4	0	0	29	0	0	1	23	3	1	1	0	0	0
	0830	,,	1013·0	944·7	..	22·3	18·6	15·6	18·7	66	..	3·5	..	15·2	0	2	26	0	0	1	20	3	2	2	0	1	0
	1130	,,	1011·9	945·0	..	28·2	19·2	13·2	15·7	42	..	2·4	..	16·4	0	5	23	0	0	0	18	6	3	1	0	1	0
	1730	,,	1008·3	941·8	..	29·8	18.5	10·8	13·0	32	..	3·5	..	15·8	0	5	21	0	0	3	18	3	2	0	0	3	0
Bhadrachallam	0830	111	1014·4	1001·6	—0·3	23·8	21.4	19·6	23·5	76	+3	6 2	+3·4	5·3	0	0	29	2	10	4	7	0	4	2	0	0	0
	1730	,,	1009·1	996·7	..	31.4	21.6	15·6	17·8	40	..	3·7	..	2·4	0	0	29	1	12	2	9	0	5	0	0	0	0
Hyderabad (Begampet)	0230	545	1011·1	950·1	..	21.1	17.1	14·5	16·3	66	..	1·5	..	6·4	0	0	24	0	0	5	18	0	1	0	0	5	0
	0530	,,	1011·6	950·1	..	19·0	16·5	14·9	16.9	78	..	1·7	..	4·6	0	0	20	0	1	5	14	0	0	0	0	9	0
	0830	,,	1013·7	952·6	—0·1	21 9	17·9	15·2	17·3	67	+1	3·5	+1·7	6·3	0	0	22	0	1	1	17	0	1	0	2	7	0
	1130	,,	1012·2	952·5	..	28·6	19·1	12·7	14·4	39	..	2·4	..	13·6	0	5	23	0	0	0	15	9	4	0	0	1	0
	1730	,,	1007·7	948·8	..	30·6	18·4	9·7	12·3	28	..	4·1	.	11·7	0	1	28	0	0	3	18	5	3	0	0	0	0
	2330	,,	1011·9	951·2	..	23·3	17·5	13·5	15·4	55	.	1·9	..	8·9	0	1	24	0	0	6	19	0	0	0	0	4	0
Khammam	0830	112	1014·4	1001·0	..	24·5	21·6	20·0	23·5	76	..	4·2	..	3·7	0	0	25	0	0	8	12	5	0	0	0	4	0
	1730	,,	1009·3	996·9	..	32·4	21·2	13·7	16·1	33	..	2·8	..	4·5	0	0	27	0	0	15	6	6	0	0	0	2	0
Mahbubnagar	0830	505	013·0	956·7	..	24·2	18·6	14·8	17·0	57	..	2·7	..	7·4	0	0	29	0	4	16	3	2	4	0	0	0	0
	1730	,,	1007·7	952·8	..	31·3	18·6	9·3	12·2	27	..	2·9	..	5·1	0	0	27	0	2	11	8	4	1	1	0	2	0
Rayalaseema Kurnool	0830	281	1013·1	981·2	—0·6	23.4	18·6	15·3	17·5	61	+2	1·9	+0·8	9·0	0	0	29	0	2	0	23	0	4	0	0	0	0
	1730	,,	1007·6	977·1	..	33·3	19·9	9·3	12·3	24	..	3·3	..	6·8	0	0	26	0	2	0	23	0	0	0	0	3	1
		,,																									
Anantapur	0530	350	1011·1	971·3	..	20.7	17·0	14·3	16·4	69	..	1·1	..	3·5	0	0	13	0	0	6	4	0	2	0	1	16	0
	0830	,,	1013·1	973·6	0	23·4	18·4	14·8	17·1	59	+5	2·1	+0·8	3·9	0	0	14	0	1	4	3	5	0	1	0	15	0
	1130	,,	1012·1	973·4	..	29.5	19·7	12·7	15·0	37	..	2·0	..	8·4	0	0	28	1	4	14	3	3	2	0	1	1	0
	1730	,,	1007·1	968·9	..	32.4	20·0	11·3	13·3	28	..	2·6	..	9·4	0	3	21	0	7	16	1	0	0	0	0	5	0
	2330	,,	1011.1	972.1	..	26·5	18·7	13·2	15·3	45	..	1·3	..	17·0	0	7	22	0	0	21	6	1	1	0	0	0	0
Cuddapah	0830	130	1013·8	998·9	—0·2	24.4	20·2	17·5	20·2	66	+2	1·5	+0·1	1·9	0	0	12	0	0	12	0	0	0	0	0	17	0
	1730	,,	1008·7	994·3	..	32.7	21·6	14·7	16·7	34	..	2·1	..	5·3	0	0	27	0	0	27	0	0	0	0	0	2	0
Arogyavaram	0830	701	1013.7	935·8	..	20.9	18·5	17·2	19·5	79	..	2·4	..	5·4	0	0	26	1	1	1	9	14	0	0	0	3	0
	1730	,,	1007·9	932·2	..	28·5	18·0	10·9	12·9	33	..	2·5	..	9·0	0	0	29	0	1	26	0	2	0	0	0	0	0
Madras State Madras	0830	6	1014·0	1013·3	..	25·7	22·6	21·1	25·0	76	..	3·7	..	5·2	0	0	20	4	3	2	1	2	1	5	2	9	0
Madras (Minambakkam)	0230	16	1011·6	1009·8	..	23·1	21·5	20·7	24·4	86	..	1·2	..	3·5	0	0	19	0	1	3	2	2	0	8	3	10	0
	0530	,,	1011·7	1009·9	..	22·2	21·0	20·3	24·1	89	..	1·4	..	3·9	0	0	23	3	0	0	1	3	0	11	5	6	0
	0830	,,	1014·2	1012·4	0	25·0	22·2	20·8	24·4	78	—2	3·3	+1·1	5·7	0	0	27	7	1	1	2	1	3	5	7	2	0
	1130	,,	1013·8	1012·0	..	29·7	22·9	19·3	22·4	54	..	4·3	..	11·0	0	1	28	2	5	15	4	3	0	0	0	0	0
	1730	,,	1010·7	1009·0	..	28·1	22·5	19·5	22·7	60	..	2·7	..	13·5	0	2	27	0	7	16	6	0	0	0	0	0	0
	2330	,,	1013·2	1011·5	..	24·2	21·9	20·7	24·4	81	..	0·9	..	5·5	0	0	21	0	2	11	5	1	0	0	2	8	0
Vellore	0530	214	1012·1	987·5	..	20.5	19·4	18·7	21·7	90	..	2·3	..	1.2	0	0	7	0	2	1	1	3	0	0	0	22	0
	0830	,,	1014·0	989·4	—0.3	22·0	19·8	18·5	21·3	80	—3	3·8	+1·4	1·3	0	0	10	0	1	0	0	3	4	1	1	19	0
	1130	,,	1013·3	989·3	..	28·6	21·6	18·4	20·1	51	..	3·7	..	5·7	0	0	20	1	4	5	4	4	1	0	1	9	0
	1730	,,	1009.2	985·5	..	30·5	21·8	15·7	17·8	41	..	2·4	..	6·1	0	0	26	0	2	15	8	1	0	0	0	3	0
	2330	,,	1013·1	988·8	..	24·2	20·6	18·6	21·3	71	..	1·8	..	4·7	0	0	21	1	3	10	3	4	0	0	0	8	0

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*contd.*)																											
Tambaram (Aerodrome)	0830	29	1012·7	1010.3	..	25·6	23·9	23·1	28·3	87	..	3·9	..	8·0	0	0	24	3	3	1	1	1	3	3	9	5	0
	1730	,,	1010·3	1007·1	..	28·5	24·3	22·2	26·9	69	..	2·7	..	18·9	0	8	21	0	11	11	7	0	0	0	0	0	0
Tiruppattur	0830	390	1014·3	969·9	..	20.2	18·9	18·4	20·8	88	..	4·5	..	2·5	0	0	25	19	6	0	0	0	0	0	0	4	0
	1730	,,	1008·3	965·4	..	29·4	22·9	19·5	22·7	55	..	5·3	..	9·2	0	0	29	21	6	2	0	0	0	0	0	0	0
Mettur Dam (R.S.)	0830	,,	..	..	..	24·9	21·3	19·3	22·4	72	..	2·6	..	4·6	0	0	28	0	11	0	5	0	5	0	7	1	0
	1730	,,	..	..	..	28·6	23·4	20·5	21·6	63	..	3·1	..	5·4	0	0	29	0	6	0	10	0	10	0	3	0	0
Cuddalore	0530	12	1011·2	1009·9	..	22·2	21·3	20·8	24·7	92	..	3·5	..	1·7	0	0	10	1	1	1	2	0	0	0	5	19	0
	0830	,,	1013.7	1012·3	−0·5	24·6	22·5	21·5	25.6	83	−1	4·8	+1·8	3·8	0	0	24	1	10	0	1	0	0	2	10	5	0
	1130	,,	1013·5	1012·1	..	28·8	23·7	21·2	25·0	64	..	5.1	..	11·5	0	0	29	3	15	6	4	1	0	0	0	0	0
	1730	,,	1010·3	1009·0	..	27·6	23·7	21·7	26.1	70	..	2·9	..	12·7	0	3	26	1	16	9	3	0	0	0	0	0	0
	2330	,,	1012·7	1011·4	..	25·5	22·9	21·6	25·8	79	..	2·9	..	7.2	0	0	26	1	17	3	5	0	0	0	0	3	0
Kallakkurichchi	0830	127	1013·7	999·2	..	24·2	22·1	21 1	24·9	83	..	2·8	..	5.1	0	0	24	3	1	0	0	1	2	0	17	5	0
	1730	,,	1008·9	994·9	..	31·0	24·0	20·4	24·1	54	..	2·9	..	11·4	0	0	29	0	11	15	3	0	0	0	0	0	0
Salem	0530	278	1011·7	980·0	..	21·4	18·9	17·2	19·7	77	..	2·2	..	4.4	0	0	28	0	9	17	2	0	0	0	0	1	0
	0830	,,	1013·6	982·2	−0·4	24·4	19·8	16·9	19·4	64	−10	3.0	+1·3	3·4	0	0	17	0	6	10	1	0	0	0	0	12	0
	1130	,,	1012·3	981·4	..	29·9	20·9	15·1	17·4	41	..	3·5	..	6·9	0	0	28	1	7	17	1	1	0	1	0	1	0
	1730	,,	1007·7	977·2	..	31·9	20·7	13·3	15·3	32	..	3·1	..	10·5	0	0	29	0	5	19	5	0	0	0	0	0	0
	330	,,	1012·0	980·7	..	25·0	20·5	17·7	20·5	64	..	1·5	..	13·0	0	3	26	0	8	19	2	0	0	0	0	0	0
Coimbatore (Pilamedu)	0530	399	1011·8	966·5	..	20·4	18.7	17·7	20·2	84	..	2·6	..	8·1	0	0	24	10	14	0	0	0	0	0	0	5	0
	0830	,,	1013·8	968·8	..	22·9	20·1	18·5	21·3	76	..	3·9	..	11·5	0	0	29	3	20	6	0	0	0	0	0	0	0
	1130	,,	1012·3	968·2	..	28·0	20·8	16·4	18·6	50	..	2·7	..	14·6	0	6	23	0	21	8	0	0	0	0	0	0	0
	1730	,,	1007·5	964·0	..	31·2	20·1	12·3	14·5	32	..	2·4	..	16·8	0	9	20	0	8	20	1	0	0	0	0	0	0
	2330	,,	1012·1	967·4	..	23·9	19·1	15·8	18·2	61	..	1·5	..	9·9	0	1	24	1	7	16	0	0	1	0	0	4	0
Coimbatore . .	0830	409	1013·7	967·6	−0·4	23·0	19·9	18·0	20·8	74	−4	4·3	+1·3	17·4	0	6	23	2	10	13	4	0	0	0	0	0	0
	1730	,,	1007·5	963·0	..	31·3	20·2	12·3	14·7	32	..	2·7	..	16·7	0	10	19	0	7	14	7	0	0	0	0	0	0
Nagapattinam .	0830	9	1013·5	1012·4	−0·3	27·3	23·1	21·0	24·9	69	−8	3·7	0	14·5	0	9	20	4	14	6	3	0	0	0	2	0	0
	1730	,,	1010·1	1009·0	..	27·8	23·6	21·5	25·6	69	..	3·4	..	20·2	0	19	10	1	21	6	1	0	0	0	0	0	0
Tiruchchirapalli	0230	88	1011·3	1001.2	..	22·4	21·1	20·4	24·0	88	..	1·5	..	7·1	0	0	23	4	17	1	1	0	0	0	0	6	0
	0530	,,	1011·3	1001·2	..	21·7	20·7	20·1	23·7	91	..	2·2	..	5·9	0	0	18	6	8	2	0	0	0	0	1	11	0
	0830	,,	1013·4	1003·3	−1·0	25·1	22·0	20·4	23·8	75	−6	3·2	+0·9	10·5	0	3	23	10	15	1	0	0	0	0	0	3	0
	1130	,,	1012·9	1003·0	..	29·8	22·4	18·3	21·0	51	..	3·5	..	14·7	0	8	20	1	18	7	2	0	0	0	0	1	0
	1730	,,	1008·8	999·0	..	31·3	22·1	16·7	19·0	42	..	2·9	..	15·7	0	8	21	0	11	18	0	0	0	0	0	0	0
	2330	,,	1012·6	1002·5	..	23·7	21·8	20·7	24·6	83	..	1.3	..	11·5	0	2	27	1	11	16	1	0	0	0	0	0	0
Vedaranniyam .	0830	4	1013.0	1012·5	..	27·3	23·6	21·7	25·9	72	..	3·0	..	5·2	0	0	26	10	10	1	3	1	0	0	1	3	0
	1730	,,	1009·8	1009·3	..	27·9	24·2	22·4	27·3	73	..	2·2	..	6·5	0	1	28	10	14	2	3	0	0	0	0	0	0
Atirampattinam .	0830	6	1013.0	1012·3	..	25·3	22·8	21·6	25·6	80	..	3·1	..	9·9	0	0	28	16	2	2	1	0	0	0	7	1	0
	1730	,,	1009·3	1008·6	..	29·4	22·9	19·5	22·7	56	..	3·7	..	14·9	0	4	25	0	23	0	6	0	0	0	0	0	0
Madurai . .	0830	133	1013·6	998·4	−0·4	25·3	21·8	19·8	23·2	72	−4	3·5	+0·2	4·7	0	0	27	17	5	0	0	0	0	0	4	2	1
	1730	,,	1008·7	993·9	..	31·3	22·0	16·4	18·8	41	..	3·0	..	7·5	0	0	29	1	13	7	1	2	0	0	0	0	5
Madurai (Aerodrome)	0530	131	1011·2	996·1	..	22·2	20·8	20·0	23.4	88	..	2·7	..	6·8	0	1	21	1	19	2	0	0	0	0	0	7	0
	0830	,,	1013.2	998.3	..	25·2	21·8	20·0	23·4	73	..	3.3	..	10·5	0	0	29	12	14	2	1	0	0	0	0	0	0
	1130	,,	1012·5	997·8	..	29·6	22·4	18·4	21·1	51	..	3·6	..	15·4	0	8	21	2	18	9	0	0	0	0	0	0	0
	1730	,,	1008·4	993.8	..	31·5	22·1	16·6	18·9	41	..	2·8	..	15·3	0	7	21	0	11	15	2	0	0	0	0	1	0
Tondi . .	0830	5	1013·1	1012·5	..	25·3	22·8	21·6	25·6	80	..	2·5	..	7·7	0	0	29	12	2	4	1	0	0	0	10	0	0
	1730	,,	1009·7	1009·1	..	28·1	24·4	22·8	27·6	73	..	2·8	..	23·4	0	22	7	0	13	16	0	0	0	0	0	0	0
Pamban . .	0830	11	1012·5	1011·2	−0.9	27·2	24·5	23·3	28·6	80	+1	5·0	+2·4	9·7	0	3	26	6	16	6	1	0	0	0	0	0	0
	1730	,,	1009·2	1007·9	..	27·7	25·4	24·4	30·4	83	..	4·1	..	9·2	0	0	29	1	26	2	0	0	0	0	0	0	0
Tuticorin . .	0830	4	1013·2	1012·8	−0·2	25·9	23·1	21·7	25.9	77	+2	3·4	+0·4	14·7	0	5	24	21	7	0	0	0	0	0	1	0	0
	1730	,,	1009·0	1008·6	..	28·1	24·9	23·5	28·8	76	..	3·0	..	29·1	0	28	1	0	3	26	0	0	0	0	0	0	0
Palayankottai .	0830	51	1013·3	1007·6	+0·2	25·7	22·7	21·1	25·2	75	0	4·7	+0·8	6·8	0	0	27	24	1	0	0	0	0	0	2	2	0
	1730	,,	1008·4	1002·8	..	31·0	23·4	19.4	22·5	50	..	3·5	..	11·1	0	0	29	1	9	16	3	0	0	0	0	0	0
Kanniyakumari	0830	37	1011·7	1007·6	..	27·0	22·5	20·1	23·5	66	..	3·0	..	26·5	0	26	3	12	17	0	0	0	0	0	0	0	0
	1730	,,	1008·1	1004·0	..	28·4	24·2	22·1	26·7	70	..	3·5	..	25·7	0	28	1	2	14	12	1	0	0	0	0	0	0
Coastal Mysore																											
Karwar . .	0830	4	1012·4	1011·9	−0·4	21·4	18·8	17·2	19·6	78	−2	2·1	+0.2	5·0	0	0	27	0	6	17	4	0	0	0	0	2	0
	1730	,,	1008·1	1007·6	..	28·7	23·3	20·5	24·1	62	..	2·1	..	13·6	0	6	22	0	0	0	0	0	0	1	26	1	1
Honavar . .	0830	26	1012·5	1009·5	−1·0	22·3	18·9	16·7	19·1	72	−2	3·5	+1·1	6·0	0	0	28	0	4	24	0	0	0	0	0	1	0
	1730	,,	1008·5	1005.6	..	29·2	23·6	20·7	24·6	61	..	3·6	..	8·5	0	1	28	1	0	0	0	2	1	13	12	0	0

Sub Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	wind speed km.p.h.: 62 or more	wind speed km.p.h.: 20 to 61	wind speed km.p.h.: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore (*contd.*) Mangalore (Bajpe)	0230	102	1010·1	998·5	..	23·5	21·5	20·5	24·0	83	..	0·7	..	2·2	0	0	14	0	0	14	0	0	0	0	0	15	0
	0530	,,	1010·1	998·4	..	22·4	20·8	19·7	23·2	86	..	0·9	..	5·2	0	0	25	0	1	24	0	0	0	0	0	4	0
	0830	,,	1012·1	1000·5	..	25·1	21·2	18·8	22·1	69	..	1·4	..	5·2	0	0	28	0	2	26	0	0	0	0	0	1	0
	1130	,,	1011·8	1000·4	..	31·3	21·9	15·9	18·5	41	..	1·7	..	7·2	0	0	27	0	2	9	7	1	1	6	1	2	0
	1730	,,	1007·9	996·6	..	29·4	23·0	19·5	22·8	56	..	1·9	..	13·3	0	0	29	0	0	0	0	0	0	22	7	0	0
	2330	,,	1011·3	999·7	..	24·9	22.1	20·7	24·3	77	..	0·8	..	2.9	0	0	14	9	0	1	2	0	0	0	2	15	0
Mangalore . .	0830	22	1012·1	1009·6	—1·1	25·5	21·7	19·4	22.8	70	—5	4·6	+2·2	3·4	0	0	29	1	6	18	4	0	0	0	0	0	0
	1730	,,	1008·3	1005·8	..	29·6	25·7	20·6	24·4	59	..	3·4	..	6·7	0	0	29	1	0	1	0	0	4	12	10	0	1
Interior Mysore (North) Bidar .	0830	664	1013.1	939·2	..	21.9	16·5	12·4	14·9	57	+4	0·8	—0·6	8·1	0	1	27	1	1	2	4	4	15	0	1	1	0
.	1730	,,	1007·1	935·7	..	30·5	17·8	7·8	11·1	25	..	0·8	..	10·3	0	0	27	0	1	6	4	0	12	1	3	2	0
Gulbarga . .	0830	458	1013·0	961·5	—0·9	23·4	16·3	10·8	13·4	45	—3	1·7	+1·0	5·7	0	0	20	2	3	9	5	1	0	0	0	9	0
	1730	,,	1006·8	957·3	..	33·0	18·4	6·9	10·5	21	..	1·2	..	10·9	0	3	26	0	0	7	11	5	1	5	0	0	0
Bijapur . .	0830	594	1013·0	946·5	—0·8	21·1	14·8	9·8	12·3	50	—2	0·7	—0·3	1·7	0	0	21	4	0	1	4	4	3	0	5	8	0
	1730	,,	1006.7	912·9	..	32·2	20·0	11·9	14·5	30	..	1·3	..	1·5	0	0	19	2	0	3	3	2	6	2	1	10	0
Raichur . .	0830	400	1013·1	968·2	—0·5	24·3	18·7	14·7	17·0	57	+3	3·7	+2·7	5·0	0	0	23	0	2	2	10	4	4	0	1	6	0
	1730	,,	1007·5	964·2	..	32·5	19·6	9.7	12·3	25	..	3·5	..	5·5	0	0	29	0	12	0	17	0	0	0	0	0	0
Belgaum . .	0830	753	1013·9	929·7	—0·4	18·6	13·8	9·7	12·3	57	—2	1·3	+0·2	1·4	0	0	9	1	0	7	0	1	0	0	0	20	0
	1730	,,	1006·4	925·9	..	29·9	17·3	7·1	10·5	26	..	1·3	..	3·5	0	0	27	0	1	5	1	0	4	14	0	2	2
Belgaum (Sanra) .	0530	747	1011·4	928·0	..	18·0	12.5	7·5	10·5	52	..	1·0	..	5·0	0	1	15	1	3	3	4	3	2	0	0	13	0
.	0830	,,	1012·9	930·1	..	21·3	13·9	7·4	10·5	42	..	2·4	..	6·1	0	2	16	1	5	2	7	2	0	0	0	11	1
.	1130	,,	1011·1	930·3	..	28·2	15·7	4·7	8·7	23	..	1·5	..	12·8	0	8	18	1	4	5	12	3	1	0	0	3	0
.	1730	,,	1006·2	926·4	..	30·5	17·0	5·7	9·1	22	..	2·5	..	13·0	0	8	20	1	3	5	2	4	4	9	0	1	0
Gadag . .	0530	650	1011·5	938·8	..	19·7	15·5	12·4	14·6	64	..	0·7	..	1·9	0	0	9	0	0	5	3	0	1	0	0	20	0
	0830	,,	1013 1	940·6	—0·5	21·8	16·2	12·2	14·3	56	—1	1·5	+0·6	3·0	0	0	16	0	0	9	3	2	0	2	0	13	0
	1130	,,	1011·1	940·8	..	30·0	19·6	12·8	15·2	37	..	1·6	..	6·2	0	0	24	0	0	13	5	5	0	1	0	5	0
	1730	,,	1006·1	936·7	..	32·2	19·7	11·6	13·7	30	..	2·7	..	3·6	0	0	19	0	0	12	1	3	1	2	0	10	0
	2330	,,	1011·2	939·5	..	24·1	17·6	13·0	15.4	52	..	1·0	..	5·0	0	0	25	0	0	9	7	0	0	9	0	4	0
Interior Mysore (South) Bellary . .	0830	449	1013·3	962·9	—0·2	23·5	18·4	14·9	17·0	60	+6	0·6	—0·8	5·2	0	0	20	0	0	0	20	0	0	0	0	9	0
	1730	,,	1007·1	958·4	..	32·3	22·7	17·0	19·7	40	..	3·9	..	7·7	0	0	29	0	0	1	28	0	0	0	0	0	0
Chitradurga .	0830	733	1012·6	931·8	—0 2	22·8	16·5	11·9	14·2	52	—2	1·9	+0·3	3·3	0	0	19	0	0	7	4	3	4	1	0	16	0
	1730	,,	1006·2	927·9	..	30·9	18·4	9·5	12·0	27	..	2·4	..	2·7	0	0	21	0	4	13	2	0	1	1	0	8	0
Shimoga . .	0830	571	1012·7	948·4	—0·9	19·9	16·5	14·5	16.7	72	—4	0·9	—1·7	0·4	0	0	6	0	0	1	0	1	3	1	0	23	0
	1730	,,	1005·6	944·5	..	31·7	18·2	8·3	11·0	24	..	0·9	..	2·4	0	0	19	2	2	2	8	1	1	3	0	10	0
Agumbe . .	0830	..	..	..	..	19·8	17·1	15·4	17.6	76	..	..	..	5·5	0	0	29	0	17	1	3	0	1	6	1	0	0
Balehonnur . .	0830	890	..	..	..	20·9	16·9	14·1	16·3	67	—13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan .	0830	960	1521·2	907·7	..	19·2	16·4	14·5	16·6	75	+7	1·2	—1·0	2·5	0	0	21	0	0	20	1	0	0	0	0	8	0
	1730	,,	1505·6	904·2	..	28·7	17·2	8·3	11·2	29	..	1·9	..	3·0	0	0	28	1	0	25	0	0	0	2	0	1	0
Bangalore . .	0230	921	1503·1	910·1	..	18·6	16·2	14·6	16·6	79	..	1·3	..	3·2	0	0	17	0	0	10	7	0	0	0	0	12	0
	0830	,,	1523·9	912·1	—0·3	19·5	16·3	13·9	16·2	72	+2	2·7	+0·9	5·6	0	0	29	0	0	13	7	0	0	0	0	9	0
	1130	,,	1538·5	912·1	..	26·4	17·3	10.9	13·1	39	..	2·3	..	8·7	0	0	24	0	2	14	7	0	1	0	0	5	0
	1730	,,	1508·6	908·8	..	27·6	17·1	9·0	11·9	32	..	2·5	..	5.6	0	0	22	0	1	15	6	0	0	0	0	7	0
Bangalore (Aerodrome)	0530	897	1499·6	913·0	..	16·9	15·8	15·0	17·1	89	..	1·8	..	3·5	0	0	18	0	1	12	5	0	0	0	0	11	0
	0830	,,	1523·0	914·7	..	19·2	17·0	15·5	17·7	80	..	2·7	..	7·3	0	0	24	0	1	16	5	1	1	0	0	5	0
	1130	,,	1536·0	914·5	..	25·9	18·7	13·9	16·3	49	..	2·3	..	11·7	0	0	29	0	1	18	7	1	1	0	1	0	0
	1730	,,	1507·7	911·1	..	27·8	19·4	13·9	16·4	44	..	2·5	..	11·3	0	0	28	0	1	20	6	1	0	0	0	1	0
	2330	,,	1519·0	914·0	..	20·3	17.4	15·5	17·8	75	..	1·0	..	9·1	0	0	27	0	0	22	5	0	0	0	0	2	0
Mysore .	0830	767	1013·4	928·0	—0·6	20·9	17·0	14·4	16·5	67	+1	0·9	—1·3	4·3	0	0	29	1	5	4	7	3	5	2	2	0	0
	1730	,,	1006·4	924·4	..	30·3	16·9	5·5	9·5	22	..	1·3	..	6·3	0	0	29	4	11	12	2	0	0	0	0	0	0
Kerala Calicut . .	0530	5	1010·2	1009·6	..	23·8	22·1	21·3	25·3	86	..	0·9	..	7.9	0	1	27	0	15	13	5	0	0	0	0	1	0
	0830	,,	1012.1	1011·5	—0·9	25.9	22·5	20·7	25·5	73	—6	1.4	—0·7	6·8	0	0	27	0	1	25	1	0	0	0	0	2	0
	1130	,,	1012·2	1011·6	..	30·5	24·3	21·2	25·3	58	..	1·4	..	12·6	0	1	27	0	0	0	0	0	12	13	3	1	0
	1730	,,	1008·3	1007·7	..	30.0	25.0	22.7	27·6	66	..	1·6	..	15·2	0	0	29	0	0	0	0	0	0	17	12	0	0
	2330	,,	1011·3	1010.7	..	26·5	23.6	22·2	26·6	77	..	0·8	..	5·3	0	1	19	9	7	1	0	0	0	0	4	9	0
Palghat . .	0830	97	1012·6	1001·9	..	26·7	22·0	19·4	22·7	65	..	1·8	..	11.5	0	2	26	0	0	27	1	0	0	0	0	1	0
	1730	,,	1007·4	996·7	..	34·1	22·4	15·2	17·3	33	..	1·4	..	10·1	0	0	29	0	1	26	0	0	0	2	0	0	0
Fort Cochin . .	0830	3	1012·0	1011·7	—0·9	26·8	23·1	21·1	25·2	72	—1	4·6	+2·8	4·0	0	0	24	3	11	8	1	0	0	0	1	5	0
	1730	,,	1007·6	1007·3	..	29.6	24·7	22·5	27·1	66	..	4·4	..	9.2	0	0	29	0	0	0	0	0	3	0	3	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*contd.*)																											
Cochin (Naval Air Station)	0230	3	1010.2	1009·9	..	24·8	23·1	22·3	26·9	86	..	2·4	..	0·7	0	0	3	0	0	1	1	0	0	0	1	26	0
	0530	,,	1009·9	1009·6	..	23·7	22·3	21·6	25·8	88	..	2·4	..	1·4	0	0	8	2	4	2	0	0	0	0	0	21	0
	0830	,,	1011·9	1011·6	..	26·2	22·7	20·7	24·7	72	..	2·9	..	3·4	0	0	11	1	6	4	0	0	0	0	0	18	0
	1130	,,	1011·9	1011·6	..	30·6	23·8	20·2	24.0	54	..	2·6	..	7·7	0	0	24	1	2	4	0	1	2	5	8	5	1
	1730	,,	1007·9	1007.6	..	30·2	24·5	21.8	25.9	61	..	2·7	..	16·3	0	1	28	0	0	0	0	0	11	16	2	0	0
	2330	,,	1011·5	1011.2	..	26.5	24·2	23·1	28.3	82	..	3·1	..	0·8	0	0	5	0	2	2	0	0	0	0	1	24	0
Alleppey	0830	4	1011.8	1011.4	—0.3	26·9	23.7	22·1	26.6	75	—3	3.0	—1.5	4.4	0	0	28	0	8	11	9	0	0	0	0	1	0
	1730	,,	1008.1	1007.7	..	30.6	25.4	23.1	28.1	65	..	2.7	..	20.0	0	21	8	0	0	0	0	0	0	10	19	0	0
Punalur	0830	34	1011·8	1007.9	..	25.2	21·6	19.6	22·8	72	..	3·4	..	1·7	0	0	10	1	1	3	3	1	0	0	1	19	0
	1730	,,	1008.2	1004.4	..	32·8	23·1	17·7	20·8	41	..	5.6	..	4·3	0	0	28	3	5	6	5	2	0	3	4	1	0
Trivandrum	0230	64	1009·6	1002·3	..	24.8	22.8	21.9	26.1	84	..	1·7	..	3·0	0	0	16	2	7	1	0	0	0	0	6	13	0
	0530	,,	1009·3	1002·0	..	23.8	21.9	20.8	24.7	84	..	1·7	..	2·7	0	0	21	4	15	0	0	0	0	0	2	8	0
	0830	,,	1011·5	1004·2	—1.2	25·5	22.6	21.0	25·0	77	—1	2·2	+0·1	3·5	0	0	23	5	16	0	1	0	0	1	0	6	0
	1130	,,	1011·1	1003.9	..	30·7	23.2	19.1	22·4	51	..	2·9	..	5·0	0	0	27	1	1	3	0	2	7	6	7	2	0
	1730	,,	1008·2	1001·0	..	29·3	24·0	21·4	25·6	63	..	2·9	..	7·2	0	0	29	0	0	0	0	6	11	7	5	0	0
	2330	,,	1011·3	1004·0	..	26·0	23·6	22.4	27.1	81	..	2·3	..	4·5	0	0	26	2	7	1	2	1	2	2	9	3	0
Trivandrum (Aerodrome)	0830	8	1011.8	1010·9	..	26.4	22.7	20.7	24.6	72	..	2·2	..	5·7	0	0	23	2	8	12	1	0	0	0	0	6	0
Arabian Sea Islands—Amini*	0530	4																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1452·0	800·0	+1.1	6·2	3·7	0·5	6.4	70	+8	3·6	+1·1	2·6	0	0	18	0	14	0	1	0	0	0	0	11	3
	1730	,,	1445.0	798.4	..	8.2	6·1	3·8	8·1	74	..	3·8	..	2·9	0	0	25	1	7	1	4	0	7	0	1	4	4
Dharmsala	0830	1211	1565.1	887.2	+2·2	10.6	6·4	1·1	6·1	52	—4	5·6	+2.6	1·0	0	0	14	1	13	0	0	0	0	0	0	15	0
	1730	,,	1566·5	886.9	..	14.0	9·2	4.0	8.2	51	..	6·4	..	2·0	0	0	28	0	0	0	0	0	28	0	0	1	0
Simla	0830	2202	1499·7	781.1	+0·6	6.0	2.4	—3·3	4.7	58	+12	4·6	+1·0	1.6	0	0	23	4	2	0	4	8	5	0	0	6	0
	1730	,,	1492·0	780.7	..	7.1	4.9	2·3	7·3	74	..	4·9	..	1.7	0	0	24	0	5	0	5	1	12	0	1	5	0
Lokpal	0830	..	..	..	..	14.2	11.3	9·1	11·5	71	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830																										
	1730							Closed during winter months																			
Joshimath	0830	..	..	..	..	6.2	2.2	—4·5	4·4	50	..	4·2	..	6·7	0	1	22	0	5	10	4	1	2	1	0	6	0
	1730	..	..	..	..	9.3	4·7	—2·8	5·6	46	..	6·2	..	3·7	0	0	29	1	1	1	4	5	13	4	0	0	0
Mussoorie	0830	2042	..	..	..	6·7	2·8	—3·1	4·9	50	—15	4·5	+0·7	3·2	0	0	27	9	5	0	3	5	2	0	3	2	0
	1730	,,	..	..	..	8·4	5·1	1·2	6·7	63	..	5·0	..	10·4	0	0	29	10	8	0	2	5	2	0	2	0	0
Mukteswar (Kumaun)	0830	2311	3107·2	772.2	+0·1	5.7	1·5	—5·0	4·0	50	—4	2·6	—0·5	8·5	0	0	27	1	5	4	0	0	3	9	5	2	0
	1730	,,	3100.3	771.1	..	7·4	3·5	—1·9	5·2	54	..	3·7	..	12·5	0	0	28	0	3	1	1	0	6	14	3	1	0
Nainital	0830	1953	1498.3	804·8	+0.4	7.4	3·4	—3·3	5·2	51	+4	2·7	+0·4	2·4	0	0	15	1	2	4	1	0	0	4	3	14	0
	1730	,,	1476·9	803.3	..	8.8	4.8	—0.1	6.1	55	..	3·2	..	7.4	0	0	28	1	1	3	3	4	2	12	2	1	0
Kalimpong	0830	1209	..	..	..	..	..	..	..	..	..	(h) 2·0	..	(h) 4.7	0	0	23	1	0	0	1	0	0	0	21	0	0
	1730	,,	..	..	..	..	..	..	..	..	..	(g) 2·1	..	(g) 4.2	0	0	24	0	0	0	24	0	0	0	0	0	0
Darjeeling	0830	2128	1486.0	787·3	—0·9	7.3	5·0	2·4	7·3	73	+2	4·2	+0·4	1.2	0	0	8	2	0	0	0	0	3	1	1	21	1
	1730	,,	1457·4	784·7	..	8·0	5.6	3·0	7.6	72	..	5·7	..	2.8	0	1	9	0	0	0	0	0	5	2	0	19	3
Kohima	0830	1406	1551·0	864·8	..	13·5	11·1	9·0	11.5	76	..	2·7	..	3.0	0	0	29	2	0	0	2	0	0	0	20	0	5
	1730	,,	1520·0	861·7	..	14.3	11·2	9·4	11·8	70	..	4·5	..	2·1	0	0	29	5	0	0	1	0	0	2	21	0	0
Shillong	0830	1500	1531·6	853·4	+2.2	15.1	9·3	2·9	7·5	43	—18	3·0	+0.9	1·0	0	0	8	0	0	0	0	0	4	0	4	21	0
	1730	,,	1509·5	851·2	..	13·6	10·1	6·7	9·8	65	..	4·9	..	0·8	0	0	5	0	0	0	0	1	4	0	0	24	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1532·9	884.7	+1·7	13·8	8·7	2·5	7·6	48	+5	1·3	—0·4	0·3	0	0	5	0	1	0	0	0	0	2	2	24	0
	1730	,,	1507·1	881·5	..	19.5	11.1	2.0	7·2	32	..	0·8	..	1·2	0	0	9	3	1	0	0	0	2	0	3	20	0
Aijal	0830	..	..	..	..	18·0	12·6	7·9	10·7	52	..	2·5	..	1·7	0	0	29	1	0	12	0	7	3	6	0	0	0
	1730	..	..	..	..	19.3	14·4	10·7	12.9	60	..	2·9	..	1.7	0	0	29	5	0	2	0	7	3	10	2	0	0
Pachmarhi	0830	1075	1527·7	896·5	+0.2	17.4	10·5	2.6	7.7	39	—13	1.4	—0·3	2.5	0	0	23	0	1	2	6	6	2	3	3	6	0
	1730	,,	1512·7	894·0	..	23.5	12.7	1.3	6.9	24	..	1.6	..	3.4	0	0	27	5	5	0	0	0	1	8	8	2	0

(g) Mean of 24 days. *Data given as addenda in December 1964 issue. (R) Register not received. (h) Mean of 23 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —*Contd.*																											
Mahabaleshwar	0830	1382	1522.0	864.3	−0.2	17.6	10·1	0·4	6.9	35	−12	0	−0.6	9·3	0	0	29	0	8	1	12	0	4	0	4	0	0
	1730	,,	1504.0	862.1	..	25·0	14·3	4·3	8·5	27	..	0	..	9·7	0	0	29	2	8	0	8	0	2	0	9	0	0
Mercara	0830	1152	1521.0	887.5	0	19·1	15·4	12·7	14·9	68	−6	1.0	−1.9	12·0	0	0	29	1	12	15	0	0	0	1	0	0	0
	1730	,,	1502.9	884.8	..	26·1	17·5	11·0	13·7	41	..	1·7	..	13·4	0	7	22	2	7	11	0	0	0	5	3	0	1
Ootacamund	0830	2249	1525·5	781·1	+0.3	13.0	7·8	2·1	7·1	50	−16	1·1	−0·7	0·5	0	0	7	1	0	4	2	0	0	0	0	22	0
	1730	,,	1491·9	779·0	..	17.5	12·1	7·8	10·7	54	..	2·1	..	4·0	0	0	16	0	1	12	3	0	0	0	0	13	0
Coonoor (R)	0830	..																									
Kodaikanal	0830	2343	3159·8	772·3	+0.2	13·5	7·5	−0·9	6·7	44	−8	2·7	+0·9	12.2	0	6	23	5	6	6	12	0	0	0	0	0	0
	1130	,,	3177·3	772·7	..	17·9	10·8	3·4	8·4	42	..	2·8	..	13·0	0	5	24	3	3	9	13	0	0	0	1	0	0
	1730	,,	3146·6	770·8	..	14·2	11·5	9·3	11·9	74	..	4·1	..	4·1	0	0	21	0	1	2	16	1	0	0	1	8	0
Nepal																											
Kathmandu	0830	1324	1514.8	870.1	..	7·2	5·9	4·4	8·4	79	..	2·6	..	0·2	0	0	2	0	0	0	0	0	0	0	2	27	0
	1130	,,	1514.9	869.4	..	16·7	10.8	5·0	8.7	47	..	2·6	..	0·8	0	0	8	0	1	0	0	0	0	6	1	21	0
	1730	,,	1486.3	866.5	..	15·9	10·6	5·2	9·0	50	..	3.1	..	1·4	0	0	9	0	0	0	0	0	0	2	7	20	0
Sikkim																											
Lachen	0830	..	..	..	..	3·0	1·3	−1·2	5·5	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	19·3	13·7	8·4	11·2	52	..	1·4	..	4.4	0	0	21	2	1	7	0	0	0	9	2	8	0
	1730	..	..	..	..	22·3	14.4	6·8	9·9	38	..	0·7	..	4·7	0	0	24	3	0	8	1	1	0	9	2	5	0
Hazaribagh	0830	615	1014·5	944.9	..	18·5	12·3	6·2	9·5	47	..	1·3	..	3·3	0	0	20	0	3	5	1	1	3	3	4	9	0
	1730	,,	1010.6	941.8	..	21·2	13·9	7·7	10·5	43	..	1.2	..	3·9	0	0	24	7	1	4	0	0	0	3	9	5	0
Konar	0830	..	..	..	..	21·2	15·5	10·7	12·9	53	..	1.7	..	6·4	0	0	29	0	0	3	2	0	0	20	4	0	0
	1730	..	..	..	..	25·4	17·5	11·0	13·1	42	..	0·8	..	6·2	0	1	28	0	0	5	0	0	0	21	3	0	0
Bokaro	0830	242	1015·1	987.0	..	17·8	13·5	9·4	11·8	60	..	1·8	..	3·6	0	0	26	1	0	1	3	2	0	6	13	3	0
	1730	,,	1010·4	983·2	..	26·3	15·7	4·7	8·5	28	..	2·4	..	4·6	0	0	29	4	2	1	4	0	2	2	14	0	0
Maithon	0830	..	..	..	..	19·9	15·3	11·5	13·6	60	..	2·0	..	2·8	0	0	25	2	0	0	2	3	6	6	6	4	0
	1730	..	..	..	..	28·0	18·7	11·7	13·7	39	..	1·4	..	2·2	0	0	25	2	0	0	2	1	5	7	8	4	0
Ramgarh	0830	..	..	..	..	16·7	12·8	9·3	11·9	63	..	1.4	..	1.9	0	0	18	0	1	0	0	1	12	3	1	11	0
	1730	..	..	..	..	25·5	16·2	8·2	10·9	35	..	2.1	..	1.7	0	0	16	2	4	1	0	0	6	0	3	13	0
Panchet Hills	0830	..	..	..	..	20·2	14·7	10·0	12.3	54	..	1.1	..	3.4	0	0	21	0	3	0	0	0	10	0	0	3	8
	1730	..	..	..	..	26.0	17·2	10·3	12·5	39	..	1.0	..	1·8	0	0	11	0	2	0	0	0	3	0	6	18	0
Durgapur	0830	..	..	..	..	21·3	16·9	13·5	15·7	63	..	1.6	..	4.8	0	0	29	11	6	2	1	3	0	3	3	0	0
	1730	..	.	..	..	26·9	18·8	13·2	15·1	45	..	1.7	..	4·8	0	0	29	10	2	2	0	2	2	1	10	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	18·1	14·0	10·7	13·0	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1014.6	996.4	..	22·4	18·6	16·1	18.3	68	..	2·5	..	2.7	0	0	25	2	1	7	5	4	0	0	5	4	1
	1130	,,	1014.0	996.0	..	27·1	19.9	15·3	17.4	50	..	2.2	..	3.0	0	0	28	4	2	4	2	3	4	1	8	1	0
	1730	,,	1010.0	992.2	..	28·8	20.4	15.1	17·1	45	..	2.1	..	1.6	0	0	15	2	1	0	4	2	3	0	3	14	0
Bhimkund	0830	..	..	..	..	20·1	17·0	14.9	16·9	73	..	3.3	..	1.6	0	0	10	2	0	0	0	0	0	0	8	19	0
	1730	..	..	..	..	25·5	18·7	14·0	16·0	52	..	3.3	..	1.6	0	0	10	1	0	0	1	0	5	0	3	19	0
Sonepur	0830	..	..	..	..	22.1	19·5	17.9	20.5	78	..	..	..	4.3	0	0	27	4	3	12	2	2	2	2	0	2	0
Khijrawan	0830	..	..	..	..	20·1	16·6	14·1	16.1	70	..	0	..	2·4	0	0	22	2	1	2	8	2	3	3	1	7	0
	1730	..	..	..	..	28.9	18·5	10·1	12·9	33	..	0	..	3.5	0	0	21	3	3	0	2	0	4	0	9	8	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	17.4	11.1	3·8	8.2	42	..	0.6	..	6.9	0	0	26	0	15	1	1	0	7	2	0	3	0
	1730	..	..	..	..	28.9	16.2	3·6	8.2	21	..	0.7	..	4.6	0	0	24	2	8	0	0	0	2	10	2	5	0
Punasa	0830	..	..	..	..	18.1	10·7	1·9	6.9	35	..	1.2	..	4·5	0	0	24	2	16	2	0	0	3	1	0	5	0
	1730	..	..	..	..	30.9	16·3	0·9	6.7	15	..	1.5	..	2·7	0	0	21	1	6	0	1	0	3	6	4	8	0
Thikri	0830	..	..	..	..	19.3	12.0	4·3	8.2	33	..	0.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	17·5	12·9	8·2	11·2	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·9	20·5	14·9	17.3	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	4·3	(c) 2.7	(c) 1·1	(c) 6.6	(c) 80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	5·3	(d) 4·7	(d) 4.2	(d) 8·2	(d) 93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	13·1	9·7	7.1	10.1	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	13·4	9.2	11·6	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. (c) Mean of 28 days. (d) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metre	Maen pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Maen pressure in millibars: At station level	Maen pressure in millibars: Departure from normal	M mperature in °C: Dry bulb	M mperature in °C: Wet bulb	M mperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amo t (Oktas): Mean amount	Cloud amo t (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories —(*Contd.*)																											
Gandak Catchment—*Contd.* Timure	0830	..	..	..	..	6·4	2·4	−3·5	4·6	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·3	6·9	0·9	6·5	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	13.3	9·9	6·6	9·7	65	..	1·7	..	3·1	0	0	22	12	3	0	1	0	0	0	6	7	0
	1130	..	..	..	..	18·8	12.2	6·1	9·4	34	..	2·0	..	5·9	0	0	29	0	0	2	14	12	1	0	0	0	0
	1730	..	..	..	..	18.5	12·0	5·8	9·3	45	..	3·9	..	3·4	0	0	25	1	1	2	10	7	1	0	3	4	0
Gorkha	0830	..	..	..	..	13.6	9·4	5·0	8·8	57	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
	1130	..	..	..	..	17·8	11·9	6.3	9·7	48	..	1·2	..	0·1	0	0	1	0	0	0	0	1	0	0	0	28	0
	1730	..	..	..	..	16·0	10·5	4·9	8·8	49	..	2·0	..	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Nuwakot	0830	..	..	..	..	15·2	11·7	8·7	11·2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.1	11.6	5.4	9·0	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	10·4	8·5	6·6	9·7	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·2	9·9	7·7	10·5	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	.	8·7	4·3	−1·3	5·4	51	..	2·1	..	4·1	0	0	24	0	0	5	12	3	2	1	1	5	0
	1130					11·6	6·2	−0.5	6.0	45		3·0	..	5·3	0	0	29	10	1	4	4	0	0	2	8	0	0
	1730	..	..	..	.	10·2	6·0	1·1	6·7	54	..	3·4	..	4·5	0	0	29	1	0	1	2	3	5	8	9	0	0
Sallyana	0830	..	..	..	..	12·8	8·5	3·7	8·0	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·0	9·8	5·6	9·1	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	17·7	12.7	7·9	10·7	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.7	15·3	9·9	12·2	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Kathmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment—																											
Chautara	0830	..	..	..	..	10·6	7·1	3·5	7·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
	1730	..	..	..	..	15·5	9·3	3·3	7·7	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	7·3	4·4	1·9	7·0	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·9	6.4	4·5	8·4	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	2·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	12.8	8.5	3·7	8·0	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·0	8·9	1·9	7·0	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	10·8	7·9	5·1	8·8	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·9	7·9	5·0	8·7	67	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	9·8	6·8	3·4	8·0	66	..	3·3	..	..	..	..	..	0	0	0	0	0	0	0	0	29	0
	1130	..	..	..	..	13·3	8·6	3·8	8·2	55	..	3·7	..	..	0	0	23	1	1	0	4	2	3	8	4	6	0
	1730	..	..	..	..	11·9	7·7	3·4	7·9	58	..	4·5	..	..	0	0	22	0	0	0	6	9	6	0	1	7	0
Okhaldhunga	0830	..	..	..	..	10·1	6·3	1·9	7·1	59	..	1·2	..	2·4	0	0	18	1	0	1	5	2	3	5	0	11	1
	1130	..	..	..	..	13·9	8·5	1·4	7 6	45	..	2·3	..	4·7	0	0	25	1	1	0	0	6	8	6	2	4	1
	1730	..	..	..	..	11 0	6·9	2·4	7·3	58	..	2·7	..	5·7	0	1	20	0	0	0	3	0	1	14	3	8	0
Chainpur	0830	..	..	..	..	14·0	11·1	8·5	11.1	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·7	12·4	9·7	12·0	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	13·8	10·2 (d)	6·8 (d)	9·9 (d)	62 (d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·6	11·1	6·7	9·8	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1016·5	999·2	..	15·5	12·0	8·5	11·2	64	..	1·0	..	3·1	0	0	22	2	5	1	2	3	5	2	1	7	1
	1130	„	1014·4	997·7	..	23·7	15·6	8·4	11·2	39	..	1·2	..	3·8	0	0	26	0	0	0	1	0	17	4	4	3	0
	1730	„	1011·5	994·7	..	20·7	14·9	9·8	12·3	51	..	2·1	..	2·9	0	0	25	0	4	3	14	1	2	0	0	4	1
Tista Catchment																											
Gangtok	0830	1812	1512·8	820·2	..	8·6	6·5	4·4	8·3	76	..	3·6	..	1·0	0	0	8	1	5	0	2	0	0	0	0	21	0
	1130	„	1503·6	819·9	..	13·2	8·9	4·8	8·7	59	..	4.2	..	4·8	0	0	28	2	2	0	2	5	13	4	0	1	0
	1730	„	1484·0	817·6	..	10·3	7·7	5·2	8·8	72	..	6·7	..	3·2	'	0	19	1	1	0	6	10	0	1	0	10	0
Gezing	0830	..	..	..	..	10·9	8·1	5·5	9·0	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·4	9·2	6·4	9·6	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(d) Mean of 27 days.

*Data included under Nepal.

MONTHLY MEANS OF UPPER WINDS

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n=represents the number of observations;

V=represents the mean wind speed in metres per second irrespective of direction;

v=represents the resultant mean velocity in metres per second;

D=represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1st September 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon †	09°56′	76°14′	13	16th March 1942	0530		1730	2330
20	Dehra Dun	30°19′	78°03′	692	1st October 1958	0530		1730	
21	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
22	Gadag	15°25′	75°38′	650	3rd May 1943	0530		1730	2330
23	Gangtok	27°20′	88°37′	1778	1st June 1963	0830		1730	
24	Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January 1943	0830		1730	
28	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April 1941	0530	1130	1730*	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October 1957	0530		1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1587	1st August 1962	0530*		1730*	
48	Tiruchchirappalli	10°46′	78°43′	96	22nd June 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June 1947	0530		1730	2330
51	Venguria	15°52′	73°38′	8	22nd November 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October 1941	0530		1730	2330
53	Vijayawada/Gannavaram	16°32′	80°48′	82	8th April 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730*	2330

*Radio wind ascents.
@Radiosonde ascents followed by optical theodolite.
†Naval Meteorological Office

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.4	0.8	155	29	2·2	0.7	255	29	1.9	0·7	200	29	2.5	1.9	018	29	4.5	2.9	073	29	2.5	1.2	338
0·15 a. g.	26	4.5	0.4	175	29	3.9	1.7	268	29	5.9	2.6	225	29	7.1	4.9	028	29	5.1	3.8	059	29	3.7	1 8	338
0·3 a. m. s. l.	26	4·8	1·5	298	29	4.2	1.9	262	29	6·1	3·3	232	29	8·4	5.4	023	29	5.3	4.0	062	29	3.8	1.8	329
0·6 ,,	26	4.4	2.2	301	29	4·3	2.5	252	28	5·6	3.4	245	29	7·3	4.4	021	29	5.6	3.0	064	29	3.5	1.4	328
0·9 ,,	26	4.7	3·5	270	29	4·7	3.6	249	28	5.6	3.8	257	29	5·8	2.2	360	29	5.1	1.7	062	29	3.5	1.6	313
1·5 ,,	25	6.9	6·2	273	29	6·4	5.1	255	28	6.0	5.5	266	29	5·7	2 6	240	29	5.7	1 9	267	29	4.1	1.6	295
2·1 ,,	24	9.4	9.0	275	28	8.8	8.1	276	28	9.2	8.7	274	29	6·7	3.8	234	29	6.1	3.8	257	29	5.6	3.5	282
3·0 ,,	20	13·5	13.3	281	26	13.5	12·3	282	21	13.7	12 8	279	29	9.3	6.7	254	29	8.3	6.4	257	29	8 5	6.4	260
3·6 ,,	13	15.1	14.8	274	19	15.5	14.6	274	1	7.5	7.5	270	29	11.2	9.6	267	29	8.7	7.3	270	29	10·4	8·6	263
4·5 ,,	4	16·6	16·4	280	13	18.5	17.7	277					29	14.8	13·3	274	26	13.0	11.7	271	29	13.1	12.0	271
5·4 ,,	1	18·0	18·0	285	2	18·5	18.4	281					29	18.6	17.2	270	26	16.1	15.0	274	29	17·8	16.6	270
6·0 ,,													29	23.1	21.2	279	26	19.5	18.3	277	29	20.8	19.6	273
7·2 ,,													27	31.1	29.8	284	25	26·6	25.6	279	29	30.0	28.3	276
9·0 ,,													22	39.3	37.1	273	14	31·7	30.8	277	22	35.0	32.9	278

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.9	1.4	343	29	0.5	0.2	298	29	1.2	0.2	293	29	1·2	1.1	310	29	0.3	0.2	313	29	1.1	0.7	326
0.15 a. g.	29	6.9	4.9	351	29	4.1	1.7	347	29	3.3	0.4	094	29	4·1	3.1	313	29	5.8	3.9	332	29	5.5	3.9	340
0.3 a. m. s. l.	29	6.6	4.5	351	29	4.1	1.8	353	29	3.3	0.4	350	29	4·1	3·1	313	29	5.8	3·8	334	29	2.9	2.1	345
0.6 ,,	29	5.3	3.6	354	29	4.3	2·5	333	29	4.2	1.1	294	29	3.9	2.7	302	29	5·2	3.4	318	29	5.3	4 8	332
0.9 ,,	29	4.6	2·4	001	29	4.6	3.2	313	29	4.8	1.5	299	29	4.5	3.5	288	29	5·6	4.3	292	29	4.2	3·8	331
1.5 ,,	29	4.5	0.5	252	29	6.4	5.1	292	28	6.9	5.5	284	29	6·6	5·8	289	29	7.5	6.3	280	29	4.1	2·3	308
2.1 ,,	29	5.5	2.5	238	29	8·5	7.4	281	28	9.8	8.7	278	29	8.8	8.1	286	27	8.7	7.7	273	28	5·4	2·2	272
3.0 ,,	29	6.6	4.5	260	29	12.1	11.2	280	28	12.8	11·7	279	29	12.2	11·1	277	21	12.1	11.5	276	26	7·7	5.1	277
3.6 ,,	13	7.5	6.8	258	29	14·8	14.0	272	28	15.3	14.2	277	29	13·7	12·9	281	1	11.5	11·5	295	23	8.9	6.3	285
4.5 ,,	2	9.5	9.3	279	29	17.0	16.2	280	25	19 6	18.1	275	29	16·4	15·6	281					16	12.9	10.7	289
5.4 ,,					27	21.2	20.3	275	24	22.4	21·0	277	29	19·9	19·3	278					7	13.9	12.7	279
6.0 ,,					25	23.5	22.5	277	22	24.9	23.4	277	28	22·4	21·7	278					4	17.3	17.0	256
7.2 ,,					22	28.7	27.3	273	14	30.2	29.8	272	28	28.5	27.7	274								
9.0 ,,					12	38.8	36.2	269	1	48.5	48.5	285	20	40·4	38·4	272								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.6	0.7	335	29	2.8	2.2	313	29	2.2	1.6	327	29	0.8	0.7	122	29	2.7	2.5	087	29	5.1	4.9	097
0.15 a. g.	29	3.9	2.0	341	29	5.0	3.9	309	29	8.7	7.3	333	28	5.1	4.0	135	29	4.6	4.3	079	28	9.2	9.1	105
0.3 a. m. s. l.	29	2.2	0.9	339	29	3.4	2·5	307	29	4·1	3·4	327												
0.6 ,,	29	4.5	2.3	334	29	5.3	4.2	310	29	8.0	6.7	336	28	5.6	4.3	145	29	4.1	3.9	081	28	9.5	9.4	107
0.9 ,,	29	4.0	1.6	327	29	5.1	4.0	312	29	6.1	4.6	337	28	6.7	5.0	132	29	4.1	3.8	091	28	9.3	9.1	112
1.5 ,,	29	4.2	1.3	305	29	4.7	2.1	305	29	4.6	1.5	307	28	5.9	3.1	120	29	4.7	4.1	099	28	4.7	3.9	112
2.1 ,,	28	5.5	2.0	281	27	5.6	1.6	300	29	5.0	1.7	247	28	5.5	2.3	090	29	4.8	4.0	103	28	3.6	1.6	105
3.0 ,,	28	6.9	2.9	257	27	7.1	3.7	277	28	6·8	4.6	279	28	3.9	1.2	032	29	3.9	0.9	123	27	4.2	1.3	332
3.6 ,,	26	8.0	4.3	263	25	8.8	5.8	275	12	7.5	6.5	260	28	4.5	0.5	281	28	4.4	1.1	256	20	5.0	1.9	352
4.5 ,,	19	11·2	7.6	275	22	11.2	9.4	273	2	13.3	12.5	283	28	6.2	3.0	273	27	5.7	2·4	278	9	6.8	2.6	360
5.4 ,,	17	14.9	13.1	283	16	14·8	13.9	273	1	15.0	15.0	270	28	7·6	3·9	279	24	5.6	1.9	311	4	10.0	5.8	319
6.0 ,,	14	18.8	16.4	278	12	18.5	18.1	272					27	8.6	4.7	283	21	7.4	4.0	314	1	5.0	5.0	035
7.2 ,,	5	24.7	24.1	268	3	27.5	27.3	265					27	11·9	7.9	291	16	10.3	7.0	312				
9.0 ,,													14	16.9	13.6	287	10	17.1	13.8	307				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.5	0.4	298	29	1.1	0.8	311	29	0.9	0.5	303	29	0.7	0.4	289	29	2.9	1.2	247	29	1.4	1.2	290
0.15 a. g.	29	4.9	3.0	358	29	3.6	2.4	308	29	6.3	2.8	008	29	4.7	2.2	041	29	3.9	1·7	242	29	5.6	2.9	015
0.3 a. m. s. l.	29	5.3	3.1	357	29	3.7	2.5	312	29	6.4	2.6	006												
0.6 ,,	29	5.6	2.3	346	29	3.5	2.5	305	29	5.2	2.1	337												
0.9 ,,	29	5.3	2.0	294	29	3.8	2.9	292	29	4.7	2.3	293	29	5.8	2.1	056	29	4.0	2.0	252	29	6.1	2.9	017
1.5 ,,	29	6.8	5.7	272	29	5.6	5.0	281	29	7.1	5.8	269	29	5.6	1.9	170	29	3.9	2.3	243	29	4.3	0.4	233
2.1 ,,	25	10.7	10.1	280	28	9.9	9.3	284	27	10.6	9.8	276	29	5.8	4.1	214	29	4.5	2.9	247	29	4.8	2.7	213
3.0 ,,	22	14.0	13.1	282	28	14.5	13.9	284	17	14.3	13.8	286	29	7.3	4.8	241	28	6.8	5.1	253	29	6.7	5.2	222
3.6 ,,	14	15.2	14.4	284	25	15.7	15.4	280	4	15.9	15.8	278	8	8.6	6.2	274	28	8.1	6.6	256	18	7.8	6.0	251
4.5 ,,	7	15.5	15.0	284	22	18.3	18.2	280									27	11.4	9.9	273				
5.4 ,,	3	26.5	20.3	267	17	21.8	21.4	278									25	12.4	11.5	280				
6.0 ,,	1	22.0	20.9	286	16	23.8	23.5	273									23	15.7	14.9	279				
7.2 ,,	1	34.5	34.5	270	11	26.9	26.6	273									7	18.1	17.3	285				
9.0 ,,	1	42.0	42·0	265	3	26.2	25.9	288																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.6	0.2	317	29	0.6	0.5	224	29	0.9	0.6	268	29	1.9	1.8	102	29	2.4	2.2	096	29	2.6	2.5	093
0.15 a. g.	29	5.7	3.3	330	29	3.2	0·8	291	29	4.0	2.6	274	27	6.3	5.3	114	29	4.1	3.5	115	29	5.2	4.8	094
0.3 a. m. s. l.	29	6.3	3.3	328	29	3.2	1.0	300	29	4·2	2·8	278												
0.6 „	29	5.3	2.8	310	29	4.5	1.6	276	29	5.0	3.1	277												
0.9 „	29	4.7	3.1	309	29	5.1	2.0	283	29	5.3	3.1	280												
1.5 „	29	6.0	4.8	305	29	5.8	3.8	293	29	5.8	4.2	294	27	6.6	5.0	104	29	4.8	4.2	099	29	5.3	5.0	095
2.1 „	29	8.2	5.6	297	29	7.0	5.2	289	29	7.5	5.4	298	27	5.7	4.4	080	29	5.5	4.9	088	29	5.3	4.9	088
3.0 „	28	10.9	9.9	289	29	9.0	7.8	289	28	10.6	9.4	294	26	4.6	3.2	072	29	4.3	2.8	087	29	3.7	1.9	063
3.6 „	17	13·4	12·6	283	29	11.2	10.3	288	25	13.0	11.9	288	26	4.0	2.4	068	29	4.3	1.3	098	29	4.2	1.0	355
4.5 „	6	18·9	17·4	273	27	16·0	14·4	287	20	15·9	15·1	285	24	4.5	1.5	097	27	5.1	0.9	148	29	4.8	0.8	313
5.4 „	2	25.5	25·5	254	23	22.2	20.4	285	18	20·0	19·3	278	24	6.5	1.0	359	27	6.2	0.4	050	29	5.9	0.4	238
6.0 „					19	24.0	22.9	277	18	23·9	23·3	280	24	6.9	1.2	342	26	7.5	1.7	360	29	7.0	1.9	330
7.2 „					16	30.3	27.2	275	11	28·7	27·0	275	21	9.3	3.7	318	18	8.0	4.1	340	26	9.5	3.4	310
9.0 „					5	39·1	38.8	268	1	41.5	41.5	265	21	11.5	9.5	305	16	11.8	9.0	310	26	12.4	8.3	304

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	3.2	3.0	101	28	0.9	0.6	324	29	1.2	0.5	307	29	1.4	1.0	115	29	2.7	2.2	128	29	2.7	2.5	113
0.15 a. g.	29	9.7	9.4	114	28	5.6	3.2	330	29	3.9	2.2	286	29	5.2	4.2	140	29	4.1	3.2	140	29	7.3	7.1	123
0.3 a. m. s. l.					28	4.9	2.8	331	29	3.8	2.2	286												
0.6 „					28	6.0	4.2	313	29	5.1	3.5	290	29	3.6	2.8	124	29	4.0	3.1	141	29	5.1	4.9	118
0.9 „					28	6.3	4.5	307	29	5.5	3.8	293	29	7.5	5.8	160	29	4.2	3.2	140	29	8.5	8.2	131
1.5 „	29	8.2	7.5	114	28	6.6	5.0	305	29	5.9	4.5	292	28	6.9	4.5	167	29	4.0	2.8	148	29	6.4	4.6	151
2.1 „	29	3.8	2.5	080	28	6.6	4.8	297	29	7.0	5.6	293	28	5.0	0.8	218	29	3.9	2.0	180	29	5.2	2.2	223
3.0 „	29	4.2	1.9	054	28	8.3	7.2	288	29	10.1	7.7	286	27	5.2	2.0	267	29	5.1	2.4	240	28	6.2	3.4	291
3.6 „	27	4.1	2.2	063	23	9.9	9.0	278	29	12.7	9.7	280	24	5.8	2.1	278	27	5.9	2.9	276	19	6.7	4.6	301
4.5 „	23	4.3	0.9	068	14	14·4	13.9	271	26	15.1	13.9	277	20	6.5	3.9	290	21	6.9	5.4	293	7	7.3	6.9	285
5.4 „	17	6.1	0.8	351	5	19.0	18.2	272	20	15.9	15.1	275	18	7.7	4.8	280	18	9.4	8.1	290	5	9.9	9.5	288
6.0 „	6	6.7	1.4	024	1	19.5	19.5	270	12	17.6	17.3	279	14	10.9	6.2	277	15	10.2	9.1	292	5	11.1	10.1	296
7.2 „	2	11.5	3.7	271					4	21.0	20.7	278	6	9.7	7.5	326	9	10.9	8.5	283	1	17.0	17.0	315
9.0 „													1	15.0	15.0	290	6	17.7	16.5	286				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.9	0.3	196	29	1.1	1.1	283	29	3.1	1.8	064	29	2.1	1.3	293	29	3.5	2.4	036	29	2.3	0.6	200
0.15 a. g.	28	4.9	1.1	258	28	3.8	3.4	287	29	8.8	5.5	082	29	2.9	2.0	297	29	9.2	6.3	041	27	5.3	2.3	206
0.3 a. m. s. l.	28	5.2	1.5	306	28	4.1	1.9	285													27	6.9	4.5	218
0.6 ,,	28	4.6	2.0	320	28	4.5	4.3	282	29	7.3	4.6	079	29	3.1	1.7	285	29	8.1	5.7	041	27	5.9	4.6	221
0.9 ,,	28	4.4	2.6	299	28	5.2	5.0	280	29	8.2	4.3	094	29	3.8	2.3	296	29	8.2	5.0	036	27	5.3	3.2	226
1.5 ,,	28	6.8	5.9	279	28	7.8	7.6	279	29	5.0	1.1	312	29	4.0	2.9	302	29	4.9	1.2	270	26	5.4	2.9	285
2.1 ,,	28	10.8	10.1	276	28	11.4	11.1	280	29	6.1	4.9	265	29	5.1	4.2	270	29	5.7	4.5	244	24	5.9	4.3	290
3.0 ,,	22	14.1	13.4	284	28	15.5	14.8	279	29	10.4	9.3	260	29	8.4	7.2	262	29	10.2	8.8	249	22	8.1	6.8	289
3.6 ,,	14	14.3	13.9	287	26	17.2	16.8	281	28	12.1	10.7	265	29	11.1	10.1	263	6	10.4	10.0	247	18	9.5	7.9	280
4.5 ,,	8	16.0	15.9	286	21	19.4	18.9	281	21	14.9	13.7	264	27	15.0	14.1	263					12	10.6	9.4	275
5.4 ,,					12	23.0	22.7	277	14	16.9	16.0	276	22	17.7	16.7	268					4	12.3	11.7	282
6.0 ,,					8	27.0	26.7	275	10	21.9	21.5	276	20	20.8	19.9	268					1	24.0	24.0	275
7.2 ,,					1	36.5	36.5	285	4	36.0	35.7	275	14	26.8	25.7	270								
9.0 ,,									2	43.7	43.7	272	2	35.3	35.2	303								

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	3.7	2.3	161	29	2.8	1.7	191	29	0.4	0.2	005	29	1.9	1.4	360	29	1.9	1.3	314	29	0.4	0.4	068
0.15 a. g.	29	5.9	3.9	178	29	7.5	5.8	190	29	6.2	4.6	355	28	3.3	1.8	350	29	6.1	4.1	327	28	6.4	5.1	105
0.3 a. m. s. l.	29	5.7	3.7	180	29	7.9	6.6	196	29	7.0	5.2	005	28	3.3	1.9	355	29	6.2	4.3	340	28	5.2	4.1	089
0.6 ,,	29	4.8	2.9	190	29	7.1	6.1	203	29	7.2	5.2	017	28	3.3	1.8	355	29	6.1	4.6	360	28	6.6	4.4	078
0.9 ,,	29	3.9	2.0	216	29	5.4	3.6	218	29	5.5	3.0	015	29	3.5	1.8	346	29	5.8	3.9	013	28	5.4	2.4	060
1.5 ,,	27	4.2	3.1	290	28	4.3	3.1	290	29	5.3	1.9	270	29	4.5	2.3	306	29	5.4	1.4	024	28	5.5	2.1	307
2.1 ,,	24	6.7	5.9	296	25	5.9	3.0	303	29	5.5	3.4	292	29	6.4	3.9	270	29	5.7	2.3	269	28	6.3	3.7	280
3.0 ,,	23	9.7	9.0	295	23	8.3	7.0	296	29	7.8	5.3	266	29	8.7	7.0	264	29	7.7	4.9	260	28	10.5	8.6	279
3.6 ,,	19	10.1	9.8	272	1	11.5	11.5	275	5	9.5	8.6	267	29	9.5	8.5	272	7	10.1	8.1	265	27	13.1	11.7	270
4.5 ,,	13	11.3	10.7	280					1	23.0	23.0	275	29	13.1	12.0	270	4	15.3	14.6	270	25	16.0	14.8	271
5.4 ,,	9	14.3	13.3	273									29	17.2	16.1	270	1	15.0	15.0	275	21	19.9	19.3	275
6.0 ,,	6	14.7	13.4	275									28	20.1	19.0	275					12	21.4	20.7	271
7.2 ,,	1	13.5	13.5	260									7	25.1	23.9	265					5	23.6	23.4	275
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.8	0.3	347	29	1.4	1.2	027	29	0.8	0.5	360	29	5.2	0.2	041	29	4.1	4.0	313	29	1.1	1.0	003
0.15 a.g.	29	3.6	1·9	004	29	7.4	6.5	037	29	5.6	4.9	010	29	3.1	1.4	039	29	7·2	6.8	314	29	4.9	4.4	348
0.3 a.m.s.l.	29	3.4	2.1	013	29	6.4	5.2	037	29	4.8	4.2	008	29	3.5	2.0	060	29	5.7	5.1	311	29	5.2	4.7	344
0.6 ,,	29	3.6	2.0	008	29	7.2	5.7	041	29	4.6	3.1	006	29	4.3	1.6	076	29	4.2	3.2	307	29	5.0	4.4	349
0.9 ,,	29	3.4	1.7	008	29	5.1	2.7	035	29	4.9	2.4	008	29	4.6	0.9	112	29	4.0	2.1	308	29	4.2	3.0	348
1.5 ,,	29	3.8	1.3	295	29	4.0	2.0	243	29	5.4	1.8	217	29	5·5	3·1	213	29	5.2	1·9	235	29	4.8	1.4	242
2.1 ,,	29	6.0	4.4	270	29	6.3	4.9	248	29	6.5	4.9	195	29	6.4	4.7	206	29	6.7	3.5	203	29	6.7	3.2	202
3.0 ,,	29	10.9	9.2	268	27	9.5	8.3	271	29	6.9	4.2	212	29	7.1	5.2	229	29	7.7	4.2	205	29	7.9	3.5	208
3.6 ,,	28	12.9	11.7	272	10	12.7	12.2	272	29	8.0	5.1	243	29	8.6	5.8	254	29	7.5	4.8	234	19	7.5	3.3	232
4.5 ,,	26	17.0	15.8	278	1	15.0	15.0	285	29	9.7	8.1	261	29	10.2	8.2	273	29	9.9	7.9	257	12	9.5	8.3	262
5.4 ,,	22	20.2	19.0	282					29	10.1	9.9	267	29	12.8	11.8	275	29	12.0	9.9	266	5	11.8	9.8	276
6.0 ,,	14	22.4	21.9	283					28	13.8	12.8	275	29	14.7	13.6	276	29	14.0	12.5	270	3	13.5	10.3	287
																					1	17.0	17.0	340
7.2 ,,	4	26.4	25.8	279					28	16.7	14.6	278	28	19.2	17.4	278	29	18.9	17.2	274				
9 0 ,,									25	22.4	21.5	270	17	24.9	22.8	274	29	22.4	20.1	270				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.9	0.3	180	29	1.0	0.2	342	29	1.0	0.2	221	29	1.2	0.7	185	29	0.6	0.5	058	29	5.2	5.0	265
0.15 a. g.	29	3.8	0.4	298	29	2.8	0.7	305	29	3.8	2 2	217	29	5.7	2.4	184	29	3.4	2.8	056	29	5.6	5.4	263
0.3 a. m. s. l.	29	4.3	0.8	265	29	2.7	0.6	296	29	3·7	1.8	262	29	5.8	2.0	205	29	3.0	2.3	030	29	5.7	5.4	270
0.6 ,,	29	4.8	1.6	255	29	3.2	1.7	274	29	3.7	2.1	264	29	5.1	2.5	227	29	2.7	1.2	024	29	3.7	2.9	309
0.9 ,,	29	4.8	3.1	257	28	4.3	3.6	265	29	4.1	2.4	270	29	4.9	3.0	256	29	2.7	1.5	079	29	3.6	2.7	018
1.5 ,,	29	6.6	5.3	277	27	7.1	6.2	271	29	6.2	5.1	280	29	6.6	5.7	287	29	4.9	4·1	073	29	6.5	6.1	069
2.1 ,,	29	9.1	8.2	285	23	9.3	8.4	281	29	9.1	8.4	286	28	9.9	9.4	290	29	6.3	5.2	081	28	8.3	7.9	082
3.0 ,,	29	11.3	10.7	283	20	11.7	11.0	283	29	11.9	11.4	281	14	11.7	11.1	281	24	6.8	5.4	089	26	6.3	5.5	084
3.6 ,,	29	13.2	12.5	281	18	13.3	12.9	283	29	14.3	13.4	282	1	15.0	15.0	275	13	6.5	4.7	081	17	3.9	2.8	074
4.5 ,,	29	15.7	14.9	276	12	15.9	15.4	287	29	17.8	17.1	274									13	6.5	4.9	033
5.4 ,,	29	19.0	18.3	276	6	17.7	17.0	297	29	21.3	20.8	275									2	9.3	8.9	072
6.0 ,,	29	21.6	20.7	274	3	18.3	18.3	287	29	24.8	24.1	270									1	16.0	16.0	065
7.2 ,,	28	26·9	25.8	272	1	24.0	24.0	310	28	31.3	30.0	272												
9.0 ,,	21	36.0	33.8	270					23	37.2	35.7	276												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	COCHIN/ WILLINGDON				DEHRA DUN								DIBRUGARH/MOHANBARI											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.1	0.1	315	29	0.4	0.3	034	29	1.0	0.6	242	29	1.3	1.1	058	29	0.8	0.6	063	29	0.9	0.8	049
0.15 a. g.	29	2.3	1.4	322	28	1.6	0.9	089	29	3.3	2.0	257	27	4.8	3.9	059	29	2.5	2.1	058	29	3.7	2.1	055
0.3 a. m. s. l.	29	2.3	1.4	312									27	4.9	4.1	057	29	2.6	2.2	058	29	3·5	3·1	058
0.6 „	29	2.4	0.8	337									27	4.6	2.4	052	29	2.9	2.5	055	29	3·0	2·8	070
0.9 „	29	3.5	1·9	090	28	1.7	0.9	102	29	3.3	1.1	237	27	3.8	2.2	061	29	2.6	1.8	060	28	2·7	2·0	083
1.5 „	29	5·9	5.2	102	28	2.4	0.2	040	29	3.2	1.8	240	27	3.2	0.7	183	28	2.4	1.1	200	28	2·8	0·8	180
2.1 „	26	5·9	5.5	081	27	3.7	0.9	263	27	2.9	0.5	257	27	4·0	1.5	230	26	3.5	2.5	218	27	5·8	4·9	228
3.0 „	18	6.7	5.8	082	23	5.0	0.9	274	26	5.1	1.0	276	21	4.6	3.0	244	24	5.4	4.4	226	26	8.5	8.1	228
3.6 „	2	4.5	4.4	112	19	6.4	4.7	290	22	6.7	2.8	285	12	8.1	4.7	250	17	5.6	4.2	237	17	7.8	7.0	233
4.5 „					15	10.9	9.7	284	20	10.2	6.9	287	8	13.3	9.9	268	12	10·7	9·2	260	15	10.3	10.0	244
5.4 „					6	13.1	12.5	283	15	13·1	8.8	275	5	19.8	18.5	273	12	16·8	14·4	267	9	19·6	18.9	254
6.0 „					4	10.8	10·7	295	13	16.7	8.8	279	1	19.0	19.0	260	10	16.3	14.7	270	5	16.6	15.1	263
7.2 „					1	17.5	17.5	285	6	23·8	12·5	288					10	22.4	19.6	272	3	31.7	31.3	287
9.0 „									1	27.0	27.0	280					3	29.1	29.0	271				

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I. S. T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.0	1.0	047	29	3.0	1.9	122	29	2.3	1.3	110	29	4.3	1·5	135	29	0.3	0.1	099	29	1.4	1.2	174
0.15 a. g.	23	4.0	3.7	050	29	5.7	4·0	115	29	3.5	2.1	108	29	8.0	2.0	117	27	1.4	0.7	176	22	4.0	3.8	180
0.3 a. m. s. l.	23	3.7	3·4	052																				
0.6 „	23	3.4	2.9	063																				
0.9 „	23	3.4	2.4	075	29	6.6	4.2	119	29	3.7	2.2	110	29	7.9	2.4	103								
1.5 „	23	3.2	1.1	156	29	7.0	3.6	098	29	3.2	2·0	106	29	6.1	4.0	106								
2.1 „	21	4.9	3.3	228	29	4.2	1.9	090	29	2.9	1.6	101	28	4.8	3·6	098	27	1.3	0.8	163	22	3.7	3.5	180
3.0 „	14	5.4	4.8	222	29	3.2	1.5	116	28	2.9	0.9	115	29	3.5	2.1	104	25	3·3	2.3	165	15	3.9	3.1	188
3.6 „	8	8.1	7.7	235	29	4.0	1.4	172	27	3.8	0.8	285	29	3.3	1.1	111	21	4.3	3.7	250	9	7.3	5.6	200
4.5 „	1	3.0	3.0	230	26	6.0	1.6	264	26	5.7	2.9	289	23	5.7	1.6	315	15	9.9	8.6	274	3	5.8	4.4	289
5.4 „					26	6.0	3·5	279	26	7.8	4.1	290	20	7.7	3.7	279	10	14.4	13.8	275	2	19.0	18.9	266
6.0 „					26	8.1	4.6	277	26	8.8	5.4	287	12	7.9	3.3	269	5	16.5	14.6	281	2	18.7	18.7	274
7.2 „					24	9.8	6.2	302	25	11.2	7.8	290	4	6.3	2.7	286								
9.0 „					15	11.2	8.7	302	22	14.1	10.7	285												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 22—Phalguna 20, 1885 Saka)

Station	GAUHATI																GAYA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.2	0.1	074	29	1.5	0·8	025	29	0.6	0.2	352	29	0·9	0·1	211	29	1.4	0.9	197	29	2.2	1.5	324
0.15 a. g.	29	2.4	1.2	087	29	2.9	1.6	034	29	3.2	1.3	352	29	3·4	1.4	191	28	4.1	1.3	246	28	4.1	3.2	320
0.3 a. m. s. l.	29	2.7	1·1	086	29	3.0	1.5	044	29	3.3	1·3	351	29	3.8	0·6	204	28	4.0	0.9	280	28	4.1	3.3	320
0.6 ,,	29	3.8	0.5	116	29	3.4	0.9	051	29	3.8	1.1	336	29	4.9	0·9	255	28	4.2	2.3	327	28	4.1	3·2	307
0.9 ,,	29	4.2	0.4	217	29	3·9	0·7	213	29	3.9	1.3	273	29	4·7	1.8	266	28	4.5	3.1	307	28	4.3	3.7	290
1.5 ,,	29	5.4	3.1	273	29	5.2	3.2	245	29	5.1	4.0	253	29	5.1	3·8	258	26	7.6	6.8	284	28	7.5	7.0	277
2.1 ,,	29	6.8	5.7	265	29	7.2	6.6	261	29	7.6	7.1	248	27	6.2	5.7	253	25	10.5	9.6	280	28	11·0	10.3	279
3.0 ,,	29	11.0	10·5	268	29	10.3	9.6	263	28	12.0	11.5	261	22	8.8	8.2	260	23	14.0	13.0	280	22	14·6	14·0	276
3.6 ,,	27	16.1	16.0	277	25	15.3	14.9	269	27	15.4	15.1	268	6	10.0	7.6	253	9	15·7	15·1	279	17	15.7	15.3	276
4.5 ,,	24	22.1	21.7	274	22	20.5	20·1	271	25	21.0	20.7	270	2	15·3	15·1	257	3	13·0	12.9	286	6	17·5	17·5	271
5·4 ,,	24	26.4	26.0	271	21	24·1	23.9	283	25	25·1	24·7	269	1	7·0	7·0	270	1	15·5	15·5	280	1	13.0	13·0	270
6·0 ,,	24	28.1	27.5	271	21	26.8	25.6	275	25	27·5	27·2	270									1	16·5	16.5	280
7.2 ,,	19	30.1	29.5	272	15	31.6	30.7	247	21	32·7	32.0	270												
9.0 ,,	8	40.4	39.7	274	9	44.5	43.8	270	13	41·2	40.4	269												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.0	0.5	145	29	0.8	0.5	230	29	2 7	2.5	176	29	1.9	1·7	200	29	0.7	0.3	282	29	1.0	0.5	240
0.15 a. g.	28	5.7	2.9	359	29	4.6	1.6	238	27	6·9	6.1	173	29	6.7	6.0	201	29	4.6	1.6	304	29	3.6	1.9	261
0.3 a. m. s. l.	28	5.8	3.1	336	29	5.5	3.9	215	27	7.2	6.1	177	29	6.7	6.0	201	29	4.8	2.0	300	29	3.8	2.0	265
0.6 ,,	28	5.9	3.7	315	29	5.0	3.8	219	27	5.0	3.8	173	29	5.9	4.9	199	29	4.2	2.3	292	29	4.6	2.6	265
0.9 ,,	28	6.1	4.5	295	29	4.4	2.8	215	27	4 0	1.7	206	29	4.8	3.0	198	29	4.3	2.2	287	29	4.9	3.1	267
1.5 ,,	28	9.0	7.3	280	26	4.3	1.7	270	26	4.7	2.4	298	25	3.3	1.5	295	29	5.6	4.2	285	29	6·2	5.3	285
2.1 ,,	28	11.7	10.9	277	25	4.4	2.4	302	26	5.5	4.5	290	22	4.8	3.6	293	29	8.6	8.0	287	29	9.6	8.9	289
3·0 ,,	13	12.3	11.9	279	23	6.3	3.9	284	24	6 6	5·5	293	17	7.3	6.6	294	26	13.0	12.4	282	29	12.9	12.3	285
3·6 ,,					21	7.6	6.6	289	23	7.5	6.5	290	2	8 5	1.9	308	14	13.7	13.2	279	27	13.9	13.4	282
4.5 ,,					20	10.9	9·6	284	20	10.5	9.1	277					5	13.5	13.3	281	19	18.1	17.1	282
5.4 ,,					10	13.1	12.4	287	19	14.3	13.3	276					3	12.7	12.3	288	12	21·0	20.3	277
6·0 ,,					7	15.3	14.6	272	18	16.3	15.1	277									7	21.8	21·4	278
					2	17.5	14.3	283	16	18.9	17.8	271									4	20.9	20.4	285
7.2 ,,									14	27.7	25.4	272												
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0.3	0.2	302	29	1.3	0.5	308	29	1.4	0.9	348	29	0.5	0.1	016	29	0.5	0.4	051	29	1.4	0.7	255
0.15 a. g.	28	4·2	1·3	037	29	2.5	0.4	331	29	3.4	2.3	355	29	5.3	3.3	045	27	1.8	1.0	044	29	2·2	1.2	225
0.3 a. m. s. l.	28	3.5	0.7	018	29	2.5	0.7	348	29	3.2	2.2	348	29	4.2	2.5	051								
0.6 ,,	28	3.9	1·1	044	29	3.3	0.5	285	29	4.0	2·3	344	29	5·0	2.7	036								
0.9 ,,	28	4.3	1·5	301	29	3.9	1.3	275	29	3.5	2.0	316	29	3.6	0.8	321	27	1.9	1.2	044	29	2.2	1.2	227
1.5 ,,	28	5.7	4.5	290	29	5.2	3.8	276	29	4.8	3·7	278	29	5.4	4·6	274	27	3.5	2.5	255	29	3.4	2.6	247
2.1 ,,	28	8.3	7.5	277	29	7.6	6.6	277	29	7.9	6.9	277	29	7.4	6·4	273	27	7.1	6.2	258	29	7.1	6.1	263
3.0 ,,	28	11.4	10.5	274	29	10.6	9.5	271	28	11.9	10.7	274	29	11.9	11.1	273	22	12.1	11.3	268	26	13.0	12.0	270
3.6 ,,	27	14.8	13.7	273	25	13·7	13.0	271	26	14.1	13.2	274	3	13.3	12.0	261	13	15.8	15.5	273	19	14·6	13.5	273
4.5 ,,	25	18·0	17.1	275	25	16·9	16.4	274	25	17.0	16.7	278					4	19.0	19.0	267	7	15.6	15.5	258
5.4 ,,	25	22.6	21.3	274	24	20.1	19.2	276	24	21.7	21.5	278												
6.0 ,,	22	24.6	23.4	274	23	22.5	22.1	273	18	22.7	22.2	283												
7.2 ,,	14	30.9	29·8	275	13	29.5	28.9	276	11	32.3	31.2	281												
9.0 ,,	3	41.2	40·5	269	3	33.0	32.0	286	2	58.3	58.3	270												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2.6	2.3	288	29	1.1	0.6	277	29	0.5	0.2	121	29	1.1	0.3	324	29	0.8	0.3	062	29	0.3	0.2	184
0·15 a. g.	29	4.8	4.3	279	28	3.0	1.1	271	28	5.5	3.2	079	29	3.1	1.1	310	29	6.5	3.5	048	28	3.6	2.2	192
0.3 a. m. s. l.																								
0.6 ,,									28	6.4	4.0	080	29	3.7	1.2	300	29	6.9	3.8	044	28	2.1	1.2	184
0·9 ,,	29	4.6	4.3	279	28	3.1	1.0	262	28	6.5	2.3	087	29	3.7	2.2	298	29	6.2	3.1	033	28	4.5	2.8	202
1·5 ,,	29	5.3	5.1	260	28	5.3	4.7	253	28	6.1	2.2	270	29	4.9	3.5	282	29	5.1	1.1	300	28	4.1	1.5	224
2.1 ,,	29	7.7	7.4	254	28	8.5	8.2	248	28	8.5	5·8	270	29	7.8	6.7	269	29	7.3	5.8	264	27	5.2	1.8	274
3·0 ,,	27	11.9	11.3	263	21	13.0	12.4	259	27	11.8	10.3	266	28	11.7	11.0	265	27	10.2	9.4	262	27	6.7	4.5	288
3·5 ,,	20	16.7	16.6	265	12	13.5	13.8	264	22	12.6	11.6	274	28	13.6	13.0	269	22	12.0	11.1	270	25	7.3	5.6	287
4.5 ,,	9	20.7	20.5	273					14	15·1	14.2	275	27	16.9	16.3	275	7	12.3	11.2	287	18	7.7	6.1	280
5.4 ,,	3	17.7	17.7	224					7	16.7	16.4	272	25	20.4	19.6	277					15	11.3	10.7	279
6.0 ,,	1	11.0	11.0	280					4	17.0	16.9	273	23	23.2	22.5	277					13	12.6	11.2	279
7.2 ,,									2	27.0	27.0	274	9	27.7	26.4	279					1	16.0	16.0	315
9.0 ,,													1	28.5	28.5	285								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1.8	1.0	208	29	0·7	0·6	195	29	1·2	1·1	066	29	0·7	0·5	313	29	0·5	0·4	050	29	1·0	0·6	303
0·15 a. g.	28	3.7	2.0	202	29	5·5	2·4	192	29	6·5	3 9	075	29	2·6	1·3	287	29	5·1	3·3	0.0	28	3·4	1·5	296
0·3 a.m.s.l.																					28	3·4	1·0	303
0·6 ,,	28	3.0	1.6	203	29	4·1	2·0	191	29	6·3	3·4	078	29	2·8	1·4	286	29	5·1	2·8	065	28	3·8	0·5	280
0·9 ,,	28	3.7	2.1	213	29	5·5	1·9	206	29	4·8	0 5	120	29	2·8	1·7	283	29	4·2	1·1	073	28	4.0	2·1	247
1·5 ,,	28	3.7	2.0	259	29	3·6	1·0	266	29	5·0	2 9	272	29	3·7	2·5	289	29	3·4	1·9	233	26	6·3	5·0	269
2·1 ,,	28	4.1	2 8	287	29	3·5	2·1	293	29	6·8	5·9	277	29	5·5	4 6	274	29	5·6	4·5	265	23	10·3	8·7	280
3·0 ,,	27	5.5	3.3	275	29	6·2	4·2	285	28	9·2	7·7	271	29	9 9	9·1	277	29	8·8	4·2	270	22	14.1	12·3	285
3·6 ,,	26	6·5	5.0	284	6	5·4	4·4	274	27	11·5	10 5	273	29	13 0	12 0	272	26	11·6	10·3	280	5	17·1	12·3	270
4·5 ,,	24	9·5	8·3	285					17	14·8	13·6	275	28	16·7	15·7	273	13	14·4	13·8	282				
5·4 ,,	22	13·1	12·2	274					7	13·4	13·1	275	26	20·1	19·0	274	1	10·0	10 0	260				
6·0 ,,	20	14·9	14·0	277					4	14·3	13·9	278	20	22·3	21·3	274								
7·2 ,,	6	17·4	15·5	292					1	21·0	21·0	275	10	24·2	22·7	274								
9·0 ,,													2	36·7	36·5	277								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I. S. T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1·2	0·6	273	29	1·7	1·5	028	29	1·9	0·7	223	29	1·3	0·9	055	29	2·1	1·8	038	29	2·8	2.1	074
0·15 a. g.	27	3.1	1·6	282	27	5·1	3·5	059	29	3·2	1·3	210	29	4·2	1·1	110	26	7·5	6·0	051	29	4·3	2·9	062
0·3 a.m.s.l.	27	3·1	1·7	279	27	4.1	3.3	038	29	3·4	0·9	222	29	3.6	1.5	083	26	6·6	5·2	047	29	4·1	2·4	069
0·6 ,,	27	3·2	1·9	273	27	4·5	1.4	130	29	2·8	1·3	240	29	4·2	0·4	180	26	6·2	3·6	057	29	4·3	2·1	063
0·9 ,,	27	3·8	2·3	274	27	4.3	1·4	206	28	3·1	1·9	260	28	4·1	1·3	272	26	5·1	1·9	015	29	4·3	0·7	060
1·5 ,,	26	5·5	4·8	272	26	5·7	3.7	271	27	4·5	4·0	282	28	4·8	3·8	280	26	5·2	2·9	279	29	5·0	2·3	264
2·1 ,,	26	8·9	8·0	278	23	7·7	5·9	286	27	7·9	6·8	288	27	7.0	6·1	277	26	6·5	4·8	264	29	6·6	4·5	275
3·0 ,,	20	13·3	12·6	288	23	10·0	9·1	287	26	11·1	9·9	289	25	9·3	8·4	283	25	8·4	7·5	272	29	9·7	7·7	265
3·6 ,,	17	15.3	12·6	285	20	11·9	11·1	288	23	12·6	12·2	281	8	11·2	10·3	287	17	10·6	10·1	266	29	12.9	11·3	275
4·5 ,,	14	18·1	17.2	283	12	19·1	12.4	287	19	14·4	13·6	284					16	14·4	13·6	270	28	16·7	14·7	274
5·4 ,,	6	20·7	19·8	273	4	18.5	17·5	273	18	16·9	16·1	282					15	19.3	18·2	267	24	20.9	20·0	274
6·0 ,,	1	17·0	17·0	275					14	19·0	18·5	279					15	22.1	20·9	270	21	25.1	24·2	276
7·2 ,,									10	21·3	20·5	282					9	27.1	26·2	259	15	33.7	32.4	276
9·0 ,,									1	12·0	12·0	270					2	30.5	30.4	276	8	47.4	45·1	276

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·4	0·9	025	29	3·0	2·5	019	29	2·2	1·3	273	29	3·6	2·7	282	29	2·5	1·6	286	29	1·2	0·7	095
0·15 a. g.	28	4·8	2·9	350	29	8·8	6·9	027	28	5·7	3·1	340	29	3·8	2·8	287	29	7·5	5·3	310	29	4·2	2·9	088
0·3 a. m. s. l.	28	4·5	2·7	355	29	7·8	6·4	024	28	5·7	2·8	343	29	3·7	2·8	290	29	7·5	5·4	310	29	4·4	3·2	097
0·6 ,,	28	4·3	1·8	333	29	8·0	5·8	027	28	5·4	2·3	322	29	4·2	3·1	292	29	6·8	5·3	309	29	4·7	3·5	106
0·9 ,,	28	3·9	1·4	315	29	5·8	2·8	010	27	5·6	3·9	304	29	4·7	3·6	292	29	6·3	4·9	305	29	4·7	3·4	112
1·5 ,,	28	3·9	1·6	283	29	4·0	2·1	211	27	7·1	5·5	296	28	5·9	5·0	296	29	6·7	5·4	303	29	5·2	4·4	112
2·1 ,,	28	6·1	4·4	267	29	6·1	4·6	240	27	9·1	7·7	291	28	8·0	7·0	285	26	7·1	6·1	280	29	5·6	4·7	090
3·0 ,,	26	9·8	8·5	270	28	8·7	7·5	262	19	11·6	10·3	286	27	12·1	11·0	284	22	10·2	9·3	291	29	4·5	2·4	079
3·6 ,,	26	11·7	10·8	273	20	11·3	10·0	269	14	13·8	13·4	288	25	14·6	14·2	283	7	10·5	10·0	273	29	3·4	1·9	088
4·5 ,,	26	15·1	14·2	275	6	13·5	13·1	285	6	13·4	12·0	298	20	18·8	17·0	278					29	4·3	0·6	100
5·4 ,,	25	19·6	18·9	272					2	10·7	10·7	278	18	21·0	20·2	277					29	6·0	0·7	270
6·0 ,,	23	22·3	21·3	273					1	18.0	18·0	275	13	22·3	21·8	284					29	6·5	1·4	347
7·2 ,,	23	29·4	28·3	273					1	25·5	25·5	280	8	24·8	24·6	277					29	8·5	3·3	287
9·0 ,,	18	40·4	38·9	283									2	44·7	44·6	268					22	11·3	7·4	306

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2·8	2·2	084	29	4·5	3·6	081	29	2·3	1·8	090	29	1·3	1·2	068	29	4·0	3·8	279	29	0·9	0·6	004
0·15 a.g.	29	4·2	2·8	090	29	5·7	4·7	087	29	5·5	4·6	095	29	4·8	3·3	058	29	5·0	4·8	280	29	4·4	3·8	334
0·3 a. m. s. l.	29	4·4	2·8	100	29	5·4	4·2	092	29	5·7	4·8	101	29	5·0	3·4	058	29	5·1	4·7	282	29	4·5	4·0	333
0·6 ,,	29	4·4	3·0	097	29	4·9	3·4	100	29	6·3	5·2	100	29	4·3	2·8	075	29	3·4	2·4	299	29	4·5	3·9	332
0·9 ,,	29	4·5	3·1	099	29	4·9	3·3	105	29	5·8	4·7	103	29	4·5	2·7	080	29	2·5	1·4	001	29	3·8	3·1	331
1·5 ,,	27	6·2	5·0	090	29	4·8	4·2	097	29	4·8	4·0	102	29	5·0	2·8	038	29	5·1	4·0	07[illegible]	29	4·3	2·0	060
2·1 ,,	21	6·3	5·1	091	29	4·5	3·8	083	28	5·1	4·2	090	29	4·4	2·7	094	29	7·1	6·8	083	29	7·5	7·0	088
3·0 ,,	17	5·2	4·2	092	29	4·2	2·5	060	28	4·9	3·1	088	28	4·8	3·3	087	29	4·4	2·6	073	27	8·1	7·7	084
3·6 ,,	16	5·0	3·3	087	29	4·0	1·1	057	16	4·5	2·8	070	27	3·9	1·5	082	29	3·8	0·9	050	27	5·4	3·1	078
4·5 ,,	16	5·1	1·4	130	29	4·5	1·1	333	9	3·5	2·6	263	27	5·0	0·8	087	29	4·7	0·6	090	11	5·5	1·7	044
5·4 ,,	13	7·1	1·4	154	29	5·3	1·2	292	2	5·0	4·7	255	27	5·9	0·8	268	29	5·9	0·5	031	4	6·3	4·6	347
6·0 ,,	12	8·3	0·8	166	29	5·6	1·9	330					26	7·0	0·5	323	28	7·1	1·4	333	3	6·2	5·9	001
7·2 ,,	8	7·2	2·2	347	29	8·7	2·5	326					21	9·4	2·9	304	27	10·3	3·6	333				
9·0 ,,	2	6·5	5·7	312	25	11·2	8·1	320					4	11·3	5·1	327	13	11·5	7·6	310				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1·5	1·3	019	29	2·7	2·4	023	29	2.2	2·0	014	29	1.7	1.4	025	29	1·6	0·8	357	29	1.5	0 8	062
0.15 a.g.	29	4·1	3·4	016	29	4.6	4·1	026	29	3.9	3.5	016	29	3.6	3·0	028	29	4·8	2.5	051	29	2 6	1·7	047
0.3 a. m. s. l.	29	3·8	3·1	035	29	4·7	4·4	027	29	4.3	4.0	024	29	3.9	3.4	032								
0·6 ,,	29	4·3	3·4	048	29	4·9	4·5	044	29	4.7	4·4	037	29	3.9	3·6	051	29	5·3	2.1	094	29	2·9	1.2	098
0·9 ,,	29	5·4	4·6	080	27	6.0	5·6	065	29	4.9	4.5	056	29	4·6	4.3	074	29	5·7	2·6	147	29	3·7	1·6	179
1·5 ,,	28	6·9	6·6	087	27	7·0	6·7	085	29	5.5	5·1	082	29	6·6	6.2	091	29	5·2	3·6	221	29	4·7	2·7	229
2·1 ,,	28	6·0	5·6	093	27	6·1	5·8	090	29	5.5	5·0	081	29	7.0	6·6	087	29	6.0	4.8	243	26	6·4	4·4	247
3·0 ,,	23	4·9	3·5	097	24	5·2	3·8	097	29	5.8	4·4	076	27	5·8	5·1	079	29	8·2	7·1	256	26	8·8	7.3	260
3·6 ,,	21	5·1	3·6	099	22	5·3	3·3	094	29	5·0	3·9	086	21	4.8	4·0	093	29	9·5	8·5	269	26	10.1	9.1	269
4·5 ,,	18	5·4	4·5	104	20	5·3	4·1	099	29	6·3	4·9	034	9	7.4	7.0	070	29	11·4	10·5	280	25	13·2	12.6	276
5·4 ,,	15	7·7	5·3	104	17	6·7	4·7	096	29	7·6	6·1	081	3	8.0	7·5	081	29	14.1	13·4	282	24	16·5	15.6	276
6·0 ,,	14	7·1	4·2	100	18	7·3	4·6	094	29	7·9	5·5	074	2	9.7	9.7	077	29	16·6	15·8	280	24	19·1	18·3	279
7·2 ,,	7	8·6	3·1	105	15	9·4	5·1	057	29	10·9	7·2	071					29	20·2	19·4	279	22	24.1	22.8	279
9·0 ,,	1	6·0	6·0	295	10	8·7	1·6	093	29	8·2	3·4	059					25	25·7	23·5	278	17	32·2	30.5	282

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·8	0·2	303	29	1·7	1·0	047	29	1·1	1·0	325	29	2·1	1·5	299	29	2·3	1·6	313	29	1.6	1.1	320
0·15 a.g.	29	3·2	0·3	234	29	6·9	3·3	083	29	5·3	3.7	330	29	3·7	1·9	312	29	5·3	3.5	325	29	5.7	3·4	340
0·3 a. m. s. l.									29	4·8	3.6	326	29	3.5	1·9	309	29	3·9	3·0	320	29	4·8	2·9	336
0·6 ,,	29	3·2	0·6	220	29	6.6	2·6	093	29	5·4	3·3	317	29	4·1	2.1	298	29	4·9	3.5	324	29	5·7	3.6	340
0·9 ,,	29	3.2	1·2	236	29	4·9	1·3	221	29	5·9	3·9	305	29	4·9	2.8	297	29	4.7	3.2	307	29	6·3	3.0	310
1.5 ,,	29	3·4	2·1	237	29	4·4	2·3	240	29	6·9	5·1	292	28	5·5	3·4	279	29	4·7	3·3	297	29	5.8	3·6	277
2·1 ,,	29	4.8	3·0	253	29	6·4	4·9	259	29	7.2	5·4	287	28	6·4	4·5	271	29	6·3	4.4	293	29	6·8	5.3	277
3·0 ,,	29	7.4	6·7	261	28	8·0	7·0	261	29	9·2	7·4	283	27	9·7	7·8	272	29	9·4	7·8	280	26	8·1	7.2	268
3·6 ,,	29	9·5	8·8	268	20	8·6	7·5	264	28	11·1	9·4	277	26	11·8	9.8	274	29	11·2	10·1	280				
4·5 ,,	29	12.1	10.2	265	6	6.7	6·3	264	28	15·5	13·9	280	23	15·1	13.8	275	29	13·8	13·0	279				
5·4 ,,	29	14·4	13.5	279	3	10·3	9·5	265	28	20·2	19·1	277	20	20·2	18·8	275	29	18·3	17·6	279				
6·0 ,,	29	16·7	15.7	279	2	14·7	12·8	263	28	22·4	21·0	277	20	23·9	23·9	274	29	22·2	21·7	280				
7·2 ,,	29	21·1	20·0	278					28	31·1	30·0	280	13	29·4	27·5	274	29	27·4	26·2	288				
9·0 ,,	27	26·0	25·9	276					28	41.8	40·0	280	6	37·2	36·5	283	29	39·0	37·5	283				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·1	0.1	249	29	1 0	0.7	277	29	0·1	0.1	119	29	1·4	1.3	041	29	4.1	3.9	046	29	2·1	2·0	038
0·15 a. g.	29	2.7	0·3	130	29	3·9	2·1	283	29	3·8	2.2	270	29	5·7	5·5	041	29	5.8	5·5	048	29	5·8	5·5	047
0·3 a. m. s. l.													29	5·8	5·6	043	29	6·2	5·8	049	29	5·9	5·5	047
0·6 „	29	1.4	0.7	227	29	2·9	1·8	295	29	1·8	1.3	240	29	7.1	6·7	066	29	7·3	6.7	063	29	6·7	6·5	056
0·9 „	29	4.4	1·2	102	29	3·9	1·8	290	29	5·3	2.6	290	29	7·3	7.0	083	27	7·6	7.2	080	29	7.4	6·7	068
1·5 „	29	5·9	2.0	185	29	3·9	1·7	243	29	5·8	1.8	255	29	8.6	8·3	097	23	7.5	6.9	099	29	7·5	7·1	088
2·1 „	29	6.3	4.1	177	28	4·6	2·6	222	29	5.8	3.0	156	29	7.5	7.1	091	20	6·5	6.1	099	29	7.0	6·6	094
3·0 „	28	6.9	4.1	210	29	6·1	3·4	226	28	6.3	3.1	166	28	5.2	4.5	093	14	5·7	4·1	100	29	5.1	3.9	085
3·6 „	25	7·1	5·0	243	29	7.3	4·6	253	24	6·4	3·5	234	28	4.7	3.4	099	12	3.6	2·4	081	29	4·7	3.4	079
4·5 „	15	9·2	6·5	268	28	9·3	7·2	277	16	7·9	7.0	276	29	4.6	2.4	118	11	4.3	2.3	084	29	4.9	2.7	084
5.4 „	3	6·8	5·4	300	28	11.5	10.1	278	9	9·0	7.9	285	29	4.5	1.1	063	9	5.3	3.5	100	29	5.7	1.7	110
6·0 „	2	6.5	6.3	310	28	13.6	12.3	277	6	11·3	10.3	293	29	5.6	0.8	114	8	5.9	2.3	091	29	5.9	0.9	105
7·2 „	1	4·0	4·0	360	24	16.2	14.5	278	1	11·5	11.5	285	28	7.9	1.3	318	3	7.2	3.1	095	29	8.0	0.2	328
9.0 „					16	21.7	20.1	285					27	8.5	4.2	273					22	7.9	3.9	259

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2·9	2·7	052	29	1·6	0·5	353	29	1·8	0.6	279	29	1.9	0.5	128	29	0.9	0 2	078	29	1·2	0.9	238
0·15 a. g.	29	6·0	5·7	047	26	5·4	1·3	031	29	3.2	1.3	289	29	4.9	0·7	108	26	3.2	0.3	327	28	3·5	2.7	246
0·3 a. m. s. l.	29	6.1	5.9	050													26	3·3	0.5	310	28	3.6	2.7	247
0·6 „	29	6·6	6·3	061	26	6·1	1·1	143	29	3·1	1.6	281	29	4.8	0.1	218	26	3.8	1.4	273	28	3.8	2.9	248
0·9 „	26	6.7	6.4	078	26	4·7	1·4	210	29	3.1	1.9	269	29	4.1	0.9	274	26	3.6	1.3	274	28	4.0	2·9	257
1·5 „	22	6·7	6.2	093	26	5·4	3·4	254	28	4.3	3.1	261	29	4.3	3.1	272	26	4.0	1.8	288	28	4.9	3·3	282
2·1 „	15	5·4	4·8	093	25	6·3	4·5	274	27	6·6	5.5	267	29	6·3	5·2	262	26	6.0	4.1	279	28	5.9	5.0	286
3·0 „	10	3·5	2·3	120	23	8.1	6·6	270	25	10·0	9·2	269	29	8·5	7·8	265	14	7.9	7·6	276	22	9.8	8.2	286
3·6 „	1	3·5	3·5	200	19	9·9	8·8	273	24	10·5	9·7	270	13	10.0	8.9	277	10	8.9	8.5	278	17	13.1	12·5	281
4·5 „	1	3.0	3·0	150	15	11·6	10·1	278	22	12·5	11·8	276	2	6.5	5.9	301	5	10.5	10.4	281	10	13.5	13.1	284
5·4 „					9	12·7	11·7	282	18	14.9	14.2	280					2	15.5	15.2	283	2	20.7	20.5	276
6·0 „					6	11·8	10·6	290	17	17.1	16.5	281					1	19.0	19.0	270	1	18.0	18.0	285
7·2 „					3	15.0	14.2	299	8	16.1	15.5	291												
9·0 „									3	23.0	22.1	290												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	1·3	0·8	060	29	1·9	1·3	228	29	1·7	1·2	006	13	0·4	0·3	265	14	1·0	0·3	303	29	2·0	1·7	022
0·15 a. g. .	29	2·9	2·1	082	29	3·0	2·1	231	29	3·0	0·9	030	13	1·4	0·6	335	14	1·6	0·4	340	29	5·4	5·0	037
0·3 a. m. s. l. .	29	3·0	2.5	085	29	3·1	2·1	233	29	3.0	0·8	036									29	6·1	5·8	045
0·6 ,, .	29	2·7	2·3	084	29	3·2	2·5	230	29	3.6	1·1	281									29	6·7	6·0	073
0·9 ,, .	29	3·0	2·1	091	29	3·2	2·6	230	29	3·5	1.9	277									29	6·4	5·7	082
1·5 ,, .	29	3·1	0·2	310	29	3.1	2·5	247	28	3·5	1·8	247									28	5·8	5·3	081
2·1 ,, .	27	4·7	3·8	275	27	5·1	4·5	275	23	4·1	2·6	269	13	1·7	0·4	030	14	1·8	0·9	246	26	5·9	5·3	085
3·0 ,, .	24	13·1	12.5	281	25	12·7	12·3	282	19	10·3	9·9	278	12	4·8	3·7	156	14	4·7	3·4	158	23	4·8	3·5	074
3·6 .	17	15·9	15.8	280	21	15·8	15·7	281	3	17·5	17·5	286	12	6·3	4·5	170	14	6·4	5·0	169	21	4·3	3·1	085
4·5 ,, .	8	17·9	17·8	283	18	21.3	21.2	280					13	12·9	6·6	248	13	7·0	6·0	191	18	5·4	3·3	096
5·4 ,, .	2	14·5	14.5	285	11	23.7	23.6	283					12	12·9	9.7	235	13	10·5	8·3	253	18	6·3	3·6	070
6·0 ,, .					6	27·1	26·9	280					12	15·8	12.5	257	13	14·0	11·6	261	16	6·9	3·2	049
7·2 ,, .					1	30·0	30·0	265					10	19·6	16.3	270	13	18·3	16·1	273	12	9·9	4·7	026
9·0 ,, .													7	26·4	23·8	278	7	25·9	25·3	273	5	7·3	3·4	289

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	3·7	3·5	082	29	3·2	3·0	079	29	1·2	1·0	030	29	0·8	0·4	260	29	2·4	2·2	252	29	1·0	0·8	318
0.15 a. g. .	29	6·1	5·9	077	29	7·9	7·7	077	29	2·6	1·7	021	29	2·2	0·9	262	29	3·8	3·4	249	29	3·0	2·4	303
0.3 a. m. s. l. .	29	6·1	6·0	076	29	8·7	8·4	077	29	2·4	1·4	044	29	2·1	0·7	249	29	3.4	2.9	246	29	2.9	2.2	304
0·6 ,, .	29	6·0	5·9	073	29	9·1	8·7	080	29	2·4	1·1	072	29	2.0	0·5	030	29	3·5	1·2	252	29	3.1	1·8	346
0·9 ,, .	29	6·0	5.8	069	29	7·9	7·4	069	29	2·9	2·5	077	27	2.9	2·1	043	29	3·5	2·1	059	29	3.4	2.7	045
1·5 ,, .	29	6·1	5·5	061	29	6·0	5·3	058	29	4·1	2·5	067	25	4·8	4·0	070	29	6·5	6·1	054	26	6·2	5.9	065
2·1 ,, .	29	5·6	5·0	071	29	6·7	5·9	075	29	6·0	4·3	091	18	5·0	3.6	084	28	7·0	6·5	065	24	7·1	6·2	078
3·0 ,, .	26	5·6	3·7	059	29	6·1	4·4	077	29	5·6	4·2	097	16	6·2	5.1	097	28	5·7	4·6	078	22	5·7	5·2	092
3·6 ,, .	26	4·5	2·8	071	23	4·5	3·6	083	29	4·9	3·3	105	15	6·0	5·1	099	28	4·9	3·2	078	21	4·8	3·3	083
4·5 ,, .	26	4·4	2·1	060	20	5·5	3·7	082	29	5.9	4·1	087	14	7.5	6.1	103	28	5·6	4·5	086	17	6·3	5·3	068
5·4 ,, .	21	5·5	2·4	052	9	6·3	5·4	078	29	6.8	4.8	086	13	6.5	5·0	065	28	7.0	5.6	073	6	6·8	5·1	063
6·0 ,, .	19	6.4	3.8	058	7	6·6	5·7	082	29	7.6	4.5	078	13	7.3	5.2	065	28	7.7	5.1	083	5	6·0	4·8	048
7·2 ,, .	13	9·3	3·7	044	1	19·5	19·5	080	29	9.2	5.9	080	12	9.0	6·1	058	28	10·4	6·6	046				
9·0 ,, .	11	9.7	4.4	336					28	8·6	3·8	024	10	8.1	3.0	042	26	6·9	1·7	026				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Station	UDAIPUR												VENGURLA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	C A L M			29	0·5	0·4	308	29	0·2	0·2	296	29	0·3	0·3	360	29	2·5	2·2	270	29	0·6	0·6	355
0·15 a. g. .	29	3·0	2·1	010	29	2·7	0·4	200	29	3·6	1·8	343	29	4·3	3·5	007	29	4·0	3·5	274	29	5·4	5·3	355
0·3 a. m. s. l. .													29	5·8	4·5	008	29	4·4	3·7	279	29	6·4	6·3	351
0·6 „ .													29	6·8	4·3	009	29	3·7	2·1	295	29	5·4	5·1	348
0·9 „ .	29	3·8	1·8	027	29	3·1	0·7	223	29	4·2	1·3	360	29	6·8	3·2	002	29	3·6	0·9	[illegible]	29	5·1	4·0	342
1·5 „ .	29	5·0	0·7	244	29	3·4	1·5	258	29	3·9	0·9	203	29	4·8	0·8	114	29	4·5	1·5	069	29	4·6	1·2	090
2·1 „ .	29	6·5	5·1	260	29	4·4	3·1	272	29	4·8	3·2	241	29	4·8	3·5	140	29	5·6	2·7	086	29	6·3	4·9	112
3·0 „ .	29	9·4	7·6	258	29	7·7	6·9	275	28	6·7	6·1	263	29	4·7	2·3	180	29	5·9	1·3	087	29	5·2	3·0	130
3·6 „ .	29	10·6	9·2	268	29	11·2	9·7	274	7	9·8	8·6	267					29	4·9	0·1	070	13	4·1	0·8	204
4·5 „ .	28	14·8	13·3	274	29	14·3	12·8	271	2	11·5	11·3	280					29	5·4	2·3	295				
5·4 „ .	27	19·4	17.5	273	27	19·7	18·4	267	2	16·0	16·0	270					29	7·4	3·7	280				
6·0 „ .	26	20·9	19·8	274	24	21·7	20·7	270	1	16·0	16·0	275					29	8·2	4·8	291				
7·2 „ .	22	26·2	24·1	277	15	24·8	23·2	270									20	11·4	6·8	289				
9·0 „ .	5	32·8	32·6	279																				

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	3·8	3·5	003	29	6·0	4·5	282	29	3·5	3·0	329	29	2·2	1·8	095	29	4·8	4·1	135	29	2·4	2·2	137
0·15 a. g. .	29	10·2	9·0	008	29	6·5	4·4	270	29	8·8	7·4	331	29	4·4	3·5	132	29	5·1	4·6	142	29	7·0	6·6	148
0·3 a. m. s. l. .	29	9·5	8·0	008	29	6·2	2·9	279	29	9·1	6·7	337	29	5·5	4·7	149	29	5·1	4·6	142	29	7·6	7·1	147
0·6 „ .	29	6·9	5·8	009	29	4·9	2·4	317	29	8·1	4·7	348	29	6·6	5·7	149	29	5·0	4·4	141	29	7·0	6·4	140
0·9 „ .	29	4·8	3·2	007	29	4·7	2·7	348	29	6·4	3·1	359	29	6·7	5·3	145	29	4·6	3·7	137	29	5·9	5·0	132
1·5 „ .	29	4·6	0·4	210	29	4·0	2·1	353	29	4·0	1·3	057	26	5·9	3·7	118	29	4·3	2·6	112	29	5·2	3·4	104
2·1 „ .	29	6·1	2·6	217	29	5·2	2·2	293	29	5·3	0·9	221	23	5·2	1·5	087	28	4·5	1·8	035	29	4·7	1·9	077
3·0 „ .	29	6·7	4·1	251	29	7·0	4·8	265	29	7·1	3·6	250	23	4·5	0·9	334	27	4·2	0.9	331	29	5·4	1·1	323
3·6 „ .	18	8·3	3·6	267	29	8·8	7·0	262	16	8·9	5·9	238	22	5·1	2·3	264	26	5·1	2·5	288	21	5·8	3·1	291
4·5 „ .	13	10·5	8·6	264	29	11·9	10·8	269	15	9.4	7·3	262	20	7·2	4·6	281	25	7·1	5·3	287	16	6·5	5·2	284
5·4 „ .	9	13·2	12·9	272	29	15·3	14·7	275	8	12·1	11·4	263	20	8·8	6·7	277	24	8·9	7·0	280	6	9·8	8·4	281
6·0 „ .	6	14.7	14·3	280	29	17·3	16·6	275	5	11·7	11·3	265	20	10·4	8·0	281	24	10·6	8·4	289	1	9·0	9·0	300
7·2 „ .					28	22·4	20·7	273					16	13·6	11·3	282	20	14·1	11·7	284				
9·0 „ .					18	29.3	27·2	279					11	18·7	16·8	279	16	18·9	17·4	28				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

February, 1964 (Magha 12,—Phalguna 10, 1885 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	29	3·0	1·8	316	29	2·9	1·8	173	29	3·0	1·2	259	29	0·4	0·2	177
0·15 a. g. .	29	5·3	3·9	320	29	3·7	1·9	165	29	5·0	1·4	266	29	3·1	2·1	210
0·3 a. m. s. l.	29	5·1	2·5	300	29	3·6	2·0	178	29	4·9	1·3	230	29	3·8	2·7	204
0·6 ,, .	29	4·2	1·6	210	29	3·1	1·3	185	29	4·6	2·3	201	29	4·2	2·8	200
0·9 ,, .	29	3·9	1·4	200	26	3·1	0·6	182	29	3·9	1·2	219	28	4·1	2·1	206
1·5 ,, .	29	3·7	0·7	148	22	4·3	1·2	131	29	4·0	0·9	326	27	3·3	0·4	339
2·1 , .	29	4·0	0·6	065	20	3.6	0·5	129	29	4·2	2·2	337	25	4·1	2·0	360
3·0 , .	28	5·3	2·6	307	18	4·5	0.7	242	29	5·9	3·7	309	21	4·5	1·9	292
3·6 ,, .	27	6·1	3·9	290	18	5·1	2·7	282	27	6·1	4.9	285	13	6·2	3·9	268
4·5 ,, .	25	8·3	7·0	285	18	7·5	5·1	293	27	8·5	7·5	277	6	7·5	6·1	255
5.4 ,, .	24	11·6	10·7	277	17	9·9	8·5	278	25	12·2	10·8	279	5	10·2	9·6	270
6·0 ,, .	22	13·6	13·0	278	17	11·0	9·5	274	25	13·9	12·4	275	4	11·9	10·5	277
7.2 ,, .	22	18·0	14·6	276	16	15·3	13·4	274	24	18·4	15·5	280				
9·0 ,, .	20	23·9	21·2	275	15	22·6	20·7	284	21	25·4	23·3	261				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	13	46·6	44·6	280
12·0	10	47·3	45·0	282
14·1	3	46·2	45·0	278
16·2	1	19·5	19·5	285
18·0	1	25·0	25·0	275
	1130 hr.			
10·5	4	44·1	17·1	299
	1730 hr.*			
10·5	14	41·6	39·3	283
12·0	9	42·0	40·5	287
14·1	2	49·5	49·5	279
	ALLAHABAD/BAMHRAULI			
	0530 hr.*			
10·5	4	43·6	39·3	267
	1730 hr.*			
10·5	7	41·9	40·2	283
12·0	5	50·4	49·8	287
14·1	1	29·0	29·0	240
16·2	1	37.5	37·5	265
	ANANTAPUR			
	0530 hr.			
10·5	8	17·5	15·4	305
12·0	3	21·3	20·6	264
	1730 hr.			
10·5	2	18·5	17·9	286
12·0	1	24·0	24·0	250
14·1	1	17·5	17·5	255
16.2	1	15·0	15·0	290
	BANGALORE			
	0530 hr.@			
10·5	17	15·1	12·6	271
12·0	15	17·8	13·4	246
14·1	11	14·1	12·4	275
16·2	8	9·9	7·7	284
18·0	5	11·2	9·2	286
21·0	1	9·0	9.0	250
	1130 hr.			
10·5	8	11·5	8·6	280
12.0	4	15·3	14·9	268
14·1	3	13·7	12·1	248
16·2	1	11·5	11·5	280

Ht. in Km.	n	V	v	D
	1730 hr.@			
10·5	23	14·7	12·6	259
12·0	22	17·0	14·4	250
14·1	17	14·4	12·8	257
16.2	14	11·4	6·8	257
18·0	13	9·2	8·0	274
21·0	3	18·2	14·1	283
24·0	1	27·5	27·0	270
	BEGAMPET			
	0530 hr.			
10·5	1	19·0	19·0	295
	1730 hr.			
10·5	1	20·0	20·0	280
12·0	1	27·5	27·5	265
14·1	1	20·5	20·5	265
	BHOPAL/RAIRAGARH			
10·5	1	43·0	43·0	265
	BOMBAY/SANTA CRUZ			
	0530 hr.*			
10·5	22	25·2	21·8	268
12·0	19	26·1	25·7	275
14·1	4	24·1	23·0	303
16.2	3	22·3	20·1	279
18·0	1	25·5	20·5	295
	1130 hr.			
10·5	9	29·0	26·3	232
12·0	6	28·3	28·0	269
14·1	4	28.6	27·7	269
16·2	3	22·8	22·3	283
18.0	2	16·5	15·5	271
21·0	1	10·5	10·5	290
	1730 hr.*			
10·5	26	28·7	26·5	275
12.0	25	30·5	27·2	273
14.1	10	30·1	27·9	271
16·2	4	27·5	26·8	266
18·0	3	17·5	17·3	267
21·0	1	17·5	17·5	260
	CALCUTTA/DUM DUM			
	0530 hr.*			
10·5	15	36·5	35·3	274
12·0	10	37·7	35·4	266
14·1	5	44·1	42.3	274
16·2	3	47.2	46·0	271

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	15	41·7	38·8	270
12·0	10	42·9	39·5	270
14·1	2	35.0	34·0	257
16.2	2	27·7	27·7	263
	GADAG			
	0530 hr.			
10·5	7	16·1	14·2	291
12·0	5	18·3	15·7	270
14·1	1	9·0	9·0	195
	1730 hr.			
10·5	20	16·1	14·1	253
12·0	15	16·0	14·1	268
14·1	11	17·8	15·1	260
16·2	6	13·8	13·1	270
18·0	4	10·1	8·9	285
21·0	2	3·0	2·9	338
24·0	1	3·0	3·0	360
	GAUHATI			
	0530 hr.*			
10·5	3	40·8	40·7	260
12·0	2	37·0	35·2	299
	1130 hr.			
10·5	2	44·5	44·4	246
12·0	1	51·5	51·5	245
	1730 hr.*			
10·5	5	41·4	40·0	270
12·0	2	43·5	43·3	270
	GOPALPUR			
	1730 hr.			
10·5	9	32·4	29·1	266
12·0	6	41·0	38·7	270
14·1	2	34·3	34·0	282
16·2	1	30·0	30·0	315
	JAIPUR/SANGANER			
	1730 hr.			
10·5	2	59·0	59·0	290
	JODHPUR			
	0530 hr.*			
10·5	1	51·5	51·5	285
12·0	1	46·0	46·0	295
14·1	1	31·5	31·5	290
16·2	1	28·5	28·5	280

Ht. in Km.	n	V	v	D
	1730 hr.			
10.5	4	37·3	36·4	273
12·0	2	38·7	48·5	272
	1730 hr.*			
10.5	9	44·6	44·4	273
12.0	4	52·0	49·0	273
14.1	1	33·0	33·0	284
	MADRAS/MINAMBAKKAM			
	0530 hr.*			
10.5	20	11·8	8·6	269
12·0	16	15·0	12·[illegible]	253
14·1	12	[illegible]	10·8	253
16·2	[illegible]	9·0	[illegible]·7	254
18·0	1	6·0	6·0	025
	1130 hr.*			
10.5	19	11·9	9·6	265
12·0	16	15·9	12·8	235
14·1	10	10·1	6·6	248
16·2	3	10·0	6·0	280
18·0	2	5·3	5·1	3.8
21·0	1	12·5	12·5	275
	MANGALORE/[illegible]			
	17.0 hr.			
10·5	6	13·8	10·7	276
12·0	5	12·3	9·4	246
14·1	2	11·3	6·0	206
	MINICOY			
	0530 hr.*			
10·5	1	12·0	12·0	245
	1130 hr.			
10·5	5	3·3	2·4	096
12·0	2	11·7	5·9	126
14·1	1	7·5	7·5	095
16·2	1	5·0	5·0	180
18·0	1	7·0	7·0	255
21·0	1	13·5	13·5	245
24·0	1	13·0	13·0	180
27·0	1	15·0	15·0	145
	1730 hr.*			
10·5	28	9·7	2·7	141
12·0	23	12·2	8·4	167
14·1	28	9·2	1·9	199
16·2	24	9·3	2·9	039
18·0	20	8·9	1·3	237

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Ht. in Km.	n	V	v	D
	MINICOY—(*Contd*)			
	1730 hr.*			
21·0	10	16·9	15·2	264
24·0	6	16·4	15·5	272
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	17	28·7	26·4	279
12·0	8	34·8	20·4	287
14·1	1	24·0	24·0	265
	1130 hr.			
10·5	4	39·0	34·9	274
12·0	2	37·0	35·5	294
	1730 hr.*			
10·5	19	29·1	25·9	277
12·0	10	31·1	25·4	282
14·1	4	38·0	36·0	281
16·2	1	24·5	24·5	270
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	28	51·4	49·2	277
12·0	27	53·4	51·4	278
14·1	25	39·8	38·1	278
16·2	23	26·2	25·7	272
18·0	15	15·5	15·2	279
21·0	11	9·7	8·0	282
24·0	6	6·3	4·8	337
	1730 hr.*			
10·5	28	50·0	47·8	285
12·0	21	54·5	46·9	282
14·1	18	39·6	37·5	282
16·2	16	29·1	26·3	279
18·0	16	18·8	18·3	277
21·0	7	8·1	7·1	272
	POONA			
	1730 hr.			
10·5	12	23·0	21·7	282
12·0	7	24·0	22·6	272
14·1	3	26·8	26·2	259
16·2	2	25·0	25·0	257
18·0	1	29·0	29·0	295

Ht. in Km.	n	V	v	D
	PORT BLAIR			
	0530 hr.*			
10·5	24	11·8	7·5	249
12·0	19	15·2	12·8	233
14·1	14	13·9	12·0	216
16·2	8	10·5	2·2	189
18·0	1	13·0	13·0	175
21·0	1	17·5	17·5	290
	1730 hr.*			
10·5	22	10·1	7·2	255
12·0	19	12·4	11·0	242
14·1	8	17·3	12·8	231
16·2	2	16·5	10·9	179
18·0	1	12·0	12·0	070
	RAIPUR			
	1730 hr.			
10·5	1	25·0	25·0	295
	SRINAGAR			
	0530 hr.*			
10·5	2	46·0	46·0	282
12·0	1	39·0	39·0	275
	1730 hr.*			
10·5	5	31·4	30·7	273
12·0	1	51·5	51·5	260
	TIRUCHCHIRAP-PALLI			
	0530 hr.			
10·5	5	9·7	7·2	247
12·0	3	8·2	7·1	219
	1730 hr.			
10·5	4	10·1	8·9	284
12·0	3	12·5	11·7	265
14·1	3	12·5	12·5	268
	TRIVANDRUM			
	0530 hr.*			
10·5	26	8·7	3·3	211
12·0	25	11·0	6.5	190
14·1	23	8·7	2·4	275
16·2	16	10·3	3·9	309
18·0	11	10·9	7·5	283
21·0	6	14·2	13·3	265
24·0	1	13·0	13·0	255

Ht. in Km.	n	V	v	D
	1130hr.			
10·5	5	10·9	3·7	002
12·0	3	10·8	7·0	050
14·1	3	9·5	6·4	064
	1730 hr.*			
10·5	25	9·9	3·8	174
12·0	24	13·0	7·3	186
14·1	22	9·5	2·3	266
16·2	19	7·6	0·1	197
18·0	15	8·0	3·0	296
21·0	5	17·8	17·0	273
24·0	3	13·8	13·7	272
	VERAVAL			
	1730 hr.			
10·5	5	40·4	37·7	287
12·0	3	41·5	41·1	282
14.1	1	46·0	46·0	265
	VIJAYAWADA/ GANNAVARAM			
	0530hr.			
10·5	7	20·1	18·6	274
12·0	4	23·7	23·5	258
14·1	1	19·0	19·0	260
	1730 hr.			
10·5	6	19·7	19·5	275
12·0	2	21·3	21·0	261
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	16	28·3	25·9	273
12·0	14	30·9	29·4	267
14·1	13	30·6	28·7	260
16·2	10	21·3	18·5	267
18·0	9	15·0	9·9	276
21·0	2	15·5	15·4	265
	1130 hr.			
10·5	13	27·4	25·9	277
12·0	12	30·5	29·5	269
14·1	11	33·3	32·8	265
16·2	9	27·9	26·4	273
18·0	9	20·6	19·2	280
21·0	3	13·8	12·5	251
24·0	1	13·0	13·0	265

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	17	27·5	25·4	286
12·0	17	30·9	28·2	275
14·1	12	30·2	29·2	266
16·2	11	24·5	23·2	259
18·0	8	22·9	21·7	273
21·0	6	17·7	14·8	269
24·0	2	13·0	12·7	256

RADIOSONDE DATA

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmadabad	Clock type	20th July 1961	00 and 12	Fan Type up to 24-2-63
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September, 1954	00 and 12	Clock type up to 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st Aug., 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1006 mb.)						ALLAHABAD/BAMHRAULI (1002 mb.)						BANGALORE (911 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	055	288·8	294	284	279·1	29	098	285·0	291	278	280·6	29	921	289·7	294	286	287·4
1000	29	102	..	..	..	..	29	112	..	..	..	.	29	120	..	..	..	..
900	29	1011	291·9	296	286	275·0	29	1009	288·9	297	283	271·6	29	1022	290·1	294	287	286·0
850	29	1499	288·8	293	282	272·3	29	1492	286·2	293	279	267·8	29	1512	290·7	295	285	279·0
800	29	2011	285·9	289	280	269·6	29	2000	283·6	289	275	264·9	29	2028	288·0	292	283	275·2
700	29	3130	279·8	284	277	262·7	29	3097	276·4	282	269	249·9	29	3148	282·4	286	279	266·9
600	29	4371	272·4	276	268	252·1	29	4330	268·9	275	264	247·5	28	4412	276·0	278	274	257·7
500	29	5802	263·4	268	258	..	29	5743	259·6	268	253	..	28	5867	267·2	273	261	..
400	27	7489	252·1	259	245	..	29	7406	248·6	254	241	..	28	7590	256·8	265	251	..
300	25	9556	238·0	244	231	..	29	9447	235·1	241	225	..	27	9682	241·2	247	236	..
250	24	10809	229·4	235	225	..	29	10682	226·8	234	217	..	26	10943	231·2	237	227	..
200	21	12278	219·8	230	211	..	28	12143	218·9	227	210	..	24	12424	219·7	225	214	..
175	17	13125	214·5	225	206	..	27	12994	215·1	222	209	..	23	13256	213·4	219	208	..
150	15	14097	209·2	219	200	..	27	13957	210·7	217	205	..	22	14223	206·9	213	201	..
125	12	15212	204·5	213	199	..	27	15089	207·6	213	197	..	19	15312	202·1	207	197	..
100	8	16546	200·0	204	194	..	25	16434	205·4	215	192	..	17	16614	197·5	202	192	..
80	8	17897	199·9	203	194	..	24	17796	204·5	220	197	..	14	17875	199·1	203	187	..
70	6	18621	200·2	203	197	..	21	18583	209·1	223	201	..	9	18693	202·7	205	199	..
60	..	..	..	..	..	..	17	19534	211·4	225	202	..	6	19625	207·7	210	206	..
50	..	..	..	..	..	..	10	20657	212·2	228	203	..	5	20726	213·2	218	208	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1010 mb.)						CALCUTTA/DUM DUM (1012 mb.)						GAUHATI (1008 mb.)					
Surface	29	013	291·1	299	286	286·9	29	006	291·0	300	285	288·9	29	049	286·7	292	281	284·3
1000	29	092	..	..	..	..	29	104	..	..	..	..	27	113	..	..	..	..
900	29	1012	294·3	301	287	272·1	29	1008	289·4	297	283	281·3	27	1011	286·9	293	281	278·8
850	29	1506	291·9	295	287	267·3	29	1492	286·5	293	280	277·3	27	1489	283·7	292	276	276·2
800	29	2024	288·8	293	285	267·7	29	2001	283·9	291	277	273·3	27	1991	279·9	287	272	275·8
700	29	3144	281·5	285	277	259·9	29	3100	276·7	281	270	265.0	27	3078	272·9	279	268	266·5
600	29	4404	275·0	281	269	253·9	29	4336	269·5	275	263	..	27	4299	267·1	275	263	..
500	29	5854	265·9	271	259	..	28	5759	261·2	266	256	..	27	5705	258·9	265	254	..
400	29	7558	254·7	261	247	..	28	7432	250·1	255	244	..	27	7763	247·6	253	241	..
300	28	9651	239·9	247	233	..	20	9491	237·0	246	231	..	20	9395	234·6	239	226	..
250	27	10904	230·6	235	225	..	18	10733	228·4	233	223	..	17	10622	227·1	232	219	..
200	27	12379	220·0	225	212	..	16	12203	219·6	224	212	..	13	12091	219·1	225	211	..
175	23	13232	213·4	219	207	..	12	13058	215·0	221	206	..	9	12983	215·5	221	211	..
150	23	14186	208·0	215	201	..	11	14031	211.6	217	207	..	5	13927	209·8	217	203	..
125	21	15322	203·1	209	193	..	9	15161	208.4	213	202	..	..	..	..	..	..	..
100	21	16625	199·8	205	194	..	7	16490	202·5	207	196	..	..	..	..	..	..	..
80	17	17942	200·3	207	194	..	..	..	..	..	..	..	..	..	..	..	..	..
70	13	18773	203·2	210	196	..	..	..	..	..	..	..	..	..	..	..	..	..
60	13	19685	204·6	213	199	..	..	..	..	..	..	..	..	..	..	..	..	..
50	8	20739	209·7	216	201	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	.	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Standard Pressure Surface mb.	JODHPUR (987 mb.) Sumf. Pr.						MADRAS/MINAMBAKKAM (1010 mb.)						NAGPUR/SONEGAON (976 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	29	218	286·5	293	281	272·8	29	015	295·2	298	293	293·4	29	311	289·5	291	284	280·6
1000	19	114	..	..	..	..	29	101	..	..	..	..	29	106	..	..	..	..
900	19	1011	290·2	297	283	270·3	29	1013	291·8	295	288	284·8	29	1012	293·3	298	287	279·8
850	19	1484	287·2	293	280	267·2	29	1502	290·0	293	287	277·5	29	1502	290·1	295	285	278·8
800	19	2002	283·6	288	276	267·9	29	2017	287·3	291	283	273·4	29	2016	285·9	291	282	276·4
700	19	3098	277·0	281	271	259·8	29	3135	282·4	285	279	264·7	29	3124	278·8	284	276	267.9
600	18	4339	270·0	274	267	..	29	4396	275·2	279	272	261·7	29	4370	272·8	279	268	254·7
500	17	5754	260·3	264	256	..	29	5847	266·1	270	263	..	29	5808	264·2	269	260	..
400	15	7421	249·2	253	244	..	29	7558	256·3	261	253	..	29	7497	252·5	257	246	..
300	13	9466	231·6	242	228	..	26	9658	240·7	245	236	..	28	9561	237·0	248	230	..
250	11	10709	226·0	233	213	..	24	10922	230·7	235	226	..	28	10805	228·6	243	221	..
200	9	12182	219·8	223	213	..	22	12391	218·5	223	213	..	28	12266	218·4	230	212	..
175	9	13038	217·6	224	211	..	22	13229	212·2	218	206	..	28	13098	213·9	222	205	..
150	9	14013	215.0	223	209	..	21	14184	206·4	214	197	..	27	14066	208·4	218	199	..
125	7	15150	210·1	214	208	..	18	15254	201·6	205	195	..	25	15138	203·9	213	197	..
100	6	16502	207.0	212	202	..	17	16576	197·0	202	193	..	22	16469	200·6	206	196	..
80	..	..	..	..	..	..	13	17859	198·2	203	191	..	17	17835	200.3	208	193	..
70	..	..	..	..	..	..	8	18667	200·3	205	192	..	16	18576	201·7	212	196	..
60	..	..	..	..	..	..	7	19559	203·0	209	195	..	14	19503	203·5	210	197	..
50	..	..	..	..	..	..	7	20627	206·4	214	198	..	11	20617	206·5	216	201	..
40	..	..	..	..	..	..	5	21915	210.6	218	204	..	8	22012	210·4	217	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (989 mb.)						PORT BLAIR (1003 mb.)						SRINAGAR (841 mb.)					
Surface	29	209	231·3	289	275	260·2	29	079	297·3	300	292	295·8	13	1588	274·4	277	269	274.7
1000	29	119	..	..	..	..	29	099	..	..	..	..	13	176	..	..	..	..
900	29	1011	287·9	296	282	270·0	29	1016	293·9	296	291	286·6	13	1044	..	..	..	..
850	29	1491	284·9	291	278	265·6	29	1508	290·4	293	287	283·7	13	1507	..	..	..	..
800	29	1996	281·7	287	273	262·8	29	2024	287·9	292	285	278·4	13	1997	272·0	275	269	271.8
700	29	3084	274·3	219	267	253·9	28	3143	282·0	285	277	268.8	13	3049	267·4	271	265	..
600	29	4308	266·6	272	260	..	29	4407	276·0	279	273	261·3	13	4243	260·2	264	257	..
500	29	5707	257·0	263	250	..	29	5861	267·6	271	263	257·4	12	5604	250·7	254	247	..
400	29	352	245·0	252	237	..	29	7578	257·1	261	253	..	10	7212	239·5	245	235	..
300	28	9348	231·9	241	224	..	29	9682	241·2	248	236	..	5	9015	224·6	229	219	..
250	28	10578	223·9	235	214	..	27	10937	231·1	239	224	..	..	..	..	..	..	..
200	28	12020	218·3	229	208	..	27	12414	220·5	229	212	..	..	..	..	..	..	..
175	26	12864	215·2	223	205	..	25	13245	213·4	221	205	..	..	..	..	..	..	..
150	26	13830	213·2	220	202	..	25	14199	207·3	216	199	..	..	..	..	..	..	..
125	25	14961	209·3	216	201	..	23	15301	202·4	211	195	..	..	..	..	..	..	..
100	25	16321	206·4	211	201	..	21	16611	197·8	203	193	..	..	..	..	..	..	..
80	21	17693	207·5	213	202	..	17	17889	200·3	215	192	..	..	..	..	..	..	..
70	17	18563	208·3	213	202	..	13	18727	202·5	221	195	..	..	..	..	..	..	..
60	14	19494	209·2	213	202	..	12	19681	208·0	224	199	..	..	..	..	..	..	..
50	12	20639	213·2	218	207	..	8	20769	209·0	221	203	..	..	..	..	..	..	..
40	7	22100	217·6	222	210	..	..	..	..	..	..	..	..	..	..	..	..	..
30	6	23907	220.8	226	216	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Standard Pressure Surface mbs.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	064	297·4	299	295	293·8	29	041	296·8	300	295	292·8
1000	29	030	..	..	..	..	29	108	..	..	..	..
900	29	1001	293·0	295	289	287·4	29	1025	293·0	297	290	283·5
850	29	1493	291·8	292	287	283·8	29	1526	290·3	295	287	279·3
800	29	2013	287·9	291	284	278·8	29	2031	289·2	291	284	275·1
700	29	3131	283·3	286	281	269·6	29	3147	281·0	285	277	266·3
600	29	4397	275·7	279	269	264·2	29	4406	274·6	279	269	255·9
500	29	5851	267·2	271	263	..	29	5854	266·6	271	263	..
400	29	7566	256·8	261	252	..	29	7562	255·0	260	250	..
300	29	9666	241·2	246	235	..	28	9655	240·2	248	234	..
250	28	10930	230·6	236	224	..	28	10902	231·4	237	225	..
200	28	12403	219·5	228	212	..	28	12397	221·0	227	214	..
175	28	13241	213·0	217	206	..	28	13234	215·5	221	210	..
150	28	14196	206·1	210	199	..	28	14222	209·8	216	204	..
125	26	15273	200·4	205	195	..	28	15304	208·3	210	201	..
100	24	16595	196·4	200	191	..	28	16165	200·6	207	195	..
80	20	17888	199·3	209	191	..	25	17980	201·0	207	195	..
70	19	18679	202·5	213	193	..	21	18751	203·4	211	195	..
60	18	19599	205·9	214	196	..	16	19650	206.2	216	195	..
50	16	20711	211·0	219	207	..	16	20742	209·8	222	199	..
40	8	22055	212·9	216	209	..	9	22059	212·5	218	203	..
30	..	..	..	..	..	..		..	..	..	..	..
20	..	..	..	..	..	..		..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1004 mb.)						ALLAHABAD/BAMHRAULI (1000 mb.)						BANGALORE (908 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max	Min.	Dew point
Surface	29	055	303·9	309	299	283·2	29	098	299·4	307	293	280·7	29	921	301·6	305	298	283·8
1000	29	093	..	..	..	..	29	099	..	..	..	..	29	66	..	..	..	..
900	29	1021	295·6	302	290	276·9	29	1015	292·0	300	286	272·7	29	1004	300·6	304	297	283·8
850	29	1515	291·4	297	286	273·7	29	1503	288·3	296	279	267·8	29	1505	295·1	299	291	280·3
800	29	2031	287·6	293	283	271·2	29	2014	285·3	291	277	263·9	29	2027	290·0	295	287	279·6
700	29	3146	281·3	285	277	263·9	29	3119	278·0	281	273	259·5	29	3149	282·5	286	275	269·8
600	29	4403	273·9	279	269	253·8	29	4361	270·7	274	264	..	29	4414	276·3	280	273	259·5
500	29	5844	264·8	272	260	..	29	5784	261·4	266	253	..	29	5870	267·3	271	264	..
400	29	7546	254·0	263	248	..	29	7458	250·2	255	244	..	29	7584	256·1	262	252	..
300	27	9625	239·3	249	231	..	29	9514	237·4	245	231	..	28	9684	241·3	247	237	..
250	27	10915	230·7	240	220	..	29	10763	230·0	239	221	..	26	10948	230·9	237	226	..
200	25	12361	222·1	233	210	..	29	12241	221·9	230	214	..	25	12428	219·9	226	212	..
175	24	13225	217·6	229	204	..	28	13109	218·3	227	211	..	24	13274	213·8	219	205	..
150	21	14197	212.5	223	199	..	26	14073	214.0	223	206	..	23	14229	207·4	214	197	..
125	21	15323	208·0	218	198	..	26	15214	210.4	217	203	..	20	15325	202·9	210	196	..
100	18	16649	204·0	221	193	..	25	16571	206.7	212	201	..	20	16654	198·2	206	194	..
80	14	17984	205·9	221	195	..	22	17923	207·6	215	200	..	18	17975	198·3	203	193	..
70	12	18780	206·4	222	198	..	21	18729	209·0	219	202	..	16	18792	201·5	208	193	..
60	10	19676	209·1	216	202	..	18	19669	211·2	217	205	..	12	19725	204 3	211	195	..
50	6	20757	214·0	222	207	..	17	20796	213·8	221	205	..	12	20780	208·3	216	197	..
40	..	..	..	..	..	..	9	22196	217·0	223	211	..	5	22277	212·4	218	209	..
30	..	..	..	..	..	..	7	24070	221·7	233	212	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1008 mb.)						CALCUTTA/DUM DUM (1010 mb.)						GAUHATI (1005 mb.)					
Surface	29	013	300·9	304	297	288·3	29	6	299·0	304	291	289·9	29	049	295·7	301	291	286·9
1000	29	087	..	..	..	..	29	095	..	..	..	..	28	095	..	..	..	..
900	29	1013	295·8	299	290	276·2	29	1014	293·4	299	287	282·6	28	1006	290·3	296	284	278·4
850	29	1508	292·3	295	287	273·9	29	1504	289 6	295	284	277·5	28	1491	286·6	292	280	275·4
800	29	2027	288·8	293	286	272·6	29	2017	285 8	291	280	274·6	28	1998	282·5	288	277	272·3
700	29	3146	281·5	287	277	265·5	29	3123	278·4	284	271	264·7	28	3089	274·3	280	284	263·7
600	29	4406	274·5	279	269	256·4	29	4367	271 7	277	263	..	26	4327	267·7	275	261	..
500	29	5853	266·0	273	260	..	29	5797	263·2	269	256	..	26	5726	258·9	266	249	..
400	29	7557	254·7	267	246	..	28	7486	252·4	257	243	..	24	7387	248·2	252	241	..
300	29	9644	239·7	251	230	..	21	9565	238·1	247	230	..	20	9423	233·9	241	226	..
250	29	10901	230·1	243	218	..	20	10823	229·6	239	220	..	16	10641	225·3	235	217	..
200	29	12379	219·8	230	214	..	18	12289	220·2	229	215	..	12	12087	217·7	227	209	..
175	26	13233	213·1	221	208	..	14	13145	216·5	223	211	..	10	12967	215·6	222	207	..
150	26	14176	207·2	212	202	..	12	14113	212·7	218	205	..	9	13916	212·7	218	207	..
125	24	16286	203·2	209	198	..	9	15218	206·7	211	199	..	7	15080	208·1	213	203	..
100	23	16600	200.6	209	194	..	9	16547	202·3	207	195	..	..	..	..	..	..	..
80	19	17903	200·5	206	193	..	7	17919	204·1	207	200	..	..	..	..	..	..	..
70	16	18690	203·6	210	196	..	6	..	..	..	..	..	..	..	..	..	..	..
60	12	19679	206.6	217	198	..	..	..	..	..	..	..	..	..	..	..	..	..
50	11	20797	210.6	222	206	..	..	..	..	..	..	..	..	..	..	..	..	..
40	7	22144	212·6	218	205	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

February, 1964 (Magha 12—Phalguna 10, 1885 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (987 mb.)						MADRAS/MINAMBAKKAM (1009 mb.)						MINICOY (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	299·7	309	291	274·7	29	015	301·4	305	299	293·5	29	002	300·9	301	299	295·9
1000	23	107	..	..	..	..	29	095	..	..	..	..	29	082	..	..	..	..
900	23	1018	292·0	298	286	270·9	29	1014	294·0	298	289	283·2	29	1006	293·6	295	292	288·2
850	23	1505	288·8	295	285	266·9	29	1507	291·5	295	287	278·1	29	1499	290·9	294	288	283·6
800	23	2022	285·4	290	279	263·9	29	2025	288·7	293	285	273·5	29	2016	288·7	291	287	277·9
700	23	3122	278·2	282	271	255·7	29	3147	283·2	287	281	267·6	29	3140	283·6	287	280	268·4
600	22	4376	271·5	277	266	..	29	4414	276·5	281	273	260·5	29	4446	276·3	279	273	260·9
500	21	5780	261·1	267	257	..	29	5874	268·0	272	264	..	29	5861	267·5	271	263	..
400	20	7463	251·6	258	246	..	29	7592	256·3	263	252	..	29	7579	257·3	262	253	..
300	14	9538	239·0	245	230	..	25	9702	242·0	246	236	..	29	9680	241·7	247	235	..
250	10	10795	230·5	235	220	..	21	10965	231·6	235	225	..	28	10945	231·9	238	226	..
200	9	12599	220·2	224	207	..	21	12441	219·3	223	214	..	28	12424	220·7	227	213	..
175	5	13064	218·6	223	211	..	18	13266	213·4	219	206	..	28	13265	214·3	222	205	..
150	5	14038	214·0	219	208	..	18	14236	207·3	213	198	..	27	14226	207·3	217	197	..
125	..	..	..	..	..	..	14	15304	201·9	208	191	..	24	15316	202·5	209	194	..
100	..	..	..	..	..	..	13	16638	197·6	207	192	..	24	16638	198·0	205	193	..
80	..	..	..	..	..	..	11	17892	199·7	204	193	..	18	17932	201·3	212	194	..
70	..	..	..	..	..	..	11	18672	199·5	208	195	..	17	18719	204·0	211	195	..
60	..	..	..	..	..	..	9	19588	202·2	207	197	..	14	19693	206·1	213	197	..
50	..	..	..	..	..	..	7	20665	206·7	213	200	..	12	20771	200·9	217	200	..
40	..	..	..	..	..	..	..	..	..	..	..	..	10	22161	211·5	219	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	7	23910	213·3	221	200	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NAGPUR/SONEGAON Surf. Pr.(974 mb.)						NEW DELHI/SAFDARJUNG (989 mb.)						PORT BLAIR (1001 mb.)					
Surface	29	311	304·1	309	298	282·1	29	209	295·7	300	290	281·8	29	079	300·2	301	298	205·
1000	29	77	..	..	..	..	29	107	..	..	..	..	29	081	..	..	..	..
900	29	1012	297·1	301	292	281·2	29	1014	290·0	299	283	273·3	29	1009	293·9	297	290	286·
850	29	1511	292·6	296	287	279·6	29	1497	285·7	291	278	269·4	29	1502	291·0	295	285	282·
800	29	2025	287·8	291	283	278·7	29	2003	282·2	288	273	264·9	29	2018	288·1	293	283	277·
700	29	3139	280·0	285	277	267·6	29	3095	275·2	280	267	..	29	3138	282·9	287	277	267·
600	29	4390	270·5	277	269	..	29	4323	267·4	271	258		29	4401	275·9	281	271	..
500	29	5826	264·5	270	257	..	29	5729	258·3	263	250	..	29	5855	267·3	271	264	..
400	29	7517	252·8	258	245	..	29	7380	246·4	250	237	..	29	7574	256·8	261	253	..
300	29	9580	237·6	246	230	..	29	9402	233·4	242	224	..	27	9682	242·4	247	238	..
250	29	10827	228·4	238	221	..	29	10624	227·0	235	220	..	26	10951	232·1	241	223	..
200	29	12292	218·7	229	212	..	29	12087	219·7	231	210	..	26	12425	220·4	229	211	..
175	28	13118	212·7	218	206	..	29	12947	216·7	225	208	..	25	13286	214·5	224	205	..
150	28	14078	207·8	215	200	..	28	13909	214·7	222	206	..	25	14245	207·4	214	202	..
125	27	15170	204·0	211	197	..	25	15058	211·7	218	202	..	22	15351	200·8	209	197	..
100	25	16501	200·8	206	195	..	24	16430	209·5	215	201	..	20	16700	197·8	203	191	..
80	21	17814	201·9	210	194	..	22	17803	209·7	215	203	..	14	17985	197·4	208	193	..
70	14	19530	204·7	213	198	..	21	18647	211·0	219	202	..	11	18787	204·0	215	195	..
60	11	20652	208·9	216	199	..	16	19618	213·3	223	205	..	8	19656	203·3	211	195	..
50	6	22045	213·7	219	203	..	14	20757	216·6	227	210	..	7	20772	207·0	216	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	

RADIOSONDE DATA

TABLE VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents At 12 Hours GMT.

February, 1964 (Magha 12 —Phalguna 10, 1885 Saka)

Standard Pressure Surface mb.	SRI NAGAR Surf. Pr. (842 mb.)						TRIVANDRUM (1001 mb.)						VISHAKHAPATNAM (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean.	Max.	Min.	Dew point.
Surface	14	1588	278.2	283	265	276.7	29	064	295.6	304	302	295.6	29	041	301.2	303	299	295.7
1000	14	155	..	..	..	..	29	070	..	..	..	..	29	099	..	..	..	..
900	14	1038	..	..	..	..	29	999	294.7	297	291	289.9	29	1021	294.0	298	288	283.5
850	14	1510	..	..	..	..	29	1494	291.1	293	288	286.9	29	1514	291.6	295	288	278.3
800	14	2009	274.8	279	270	..	29	2010	288.0	291	285	281.5	29	2031	288.1	292	282	279.3
700	14	3071	268.7	272	265	..	29	3132	282.9	287	279	270.0	29	3149	281.2	286	275	267.5
600	13	4276	262.1	265	259	..	29	4398	275.5	280	271	..	29	4405	274.5	279	270	..
500	13	5653	253.0	258	249	..	29	5851	267.1	270	261	..	29	5851	266.0	271	260	..
400	13	7274	241.7	248	235	..	29	7565	256.6	261	253	..	29	7554	253.9	259	246	..
300	6	9252	229.7	237	224	..	29	9666	240.9	245	237	..	29	9638	239.2	246	230	..
250	5	10445	223.6	229	215	..	29	10925	229.9	235	224	..	27	10900	230.4	237	226	..
200							28	12394	218.0	223	211	..	26	12384	219.5	227	214	..
175							27	13221	211.6	218	205	..	26	13221	214.6	221	209	..
150							27	14178	205.1	213	199	..	26	14200	208.5	216	202	..
125							27	15247	200.2	207	193	..	23	15264	203.7	211	196	..
100							25	16571	196.9	204	192	..	23	16611	200.1	205	196	..
80							25	17870	200.2	211	192	..	22	17928	199.9	208	194	..
70							19	18673	202.0	211	195	..	22	18718	201.5	211	195	..
60							18	19582	204.9	213	199	..	21	19640	203.5	213	193	..
50							14	20654	209.6	215	202	..	18	20738	206.9	215	199	..
40							8	22042	211.9	218	205	..	12	22044	208.1	213	203	..
30							6	23857	214.8	222	208	..	10	23808	212.0	216	206	
20																		
10																		

NOTE.—Number of observations refer to those of dynamic height.

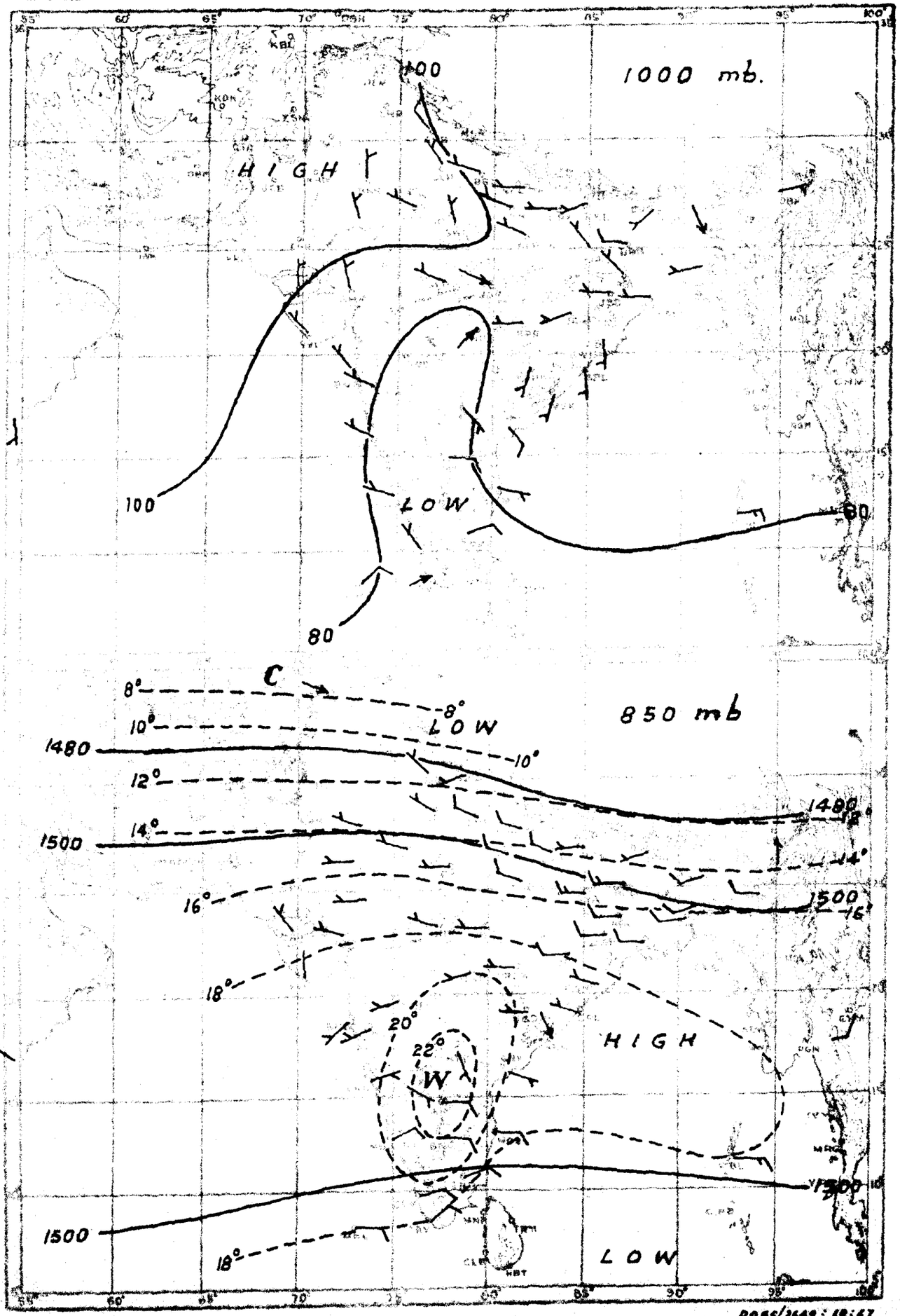
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

Means are not worked out for less than five observations at standard pressure surfaces.

HPN—83—408 D.D.G. Obs. Poona/67—5-7-68—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. — FEBRUARY 1964 — Plate I

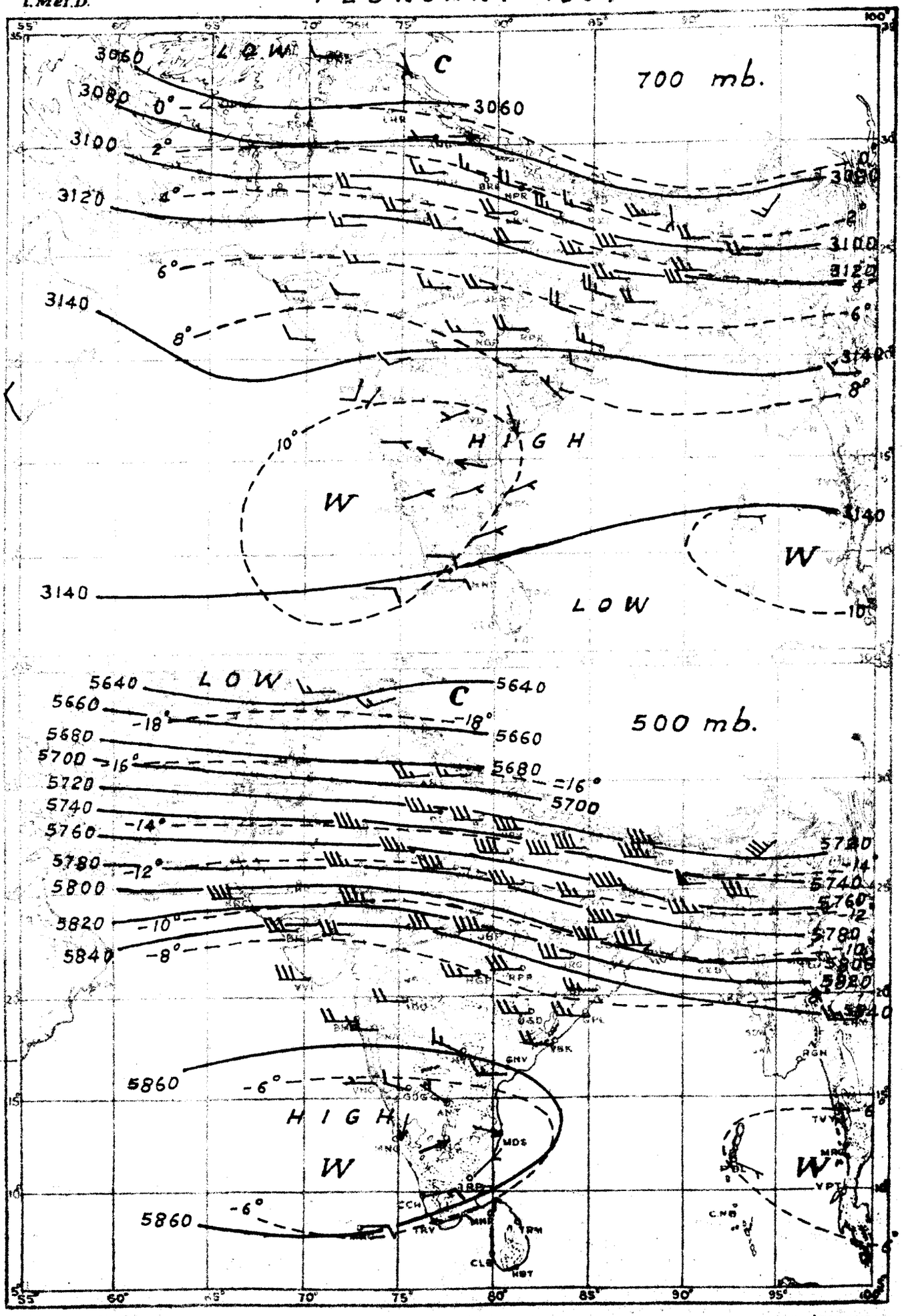


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. FEBRUARY 1964 Plate II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

MARCH

Published by authority of the Government of India

Chief features :

(i) Movement of seven western disturbances across north India causing spells of precipitation there; and

(ii) Good thundershower activity over northeast India and extreme south Peninsula during the second half of the month.

During the month seven western disturbances moving across north India affected the weather over the various parts of north India. The first western disturbance was fairly active and caused good precipitation in the Western Himalayas and the plains of the Punjab (I) on 3rd and 4th. This was followed by two feeble disturbances in succession during the period 5th to 12th and they moved away eastwards across the Western Himalayas, after causing a few light showers of rain or snow in Jammu and Kashmir. The fourth western disturbance was also feeble and it became unimportant over Uttar Pradesh on 17th. In association with it a few light showers occurred in the Western Himalayas on 17th. The last three western disturbances of the month were fairly active and caused spells of thunders howers over most parts of northwest India and Uttar Pradesh. They followed a more southerly course across the Gangetic plains, and affected the weather over the central parts of the country, north Peninsula and northeast India. The last western disturbance was lying over northeast Rajasthan and the adjoining Punjab (I) on 31st. The details regarding the movement and activity of the various disturbances are given in the following statement.

Statement showing the movement and activity of western disturbances during March, 1964

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1.	2nd - 4th	Northern divisions of West-Pakistan—The	Jammu and Kashmir.	Fairly Widespread/Local rain or snow.	3rd, 4th	
		Punjab (I) Western Himalayas.	Punjab (I)	Scattered rain.	3rd, 4th	
2	5th - 6th	West Pakistan and adjoining Rajasthan—Jammu and Kashmir.	Jammu & Kashmir	Scattered rain or snow	6th	Feeble upper air trough.
3.	9th - 12th	West Pakistan—Rajasthan—West Uttar Pradesh	Jammu and Kashmir.	Scattered light rain or snow	9th, 10th	
4	15th - 17th	West Pakistan and adjoining Rajasthan—Uttar Pradesh	West Uttar Pradesh.	Scattered light rain or snow	17th	
5.	17th - 22nd	West Pakistan—Rajasthan Uttar-Pradesh—Assam.	Jammu and Kashmir.	Fairly widespread/Scattered rain or snow	19th, 20th	Caused increase seasonal thunder shower activity over northeast India from 20th to 22nd.
			Himachal Pradesh	Local rain.	20th,	
			Punjab (I).	Scattered/Local Rain or snow	19th, 20th	
			West Uttar Pradesh	Local Rain or snow	19th, 20th	
6.	22nd - 28th	Baluchistan—Rajasthan—Uttar Pradesh	Jammu and Kashmir	Local/Scattered rain or snow	25th,26th	
			Himachal Pra .	Local rain.	26th	
			Punjab (I).	Scattered rain.	26th, 27th	
			Uttar Pradesh	Scattered/Local rain or snow	26th, 27th	
7.	29th - 4th April	Baluchistan—Rajasthan and adjoining Punjab	West Rajasthan.	Scattered rain.	31st	
		(I)—Uttar—Pradesh Assam	Himachal Pradesh.	Local rain.	31st	

The seasonal trough of low pressure which appeared over the Peninsula during the last week of February was active at the beginning of the month leading to thundershowers at a few places in Orissa and the central parts of the country. Chandbali recorded 5cm of rain on 2nd. Mainly dry weather prevailed thereafter over the central parts of the country and also over Peninsula outside the extreme southern parts where spells of thundershowers occurred in association with the movement of a few troughs in the low level easterlies.

A trough of low pressure lying over Ceylon on 1st moved away westwards across Maldive area by 3rd. Another feeble trough of low pressure also moved across the Comorin Maldive areas during the period 5th to 6th. Under their influence, spells of thundershowers occurred in the extreme south Peninsula during the first week, the activity being more marked in Kerala on 3rd and 4th.

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The next two troughs of low pressure appeared over the extreme southwest Bay of Bengal and moved away westwards across Maldive area during the periods 11th-13th and 15th-16th respectively, causing a few thundershowers over the extreme south Peninsula.

During the second half of the month there was a general increase in the seasonal thundershower activity over the Peninsula and northeast India presumably due to the more southerly course of the western disturbances. Kailashahar recorded 7cm of rain on 18th and 5cm on 24th and North Lakhimpur 6 cm on 28th. A trough of low pressure which appeared over the Comorin area on 20th persisted there till the 24th and later moved away westwards. In association with it there was good thunder shower activity over the Peninsula. Punalur recorded 8cm of rain on 22nd. Incursion of moist air from the Bay of Bengal in to the Peninsula continued till the end of the month resulting in spells of thundershowers. Belgaum recorded 5cm of rain on 26th and Coonoor 9cm on 29th.

Day temperatures were generally above normal over northwest India, Uttar Pradesh and central parts of the country till 25th and also towards the end of the month and over Gujarat State during the second week when they were appreciably to markedly above normal over all the above areas. They were also above normal over northeast India on most of the days during the first fortnight, being appreciably to markedly so on a few days. Over the Peninsula also day temperatures were above normal during the first and third weeks, particularly over the northern parts. They were below normal over the south Peninsula on 11th and 12th and also from 20th to 22nd, over the central parts of the country on 25th and 26th and over north-West India and Assam and West Bengal during the period 18th to 20th.

The rainfall for the month was in large excess in Marathwada and Kerala, in moderate excess in Madhya Maharashtra and north Interior Mysore and normal in Assam and the Madras State. It was in slight defect in west Madhya Pradesh and in large defect over the rest of the country outside Himachal Pradesh except the Bay Islands, east Rajasthan, Gujarat State, the Konkan, Rayalaseema and coastal Mysore where there was no rain.

The mean maximum temperature was normal in Assam, Saurashtra and Kutch, the Konkan, Marathwada, coastal Andhra Pradesh, Rayalaseema, the States of Madras and Mysore, Kerala and the Arabian Sea Islands and above normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in West Bengal, Rajasthan, Madhya Pradesh, Gujarat Region, Vidarbha, Telangana and north Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Saurashtra and Kutch and below normal in east Madhya Pradesh and Marathwada. It was normal over the rest of the country outside Himachal Pradesh.

The Mean cloud amount in the morning was above normal in the Bay Islands, Telangana, the Madras State and Kerala and normal in Assam, Orissa, the Punjab(I), Jammu and Kashmir, east Rajasthan, Saurashtra and Kutch, Madhya Maharashtra, coastal Andhra Pradesh, Rayalaseema, coastal and north Interior Mysore and the Arabian Sea Islands. It was below normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rain fall in 24 hrs for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST. of the date given in the succeeding column.

Poona 5;
The 22nd July, 1965

R. ANANTHAKRISHNAN,
for *Director General of Observatories.*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C	Relative Humidity % 0830 hrs. IST.	Relative Humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	74·8	93	29·7	16·3	68	55	3·0	3·1
	—5·7		+0·9	+0·9	—3		—0·2	
2. West Bengal	13·3	45	34·5	20·5	59	42	1·1	1·3
	—16·5		+1·7	+1·2	—3		—1·1	
3. Orissa	10·7	43	35·2	22·2	65	53	1·8	2·1
	—14·0		+1·2	+0·7	—1		—0·2	
4. Bihar	1·7	12	34·6	17·5	49	33	0·7	0·9
	—13·0		+2·0	+0·3	+1		—0·8	
5. Uttar Pradesh	1·4	11	34·3	15·9	46	25	0·9	1·2
	—11·1		+2·5	+0·7	—4		—0·6	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*.	3·9	15	31·4	13·5	52	30	2·3	2·4
	—21·3		+2·5	0	—4		—0·1	
7. Jammu and Kashmir.	17·3	24	17·0	4·7	65	47	4·0	4·3
	—56·1		+1·5	+0·7	+2		—0·2	
8. Rajasthan	0·5	8	35·0	17·7	38	19	1·3	1·4
	—5·9		+3·0	+1·7	—5		—0·3	
Sub-Division								
1. Bay Islands	0	0	32·7	22·9	67	73	3·5	3·7
	—28·5		+1·9	+1·0	—5		+0·6	
2. Assam (including Manipur, Tripura).	74·8	93	29·7	16·3	68	55	3·0	3·1
	—5·7		+0·9	+0·9	—3		—0·2	
3. Sub-Himalayan West Bengal.	11·7	37	32·4	17·0	54	37	0·8	1·0
	—19·9		+1·7	+1·2	—5		—0·9	
4. Gangetic West Bengal.	13·9	48	35·1	21·5	60	43	1·1	1·4
	—15·2		+1·7	+1·2	—3		—1·1	
5. Orissa	10·7	43	35·2	22·2	65	53	1·8	2·1
	—14·0		+1·2	+0·7	—1		—0·2	
6. Bihar Platean	3·3	14	35·1	17·9	45	26	0·8	1·2
	—20·2		+2·4	0	—1		—0·8	
7. Bihar Plains	0·9	8	34·2	17·3	52	37	0·6	0·7
	—9·7		+1·6	—0·6	+2		—0·8	
8. Uttar Pradesh, East	0·6	5	34·8	16·3	45	26	0·9	1·1
	—10·3		+2·4	+0·5	—5		—0·5	
9. Uttar Pradesh, West	2·8	18	33·1	15·3	48	24	1·0	1·5
	—12·5		+2·7	+1·0	—3		—0·8	
10. Punjab (India) (including Delhi).	3·9	15	31·4	13·5	52	30	2·3	2·4
	—21·3		+2·5	0	—4		—0·1	
11. Himachal Pradesh	8·9	..	27·9	8·9	72	35	1·4	1·7
	..		..	..	..		..	
12. Jammu and Kashmir	17·3	24	17·0	4·7	65	47	4·0	4·3
	—56·1		+1·5	+0·7	+2		—0·2	
13. Rajasthan, West	1·1	14	34·9	17·8	44	23	1·0	1·1
	—6·9		+3·1	+2·0	—5		—0·8	
14. Rajasthan, East	0	0	35·0	17·6	34	16	1·5	1·6
	—5·0		+3·0	+1·5	—4		+0·1	
15. Madhya Pradesh West	6·9	82	35·7	17·7	34	18	0·9	1·5
	—1·5		+2·1	+1·1	—3		—0·5	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C.	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
9. Madhya Pradesh	4·4	33	35·7	18·0	36	19	0·9	1·6
	—8·9		+2·2	+1·2	—5		—0·5	
10. Gujarat State	0	0	35·4	19·6	65	39	1·0	0·8
	—1·4		+1·3	+0·8	+4		—0·2	
11. Maharashtra State	4·0	68	35·7	20·6	47	30	0·9	1·5
	—1·9		+1·1	+0·7	—2		—0·4	
12. Andhra Pradesh	1·2	14	36·6	23·1	66	40	2·2	1.5
	—7·6		+0·9	+0·8	+2		+0·2	
13. Madras State	15·3	96	33·7	23·9	74	53	3·5	3·0
	—0·6		+0·1	+1·0	—1		+0·9	
14. Mysore	4·5	52	34·8	21·5	61	35	1·3	2·4
	—4·1		+0·5	+0·8	0		—0·2	
15. Kerala	74·2	171	32·9	25·0	77	69	3·5	3·9
	+30·7		+0·8	+0·1	+1		+0·9	
Sub-Division								
16. Madhya Pradesh (East)	1·3	7	35·8	18·5	39	21	0·9	1·7
	—18·3		+2·3	+1·2	—8		—0·6	
17. Gujarat Region	0	0	38·0	19·7	52	20	0·7	0·6
	—1·1		+1·7	+1·1	0		—0·4	
18. Saurashtra and Kutch	0	0	33·8	19·6	71	49	1·1	0·8
	—1·5		+1·0	+0·6	+7		—0·1	
19. Konkan	0	0	30·8	22·1	74	65	1·0	0·8
	—0·6		+0·3	+0·1	+3		—0·6	
20. Madhya Maharashtra	4·7	127	37·6	18·8	39	19	1·0	1·8
	+1·0		+1·3	+0·7	—3		0	
21. Marathawada	21·9	353	37·1	20·3	27	17	0·9	1·6
	+15·7		+0·9	+0·6	—9		—0·3	
22. Vidarbha	2·9	21	37·7	21·5	37	19	0·8	1·7
	—11·2		+1·5	+1·1	—4		—0·7	
23. Coastal Andhra Pradesh	0·1	1	35·1	23·4	76	55	2·3	1·3
	—9·1		+0·8	+0·5	+2		—0·1	
24. Telangana	3·4	32	37·7	22·6	59	24	2·7	1·7
	—7·1		+1·3	+1·2	+1		+0·9	
25. Rayalaseema	0	0	38·0	23·2	55	31	0·9	1·7
	—4·6		+0·3	+0·7	+4		—0·1	
26. Madras State	15·3	96	33·7	23·9	74	53	3·5	3·0
	—0·6		+0·1	+1·0	—1		+0·9	
27. Coastal Mysore	0	0	31·9	23·1	77	67	2·2	2·7
	—2·0		+0·2	—0·2	0		0	
28. Interior Mysore, North.	11·3	147	36·6	22·3	48	25	1·3	2·3
	+3·6		+0·7	+1·2	—1		+0·2	
29. Interior Mysore, South	0·5	4	34·5	20·2	65	28	0·9	2·4
	—11·6		+0·5	+0·9	+1		—0·7	
30. Kerala	74·2	171	32·9	25·0	77	69	3·5	3·9
	+30·7		+0·8	+0·1	+1		+0·9	
31. Arabian Sea Islands	5·2	39	32·1	25·3	77	69	2·9	3·1
	—8·0		+0·9	+0·1	+4		+0·3	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	31·8	..	33·3	16	23·3	..	21.2	2,3	0	0	..	0	..	0	..	10·6	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Long Island	31·4	..	32·8	8,30	22·2	..	20·0	7	0	0	..	0	..	0	..	6·7	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Port Blair	32·7	+1·9	34·9	7	22·9	+1·0	20·3	9	0	0	−28·5	0	..	0	−2.1	7·9	5·7	−3·8	0	0	0	0	3	10	0	0	0	0	0
Car Nicobar	31·4	..	32·3	22,26	23·5	..	18·8	5	42·7	50·5	..	39·2	27	3	..	9·2	5·3	..	1	5	0	0	1	0	0	0	0	0	0
Nancowry	33·3	..	34·8	23	25·3	..	23·2	5,6	0	8·4	..	7·0	1	1	..	0·9	0·5	..	0	2	0	0	4	0	0	0	0	0	0
Kondul	29·2	..	30·6	21	25·2	..	22·6	5	9·8	18·6	..	8·4	26	2	..	..	..	..	0	4	0	0	4	0	0	0	0	0	0
Assam including Manipur and Tripura).																													
Pasighat	25·2	..	30·9	31	15·8	..	13·2	15	3·2	81·1	..	21.3	22	8	..	10 6	14·5	..	2	13	0	0	3	0	0	0	0	0	0
Dibrugarh (Mohanbari).	26·2	+0·6	31·3	17	13·0	−1·6	9·4	9	15·7	143·1	+40·0	44·5	28	9	+0·5	8·3	5·3	+1·1	2	13	0	0	1	0	0	0	0	0	0
Digboi*																													
North Lakhimpur.	26·8	−0·3	30·8	12, 17,25	15·7	+0·7	11·9	9	0·7	116·4	+4·8	59·0	28	7	+0·7	8·3	5·5	..	2	12	0	0	8	0	0	0	0	0	0
Sibsagar	27·2	+1·0	31·1	17	16·3	+0·7	12·6	9	10·5	52·9	−58·9	14·1	20	6	−2·5	7·4	4·7	+0·8	0	15	0	0	9	12	0	0	0	0	0
Gohpur	27·7	..	31·8	17	15·7	..	11·1	3,10	11·0	55·6	..	16·4	22	4	..	9·1	6·1	..	0	6	0	0	5	0	0	0	0	0	0
Majbat	30·2	..	33·3	17,19	16·3	..	12·6	4	34·8	82·4	..	34·8	18	5	..	6·4	4·3	..	0	7	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome)	28·0	..	31·8	17,31	16·0	..	12·6	11	8·2	44·0	..	14.3	22	5	..	..	..	..	0	5	0	0	12	0	0	0	0	0	0
Tangla	30·0	..	33·5	17	15·9	..	12·4	10	25·0	8[illegible]·2	..	40·0	20	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Tezpur	29·6	+1·0	34·2	14	17·6	+0·8	14·8	6	29·2	65·8	+17·0	28·4	18	6	+1·5	10·8	9·3	+4 0	0	9	0	1	3	0	0	0	0	0	0
Golaghat	28·4	..	32·8	17	15·9	..	12·8	,9,10	4·0	29·6	..	14·8	22	4	..	(f) 5·0	4·0	..	0	5	0	0	0	0	0	0	0	0	0
Rangia	30·5	..	33·9	17	17·4	..	14·3	4	23·8	52·2	..	25·0	20	3	..	10·2	7·8	..	0	4	0	0	0	0	0	0	0	0	0
Chaparmukh (R)																													
Goalpara.	31·4	..	34·6	17	16·7	..	10·5	8	32·4	112·2	..	26·2	20	6	..	7·1	5·2	..	0	6	0	0	0	0	0	0	0	0	0
Gauhati	30·6	+0·7	34·8	20	17·4	+1·7	13·7	1	..	31·1	−19·4	14·5	18	4	+0·2	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	30·5	+0·6	33·7	17	16·2	+2·5	11·4	1	27·9	74·2	+23·7	26·5	23	6	+2·2	9·1	5·7	..	0	7	0	1	11	0	0	0	0	1	0
Dhubri (Rupsi)	32·2	..	35·5	29	17·6	..	12·2	1	25·5	31.9	..	14·1	18	3	..	11·9	9·4	..	0	3	0	1	5	0	0	0	0	0	0
Dhubri	31·2	+1.2	35.0	29	19.1	+1.8	15.7	6	45.8	78·2	+36.0	29.6	18	4	+1.5	13.3	11.3	+4.1	0	4	0	0	0	0	0	0	0	0	0
Lumding	33.2	+3.1	35.6	17	15.8	+1.2	11·0	10	75.8	118·6	+72.9	42.0	29	6	+1.7	7.5	5.5	..	0	7	0	0	0	0	0	0	0	0	0
Tura	31.2	..	34.3	15	16.6	..	12.2	4	6.9	19.2	..	6.2	21	1	..	4.5	6.7	..	1	4	0	1	1	0	0	0	0	0	0
Haflong	27.3	..	30.6	27	16.8	..	12.6	18	2.4	71.1	−37.4	22.1	22	5	−2.2	..	..	..	0	7	0	0	4	0	0	0	0	0	0
Silchar (Kumbhirgram)	31.0	..	35.2	14	17.7	..	14.4	10	9.3	180.4	..	45.5	28	8	..	6.8	9.1	..	0	11	0	3	12	1	0	0	0	1	0
Silchar	29.1	−1.2	32.2	27	18.4	+1.2	14·8	10	7.0	67.6	−104.1	21.4	4	8	−0.1	3.2	2.3	−0.8	0	13	0	0	13	0	0	0	0	0	0
Imphal (Tulihal)	28.2	+1.4	32.4	27	10.9	+0.5	6.4	9	18.0	43.0	−8.2	16.2	28	6	+2.1	12.6	7.3	−0.3	0	9	0	0	11	0	0	0	0	0	0
Kailashahar	32.3	..	35.3	15	18.6	..	12.6	9,10	82.8	172.4	..	68.8	18	6	..	8.4	5.6	..	0	9	0	4	7	0	0	0	0	1	0
Agartala	33.9	+1.3	36.4	14	19.4	+0.8	12.4	9	0	35.8	−35.1	17.2	8	3	−1.0	10.5	7.9	+1.1	0	4	0	1	8	0	0	0	0	1	0
Sub-Himalayan West Bengal																													
Baghdogra	31.2	+0.9	33.9	17,27	15.6	+0·3	11.0	1	2.7	24.1	−8.7	21.4	20	2	−0.5	13·2	10.5	+3.6	0	2	0	1	1	0	0	0	0	1	0
Jalpaiguri	31·6	+2.0	37.3	1	16.6	+0.9	9.1	7	10.4	10.4	−21.9	10.4	21	1	−1.3	11.9	7.3	+4.4	0	1	0	0	1	0	0	0	0	0	0
Cooch Behar	31.9	..	34.5	29	17.2	..	12.5	1	10.2	12.5	−29.2	10.2	21	1	−1.5	9.5	6.3	..	0	2	0	0	5	0	0	0	0	0	0
Balurghat	34.6	..	38.0	29	17.4	..	12.1	3	4.6	4.6	..	4.6	21	1	..	7.3	4.5	..	0	1	0	0	0	0	0	0	0	0	0
Malda	34.5	+2.2	37.3	18	18.9	+2.5	14.4	3,8	0	0	−19.6	0	..	0	−1.3	7·8	6.4	+0.4	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	35.7	+2.3	39.1	14	19.1	+0.6	11.1	4	1.5	8.5	−17.9	6.0	22	1	−0.9	3.1	1.8	−1.7	0	3	0	0	0	2	0	0	0	0	0
Suri	35.5	..	38.8	29	20.2	..	16.1	9	..	22.4	..	12.2	25	2	..	..	7.1	..	0	2	0	0	0	0	0	0	0	0	0
Asansol	36.1	+1.8	38.9	18	18.6	−0.2	15.0	1,9	0.5	7.1	−13.7	4.3	20	1	−0.8	10.0	5.8	−1.0	0	3	0	0	3	0	0	0	0	1	0
Shanti Niketan.	35.9	..	38.9	29,31	19.4	..	15.1	9	3.6	8.2	..	4.6	20	2	..	10.1	7.6	..	0	2	0	0	4	1	0	0	0	1	0
Krishnanagar	36.6	+2.9	40.0	30	20.8	+2.1	15.0	9	4.0	13.4	−25.2	7.4	20	2	−0.1	3.1	2.2	−2.5	0	2	0	0	2	0	0	0	0	0	0
Purulia	35.0	+1.1	37.8	18,31	20.6	+0.6	17.7	4days	10.9	10.9	−8.3	7.4	20	2	0	7.6	5.0	+0.4	0	2	0	0	0	0	0	0	0	0	0
Bankura	36.8	..	40.0	15	19·5	..	15.3	10	0	41.7	+14.0	24.2	20	3	+1.1	2.1	1.6	..	0	3	0	0	0	0	0	0	0	0	0
Burdwan	36.3	+2.2	39.0	29	21.7	+2·0	16.2	9,10, 11	1.8	9.8	−29.8	8.0	20	1	−1.3	7.9	6.4	+3.2	0	2	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	35.1	..	38.2	30	21.2	..	14.9	9	0	6.4	..	5.3	21	1	..	..	..	..	0	2	0	0	5	6	0	0	0	0	0
Calcutta (Dum Dum).	35·1	+1.4	37.6	4days	21.4	+0.9	15.3	9	3.8	11.0	−18.1	6.6	21	2	−0.5	9.2	7.1	−1.5	1	2	0	0	4	7	0	0	0	0	0
Calcutta	35.9	+2.3	38.3	14,31	22.8	+2.4	17.7	9	20.6	30.2	−4.3	24.6	21	2	−0.3	11.1	6.7	+1.1	0	3	0	0	4	0	0	0	0	2	0
Midnapore	36.7	+1.6	39.6	18	22.0	+1.2	17.9	10	2.2	17.1	−18.7	17.1	21	1	−1.4	6.8	6.3	+2.1	0	1	0	0	0	0	0	0	0	0	0
Contai	33.2	+0.7	37.3	15	23.2	+1.0	18.4	10	2.8	2.8	−12.7	2.8	2	1	−0.4	13.8	9.3	−1.6	0	1	0	0	0	0	0	0	0	0	0

*Temporarily closed (f) Mean 25 days. (R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885–CHAITRA 11, 1886 (SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd.*)																													
Sagar Island	30.6	+0.3	34.7	16	25.1	+1.7	21.1	10	0	0	—32.8	0	..	0	—1.8	22.9	21.7	+6.3	0	0	0	0	0	1	0	0	0	0	0
Sandheads	30.2	..	34.6	7,27	25.8	..	22.2	2	0	6.8	—14.0	6.8	2	1	0	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Orissa																													
Baripada	37.7	..	40.5	18	20.6	..	16.7	7	0	3.4	..	2.2	22	0	..	5.1	3.5	..	0	2	0	0	8	1	0	0	0	0	0
Jharsuguda	37.1	+2.3	39.7	20	19.1	+0.5	13.6	11	0	3.9	—27.1	3.9	22	1	—1.5	8.9	6.1	—1.0	0	1	0	0	2	0	0	0	0	0	0
Keonjhargarh	35.0	..	37.7	20	19.8	..	16.2	9	0	12.0	..	12.0	22	1	..	9.1	5.9	..	0	1	0	0	0	0	0	0	0	0	0
Balasore	35.6	+1.9	38.3	27,30	21.1	+0.3	17.4	9	3.7	9.1	—37.6	3.1	22	1	—1.9	13.5	10.3	+4.0	0	6	0	0	6	1	0	0	0	0	0
Sambalpur	37.0	+1.6	40.8	30	..	..	..	..	0	0	—21.8	0	..	0	—1.7	3.0	3.0	—1.0	0	0	0	0	0	0	0	0	0	0	0
Angul	36.8	+1.4	39.6	31	20.7	+0.6	16.9	10	4.0	7.0	—11.5	4.0	20	2	+0.3	5.7	6.2	—0.4	0	2	0	0	0	0	0	0	0	0	0
Cuttack	37.2	+1.3	40.1	28	23.7	+1.6	19.7	12	0.2	0.2	—26.2	0.2	4	0	—1.4	7.9	6.6	+2.7	1	0	0	0	3	3	0	0	0	0	0
Chandbali	35.1	+0.9	39.0	20	21.3	—0.2	18.5	7	52.0	60.8	+28.0	52.0	2	2	—0.1	13.3	10.1	+0.4	0	2	0	0	0	0	0	0	0	0	0
Bolangir	37.6	..	40.1	25,29	22.2	..	15.8	9	0	1.0	..	1.0	27	0	..	5.0	6.8	..	0	1	0	0	1	0	0	0	0	0	0
Phulbani	34.8	..	37.5	25,31	15.9	..	8.9	11	10.0	10.0	..	10.0	20	1	..	6.5	2.9	..	0	1	0	0	0	0	0	0	0	0	0
Titlagarh	37.9	..	40.3	31	22.6	..	17.9	7	0	2.4	..	2.4	22	0	..	3.7	2.6	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	36.4	+1.3	39.4	5	23.1	+0.8	19.5	13	10.4	10.4	—6.4	10.0	24	1	—0.3	17.9	16.3	—0.8	0	2	0	0	3	3	0	0	0	2	0
Puri	30.4	+0.2	32.4	9	25.8	+1.6	22.7	11	0	0	—12.7	0	..	0	—0.9	24.1	20.6	+3.5	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	30.9	+0.3	32.4	12,14	22.9	+0.2	18.9	12	0	0	—16.0	0	..	0	—1.1	21.5	17.7	+1.9	0	0	0	0	3	2	0	0	3	4	1
Koraput (R)																													
Bihar Plateau																													
Dumka	35.6	+2.4	38.8	29	18.7	+0.6	13.8	1	0	0.3	—22.8	0.3	20	0	—1.6	8.4	5.1	+2.0	0	1	0	0	1	0	0	0	0	0	0
Daltonganj	32.3	—0.6	33.4	15	18.4	+2.9	15.3	3	0	0	—17.0	0	..	0	—1.2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	32.1	+1.2	35.2	19	17.5	+0.2	13.2	9	0	0	—23.9	0	..	0	—1.9	12.7	8.8	—1.5	0	0	0	0	3	0	0	0	0	0	0
Dhanbad	35.4	..	38.2	29	..	..	..	..	6.8	6.8	..	4.8	22	1	..	4.8	5.2	..	0	2	0	0	3	1	0	0	0	0	0
Ranchi	34.1	+3.6	35.9	30	14.8	—2.6	12.6	11,14	10.0	14.0	—16.2	12.0	21	1	—1.5	8.3	6.8	—0.6	0	2	0	0	2	0	0	0	0	0	0
Ranchi (Aerodrome)	32.3	..	35.2	31	17.8	..	15.2	10	6.5	12.7	..	10.4	21	1	..	12.6	9.0	..	0	2	0	0	4	0	0	0	0	0	0
Jamshedpur	36.7	+2.3	38.9	19	19.4	+1.2	14.9	7	0	2.2	—16.1	2.2	21	0	—2.0	9.0	6.0	+1.7	1	1	0	0	2	0	0	0	0	0	0
Jamshedpur (P.B.O.)	36.3	..	38.8	18	19.6	..	14.8	9	0	2.4	..	2.2	21	0	..	9.3	5.4	..	0	1	0	0	3	0	0	0	0	0	0
Chaibasa	37.1	+2.5	40.0	31	19.3	+0.5	15.5	10	0	0	—22.1	0	..	0	—1.7	5.1	3.2	0	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	..	..	..	..	15.4	+0.9	11.0	3	0	4.2	—8.3	4.2	20	1	+0.1	4.5	2.4	—2.4	0	1	0	0	1	0	0	0	0	0	0
Forbesganj	33.0	..	35.7	14	16.5	..	11.1	6	0.4	19.8	..	19.4	20	1	..	10.8	6.7	..	0	2	0	1	1	0	0	0	0	0	0
Darbhanga	33.4	+1.8	36.7	19	18.0	+2.2	13.9	1	0	0	—12.9	0	..	0	—1.1	6.0	4.0	—0.3	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	—9.7	0	..	0	—0.9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	34.5	..	38.3	18	18.3	..	13.3	1	0	0	—9.1	0	..	0	—0.9	4.0	4.1	..	0	0	0	0	0	0	0	0	0	0	0
Purnea	33.8	+1.9	37.1	29	16.0	+0.8	10.0	3	0	6.0	—6.7	6.0	20	1	—0.1	8.7	4.9	+0.4	0	1	0	0	0	0	0	0	0	0	0
Patna	34.4	+2.3	37.2	18,31	19.1	+1.2	14.0	1	0	0	—10.7	0	..	0	—1.1	8.0	6.9	+1.3	0	0	0	0	0	0	0	0	0	0	0
Patna Aerodrome	33.7	..	37.2	18	16.5	..	12.3	1,8	0	0	..	0	..	0	..	10.1	4.5	..	0	0	0	0	0	0	1	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	—9.7	0	..	0	—0.9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	34.3	+1.3	37.3	25	19.0	—0.1	15.5	8	0	0	—5.6	0	..	0	—0.7	10.2	6.3	—1.4	0	0	0	0	0	1	0	0	0	0	0
Sabaur	33.7	+1.1	37.2	29, 30,31	15.1	0	9.4	1	0	0	—10.7	0	..	0	—0.9	10.3	5.5	—2.9	0	0	0	0	0	0	0	0	0	0	0
Jamui	35.0	..	38.6	18	17.3	..	10.5	3	0	0	..	0	..	0	..	6.5	4.2	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	34.8	..	38.6	18	19.3	..	15.0	9	0	0	—11.2	0	..	0	—1.0	9.6	6.5	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	34.9	+1.7	37.8	31	16.5	—0.8	..	..	0	0	—12.5	0	..	0	—1.2	11.9	7.2	—0.4	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri	34.2	+2.4	37.4	31	16.5	+0.5	11.0	2	0	0	—18.7	0	..	0	—1.9	7.4	3.8	—0.1	0	0	0	0	2	0	2	0	0	0	0
Baharaich	34.9	+3.4	39.2	31	16.2	+1.4	10.1	2	0	1.4	—8.5	1.4	27	0	—0.8	10.1	6.5	+2.0	0	1	0	0	0	0	0	1	0	0	0
Nautanwa	34.0	..	37.6	31	14.4	..	10.0	1	0	5.8	..	5.8	27	1	..	8.7	4.7	..	0	1	0	0	0	0	0	0	0	0	0
Hardoi	33.8	+1.8	38.0	31	15.2	—0.5	7.0	1	0	0	—17.5	0	..	0	—2.0	10.4	6.9	+0.7	0	0	0	0	0	0	0	0	0	0	0
Gonda	34.3	+2.1	38.3	31	14.9	—0.2	9.2	2	0	0	—4.6	0	..	0	—0.8	8.2	6.1	—1.3	0	0	0	0	0	0	0	0	0	0	0
Lucknow	34.3	+1.6	38.5	31	17.2	+1.3	12.4	1	0	0	—8.6	0	..	0	—0.9	3.6	3.1	—0.8	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	34.7	+2.4	39.0	31	14.5	+0.4	10.2	3	0	0	—8.6	0	..	0	—0.9	1.4	8.9	..	0	0	0	0	0	0	1	0	0	0	0
Faizabad	34.3	..	38.4	31	14.4	..	9.3	3	0	0	..	0	..	0	..	6.5	3.5	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	35.3	+3.1	39.0	31	17.7	+1.4	12.1	3	0	0	—9.9	0	..	0	—0.8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kanpur	34.8	+2.9	39.1	19,31	..	..	..	..	0	0	—7.4	0	..	0	—0.8	18.0	11.7	+2.0	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	35.3	..	39.4	31	16.8	..	11.7	1,2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	2	0	0	0	0	0	0

(R) Register not received

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(*Cont d.*)																													
Sultanpur	35.4	..	40.0	19	16.7	..	12.0	1	0	0	..	0	..	0	..	8·0	6.0	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	34.8	..	38.9	31	17.0	..	13.1	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	35.6	+2.7	39.9	19	16.7	+1.0	11.1	2	0	2.6	—4.5	2.6	27	1	+0.1	11.9	6.4	+0.9	0	1	0	0	2	0	0	0	0	0	0
Ballia	34.3	..	38.0	18	14.7	..	10.6	1	0	0	..	0	..	0	..	8.2	4.8	..	0	0	0	0	0	0	0	0	0	0	0
Banda	36.6	..	40.2	19	14.3	..	9.6	1·2	0	0	..	0	..	0	..	5.8	2.8	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli).	35.8	+2.6	39.6	31	17.4	+1.3	12.4	2	0	2.8	−11.4	2.8	27	1	−0.3	8.3	4.9	—1.2	0	1	0	0	1	0	1	0	0	1	0
Varanasi (Babatpur).	35.2	+1.9	38.7	19,31	16.1	−0.8	11.0	1	0	0	−13.9	0	..	0	—1.4	15.8	9.9	−0.4	0	0	0	0	0	0	0	0	0	0	0
Varanasi	35.1	+2.0	38.7	19	16.4	0	12.5	15	0	0	—9.4	0	..	0	−0.9	8 0	5.6	0	0	0	0		0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Muklim	20·4	..	26·6	30	9·5	..	4·8	20	31·9	44·6	..	18·8	20	4	..	..	..	..	0	6	0	0	5	2	0	0	0	0	0
Tehri	31·0	..	34·9	15	11·4	..	7·9	2	14·2	18·0	..	11·1	20	2	..	2·5	1·7	..	0	4	0	0	3	0	0	0	0	0	0
Dehra Dun	29.4	+3.1	32.7	26	13.0	+0.7	9.0	8	10·4	13.6	—18.4	10·3	20	2	—0.7	4.8	4.2	+0.8	0	2	0	0	1	0	0	0	0	0	0
Mussiari	17·1	..	22·3	15	7·4	..	3·4	20	..	75·3	..	40 2	20	5	..	..	..	..	1	7	..	.	..	..	..	..	..	..	..
Roorkee	32.2	+3.4	35.5	31	12.3	−0.5	8.0	1,2	5.6	6.9	—12.9	5·6	20	1	−0.6	..	5.6	+1.6	0	3	0	0	3	0	0	0	0	0	0
Najibabad	32.9	..	36.4	26	13.0	..	6.7	2	21.6	22.1	..	21·6	20	1	..	8.4	6.8	..	0	1	0	1	3	0	0	0	0	0	0
Meerut	32.3	+2.4	35.5	25,26, 31	14.8	+0.8	9.0	1	..	1.6	—13.6	−1.6	20	0	−1.4	..	8.3	..	0	0	0	0	4	0	0	0	0	0	0
Bareilly	33.9	+3·3	37.7	31	16.7	+1.9	12.5	2,3	0	0	—15.5	0	..	0	—1.3	14.2	8·7	+4.7	0	0	0	0	0	0	1	0	0	0	0
Aligarh	..	..	..	..	15.2	+0.5	10.0	2	0	0	—14.5	0	..	0	—1.3	20.7	13.9	+7.0	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	34.8	+2 6	39.2	30,31	..	..	..	..	0	0	—8.6	0	..	0	−0.8	5.8	4.7	+0.8	0	0	0	0	0	0	0	0	0	0	0
Agra	34.4	+2.8	39.0	31	17.0	+2.4	11.5	5	0	0	−8.1	0	..	0	−0.8	6.4	3.5	—2·5	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome).	35.0	..	38.4	17	15.4	..	10·1	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Orai	35.3	..	39.0	17,19 31	17.8	..	13·1	3	0	7.4	.	6.4	27	1	..	8.1	6.7	..	0	2	0	0	0	0	0	0	0	0	0
Jhansi	35.8	+2.2	39.8	31	17.9	+1.2	12.0	2	0	0	−8.4	0	..	0	—0.8	9.2	5·0	—0.1	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	29.2	+2.1	34.0	30	13.7	+0.2	7.5	7	4.7	14.5	—40.9	4.7	19	3	−0.9	..	..	..	0	5	0	0	6	4	2	0	0	0	0
Amritsar (Rajasansi)	29.9	+2.6	34.6	30	11.6	+0.2	5.4	7	4.5	8.1	−18.3	4.0	20	2	—0.2	11.7	9.4	+0.2	0	3	0	0	0	0	2	0	0	2	0
Adampur (Aerodrome)	31.0	..	35.0	28	10.7	..	3.3	7	0.5	8.1	..	6.1	19	1	..	..	..	..	0	2	0	0	0	0	6	0	0	0	0
Ludhiana	32.3	+3.9	36.3	30	6.4	−7.1	1.3	7	0	0	−23·9	0	..	0	−1.8	6.7	5·1	+1.9	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	30.5	..	34.6	30	12.6	..	7.8	2	9.2	9.2	..	9.2	20	1	..	7.0	4·5	..	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome).	30.5	..	34.2	30,31	11.4	..	5.3	2	3.8	4.8	..	3.8	18	1	..	..	..	..	0	2	0	0	3	0	2	0	0	0	0
Chandigarh	31.2	+2.6	34.5	26	16.9	+2.6	10.7	7	0	0	−26.2	0	..	0	−3.0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	32.4	+3.3	36.4	10	15.0	+1.4	10.4	2,5	0	6.2	−17.7	6.2	26	1	−0.8	12.3	9.9	+3·9	0	1	0	0	2	0	0	0	0	0	0
Ambala (Aerodrome).	31.5	..	34.8	25	13.9	..	8.4	2	0.3	22.9	..	22.6	26	1	..	..	..	..	0	2	0	0	4	0	0	0	0	0	0
Patiala	31.8	..	35.3	25	15.1	..	8.7	2	0	1.4	−15.4	1.4	26	0	−1.7	12.7	10.0	..	0	1	0	0	1	0	2	0	0	0	0
Bhatinda	32.5	..	36.9	4 days	13.2	..	6.9	2	0	0	..	0	..	0	..	6.	4.6	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	31.6	..	35.6	31	13.7	..	8.5	2,5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	32.7	+1.7	37.3	25	14.9	+1.1	8.5	2	0	0	−16.3	0	..	0	−1.5	8.7	7.5	+0.6	0	0	0	0	0	0	0	0	0	0	0
New Delhi (Safdarjung)	32.1	+1.5	36.6	26	16.2	+1.4	11.1	2	1.0	1.0	+11.9	1.0	19	0	−1.3	18.1	12·0	+0.6	0	1	0	0	0	0	3	0	0	0	0
Palam (Aerodrom).	32.9	..	37.8	26	14.4	..	7.6	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	3	0	3	0	0	0	0
Himachal Pradesh																													
Mandi	27·4	+2·3	32·9	15	10·9	+1·4	4·1	1,2	2·0	17·9	−54·6	9·4	19	2	−3·3	3·5	2.9	−0·3	0	5	0	0	1	0	0	0	0	0	0
Bilaspur	28·5	..	33·0	14,15	6·8	..	0·9	7	0	0	..	0	..	0	..	4·4	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	2·1	—136·1	0·5	25	0	—9·8	..	..	..	5	3	0	0	0	0	0	0	0	0	0
Sonamerg (R)																													
Leh	7·0	+0·2	13·1	30	—7·1	−1.0	13.1	5	0	2·2	—4·9	2·2	19	0	—0·9	4·3	4·2	+1·0	0	1	1	0	0	0	0	0	0	0	0
Srinagar	14·7	+0·9	21·0	29	5·0	+2·2	1·1	3	24·7	54·0	—37·7	24·9	19	5	−2·4	..	..	..	0	11	0	0	0	0	0	1	0	0	0
Srinagar (Aerodrome).	13·7	..	20·0	30	4·5	..	0·6	3	19·6	53·9	..	22·6	19	4	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0

(R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir—*Contd*																													
Gulmarg									Closed during months																				
Qazigund	14·6	..	21·1	30	4·2	..	0	19,20	60·5	106·9	..	45·0	19	6	..	5·0	4·5	..	1	12	0	0	5	0	0	0	0	0	0
Banihal	17·9	..	24·7	30	5·9	..	1·0	4	52·9	121·6	..	44·5	19	7	..	..	..	..	1	8	0	0	7	0	0	0	0	0	0
Jammu	29·4	+3·3	34·5	30	16·2	+1·0	11·0	4	0	10·8	−45·6	6·6	19	2	−1·7	7·5	7·6	..	0	2	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome).	28·8	..	33·9	30	15·1	..	8·2	7	4·1	15·0	..	11·4	19	2	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	31·8	+1·5	36·5	30	15·2	+1·0	9·2	2	0	0	−21·3	0	..	0	−1·6	7·7	5·0	−0·1	0	1	0	0	1	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	34·4	..	39·0	30,31	12·9	..	6·3	2	0	0	..	0	..	0	..	14·5	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Churu	34·0	..	38·4	31	15·1	..	9·4	2	0	0	..	0	..	0	..	11·7	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	34·8	+2·9	39·3	30	16·4	+1·8	9·5	2	0	5·2	−0·6	5·2	31	1	+0·4	7·0	5·0	−1·8	0	1	0	1	1	0	0	0	0	0	0
Nagaur	32·6	..	35·8	18	16·5	..	12·8	2	0	2·0	..	2·0	31	0	..	10·3	7·5	..	0	1	0	0	0	0	0	0	0	0	0
Phalodi	35·0	..	39·1	30	17·7	..	11·8	1	0	0	−3·6	0	..	0	−0·3	16·1	11.3	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	35·3	..	38·8	30	18·0	..	12·7	2	0	0	..	0	..	0	..	11·0	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	36·3	+3·8	40·2	30	19·2	+2·8	13·9	6	0	0·2	−2·6	0·2	31	0	−0·2	9·0	9·9	−1·2	1	0	0	0	0	0	0	0	0	0	0
Barmer	36·6	+4·3	39·8	15	20·4	+2·5	15·2	6	0	0	−6·3	0	..	0	−0·6	9·0	8·0	−1·3	0	0	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	32·2	..	37·2	31	14·6	..	10·4	1,2	0	0	..	0	..	0	..	13·1	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	33·5	..	37·2	26,30	14·6	..	8·9	1	0	0	..	0	..	0	..	8·5	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	34·2	..	38·0	26	17·9	..	12·2	2	0	0	..	0	..	0	..	4·4	2·5	..	0	0	0	0	0	0	1	0	0	0	0
Jaipur (Sanganer)	34·1	+3·1	37·2	30	17·2	+2·5	11·2	2	0	0	−8·6	0	..	0	−0·9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	35·4	..	39·5	17	16·6	..	9·7	1	0	0	..	0	..	0	..	8·7	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	34·3	+3·4	38·1	30	17·8	+2·1	12·0	1	0	0	−5·8	0	..	0	−0·7	10·8	6·7	+1·6	0	0	0	0	0	0	0	0	0	0	0
Tonk	35·4	..	39·2	31	16·4	..	10·8	2	0	0	..	0	..	0	..	7·6	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	35·2	..	39·0	31	17·4	..	11·1	1	0	0	..	0	..	0	..	8·6	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	35·8	..	40·0	31	20·0	..	14·4	1	0	0	..	0	..	0	..	12·5	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Kota	36·2	+2·5	39·9	31	18·4	0	11·1	9	0	0	−4·3	0	..	0	−0·5	7·2	4·4	+1·0	0	0	0	0	0	0	0	0	0	0	0
Fringpura (Jawai Dam).	36·3	..	38·7	30	19·1	..	13·2	2	0	0	..	0	..	0	..	5·2	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	36·2	..	39·9	31	18·6	..	14·1	2,5	0	0	..	0	..	0	..	8·7	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	34·3	+2·6	37·0	30.31	16·2	+0·4	11·2	2	0	0	−2·5	0	..	0	−0·3	5·0	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	36·2	+3·2	39·8	31	18·2	+2·3	13·1	5	0	0	−3·6	0	..	0	−0·6	8·2	5·4	+0·6	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	35·1	+1·7	38·8	19	16·8	+0·9	10·4	2	0	0	−5·3	0	..	0	−1·0	12·5	6·9	..	0	0	0	0	2	0	0	0	0	0	0
Sheopur	35·8	+1·6	40·4	31	16·6	+0·6	10·9	1	0	0	−8·8	0	..	0	−1.1	10·5	7·2	+0.8	0	0	0	0	1	0	0	0	0	0	0
Shivpuri	34·1	..	38·8	31	13·3	..	7·7	1	0	0	..	0	..	0	..	7·0	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Nawgong	35·6	+2·4	39·9	19	14·8	−0·5	10·1	1	0	4·6	−3·0	4·0	26	1	+0·2	4·8	2·2	−0·9	0	2	0	0	2	0	0	0	0	0	0
Guna	35·8	+3·4	40·1	31	15·8	+1·5	10·9	8	0	0	−12·7	0	..	0	−0·9	13·0	7·7	..	0	0	0	0	3	0	0	0	0	0	0
Nimach	34·8	+2.2	38·2	31	18·5	+2·3	13·9	1	0	0	−3·1	0	..	0	−0·3	10·8	7·6	−0·6	0	0	0	0	1	0	1	0	0	0	0
Rajgarh	36·2	..	40·7	31	16·6	..	11·7	1	0	0	..	0	..	0	..	11·5	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	34·5	+1·8	38·4	31	20·8	+2·7	16·7	1	15·0	34·0	+25·6	34·0	26	1	+0·1	7·4	5·3	..	0	1	0	1	1	0	0	0	0	0	0
Ratlam	36·1	+2·0	39·1	31	18·4	+0·3	13·4	5	0	0·1	−2·1	0·1	26	0	−0·2	11·0	7·9	+0·1	1	0	0	0	1	0	0	0	0	0	0
Bhopal (Bairagarh).	35·7	+2·6	39·4	30	18·6	+2·0	12·9	5	0	0·8	−7·8	0·8	26	0	−0·8	13·7	10·3	+0 5	0	1	0	0	2	0	0	0	0	2	0
Ujjain	35·6	..	38·4	31	15·1	..	11·6	2	0	3·0	..	1·8	27	0	..	12·6	8·1	..	0	2	0	0	0	9	0	0	0	0	0
Narsinghpur	36.8	..	40·6	31	16 0	..	11·5	9,15	0	1·0	..	1·0	26	0	..	6·5	4·1	..	0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	37·0	+2·8	40·5	31	19·3	+1·1	14·7	6	0	6·4	+0·3	6·4	26	1	+0·4	7·4	5·2	+1·7	0	1	0	0	2	0	0	0	0	0	0
Indore	35·5	+1·4	38·5	31	17·0	+1·8	12·3	6,7	0	13·0	+11·0	11·0	27	1	+0·7	14·3	11·6	..	0	2	0	0	2	0	0	0	0	0	0
Rajpur (Jhabua)	36·7	..	39·4	25	17·7	..	13·0	6,8	0	0	..	0	..	0	..	9·2	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	34·9	+2·0	37·9	31	17·0	0	12·7	10	0	4·5	−7·8	4·5	26	1	−0·7	8·7	5·3	−0·5	0	1	0	0	1	0	0	0	0	0	0
Seoni	35·7	+2·4	38·6	31	18·9	+1·8	15·0	10	0·2	17·8	−2·3	13·0	1	2	−0·0	9·2	6·0	+1·3	0	2	0	0	1	0	0	0	0	0	0
Betul	35·3	+1·8	38·6	31	16·4	0	11·6	4	0	6·6	−9·1	6·6	26	1	−0·6	7·9	4·5	−1·1	0	1	0	0	3	0	0	0	0	0	0
Khandwa	37·9	+1·6	40·8	31	18·7	+0·6	13·8	9	0	8·2	+3·9	5·0	26	2	+1·5	11·4	7·7	+1·1	0	2	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	35·8	+3·3	39·3	19	17·1	+0·8	12·7	2	0	0·4	−11·0	0·4	26	0	−1·1	9·0	5·2	+0·2	0	1	0	0	2	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during (hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation(0.1 and 0.2mm.)	Precipitation(0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (East)—(*Contd.*)																													
Sidhi	35·8	..	39·4	20	15·8	..	11·5	8,9	0	1·0	..	1·0	26	0	..	8·8	4·6	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	35·8	+3·4	39·3	31	16·0	+0·8	11·7	6	0	0	—17·8	0	..	0	—1·7	8·3	4·4	—0·3	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	36·5	+3·4	40·1	31	16·5	+1·6	11·7	6	0	0	—14·2	0	..	0	—1·4	7·4	4·4	+1·2	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	33·7	+1·9	36·6	19	16·2	+1·2	12·8	7,8	1·8	1·8	—18·7	1·8	21	0	—2·3	10·9	7·2	—0·7	0	1	0	0	1	0	0	0	0	0	0
Pendra	33·5	+2·8	36·6	31	19·2	+2·3	15·1	7	1·5	1·5	—26·2	1·5	21	0	—2·3	10·1	7·1	..	0	1	0	1	4	0	0	0	0	1	0
Mandla	35·8	+2·1	39·2	31	14·9	+0·8	10·0	10,15	1·0	1·0	—26·6	1·0	1	0	—2·1	7·0	3·3	+0·3	0	1	0	0	1	0	0	0	0	0	0
Champa	37·2	+1·9	40·1	31	19·5	—0·3	15·5	11	2·6	2·6	—20·1	2·6	22	1	—0·7	8·4	5·6	—0·5	0	1	0	0	2	0	1	0	0	0	0
Raigarh	37·8	+2·1	40·5	31	21·0	+0·8	17·6	10	0	0	—21·0	0	.	0	—2·1	(a) 5·6	4·1	—0·7	0	0	0	0	1	0	0	0	0	0	0
Raipur	36·7	+1·6	39·6	31	22·0	+2·0	17·8	9	0	0·6	—17·4	0·5	26	0	—1·7	9·3	7·4	+0·6	1	1	0	0	2	0	0	0	0	0	0
Kanker	35·7	+1·5	38·7	25	20·8	+2·2	15·2	9,10	0·3	0·3	—21·3	0·3	30	0	—2·1	7·6	6·0	+0·9	0	1	0	0	1	0	0	0	0	0	0
Jagdalpur	35·5	+0·9	37·7	31	19·8	+1·5	14·5	10	0·1	6·2	—7·3	6·2	25	1	—0·2	7·3	4·6	..	0	1	0	0	6	0	0	0	0	0	0
Gujarat Region																													
Deesa	37·5	..	40·0	13,15, 27	17·9	..	12·4	6	0	0	..	0	..	0	..	9·7	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	37·3	..	40·3	17	..	..	..	..	0	0	..	0	..	0	..	8·6	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Idar	36·9	..	39·7	12	20 3	..	16·0	18,19	0	0	..	0	..	0	..	8·7	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	37·5	+1·4	40·0	13,15	19·7	+1·7	14·3	1	0	0	—1·3	0	..	0	—0·2	7·5	4·2	—3·4	0	0	0	0	0	0	0	0	0	0	0
Dohad	36·8	+1·7	39·0	5 days	18·6	—0·4	12·1	1	0	0	—1·6	0	..	0	—0·1	13·2	11·4	—1·7	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidya Nagar	37·8	..	40·2	28	17·2	.	11·6	7	0	0	..	0	..	0		8·3	6·2	.	0	0	0	0	0	0	0	0	0	0	0
Baroda	38·0	..	40·3	14	17·9	..	13·1	7	0	0	..	0	..	0	..	7·4	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Aerodrome Baroda	39·0	+2·3	41·7	28	19·3	+2·6	15·1	7	0	0	—0·9	0	..	0	—0·1	3·0	1·4	—2·6	0	0	0	0	0	0	0	0	0	0	0
Broach	38·9	+1·3	42 4	14	19·8	0	12·3	7	0	0	—1·6	0	..	0	—0·1	5·5	4·6	—2·1	0	0	0	0	0	0	0	0	0	0	0
Surat	37·6	+2·0	43·0	15	21·1	+1·7	17·2	8	0	0	—0·3	0	..	0	—0·1	8·2	7·0	+1·7	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar(R)																													
Naliya	33·8	..	40·6	14	16·9	..	11·5	6	0	0	..	0	..	0	..	16·1	11·4	..	0	0	0	0	0	2	0	0	0	0	0
Bhuj (Rudramata)	36·1	+2·3	39·6	28	19·0	+1·1	13·3	6	0	0	—0·8	0	..	0	—0·2	12·6	10·7	+1·0	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	36·7	..	40·5	28	..	..	..	..	0	0	..	0	..	0	..	19·3	19·7	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	33·0	..	38·1	14	20·9	..	16·7	6	0	0	..	0	..	0	..	15·6	15·2	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	29·3	—0·5	37·7	16	19·1	+0·5	14·1	1	0	0	—0·7	0	..	0	—0·2	23·2	19·9	—0·4	0	0	0	0	0	2	0	0	0	0	0
Surendranagar	37·4	+1·2	40·4	27,28	21·1	+1·2	16·9	6	0	0	0	0	..	0	0	11·5	10·7	—1·7	0	0	0	0	0	0	0	0	0	0	0
Okha	27·2	..	32·1	13	21·8	..	19·9	8	0	0	..	0	..	0	..	18·6	18·6	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	33·8	+0·6	39·3	14,28	18·4	+1·5	13·2	6	0	0	—2·0	0	..	0	—0·1	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Dwarka	28·1	+0·2	37·7	14	22·2	+0·8	19·6	7	0	0	—2·8	0	..	0	—0·2	15·6	14·5	—0·6	0	0	0	0	0	0	0	0	0	0	0
Rajkot	36·7	+1·0	40·3	15,27	17·8	+0.4	12·4	1	0	0	—1·3	0	..	0	—0·2	18·5	15·2	—1·4	0	0	0	0	0	0	0	0	0	0	0
Bhaunagar Aerodrome	36·2	+1·9	39·9	13	20·2	+0·9	15·3	3	0	0	—2.8	0	..	0	—0·2	19·0	15·3	+1·4	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	33·1	+1·6	40·5	14	19·0	—1·5	14·2	6	0	0	0	0	..	0	0	19·6	13·5	..	0	0	0	0	0	4	0	0	0	0	0
Keshod	37·0	..	41·4	15	18·0	..	14·0	6	0	0	..	0	..	0	..	19·2	14·8	..	0	0	0	0	0	7	0	0	0	0	0
Mahuva	35·6	..	38·5	31	..	..	..	..	0	0	..	0	..	0	..	11·9	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·6	..	40·0	16	18 5	..	15·0	7	0	0	—1·3	0	..	0	—0·1	20·7	16·5	..	0	0	0	0	0	8	0	0	0	0	0
Konkan																													
Dahanu	30·6	+0·4	35·8	29	..	..	..	..	0	0	—0·1	0	..	0	0	16·9	12·3	—1·3	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz).	33·2	+2·0	38·8	28	20·4	+1·5	17·9	6	0	0	—1·3	0	..	0	0	13·8	8·8	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	30·7	+0·6	35·0	28	22·8	+0·6	20·5	4	0	0	—1·3	0	..	0	—0·1	9·8	7·0	—4·6	0	0	0	0	0	0	0	0	0	0	0
Alibag	30·7	+1·0	35·3	29	21·3	+0·5	18·6	4,6	..	0	—0·5	0	..	0	—0·1	..	9·7	0	0	0	0	0	1	0	0	0	0	0	0
Bhira	40·4	..	44·0	30	18·4	..	14·0	6	0	0	..	0	..	0	..	5·8	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Harnai	28·9	—0·1	34·0	13	24·0	0	21·1	4	0	0	0	0	..	0	0	19·2	15·4	—0·1	0	0	0	0	1	0	0	0	0	0	0
Ratnagiri	31·2	..	35·0	29	22·0	..	18·7	6	0	0	—0·8	0	..	0	—0·1	12·7	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Devgarh	29·5	—1·4	33·0	29	22·7	—1·2	21·5	7	0	0	—1·1	0	..	0	—0·1	19·9	15·0	0	0	0	0	0	0	1	0	0	0	0	0
Vengurla	31·9	—0·2	35·2	12	21·2	—0·5	18·0	3,13	0	0	0	0	..	0	0	12·0	5·8	..	0	0	0	0	0	1	0	0	0	0	0
Panjim	31·8	..	35·0	12	22·7	..	20·7	14	0	0	..	0	..	0	..	14·0	9·4	..	0	0	0	0	0	3	0	0	0	0	0
Mormugao	30·3	..	33·3	12	23·6	..	21·1	7	0	0	..	0	..	0	..	16·5	13·2	..	0	0	0	0	0	0	0	.0	0	0	0
Madhya Maharashtra																													
Nandurbar	38·8	..	41·0	11,30	22·7	..	19·1	3,17	0	0	..	0	..	0	..	8·3	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	39·5	+1·8	42·5	31	19·1	+0·3	13·4	7	0	2·4	—1·2	2·4	26	0	—0·4	14·2	11·7	+2·0	0	1	0	1	1	0	0	0	0	0	0
Malegaon	37·7	+1·3	40·1	31	17·5	+0·4	12·8	4	0	0	—2·0	0	..	0	—0·3	9·5	7·9	—0·3	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (R) Register not received

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Maharashtra—(*Contd.*)																													
Deolali (Aerodrome)	37·0	..	39·4	31	16·2	..	11·5	5	2·5	16·4	..	10·9	27	2	..	9·4	6·7	..	0	2	0	0	2	0	0	0	0	0	0
Ahmadnagar	37·4	+2·2	39·8	31	17·9	+0·6	14·9	5	0	0	−5·3	0	..	0	−0·3	10·7	7·7	−0·8	0	0	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	.	..	..	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Poona (Aerodrome)	36·5	..	38·9	30	18·6	..	14·4	6	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Poona	36·6	+1·0	39·5	30	16·2	+0·8	11·8	6	0·5	0·5	−1·0	0·5	27	0	−0·2	7·5	4·9	..	0	1	0	0	1	0	0	0	0	0	0
Jeur	37·8	+0·9	40·8	31	18·7	+0·3	14·5	6	0	12·2	+10·2	12·2	26	1	+0·7	9·5	6·9	−1·0	0	1	0	0	5	0	0	0	0	0	0
Baramati	37·4	+0·9	39·5	30	19·2	+0·7	16·3	13	0	0	−2·6	0	..	0	−0·5	10·1	8·8	0	0	0	0	0	1	0	0	0	0	0	0
Sholapur	37·5	+0·2	39·6	31	22·1	+1·4	18·2	13	0	10·3	+4·5	7·5	25	1	+0·5	8·8	8·0	−1·2	0	3	0	0	0	0	0	0	0	0	0
Miraj	37·0	+1·7	39·4	31	19·3	+1·2	16·1	6	0	9·8	+6·0	9·4	26	1	+0·3	..	..	..	0	2	0	0	4	2	0	0	0	0	0
Kolhapur	37·2	+1·3	39·1	25	19·4	+0·5	16·4	13	1·3	11·3	1·6	10·3	26	1	+0·3	12·5	10·3	−0·3	0	2	0	0	3	0	0	0	0	0	0
Marathwada																													
Aurangabad	36·7	+1·2	39·2	31	20·3	+0·9	16·3	6	1·0	13.2	+8·1	13·2	26	1	+0·5	9·3	8·1	−1·9	0	1	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthan)	36·7	..	39·1	31	17·3	..	13·7	6	0	5·0	..	5·0	26	1	..	11·0	8·5	..	0	1	0	0	2	0	0	0	0	0	0
Parbhani	37·5	+0·6	40·0	24	20·4	+0·3	17·2	12	0·4	30·6	+23·4	22·2	25	2	+1·4	8·7	6·5	−1·2	0	2	0	0	3	0	0	0	0	0	0
Nanded	38·1	..	40·5	24	19·2	..	15·0	12	0	5·1	..	5·0	31	1	..	5·6	4·6	..	1	1	0	0	1	0	0	0	0	0	0
Bir	37·4	..	39·9	30	19·1	..	14·0	5	0	0	..	0	..	0	..	8·1	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	37·1	+2·2	40·0	31	20·5	+1·1	16·7	10	0	0	−17·4	0	..	0	−2·0	6·6	4·1	−0·1	0	0	0	0	0	0	0	0	0	0	0
Nagpur/Sonegaon	37·5	+1·0	40·0	31	19·0	−0·2	14·5	11	6·7	9·8	−5·4	5·2	28	1	−0·5	10·8	8·5	..	0	4	0	0	3	0	0	0	0	2	1
Amraoti	38·5	+2·1	41·2	31	22·0	+1·2	17·1	5	0	0	−8·9	0	..	0	−0·8	12·1	10·1	+3·3	0	0	0	0	1	0	0	0	0	0	0
Akola Aerodrome	38·6	..	41·7	31	20·2	..	16·6	9	0	0	..	0	..	0	..	10·9	8·7	..	0	0	0	0	1	0	0	0	0	0	0
Akola	38·8	+1·7	41·9	31	20·4	+1·5	16·0	16	0	0	−9·1	0	..	0	−0·7	8·0	5·5	−0·3	0	0	0	0	0	0	0	0	0	0	0
Bramhapuri	37·4	..	40·6	31	20·7	..	16·0	10	0	0	..	0	..	0	..	7·8	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Buldana	35·5	+1·3	38·8	21	21·8	+0·2	18·6	8	0	2·0	−4·3	2·0	27	0	−0·7	8·8	7·2	−1·9	0	1	0	1	1	0	0	0	0	0	0
Yeotmal	37·8	+1·7	40·6	31	22·6	+1·2	18·8	6	0	5·2	−14·0	5·2	25	1	−0·7	11·6	10·0	−0·3	0	1	0	0	0	0	0	0	0	1	0
Chanda	38·2	+1·1	41·4	31	21·8	+2·4	17·2	10	0	6·0	−13·6	5·8	25	1	−0·2	8·6	6·2	+2·3	1	1	0	0	4	0	0	0	0	0	0
Pusad	38.6	..	40.7	24	20 2	..	15.5	10	0	9.1	..	9.1	25	1	..	8.8	6.1	..	0	1	0	0	3	0	0	0	0	0	0
Sironcha	38·2	+0·8	40·5	30	23·6	+1·4	20·2	12	0	0	−16·6	0	..	0	−1·1	7·3	5·8	+0·3	0	0	0	0	0	0	0	0	0	0	0
Costal Andhra Pradesh																													
Kalingapatnam	32·9	+0·3	35·2	17	23·3	+0·6	17·8	2,13	0	0	−11·2	0	..	0	−0·6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	34·1	−0·2	37·4	15	23·8	+1·1	18·1	12	0	0·6	−11·3	0·6	1	0	−0·8	17·9	9·1	+0·9	0	1	0	0	0	1	0	0	0	0	0
Kakinada	35·5	+2·3	36·5	19	23·2	+0·1	20·0	15	0	0	−12·2	0	..	0	−0·7	10·3	7·9	+0·7	0	0	0	0	0	0	0	0	0	0	0
Nidadavole	31·5	..	36·0	27,28	22·6	..	18·5	13	0	0	..	0	..	0	..	5·5	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Bontachintala	38·8	+1·4	40·5	31	24·2	0	18·6	12	0	0	−2·3	0	..	0	−0·3	7·7	7·6	−1·7	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	35·9	+0·1	37·3	27	22·8	+0·5	18·9	12	0	0	−12·0	0	..	0	−0·5	15·8	10·5	−0·2	0	0	0	0	0	1	0	0	0	0	0
Nagarjunakonda (R)																													
Masulipatam	32·8	+0·3	34·6	16	22·6	+0·2	18·6	13	0	0	−10·1	0	..	0	−0·5	4·4	2·7	−4·2	0	0	0	0	0	0	0	0	0	0	0
Ongole	35·1	..	40·1	28	23·9	..	21·0	13	0	0	..	0	..	0	..	9·5	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	35·9	+1·3	39·0	6	23·6	+0·9	20·9	14	0	0	−4·3	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	38·5	+1·1	40·4	30,31	23·8	+1·3	20·7	5,9,10	0	0	−10·8	0	..	0	−0·9	9·0	6·8	−0·2	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	38·4	+1·6	40·3	31	22·2	+1·7	18·7	13	0	9·0	−1·2	9·0	31	1	+0·2	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Hanamkonda	37·8	+2·2	39·6	29	22·9	+1·1	20·0	12	0	6·0	−5·7	6·0	29	1	+0·2	10·7	10·1	+1·7	0	1	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	35·2	..	37·7	29	22·1	..	20·0	20	2·0	7·1	..	6·3	23	1	..	..	..	..	0	2	0	0	1	0	0	0	0	2	0
Bhadrachalam	38·0	+0·8	39·6	16	23·2	+0·4	17·6	12	2·0	2·0	−6·3	2·0	29	0	−0·8	6·2	6·8	−1·5	0	1	0	0	3	0	0	0	0	0	0
Hyderabad (Begampet)	35·9	+0·8	38·1	31	21·1	+1·5	16·2	13	7·9	0	−1[illegible]·7	0	..	0	−0·0	12·3	8·4	0	0	0	0	0	2	0	0	0	0	1	0
Khammam	37·5	..	39·0	28	23·6	..	19·2	12	0	0	..	0	..	0	..	7·5	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	36·2	..	38·0	31	22·2	..	16·4	12	0	0	..	0	..	0	..	9·8	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Rayala Seema																													
Kurnool	38·0	+0·2	40·1	29	23·3	+1·1	15·7	13	0	0	−5·3	0	..	0	−0·4	8·3	7·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Nandyal (R)																													
Anantapur	37·4	+0·6	39·5	29	22·5	+0·8	15·4	13	0	0	−3·9	0	..	0	−0·3	10·9	10·3	+0·8	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	38·5	+0·2	40·3	4days	23·9	+0·1	17·0	13	0	0	−4·6	0	..	0	−0·3	5·2	3·4	−8·8	0	0	0	0	0	0	0	0	0	0	0
Anantapur	34·0	..	36·2	31	19·5	..	15·4	11	0	0	..	0	..	0	..	10·9	9·5	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed. kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madras State																													
Madras	32·8	..	34·7	8	23·7	..	20·5	11	..	0	..	0	..	0	..	..	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	34·1	—1·1	36·4	8	24·0	+1·6	21·9	2,11,13	0	0	—7·4	0	..	0	—0·4	14·2	9·9	—0·7	0	0	0	0	0	1	0	0	0	0	0
Vellore	34·8	+0·2	36·3	6	21·7	+0·7	17·0	11	0	0	—6·9	0	..	0	—0·5	8·2	9·0	+4·0	0	0	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	35·1	..	36·8	8	23·3	..	20·1	11	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Tiruppattur	35·4	..	37·3	29,30, 31	19·0	..	14·0	11	0	0	..	0	..	0	..	6·2	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	36·8	..	38·4	10	24·8	..	20·9	13,16	0	14·0	..	5·1	24, 27	3	..	7·9	8·6	..	0	3	0	0	0	0	0	0	0	0	0
Cuddalore	31·9	+0·6	34·3	6	23·6	+1·0	20·7	11	8·2	8·2	—9·3	8·2	22	1	+0·4	12·8	9·2	+2·6	0	1	0	0	0	0	0	0	0	0	0
Kallakkurichchi	34·2	..	36·2	31	22·9	..	19·2	11	0		—10·2	0	..	0	—0·5	8·7	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Salem	36·1	—0·6	38·1	31	23·2	+1·3	19·4	11	3·4	3·4	—9·1	3·4	23	1	+0·1	11·4	4·9	+4·7	0	1	0	0	1	0	0	0	0	0	0
Coimbatore (Pilamedu)	34·9	..	36·5	31	21·7	..	17·8	11	0	1·4	..	1·2	21	0	..	16·2	14·1	..	1	1	0	0	3	1	0	0	0	0	0
Coimbatore	35·2	0	37·0	6	21·8	+0·6	19·3	11	0	1·0	—11·7	0·6	23	0	—0·9	9·9	7·0	+3·0	0	2	0	0	1	0	0	0	0	0	0
Nagappattinam	31·1	—0·1	34·1	6	26·2	+1·6	23·3	11	0·6	0·6	—19·0	0·6	22	0	—1·0	16·0	15·5	+5·4	0	1	0	0	2	0	0	0	0	0	0
Tiruchchirapalli	35·5	—0·3	36·9	6,30	23·7	+1·4	20·7	10,11	15·5	15·5	+6·4	15·3	21	1	+0·3	13·8	12·0	+4·4	1	1	0	0	1	0	0	0	0	0	0
Vedaranniyam	33·0	..	35·0	8	25·3	..	21·4	11	8·6	8·6	..	6·2	22	1	..	8·8	6·9	..	0	2	0	0	0	0	0	0	0	0	0
Atirampattinam	33·3	..	35·0	16,27	24·1	..	21·4	10	10·6	16·0	..	10·6	21	2	..	15·0	10·0	..	0	3	0	0	0	0	0	0	0	0	0
Madurai	34·9	—0·3	37·1	6	24·2	+1·7	21·2	10	0·6	0·6	—17·2	0·6	23	0	—1·0	7·7	5·8	+0·3	0	1	0	0	1	0	0	0	0	0	0
Madurai(Aerodrome)	35·0	..	37·2	6	23·1	..	19·5	11	9·2	9·2	..	9·2	23	1	..	12·5	9·5	..	0	1	0	0	5	1	0	0	0	0	0
Tondi	31·3	..	32·3	28	25·7	..	23·1	10,11	0	1·5	..	1·5	2	0	..	16·8	16·4	..	0	1	0	0	2	0	0	0	0	0	0
Pamban	32·3	+0·9	33·5	8	25·8	+1·0	22·8	22	0	40·3	+22·0	28·2	22	3	+1·6	14·0	11·3	+2·4	0	4	0	0	3	0	0	0	0	0	0
Tuticorin	30·2	+0·5	32·2	7	24·9	0	21·5	11	0	39·8	+10·2	25·2	12	4	+2·7	19·1	18·3	+1·9	0	4	0	0	1	0	1	0	0	0	0
Palayamcottai	34·2	—0·8	35·9	6	24·3	—0·1	21·9	11	30·4	74·4	+45·5	24·6	21	6	+4·0	6·2	4·1	—3·8	0	6	0	0	2	0	0	0	0	0	0
Kaniyakumari	32·3	..	34·5	14	25·3	..	23·3	21	1·1	26·8	..	17·0	26	3	..	18·9	14·7	..	0	4	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·0	+0·1	34·8	15,30	2[illegible]·6	+0·1	19·0	1	0	0	—0·3	0	..	0	0	14·5	9·7	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	32·1	—0·1	34·8	12	22·1	—0·8	18·8	6	0	0	—0·3	0	..	0	0	11·0	9·0	+3·9	0	0	0	0	1	0	0	0	0	0	0
Mangalore (Bajpe)	33·9	..	37·5	15	23·7	..	20·9	14	0	0	..	0	..	0	..	12·2	7·1	..	0	0	0	0	1	0	0	0	0	0	0
Mangalore	32·7	+0·7	35·9	13	24·5	+0·2	20·9	7	0	0	—5·3	0	..	0	—0·3	12·2	8·8	+0·9	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	35·5	+0·6	37·4	20,30, 31	23·0	+0·9	18·9	25	4	13·6	+1·7	10·0	24	2	+0·9	13·1 (9)	11·0	+1·0	0	2	0	0	1	0	0	0	0	0	0
Gulbarga	37·9	+0·6	39·2	30,31	23·0	+1·6	17·8	13	0	0	—9·4	0	..	0	—0·8	12·5	10·6	+1·4	0	0	0	0	1	0	0	0	0	0	0
Bijapur	37·1	+1·0	39·3	31	22·9	+1·7	19·6	13	0	3·6	—1·7	3·4	25	1	+0·4	6·2	4·8	—1·6	1	1	0	0	0	0	0	0	0	0	0
Raichur	37·6	+0·7	39·9	31	24·6	+1·4	20·2	13	0	0	—3·6	0	..	0	—0·4	11·2	11·2	+2·3	0	0	0	0	0	0	0	0	0	0	0
Belgaum	35·4	+0·1	36·7	20	18·5	+0·4	16·5	6	13·2	50·8	+40·4	50·2	26	1	+0·1	7·2	4·2	—2·5	0	2	0	0	2	0	0	0	0	0	0
Belgaum (Sambra)	35·2	..	36·6	31	19·5	..	17·0	15	0	28·2	..	14·8	26	2	..	11·0	7·7	..	0	2	0	0	4	0	0	0	0	0	0
Gadag	36·2	+0·9	37·7	30,31	21·8	+1·4	17·3	13	0	0	—5·6	0	..	0	—0·7	9·7	8·3	+0·4	0	0	0	0	0	0	0	0	0	1	0
Interior Mysore South																													
Bellary	37·3	—0·2	40·0	30	23·8	+1·4	19·3	12	0	0	—5·3	0	..	0	—0·6	8·9	6·5	+1·2	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	35·1	+0·2	37·1	31	21·8	+0·5	17·3	13	0	0	—4·3	0	..	0	—0·4	8·7	7·5	+1·2	0	0	0	0	0	0	0	0	0	0	0
Shimoga	35·3	0	37·0	25	18·4	—0·7	12·7	14	0	0	—10·5	0	..	0	—0·9	6·8	4·4	—0·5	0	0	0	0	0	0	0	0	0	0	0
Agumbe	31·5	..	34·2	14,29	16·3	..	10·7	14	..	0	..	0	..	0	..	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Balehonnur	33·9	+3·1	37·0	30	18·9	+1·8	16·4	6	..	0	—31·5	0	..	0	—1·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	33·7	+0·6	35·6	30	18·1	+0·8	14·9	11	0	0	—9·4	0	..	0	—0·6	5·6	3·8	—1·3	0	0	0	0	0	0	0	0	0	0	0
Bangalore	32·7	+0·3	34·2	19,31	19·5	+1·4	15·5	11	0	0	—10·2	0	..	0	—0·8	11·6	9·2	+2·0	0	0	0	0	0	0	0	0	0	0	0
Bangalore (Aerodrome)	32·5	..	34·0	9,30,31	18·1	..	13·6	11	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mysore	33·8	—0·5	35·5	30,31	20·8	+1·0	19·1	11	0	3·2	—9·7	2·0	22	0	—0·8	13·2	9·6	+2·2	0	2	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	32·9	+0·6	34·1	31	24·9	+0·4	22·0	23	0	51·4	+34·1	21·2	23	3	+2·2	15·7	12·0	+1·4	0	3	0	0	3	0	0	0	0	0	0
Palghat	38·0	..	40·0	31	24·8	..	22·2	24	3·0	30·4	..	23·0	24	2	..	11·3	8·7	..	0	3	0	0	5	0	0	0	0	0	0
Fort Cochin	32·3	+1·2	33·8	30	25·3	—0·8	22·9	22	2·1	38·1	—13·0	33·4	22	2	—0·8	12·3	7·5	—1·4	0	3	0	0	6	0	0	0	0	0	0
Cochin (Naval Air Station)	33·0	..	34·6	14	25·1	..	22·6	22	1·8	50·5	..	41·9	22	2	..	14·5	9·8	..	1	5	0	0	12	0	0	0	0	0	0

(a) Mean of 30 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Kerala (*Contd.*)																													
Alleppey	33·4	+0·9	35·7	12,13	25·1	0	22·5	22	0·8	125·0	+48·4	34·4	23	8	+3·8	17·5	10·8	−0·7	0	10	0	0	11	0	0	0	0	0	0
Punalur	34·6	..	37·3	15,19	23·0	..	19·4	10	56·4	141·0	..	75·6	22	6	..	6·7	5·3	..	0	7	0	0	0	0	0	0	0	0	0
Trivandrum	32·8	+0·4	35·7	13	24·6	+0·4	22·7	22	74·5	82·3	+53·2	47·7	22	4	+1·5	8·1	6·0	−0·1	2	5	0	0	9	0	0	0	0	0	0
Trivandrum (Aerodrome)	32·1	..	34·1	82	24·3	..	21·3	10	..	43·2	..	31·4	22	2	..	..	7·6	..	0	4	0	0	6	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																													
Dalhousie	20·1	+2·4	27·0	15	8·2	+0·2	2·0	4	47·0	96·0	−32·9	33·0	19	5	−1·4	3·5	5·0	−0·9	0	9	0	0	3	1	0	0	0	0	0
Dharmsala	23·3	+2·2	28·4	15	14·0	+1·2	6·7	20	24·6	58·4	−59·9	25·4	19	4	−2·5	7·0	3·0	−3·0	0	5	0	0	4	0	0	0	0	0	0
Simla	17·3	+3·4	24·5	15	9·1	+2·7	3·9	20	26·0	30·5	−29·4	13·2	27	4	−0·7	5·0	4·6	+1·7	0	6	0	0	3	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	5·2	−42·8	5·2	5	1	−1·9	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Lokpal	−4·2	..	−2·9	30	−10·7	..	−11·1	18	..	109·2	..	30·2	19	8	..	..	11·6	..	0	8	0	0	0	17	0	23	0	0	0
Badrinath	..	..	..	..	..	..	..	..	..	Closed	during	winter	Mon	ths	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	20·2	..	27·7	15	8·6	..	4·4	4	30·7	66·8	..	34·4	20	4	..	9·0	10·0	..	0	5	0	0	0	0	0	0	0	0	0
Mussoorie	18·7	+3·3	23·7	15	9·0	+1·9	2·8	20	23·2	34·6	−22·8	26·8	20	3	−0·7	12·1	10·2	+2·6	0	3	0	0	4	0	0	0	0	0	0
Mukteswar (Kumaun)	19·6	+4·4	25·1	15	8·0	+2·1	3·3	20	12·4	52·0	+3·7	34·6	20	3	−1·1	15·8	14·4	+4·3	0	5	0	0	5	0	0	0	0	0	0
Nainital	18·4	+1·7	23·4	15	8·3	+0·4	4·3	1	24·0	34·5	−19·2	25·0	20	3	−1·1	10·4	8·2	+0·3	0	4	0	0	0	0	0	0	0	0	0
Kalimpong	..	..	..	..	..	..	..	..	0	15·2	−13·0	15·2	31	1	−0·2	6·2	4·2	..	0	1	..	..	..	..	..	..	..	..	..
Darjeeling	16·5	+2·7	19·4	27	8·2	+1·1	5·1	7	25·8	34·8	−12·9	12·0	18	6	+2·4	3·1	2·9	+0·2	0	6	0	0	8	3	0	0	0	0	0
Kohima	22·9	..	25·7	25	12·7	..	7·3	1,4	32·8	51·6	..	12·4	21	5	..	..	5·7	..	0	7	0	4	3	0	0	0	0	0	0
Shillong	23·2	+1·9	25·5	1	11·1	+0·7	3·0	1	66·6	100·3	+50·3	32·6	30	8	+4·1	6·8	6·6	−0·2	0	9	0	1	4	0	0	0	0	0	0
Cherrapunji (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abu	28·2	+3·4	31·0	13	14·4	−1·7	10·6	22	0	0	−4·3	0	..	0	−0·5	15·2	9·8	+1·6	0	0	0	0	0	0	0	0	0	0	0
Aijal	26·8	..	30·2	26,27	16·9	..	11·7	18	36·4	99·0	..	28·2	29	6	..	10·6	10·7	..	0	8	0	1	2	0	1	0	0	0	0
Pachmarhi	30·4	+1·5	33·4	31	14·6	−0·6	9·9	6	0	2·0	−12·2	2·0	26	0	−1·3	5·5	3·4	−2·2	0	1	0	0	1	0	0	0	0	0	0
Mahabaleshwar	30·5	+2·5	33·0	30	18·5	+1·5	16·7	5,18	0	0	−4·3	0	..	0	−0·4	10·9	11·9	+1·3	0	0	0	0	1	0	0	0	0	0	0
Mercara	30·2	+1·2	32·4	30,31	17·2	+0·8	15·0	12	4·6	0	−19·3	0	..	0	−1·6	10·1	8·0	+3·0	0	0	0	0	3	0	0	0	0	0	0
Ootacamand	23·2	+2·1	25·6	24	8·0	−0·8	3·2	13	0	5·0	−27·5	5·0	28	1	−1·6	5·7	3·7	−1·6	0	1	0	0	1	0	0	0	0	0	0
Coonoor (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kodaikanal	19·8	+0·8	22·3	19	9·9	−0·2	6·6	12	28·0	60·7	+14·7	23·0	21	5	+1·9	13·0	12·8	−0·4	0	6	0	0	6	2	0	0	0	0	0
Nepal																													
Katmandu	26·7	..	29·9	20	7·2	..	3·8	1	4·2	9·3	..	6·4	27	1	..	1·7	1·4	..	0	3	0	0	5	0	0	0	0	0	0
Sikkim																													
Lachen	13·0	..	18·5	16	2·0	..	−1·0	7	..	128·2	..	43·0	7	9	..	..	..	..	1	16	0	0	0	0	0	0	0	0	0
HYDROMETEOROLOGICAL OBSERVATORIES:—																													
Damodar Catchment :																													
Tilaiya	33·4	..	37·0	19	17·5	..	13·6	9,10	0	0	..	0	..	0	..	11·4	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	32·3	..	35·5	18,19	16·2	..	12·0	8	0·2	0·2	..	02	20	0	..	12·9	6·4	..	0	0	0	0	2	0	0	0	0	0	0
Konar	33·7	..	36·7	22	22·7	..	18·0	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bokaro	31·0	..	37·1	20	15·9	..	8·1	1	0	0	..	0	..	0	..	8·0	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	36·1	..	39·5	18	18·1	..	13·1	9	0·6	2·2	..	1·6	20	0	..	4·2	3·3	..	0	2	0	0	2	0	0	0	0	0	0
Ramgarh	35·8	..	38·4	18,19	15·7	..	11·4	8	0·7	10·5	..	9·8	21	1	..	5·5	2·7	..	0	2	0	0	0	0	0	0	0	0	0
Panchet Hills	35·8	..	38·7	18,19	20·1	..	16·4	1	9·6	18·2	..	16·4	22	1	..	6·7	4·2	..	0	3	0	0	0	0	0	0	0	0	0
Durgapur	36·1	..	39·0	18	20·3	..	15·7	8	0	10·5	..	8·0	20	2	..	11·5	8·0	..	0	2	0	0	0	0	0	0	0	0	0
Mahanadi Catchment :																													
Ginabahar	35·6	..	38·0	20	17·2	..	10·5	11	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hirakud	36·2	..	38·8	25	21·4	..	16·9	11	0	4·4	..	4·4	22	1	..	5·0	3·2	..	0	1	0	0	2	0	0	0	0	0	0
Bhimkund	35·7	..	37·9	31	19·0	..	14·7	7	4·5	33·4	..	28·5	22	1	..	6·3	3·8	..	0	6	0	0	10	4	0	0	0	0	0
Sonepur	36·6	..	40·2	25	21·4	..	16·3	10	..	0·2	..	0·2	26	0	..	..	4·0	..	1	0	..	..	..	..	..	..	..	..	..
Khijrawan	36·2	..	39·1	25,26	20·8	..	16·0	13	0	0	..	0	..	0	..	9·0	6·3	..	0	0	0	0	0	0	0	0	0	0	0

*Data given as addenda in December, 1964 issue. (R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highes	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
HYDROMETEOROLOGICAL OBSERVATORIES— (*Contd.*)																													
Narmada Catchment :																													
Bagra Tawa .	37.7	..	41.2	31	16.8	..	12.7	9	0	9.0	..	9.0	26	1	..	7.5	4.5	..	0	1	0	0	1	0	0	0	0	0	0
Punasa .	38.0	..	40.8	31	18.6	..	15.2	2	0	0	..	0	..	0	..	7.9	4.2	..	0	0	0	0	0	0	0	0	0	0	0
Thikri . .	39.2	..	42.3	31	18.5	..	14.0	8	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment :																													
Dharoi .	37.2	..	40.4	16	19.7	..	13.4	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gandak Catchment :																													
Jomosom .	..	..	..	..	3.0	..	1.4	19	0	27.5	..	16.5	25	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Khudi Bazar .	..	..	..	..	..	..	..	..	0·6	16.6	..	10.8	21	2	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Timure . .	22.7	..	25.0	26,29	8.7	..	6.0	7	0	5.5	..	3.0	27	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Pokhara .	28·0	..	30·5	26,31	14·2	..	11·3	1	6·6	18·7	..	8·3	27	3	..	7·4	7·4	..	0	5	0	1	12	0	2	0	0	1	0
Gorkha .	27.0	..	29.5	24	16·6	..	13·4	1	0	4·2	..	4·2	27	1	..	0.6	0.5	..	0	1	0	0	7	0	0	0	1	0	0
Nuwakot .	29.5	..	31.8	15	15·9	..	12·4	1	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment : (Trans Himalayan Region)																													
Dailekh .	24·4	..	27·2	15	10·5	..	7·1	5	0	13·4	..	9·4	20	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Ghaghara Catchment :																													
Dadeldhura .	21·1	..	24·4	15	10·6	..	6·6	4	0·4	21·3	..	10·0	20	3	..	8·1	6·0	..	0	4	0	0	2	0	0	0	0	0	0
Sallayana .	25·5	..	28·6	31	12·5	..	8·0	31	0	7·6	..	5·2	27	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Butwal . .	33·4	..	38.7	15	19.5	..	13·9	6	0	0	..	0	..	0	..	..	.	..	0	0	..	..	..	..	..	..	..	..	..
Bhaghmati Catchment:																													
Katmandu†																													
Kosi Catchment:																													
Chautara .	26·1	..	28·7	26	12·2	..	9·5	1	0	1·0	..	1·0	20	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Chepua .	..	..	..	..	..	..	..	..	50·2	98·4	..	27·8	13	12	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·7	..	13·9	24	0·8	..	4·1	10	6·0	18·5	..	5·0	27	3	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Taplethok .	24·5	..	27·6	27	11·9	..	9·3	4	0	58·2	..	14·0	31	7	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Bhojpur .	22·2	..	25·2	27	12·4	..	8·8	3	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung .	20·7	..	22·9	30	9·5	..	6·5	7	4·9	52·2	..	33·2	31	4	..	..	..	..	0	6	0	0	13	0	0	0	0	0	0
Okhadhunga	21·2	..	23·9	26	10·3	..	7·2	7	1·1	2·3	..	1·2	20	0	..	7·9	5·3	..	0	3	0	1	4	0	0	0	0	0	0
Chainpur .	25.9	..	28.6	31	14·4 (j)	..	11·2	1,2	3·2	3.2	..	3·2	20	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Angbung .	..	..	..	..	10·9	..	10.1	5	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Barahakshetra	32·3	..	35·6	28	17.8	..	13·0	2	0·6	3·8	..	3·2	20	1	..	10·7	6·5	..	1	2	0	0	3	0	0	0	0	0	0
Tista Catchment:																													
Gangtok .	20·4 (b)	..	23·6	16,27	9·7 (b)	..	6·4	7	45·8	96·7	..	22·6	31	7	..	..	..	..	1	17	0	2	14	1	0	0	0	0	0
Gezing . .	23·5	..	26.8	29	10·7	..	7·9	7	11·4	45·5	..	13·2	30	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..

† Data included under 'Nepal'. (j) Mean of 21 days. (b) Mean of 29 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013·1	1010·0	..	27·1	24·6	23·5	28·9	81	..	2·1	..	1·7	0	0	11	0	8	1	0	0	0	1	1	20	0
	1730	,,	1010·4	1007·3	..	28·4	24·6	22·8	27·7	72	..	2·3	..	9·8	0	0	27	0	15	6	1	0	0	2	3	4	0
Long Island	0830	25	1012·9	1010·0	..	28·3	25·1	23·7	27·3	75	..	2·9	..	2·2	0	0	20	1	2	5	3	1	0	3	5	11	0
	1730	,,	1010·0	1007·1	..	28·1	24·6	22·9	27·9	74	..	4·0	..	1·1	0	0	13	0	5	4	1	0	0	1	2	18	0
Port Blair	0530	79	1011·1	1002·1	..	23·9	23·1	22·7	27·6	93	..	3·0	..	3·3	0	0	15	0	4	3	0	0	0	5	3	16	0
	0830	,,	1013·1	1004·3	+1·2	29·8	25·1	22·9	27·9	67	−5	3·5	+0·6	8·2	0	0	30	5	20	3	0	0	0	0	2	1	0
	1130	,,	1011·7	1002·9	..	31·5	25·6	22·9	27·9	60	..	3·8	..	11·1	0	2	29	0	16	14	0	0	0	1	0	0	0
	1730	,,	1010·0	1001·2	..	28·1	24·5	22·8	27·7	70	..	3·7	..	5·5	0	1	21	0	8	9	1	1	0	1	2	9	0
	2330	,,	1011·7	1002·7	..	25·5	23·9	23·1	28·3	87	..	2·3	..	4·5	0	0	20	1	8	4	0	0	1	6	0	11	0
Car Nicobar	0830	10	1012·8	1011·5	..	29·2	25·1	23·3	28·6	71	..	3·3	..	3·2	0	0	29	0	27	1	0	0	0	0	1	2	0
	1730	,,	1009·9	1008·7	..	28·5	25·0	23·5	28·9	74	..	3·9	..	1·9	0	0	20	0	20	0	0	0	0	0	0	11	0
Nancowry	0830	26	1012·3	1009·4	..	29·6	26·1	24·7	31·1	75	..	3·0	..	0·6	0	0	4	0	0	0	2	2	0	0	0	27	0
	1730	,,	1009·3	1006·4	..	28·9	25·7	24·3	30·4	76	..	4·4	..	0·2	0	0	2	0	0	1	1	0	0	0	0	29	0
Kondul	0830	8	..	..	..	28·4	25·6	24·4	30·5	79	..	4·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27·9	25·7	24·7	31·1	82	..	4·8	..	.	..	..	..	..		..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura).																											
Pasighat	0830	157	1014·8	996·7	..	19·8	16·7	14·5	16·5	72	..	5·0	.	16·6	0	13	17	1	0	1	1	0	0	0	27	1	0
	1730	,,	1010·6	993·6	..	21·5	18·4	16·4	18·6	75	..	4·2	..	8·8	0	6	16	3	1	1	1	0	0	2	14	9	0
Dibrugarh (Mohanbari)	0230	111	1011·1	998·1	..	16·6	15·3	14·3	16·3	87	..	5·2	..	3·9	0	0	15	0	10	4	0	0	0	1	0	16	0
	0530	,,	1012·1	999·1	..	16·0	14·9	14·1	16·1	89	..	5·5	..	4·8	0	2	15	1	13	2	1	0	0	0	0	14	0
	0830	,,	1014·3	1001·4	+0·8	19·8	17·0	15·1	17·1	75	−1	5·1	+0·9	8·5	0	1	30	1	20	9	1	0	0	0	0	0	0
	1130	,,	1012·8	1000·1	..	23·9	18·2	14·3	16·1	56	..	4·8	..	10·2	0	1	30	3	20	7	0	0	0	0	1	0	0
	1730	,,	1009·6	996·8	..	22·5	18·4	15·7	17·8	67	..	4·9	..	4·4	0	0	19	3	13	3	0	0	0	0	0	12	0
	2330	,,	1011·7	998·7	..	17·8	16·4	15·4	17·5	86	..	4·9	..	5·0	0	0	16	0	11	2	1	0	0	0	2	15	0
Digboi*	0830	152																									
	1730	,,																									
North Lakhimpur	0830	102	1014·5	1002·7	+1·0	20·9	17·8	15·7	17·8	74	0	4·7	+0·5	2·9	0	0	24	2	20	1	1	0	0	0	0	7	0
	1130	,,	1013·0	1001·3	..	25·0	19·0	15·0	17·1	56	..	4·8	..	5·5	0	0	29	0	18	9	1	1	0	0	0	2	0
	1730	,,	1010·1	998·4	..	22·9	13·0	16·5	18·8	68	..	4·6	..	2·3	0	0	23	4	15	3	1	0	0	0	0	8	0
Sibsagar	0830	97	1014·4	1003·2	+1·3	21·6	18·2	16·0	18·2	71	−10	4·2	−0·8	4·3	0	0	25	17	6	1	1	0	0	0	0	6	0
	1730	,,	1009·8	998·8	..	24·3	19·5	16·5	18·8	62	..	4·0	..	2·8	0	0	18	12	4	0	1	0	0	1	0	13	0
Gohpur	0830	..	..	..	..	20·3	17·8	16·1	18·3	77	..	4·0	..	6·2	0	0	28	2	11	6	7	0	0	0	0	3	2
	1730	..	..	..	..	23·8	19·2	16·3	18·5	64	..	4·6	..	5·3	0	0	29	0	19	5	5	0	0	0	0	2	0
Majbat	0830	..	..	..	..	23·5	18.7	15·5	17.6	58	..	1·9	..	5·4	0	0	31	1	13	12	3	0	0	0	0	0	2
	1730	..	..	..	..	24·9	19.5	15·1	18·3	59	..	1·8	..	2·5	0	0	22	3	5	8	2	2	1	0	0	9	1
Jorhat (Aerodrome)	0530	90	1011·6	1001·2	..	16·5	15·8	15·3	17·4	92	..	4·0	..	2·6	0	0	10	0	7	2	0	1	0	0	0	21	0
	0830	,,	1013·6	1003·3	..	21·6	18·1	15·8	17·9	69	..	3·7	..	9·5	0	0	27	0	17	10	0	0	0	0	0	4	0
	1130	,,	1012·2	1001·9	..	26·3	19·4	14·9	16·9	52	..	2·9	..	12·2	0	1	29	1	20	8	0	0	0	0	1	1	0
	1730	,,	1009·2	998·8	..	23·4	18·6	15·4	17·5	60	..	4·0	..	10·4	0	2	23	2	20	1	0	0	1	1	0	6	0
	2330	,,	1011·3	1000.9	..	18·4	17·0	16·0	18·2	88	..	4·1	..	3·6	0	0	16	0	7	4	0	1	2	0	2	15	0
Dangla	0830	78	1013·5	1004·9	..	23·0	18·5	15·5	17·6	62	..	3·0	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1008·5	999·5	..	26·4	20·5	16·9	19·3	56	..	2·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tezpur	0830	79	1014·0	1004·9	+0·7	21·6	18·0	15·6	17·7	68	−3	1·7	−0·8	4·2	0	0	31	1	25	5	0	0	0	0	0	0	0
	1730	,,	1009·2	1000·3	..	26·4	19·7	22·4	17·5	51	..	2·8	..	3·4	0	0	31	1	18	9	0	0	3	0	0	0	0
Golaghat	0830	..	..	..	..	20·2	17·6	15·4	18·1	74	..	3·7	..	1·6	0	0	24	0	12	0	2	0	2	0	8	7	0
	1730	..	..	..	..	27·9	22·8	20·1	23·5	63	..	(f) 1·5	..	(f) 2.5	0	0	25	0	15	0	0	0	2	0	8	0	0
Rangia	0830	60	1014·4	1007·5	..	23·5	18·9	15·9	18·1	64	..	0·9	..	13·5	0	5	26	0	4	24	2	0	0	0	1	0	0
	1730	,,	1009·8	1003·0	..	27·2	21·1	17·5	20·0	56	..	1·2	..	3·0	0	0	19	1	2	11	2	0	0	2	1	12	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara (R)	0830	38	1011·9	1007·5	..	20·5	18·0	16·3	18·5	78	..	0·9	..	1·4	0	0	22	0	14	3	4	0	0	0	1	9	0
	1730	,,	1010·0	1005·6	..	29·5	22·8	19·3	22·4	57	..	1·3	..	1·7	0	0	24	1	6	1	5	0	2	4	5	7	0
Gauhati	0830	..	..	..	..	24·7	19·3	15·9	18·1	58	−12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(e) Mean of 28 days. *Temporarily closed. (f) Mean of 25 days. (R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)— *(Contd.)*																											
Gauhati (Bhorjor)	0230	54	1009·8	1003·5	..	17·8	16·5	15·6	17·7	87	..	1·2	..	4·1	0	0	15	2	5	4	0	3	1	0	0	16	0
	0530	,,	1010·8	1004·4	..	16·9	15·9	15·2	17·3	89	..	1·3	..	3·0	0	0	13	2	5	3	0	2	1	0	0	18	0
	0830	,,	1012·8	1006·7	+0·5	22·7	18·7	16·1	18·3	66	+4	1·3	—1·0	5·4	0	0	18	3	11	3	1	0	0	0	0	13	0
	1130	,,	1011·4	1005·3	..	28·1	20·4	15·6	17·7	46	..	1·2	..	9·4	0	1	29	10	16	1	0	0	0	2	1	1	0
	1730	,,	1007·9	1001·7	..	26·9	19·9	15·3	17·4	51	..	2·9	..	4·9	0	0	22	4	9	0	1	1	0	4	3	9	0
	2330	,,	1010·7	1004·4	..	19·6	17·4	15·9	18·1	80	..	1·5	..	4·6	0	0	16	1	7	4	0	0	0	1	2	15	1
Dhubri (Rupsi)	0530	36	1010·3	1005·0	..	18·4	16·5	15·2	17·3	82	..	1·4	..	6·8	0	0	29	0	23	5	0	1	0	0	0	2	0
	0830	,,	1012·4	1007·3	..	24·1	18·9	15·5	17·6	59	..	1·5	..	10·0	0	2	29	0	6	20	2	1	1	1	0	0	0
	1130	,,	1011·2	1006·1	.	29·1	20·3	14·6	16·6	42	..	1·1	..	13·5	0	5	26	0	3	18	4	2	3	1	0	0	0
	1730	,,	1007·4	1002·3	..	28·2	19·9	14·5	16·5	45	..	1·2	..	4·1	0	1	20	2	7	2	0	1	1	3	5	10	0
Dhubri	0830	35	1013·4	1009·3	+1·1	23·5	19·2	16·7	19·0	66	0	1·0	—0·8	14·0	0	13	14	2	19	3	2	0	1	0	0	4	0
	1730	,,	1008·1	1004·2	.	27·1	20·0	15·5	17·6	50	..	0·7	..	2·1	0	0	7	1	6	0	0	0	0	0	0	24	0
Lumding	0830	149	1013·8	996·7	..	21·7	17·6	14·7	16·7	65	—11	0·6	..	4·1	0	0	24	1	8	10	4	0	1	0	0	7	0
	1730	,,	1008·4	991·7	..	27·2	19·8	15·0	17·0	50	..	2·3	..	2·3	0	0	14	0	2	3	2	3	2	1	1	17	0
Tura	0830	370	1013·3	971·6	..	23·7	19·2	16·3	18·5	63	..	7·8	..	3·1	0	0	26	1	1	9	5	4	2	3	1	5	0
	1730	,,	1007·7	966·7	..	28·7	25·0	23·3	28·6	73	..	7·6	..	4·3	0	0	30	0	3	2	1	7	12	4	1	1	0
Haflong	0830	682	1013·3	937·6	..	21·3	16·5	13·3	15·3	61	..	2·1	..	9·2	0	0	31	4	0	0	0	3	13	0	11	0	0
	1730	,,	1007·6	932·9	..	23·8	17·7	13·8	15·8	54	..	1·6	..	6·7	0	0	31	1	0	0	0	0	22	0	8	0	0
Silchar (Kumbhirgram)	0530	97	1010·1	999·1	..	18·3	16·5	15·3	17·4	82	..	3·0	..	8·6	0	1	26	0	0	24	2	0	0	1	0	4	0
	0830	,,	1012·3	1001·2	..	22·5	18·5	15·9	18·1	66	..	2·5	..	7·7	0	0	29	0	2	26	1	0	0	0	0	2	0
	1130	,,	1010·6	999·6	..	28·1	20·3	15·4	17·5	44	..	1·9	..	6·3	0	0	30	0	3	10	3	3	3	3	5	1	0
	1730	,,	1007·3	996·5	..	27·7	20·8	16·6	18·9	51	..	2·2	..	4·4	0	2	17	0	1	5	0	0	0	7	6	12	0
Silchar	0830	29	1013·5	1010·1	+0·2	23·5	19·5	17·1	19·5	66	—6	3·2	+0·5	1·6	0	0	25	1	6	8	6	2	1	1	0	6	0
	1730	,,	1008·5	1005·1	..	28·1	21·6	17·9	20·5	54	..	2·2	..	1·1	0	0	16	3	4	1	2	1	1	1	3	15	0
Imphal (Tulihal)	0530	781	1014·9	925·7	..	12·8	11·7	10·4	12·6	86	..	3·5	..	2·5	0	0	10	1	4	0	1	1	2	0	1	21	0
	0830	,,	1014·6	927·5	+0·3	19·2	14·7	11·4	13·5	61	—1	2·4	—0·3	2·2	0	0	8	0	1	1	0	2	2	0	2	23	0
	1130	,,	1011·1	926·0	..	25·1	16·6	10·5	12·7	41	..	3·2	..	9·7	0	2	28	2	1	0	2	5	10	4	5	1	1
	1730	,,	1008·7	925·2	..	23·2	15·7	10·1	12·3	45	..	3·9	..	7·7	0	0	25	0	0	0	1	0	1	16	7	6	0
	2330	,,	1013·5	925·5	..	15·9	13·5	11·7	13·7	76	..	4·0	..	2·7	0	0	11	1	1	1	0	1	1	3	3	20	0
Kailashahar	0530	29	1012·0	1008·7	..	19·4	18·5	17·9	20·5	91	..	2·8	..	2·1	0	0	14	1	0	3	0	3	6	1	0	17	0
	0830	,,	1013·3	1010·0	..	24·0	21·2	19·7	22·9	76	..	2·6	..	4·8	0	0	23	1	0	1	2	7	11	1	0	8	0
	1130	,,	1012·2	1009·0	..	29·8	22·9	19·2	22·2	52	..	2·5	..	5·5	0	1	22	3	1	1	1	5	7	2	3	8	0
	1730	,,	1008·4	1005·2	..	28·9	22·4	18·9	21·8	55	..	2·1	..	2·5	0	0	7	1	3	0	0	3	0	0	0	24	0
Agartala	0230	16	1008·8	1007·0	..	21·6	20·3	19·5	22·7	88	..	2·0	..	7·7	0	0	24	0	0	4	11	7	2	0	0	7	0
	0530	,,	1010·0	1008·2	..	21·1	20·5	20·2	23·7	93	..	3.4	..	7·7	0	1	27	1	1	1	11	11	2	1	0	3	0
	0830	,,	1012·0	1010·2	+0·3	26·3	22·9	21·1	25·0	74	+3	3·3	+0·2	11·4	0	5	23	0	0	1	4	17	6	0	0	3	0
	1130	,,	1010·8	1009·0	..	31·8	23·4	19·0	22·0	47	..	2·9	..	12·0	0	3	26	0	0	1	1	10	10	5	2	2	0
	1730	,,	1007·2	1005·4	..	30·2	22·8	18·8	21·7	51	..	2·2	..	9·9	0	5	24	2	3	1	1	10	5	4	3	2	0
	2330	,,	1010·1	1008·2	..	23·0	20·7	19·4	22·5	79	..	2·0	..	8·8	0	0	24	1	2	0	6	12	3	0	0	7	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1009·5	994·3	..	18·5	15·9	14·0	16·0	76	..	0·6	..	5·2	0	0	24	10	4	8	0	0	0	1	1	7	0
	0530	,,	1010·4	995·0	..	16·6	14·9	13·6	15·6	83	..	1·0	..	4·6	0	0	24	5	10	6	0	0	0	1	2	7	0
	0830	,,	1012·5	997·5	+0·7	24·6	18·1	13·5	15·5	50	—8	1·1	—1·4	12·5	0	8	21	0	8	19	1	0	1	0	0	2	0
	1130	,,	1011·1	996·4	..	29·2	19.8	13·5	15·5	39	..	0·9	..	15·8	0	7	23	0	1	20	5	2	2	0	0	1	0
	1730	,,	1007·1	992·3	..	28·6	19·9	14·2	16·2	42	..	1·9	..	4·7	0	1	18	0	1	7	2	2	2	4	1	12	0
	2330	,,	1010·3	995·1	..	19·7	16·8	14·7	16·7	73	..	1·3	..	7·9	0	1	28	14	9	3	1	0	0	1	1	2	0
Jalpaiguri	0830	83	1012·5	1003·0	+0·7	21·3	17·5	14·9	16·9	67	—3	0·5	—1·0	6·6	0	0	29	9	11	6	1	0	0	0	2	2	0
	1730	,,	1007·1	997·8	..	29·5	19·9	13·5	15·5	37	..	0·5	..	5·5	0	0	28	2	5	5	5	2	4	4	1	3	0
Cooch Behar	0830	43	1012.7	1007·8	..	24·3	18.9	15.3	17.4	57	..	1.3	..	14.2	0	6	25	0	3	25	2	0	1	0	0	0	0
	1130	,,	1011.3	1006·5	..	29.1	20.5	15.1	17.1	43	..	0.8	..	13.8	0	5	26	0	4	14	4	4	3	0	0	0	2
	1730	,,	1007.6	1002.8	..	28.0	20.4	15.7	17.8	48	..	1.8	..	4.4	0	2	8	0	3	2	0	0	2	2	1	21	0
Balurghat	0830	26	1010·9	1008·0	..	25.7	19.3	15.1	17.1	52	..	0.8	..	3.8	0	0	27	5	2	3	6	3	4	3	1	4	0
	1730	,,	1006·2	1003·3	..	30.7	20.5	13.8	15.8	37	..	0.7	..	1.4	0	0	14	1	0	1	2	1	1	7	1	17	0
Malda	0830	31	1011.9	1008.3	+0.5	26.2	18·8	13.7	15.7	46	—3	0.9	—0.2	3.1	0	0	30	2	4	6	2	1	6	0	9	1	0
	1730	,,	1007·4	1003.9	..	31.6	20.4	12.9	14.9	32	..	0.5	..	2.9	0	0	29	2	2	4	2	1	1	0	17	2	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1011.6	1009.4	−0.3	25.6	19.5	15.6	17.7	54	−6	1.1	−1.1	1.0	0	0	10	0	0	2	0	3	0	4	1	21	0
	1730	,,	1006.4	1004.2	..	32.2	20.4	12.4	14.4	30	..	1.0	..	0.3	0	0	4	0	0	0	0	0	0	4	0	27	0
Suri	0830	..	..	..	..	26.9	17.9	11.1	13.2	39	..	0.9	..	4.5	0	0	31	4	1	3	1	11	5	6	0	0	0
Asansol	0230	126	1009.4	994.9	..	20.4	15.9	12.4	14.4	61	..	0.7	..	2.4	0	1	7	0	1	0	0	1	1	0	5	23	0
	0530	,,	1010.2	995.6	..	19.4	15.6	12.7	14.7	66	..	0.7	..	2.6	0	0	14	2	0	1	0	0	3	6	2	17	0
	0830	,,	1012.0	997.8	+0.7	26.7	18.8	13.3	15.3	44	−2	0.5	−1.3	5.9	0	0	29	0	2	0	0	2	3	18	4	2	0
	1130	,,	1010.7	996.8	..	33.6	20.5	11.3	13.4	27	..	0.5	..	9.2	0	4	26	2	1	1	2	3	5	5	11	1	0
	1730	,,	1007.1	993.2	..	32.8	20.1	11.1	13.2	27	..	1.3	..	5.5	0	1	27	2	0	2	0	0	0	8	15	3	1
	2330	,,	1010.0	995.5	..	22.9	17.0	12.6	14.6	53	..	0.8	..	3.9	0	0	17	1	1	0	1	4	1	0	9	14	0
Shanti Niketan	0830	59	1012.3	1005.6	..	27.1	19.7	14.9	16.9	49	..	1.0	..	6.8	0	2	25	2	1	0	1	7	6	2	8	4	0
	1130	,,	1011.5	1004.9	..	33.1	21.0	13.0	15.0	31	..	0.7	..	8.5	0	5	25	3	3	4	1	5	5	2	7	1	0
	1730	,,	1007.5	1000.9	..	32.2	20.5	12.6	14.6	31	..	1.3	..	4.8	0	0	27	3	1	0	2	1	4	7	9	4	0
Krishnanagar	0830	15	1012.1	1010.5	+0.5	27.3	21.6	18.3	21.0	58	−5	0.6	−1.8	0.3	0	0	3	0	0	0	0	1	2	0	0	28	0
	1730	,,	1007.6	1005.9	..	32.6	22.1	15.9	18.1	37	..	0.6	..	0.1	0	0	2	0	0	0	0	2	0	0	0	29	0
Purulia	0830	255	1012.5	984.0	+0.3	26.3	17.0	9.5	11.9	36	−9	0.8	−1.1	2.7	0	0	26	1	0	0	4	0	9	0	12	5	0
	1730	,,	1007.9	980.1	..	32.5	19.2	8.9	11.4	26	..	1.5	..	2.6	0	0	24	0	7	0	1	0	4	0	12	7	0
Bankura	0830	190	1011.1	999.8	..	26.4	17.9	11.5	13.6	40	..	0.3	..	0.8	0	0	11	2	1	0	0	1	1	5	1	20	0
	1730	,,	1007.2	996.2	..	34.2	20.0	9.4	11.8	23	..	1.0	..	0.2	0	0	3	0	0	0	0	1	1	0	1	28	0
Burdwan	0830	32	1012.0	1008.3	+0.3	27.6	21.2	17.5	20.0	55	−8	0.8	−1.5	1.3	0	0	9	1	0	1	1	0	4	1	1	22	0
	1730	,,	1008.0	1004.3	..	33.2	22.0	15.2	17.3	35	..	0.9	..	3.8	0	0	15	0	1	2	0	5	0	7	0	16	0
Barrackpore (Aerodrome)	0530	7	1010.1	1009.3	..	22.1	20.9	20.2	23.7	89	..	2.8	..	3.4	0	0	14	2	0	0	1	1	7	2	1	17	0
	0830	.	1012.2	1011.5	+0.3	26.7	22.6	20.5	24.1	70	+2	1.3	−1.0	6.8	0	0	26	1	0	0	1	4	11	9	0	5	0
	1130	,,	1011.3	1010.6	..	32.5	22.8	17.3	19.7	41	..	0.8	..	8.3	0	0	30	5	2	1	0	3	5	8	5	1	1
	1730	,,	1007.9	1007.2	..	31.4	23.0	18.4	21.1	48	..	1.5	..	6.7	0	1	22	2	0	0	0	9	6	2	4	8	0
	2330	,,	1010.2	1009.4	..	24.6	22.7	21.7	25.9	85	..	1.3	..	5.8	0	0	20	0	0	0	0	6	13	0	1	11	0
Calcutta (Dum Dum)	0230	6	1009.0	1008.2	..	23.5	21.9	21.1	25.0	86	..	2.2	..	3.9	0	0	23	1	0	0	2	11	5	2	2	8	0
	0530	,,	1009.6	1008.8	..	22.2	21.1	20.5	24.1	90	..	3.5	.	2.2	0	0	19	1	0	2	4	7	4	0	1	12	0
	0830	,,	1011.8	1011.0	−0.2	26.8	22.8	20.7	24.4	70	+1	1.5	−1.0	5.5	0	1	26	3	0	1	0	10	7	4	2	4	0
	1130	,,	1010.9	1010.1	..	32.6	22.9	17.5	20.0	41	..	0.9	..	7.0	0	1	28	2	0	1	1	6	11	1	7	2	0
	1730	,,	1007.4	1006.7	..	31.2	22.9	18.4	21.1	48	..	1.3	..	4.5	0	0	18	0	0	0	0	11	6	1	0	13	0
	2330	,,	1009.9	1009.2	..	24.3	22.2	21.1	25.0	83	..	1.6	..	6.2	0	0	27	0	0	1	1	16	6	3	0	4	0
Calcutta	0830	6	1011.7	1011.0	−0.1	27.0	22.7	20.5	24.1	68	−8	1.3	−0.9	6.2	0	0	28	0	1	1	2	4	11	6	3	3	0
	1130	,,	1010.7	1010.0	..	33.5	22.8	16.7	19.0	37	..	1.0	..	7.3	0	0	29	1	2	1	1	7	6	6	5	2	0
	1730	,,	1007.4	1006.7	..	31.7	22.6	17.5	20.0	45	..	1.6	..	7.2	0	1	23	0	0	0	1	14	3	1	5	7	0
Midnapore	0830	45	1012.2	1007.0	+0.4	26.8	20.4	16.5	18.8	55	−4	0.2	−1.6	2.3	0	0	24	4	6	0	0	6	5	1	0	7	2
	1730	,,	1007.7	1002.7	..	34.3	20.8	11.5	13.6	27	..	1.7	..	5.0	0	0	24	5	5	0	0	10	3	1	0	7	0
Contai	0830	11	1011.9	1010.7	+0.3	27.6	23.5	21.5	25.6	70	+2	1.0	−1.3	6.6	0	3	24	4	0	0	1	7	9	5	1	4	0
	1730	,,	1007.8	1006.6	..	28.7	24.5	22.5	27.3	72	..	1.2	..	11.1	0	3	27	0	0	0	3	25	2	0	0	1	0
Sagar Island	0830	3	1011.4	1011.1	−0.4	27.6	25.0	23.8	29.5	80	+7	3.3	+0.3	19.1	0	15	14	2	1	0	1	4	16	3	2	2	0
	1730	,,	1007.6	1007.3	..	28.0	25.5	24.5	30.7	81	..	2.6	..	24.9	0	26	5	0	0	0	4	15	12	0	0	0	0
Sandheads	0530	10	1009.1	1008.0	..	26.5	24.7	23.9	29.7	85	..	2.2	..	17.8	0	10	21	0	0	0	0	3	20	5	3	0	0
	0830	,,	1011.9	1010.8	−0.3	27.5	25.1	24.0	29.8	82	+8	1.8	−0.4	15.8	0	9	21	1	0	0	0	2	19	7	1	1	0
	1130	,,	1011.4	1010.3	..	28.5	25.4	24.1	30.0	77	..	1.4	..	15.7	0	8	23	0	1	0	0	2	20	7	1	0	0
	1730	,,	1007.6	1006.5	..	27.7	25.4	24.3	30.4	82	..	1.8	..	19.8	0	15	16	0	0	0	0	12	18	1	0	0	0
	2330	,,	1009.7	1008.6	..	27.1	25.3	24.5	30.7	85	..	0.7	..	20.0	0	15	16	0	0	0	1	3	26	1	0	0	0
Orissa																											
Baripada	0830	54	1012.8	1006.7	..	27.6	20.5	16.1	18.3	51	..	0.6	..	2.5	0	0	21	4	4	0	2	3	2	3	3	10	0
	1730	,,	1008.2	1002.1	..	32.8	22.5	16.6	18.9	39	..	1.7	..	3.4	0	0	23	2	1	5	9	4	1	1	0	8	0
Jharsuguda	0230	230	1009.3	983.1	..	22.3	16.0	11.0	13.1	50	..	0.7	..	2.3	0	0	14	2	4	3	4	1	0	0	0	17	0
	0530	,,	1010.1	983.8	..	20.5	15.2	10.9	13.0	54	..	1.2	..	2.6	0	0	15	3	7	2	1	0	0	1	1	16	0
	0830	,,	1012.3	986.4	+0.3	26.4	16.9	9.1	11.5	34	−13	1.1	−0.8	4.9	0	0	22	1	6	1	2	2	0	0	0	9	0
	1130	,,	1010.8	985.4	..	33.7	19.2	7.7	10.5	20	..	1.0	..	8.4	0	0	30	4	6	3	0	2	7	6	2	1	0
	1730	,,	1006.5	981.4	..	34.5	18.9	5.7	9.1	17	..	1.6	..	6.8	0	2	20	1	0	0	1	5	5	6	4	9	0
	2330	,,	1009.7	983.7	..	24.7	16.8	10.5	12.7	41	..	1.2	..	3.4	0	0	15	4	3	1	2	3	0	1	1	16	0
Keonjhargarh	0830	463	1002.1	961.1	..	28.6	20.6	16.2	18.4	48	..	0.4	..	1.9	0	0	27	4	6	2	1	1	0	10	3	4	0
	1730	,,	1006.6	956.8	..	32.1	21.4	15.5	17.6	39	..	0.9	..	1.9	0	0	30	6	2	1	0	1	1	17	2	1	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa (*Contd.*)																											
Balasore	0830	20	1012.0	1009.7	0	27.9	22.5	19.6	22.8	62	−5	1.5	−0.4	9.7	0	5	26	5	2	0	2	8	9	0	5	0	0
	1730	,,	1007.7	1005.5	..	29.6	24.1	21.5	25.6	63	..	2.6	..	12.7	0	7	24	1	0	0	12	15	3	0	0	0	0
Sambalpur	0830	148	1011.8	995.0	−0.3	27.1	19.1	13.6	15.6	45	−6	0.8	−0.6	1.7	0	0	12	4	3	1	2	0	2	0	0	19	0
	1730	,,	1003.3	991.9	..	32.5	20.3	11.9	13.9	32	..	1.0	..	0.8	0	0	5	0	2	0	0	0	2	0	1	26	0
Angul	0830	139	1012.6	996.8	+0.5	25.8	20.9	18.1	20.8	62	+2	2.3	0	3.2	0	0	27	3	5	1	2	1	2	4	9	4	0
	1730	,,	1009.1	993.8	..	33.1	24.0	19.3	22.4	45	..	2.2	..	3.3	0	0	29	3	5	2	1	1	2	7	8	2	0
Cuttack	0830	27	1012.4	1009.4	+0.2	27.0	23.7	22.1	26.6	75	+2	2.0	−0.5	4.3	0	1	19	0	0	1	1	4	9	2	3	11	0
	1730	,,	1007.7	1004.8	..	33.2	23.8	18.9	21.8	43	..	2.7	..	9.0	0	1	26	0	0	1	3	14	7	1	1	4	0
Chandbali	0830	6	1012.7	1012.1	+0.9	27.1	23.7	22.1	26.6	75	−1	2.3	−0.3	5.3	0	0	30	1	0	1	1	4	11	7	5	1	0
	1730	,,	1008.2	1007.5	..	29.9	23.8	20.7	24.4	59	..	2.1	..	12.2	0	4	27	1	0	7	21	1	1	0	0	0	0
Bolangir	0830	190	1012.2	990.9	..	29.5	21.8	17.3	19.7	49	..	1.1	..	(c) 3.5	0	0	28	3	3	2	6	8	5	0	1	0	0
	1730	,,	1007.9	986.2	..	34.5	23.2	16.9	19.3	35	..	2.6	..	(c) 3.9	0	0	28	9	5	1	2	4	3	0	4	0	0
Phulbani	0830	464	1011.2	959.0	..	22.5	18.8	16.5	18.8	69	..	0	..	0.1	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1005.4	955.2	..	31.3	21.0	14.5	16.5	38	..	1.5	..	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0
Titlagarh	0830	211	1012.9	989.1	..	28.5	20.5	15.5	17.6	45	..	0.4	..	3.8	0	0	30	2	0	0	1	3	22	0	2	1	0
	1730	,,	1007.9	985.1	..	35.1	22.6	15.1	17.1	30	..	0.4	..	3.5	0	0	28	1	10	0	1	0	10	0	6	3	0
Bhubaneswar	0230	46	1009.5	1004.2	..	24.8	23.3	22.5	27.3	88	..	1.2	..	15.9	0	9	20	0	0	0	0	4	24	1	0	2	0
	0530	,,	1010.2	1004.9	..	23.9	23.0	22.5	27.3	91	..	2.0	..	10.4	0	3	25	0	1	1	0	4	19	3	0	3	0
	0830	,,	1012.5	1007.2	+0.4	27.5	23.8	22.1	26.6	73	+3	1.6	−0.7	12.4	0	6	22	2	1	0	0	4	16	4	0	3	1
	1130	,,	1011.6	1006.5	..	33.4	23.5	18.2	20.9	41	..	0.8	..	13.6	0	8	18	0	3	3	1	4	12	1	2	5	0
	1730	,,	1008.3	1003.1	..	31.0	23.5	19.6	22.8	53	..	2.1	..	24.1	0	23	8	0	1	0	1	17	12	0	0	0	0
	2330	,,	1010.9	1005.6	..	26.1	24.1	23.2	28.4	84	..	0.8	..	15.5	0	8	22	0	0	1	1	6	21	1	0	1	0
Puri	0830	6	1012.6	1011.9	+0.5	28.2	25.6	24.5	30.7	80	+3	2.9	+0.6	9.0	0	0	30	1	0	0	0	1	24	3	1	1	0
	1730	,,	1008.8	1008.1	..	28.0	25.6	24.6	30.9	81	..	2.0	..	13.5	0	6	25	0	0	0	2	13	15	1	0	0	0
Gopalpur	0530	17	1010.1	1008.2	..	23.9	22.7	22.1	26.6	90	..	1.3	..	8.9	0	5	17	1	0	0	0	6	10	1	4	9	0
	0830	,,	1012.5	1010.6	+0.6	26.3	23.6	22.3	26.9	79	+5	1.5	+0.5	12.3	0	8	21	3	0	0	0	14	9	0	3	2	0
	1130	,,	1012.1	1010.1	..	29.8	25.5	23.5	28.9	70	..	0.8	..	17.4	0	14	17	0	0	2	5	19	5	0	0	0	0
	1730	,,	1008.8	1006.9	..	27.8	25.3	24.1	30.0	81	..	2.8	..	21.9	0	21	10	0	1	1	3	17	9	0	0	0	0
	2330	,,	1010.9	1009.0	..	26.0	24.5	23.9	29.7	87	..	0.9	..	18.8	0	16	14	0	0	0	0	13	16	2	0	1	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1011.9	995.0	+0.3	25.9	18.1	12.5	14.5	43	−1	0.3	−0.9	2.3	0	0	12	1	0	1	4	0	2	4	0	19	0
	1730	,,	1006.9	990.4	..	31.6	19.4	10.4	12.6	27	..	0.7	..	3.9	0	0	19	0	1	0	6	1	3	4	4	12	0
Daltonganj	0830	221	1013.5	998.4	−8.8	25.6	18.0	12.5	14.5	44	−10	0	−1.2	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1009.8	994.8	..	28.6	20.1	14.6	16.6	43	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Hazaribagh	0830	611	1011.5	944.2	+0.9	25.9	16.0	7.2	10.1	33	−3	0.7	−1.0	6.8	0	1	23	1	0	0	1	2	8	1	11	7	0
	1730	,,	1006.7	940.6	..	29.5	16.7	4.9	8.7	24	..	1.2	..	11.1	0	2	29	7	0	1	1	0	0	1	21	0	0
Dhanbad	0830	257	1013.0	983.9	..	25.7	16.8	9.6	11.9	37	..	0	..	2.6	0	0	21	0	0	0	1	2	1	13	2	10	2
	1730	,,	1007.9	978.7	..	31.5	18.5	8.0	10.2	21	..	1.0	..	2.1	0	0	11	0	2	1	1	0	0	4	3	20	0
Ranchi	0830	655	1012.1	939.9	+1.1	24.5	18.7	14.8	16.8	54	+15	1.0	−0.6	1.3	0	0	14	1	1	0	1	1	1	0	9	17	0
	1730	,,	1006.0	935.3	..	29.5	18.5	10.1	12.3	33	..	1.3	..	1.3	0	0	13	0	0	1	0	1	0	0	11	18	0
Ranchi Aerodrome	0530	652	1010.6	937.6	..	19.1	12.6	6.0	9.3	43	..	0.6	..	4.9	0	0	21	1	0	0	0	4	6	1	9	10	0
	0830	,,	1011.6	939.8	..	24.4	15.1	6.5	9.7	32	..	1.3	..	7.4	0	0	23	2	2	0	0	3	4	2	10	8	0
	1130	,,	1010.1	939.5	..	29.4	16.0	2.6	7.4	18	..	0.7	..	13.7	0	6	25	4	0	2	1	0	7	6	11	0	0
	1730	,,	1005.9	935.8	..	30.4	16.3	2.1	7.1	17	..	1.7	..	12.5	0	3	27	3	1	0	0	2	2	6	16	1	0
Jamshedpur	0830	129	1012.2	997.6	+0.5	25.1	17.4	11.6	13.7	43	−9	0.9	−0.9	2.6	0	0	29	0	0	0	2	0	1	20	6	2	0
	1730	,,	1006.4	992.2	..	34.7	19.9	8.6	11.2	21	..	1.4	..	2.8	0	0	26	1	1	0	1	1	0	16	6	5	0
Jamshedpur (P.B.O.)	0530	142	1010.4	994.1	..	20.2	15.7	12.2	14.2	60	..	0.9	..	1.7	0	0	10	0	1	2	0	3	1	3	0	21	0
	0830	,,	1012.3	996.3	..	26.1	17.8	11.6	13.7	42	..	0.7	..	2.7	0	0	17	0	0	0	0	4	3	7	3	14	0
	1130	,,	1010.7	995.0	..	32.9	19.7	9.9	12.9	25	..	0.7	..	5.3	0	0	25	1	0	1	0	4	3	5	11	6	0
	1730	,,	1006.9	991.3	..	33.3	19.3	8.4	11.9	21	..	1.5	..	4.1	0	0	19	2	0	3	0	0	2	3	9	12	0
	2330	,,	1009.8	993.9	..	25.2	17.8	12.4	14.4	45	..	1.0	..	2.5	0	0	15	1	3	5	0	3	0	3	0	16	0
Chaibasa	0830	226	1012.1	986.5	+0.4	25.5	19.0	14.7	16.7	51	−7	0.9	−0.8	2.2	0	0	20	0	1	0	2	0	16	0	1	11	0
	1730	,,	1006.3	981.5	..	33.7	20.7	11.8	13.8	26	..	1.4	..	1.9	0	0	18	0	4	0	1	0	4	0	9	13	0
Bihar Plains																											
Motihari	0830	66	1011.3	1003.7	+0.4	22.3	17.1	13.3	15.3	57	+3	0.5	−0.5	2.4	0	0	20	1	0	5	7	1	2	1	3	11	0
	1730	,,	1007.6	1000.2	..	29.1	20.1	14.2	16.2	41	..	0.2	..	(b) 0.6	0	0	4	0	0	0	0	0	1	2	1	25	0

(R) Register not received. (b) Mean of 29 days. (c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MARCH, 1964 (PHALGUNA 11, 1885—CHAITRA 11, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(Contd.)																											
Forbesganj	0830	61	1012.1	1005.1	..	22.9	18.1	14.9	16.9	60	..	0.7	..	8.3	0	4	26	1	1	23	1	0	0	4	0	1	0
	1730	"	1006.9	1000.1	..	30.4	20.8	14.7	16.7	38	..	0.7	..	4.2	0	0	24	0	1	2	0	0	0	18	3	7	0
Darbhanga	0830	49	1012.3	1006.8	+1.1	26.0	21.1	18.3	21.0	64	+10	0.3	−1.0	2.7	0	0	15	0	2	5	1	0	1	4	2	16	0
	1730	"	1007.9	1002.5	..	31.0	26.5	24.5	30.7	66	..	0.6	..	0.9	0	0	10	0	0	2	1	0	0	5	2	21	0
Chapra	0830	58	1012.3	1005.7	..	24.8	18.4	14.0	16.0	52	..	0.8	..	2.6	0	0	22	0	3	1	3	0	13	0	2	9	0
	1730	"	1013.7	1007.2	..	29.0	19.6	13.2	15.2	40	..	0.2	..	3.2	0	0	29	0	1	1	4	0	21	0	2	2	0
Purnea	0830	39	1012.3	1008.1	+0.9	23.3	18.2	14.7	16.7	58	−2	0.8	−0.6	2.8	0	0	26	0	1	16	0	1	3	5	0	5	0
	1730	"	1006.7	1002.6	..	30.7	19.8	12.2	14.2	32	..	0.4	..	3.5	0	0	22	0	0	2	1	0	5	13	1	9	0
Patna	0830	53	1011.8	1005.7	+0.2	24.4	16.9	11.1	13.2	43	−3	0.7	−0.7	7.7	0	1	30	1	3	2	2	3	10	6	4	0	0
	1730	"	1007.2	1001.4	..	32.3	19.5	9.9	12.2	26	..	0.9	..	5.2	0	0	25	2	3	1	0	1	2	13	3	6	0
Patna Aerodrome	0530	60	1008.7	1001.9	..	18.2	14.0	10.4	12.6	61	..	0.7	..	4.4	0	1	15	1	0	2	2	2	3	5	1	15	0
	0830	"	1011.3	1004.5	..	24.3	16.3	9.7	12.0	41	..	0.8	..	10.9	0	2	25	1	2	1	3	2	7	6	5	4	0
	1130	"	1010.7	1004.0	..	31.4	18.5	8.1	10.8	24	..	0.9	..	15.7	0	10	17	3	2	2	1	0	9	5	5	3	0
	1730	"	1006.7	1000.1	..	31.6	18.7	8.5	11.1	24	..	1.1	..	7.2	0	3	17	1	0	3	0	0	0	7	9	11	0
	2330	"	1009.1	1002.2	..	21.8	16.2	11.9	13.9	54	..	0.8	..	3.2	0	1	11	0	2	1	1	1	2	4	1	19	0
Bhagalpur	0530	49	1009.9	1004.2	..	19.9	15.3	11.6	13.7	59	..	0.6	..	3.7	0	0	18	0	0	6	1	3	8	0	0	13	0
	0830	"	1012.2	1006.6	+0.5	25.5	18.1	12.8	14.8	46	−7	0.9	−0.8	5.0	0	2	17	0	1	5	1	0	8	1	3	13	0
	1130	"	1011.4	1005.9	..	32.1	19.6	10.4	12.6	27	..	0.7	..	9.1	0	6	23	1	1	3	2	1	7	10	4	2	0
	1730	"	1007.3	1001.9	..	30.4	19.2	11.0	13.1	30	..	0.9	..	7.2	0	1	29	0	0	2	1	0	2	19	6	1	0
	2330	"	1009.9	1004.3	..	23.7	17.2	12.1	12.3	49	..	1.0	..	3.5	0	0	17	0	1	6	2	1	5	2	0	14	0
Sabaur	0830	37	1012.0	1007.6	+0.8	24.1	18.8	15.3	17.4	58	+8	0.7	−1.1	4.2	0	0	24	2	2	4	0	2	2	16	1	7	1
	1730	"	1007.0	1002.8	..	31.0	21.9	16.6	18.8	41	..	0.7	..	4.0	0	0	25	2	1	2	0	0	0	6	14	6	0
Jamui	0830	82	1012.6	1003.2	..	26.1	18.7	13.6	15.6	49	..	0	..	3.3	0	0	29	1	5	4	2	0	0	7	10	2	0
	1730	"	1007.9	998.6	..	30.9	20.1	12.7	14.7	32	..	0	..	3.3	0	0	31	0	5	2	0	0	0	17	7	0	0
Dehri	0830	107	1011.6	999.4	..	25.9	17.1	10.1	12.3	38	..	1.4	..	4.1	0	0	31	2	1	1	1	5	15	6	0	0	0
	1730	"	1006.7	994.8	..	33.2	18.5	6.1	9.4	19	..	1.1	..	5.5	0	0	31	3	3	2	0	0	0	21	2	0	0
Gaya	0230	116	1009.8	996.3	..	19.0	14.1	9.9	12.2	55	..	0.3	..	3.3	0	0	21	1	0	1	7	6	3	3	0	10	0
	0530	"	1010.1	996.5	..	17.6	13.3	9.5	11.9	60	..	0.7	..	4.8	0	0	24	0	1	1	4	11	5	1	1	7	0
	0830	"	1012.1	998.8	+6.5	25.7	17.5	11.5	13.6	41	+8	0.6	−0.8	7.8	0	2	26	0	1	1	2	2	16	4	2	3	0
	1130	"	1011.3	998.4	..	32.7	20.0	10.9	13.0	27	..	0.9	..	12.6	0	9	20	1	2	4	1	1	2	9	9	2	0
	1730	"	1007.4	994.5	..	32.7	19.6	9.9	12.2	25	..	1.0	..	10.9	0	3	26	3	4	1	0	0	0	1	20	2	0
	2330	"	1010.2	996.8	..	21.9	15.4	10.0	12.3	47	..	0.5	..	2.8	0	0	16	0	0	2	2	4	4	4	0	15	0
Uttar Pradesh (East)																											
Kheri	0830	147	1010.4	993.5	−0.6	20.8	15.6	11.4	13.5	56	−7	0.4	−0.9	2.7	0	0	28	2	1	4	0	0	0	21	0	3	0
	1730	"	1006.4	990.0	..	30.1	21.2	14.7	17.8	43	..	1.2	..	2.1	0	0	20	0	0	4	0	0	0	15	1	11	0
Bahraich	0830	124	1011.4	997.1	+0.5	22.2	15.4	9.8	11.9	48	−8	0.9	+0.3	6.3	0	1	26	0	0	10	1	0	2	13	1	4	0
	1730	"	1007.3	993.4	..	31.2	19.0	9.6	11.9	26	..	1.3	..	4.0	0	0	23	0	0	0	1	0	1	21	0	8	0
Nautanwa	0830	99	1011.1	999.6	..	23.0	15.5	10.9	13.0	53	..	0.4	..	3.8	0	0	29	1	7	6	6	2	4	1	2	2	0
	1730	"	1006.6	995.9	..	31.0	18.7	8.9	11.4	26	..	0.5	..	2.4	0	0	23	0	4	0	1	0	11	3	4	8	0
Hardoi	0830	142	..	..	..	22.0	15.0	8.9	11.4	44	−16	0.9	−0.8	4.5	0	0	28	1	2	1	0	2	1	18	3	3	0
	1730	"	..	..	..	31.5	18.9	8.6	11.2	25	..	0.3	..	4.3	0	0	28	2	1	2	0	1	0	15	7	3	0
Gonda	0830	110	1011.8	999.2	..	24.5	16.2	9.5	11.7	41	−7	0.5	−0.9	3.5	0	0	26	2	0	9	0	0	0	5	10	5	0
	1730	"	1007.4	995.2	..	31.4	19.2	10.1	12.3	29	..	0.9	..	1.3	0	0	9	0	0	0	0	0	0	3	6	22	0
Lucknow	0830	111	1011.4	998.7	+0.1	21.8	15.6	10.4	12.6	50	+2	1.1	−0.3	3.1	0	0	31	0	1	1	0	0	2	27	0	0	0
	1730	"	1007.1	994.8	..	32.5	18.8	6.8	9.9	21	..	1.0	..	2.9	0	0	27	0	0	0	0	0	0	27	0	4	0
Lucknow (Amausi)	0230	128	1009.0	994.2	..	18.0	14.6	11.8	13.8	67	..	0.6	..	6.3	0	1	24	4	2	2	0	1	2	12	2	6	0
	0530	"	1009.1	994.2	..	16.4	13.6	11.1	13.2	72	..	1.1	..	0.7	0	1	24	0	4	1	1	0	5	11	3	6	0
	0830	"	1011.8	996.7	−0.1	22.9	17.2	12.9	14.9	54	+15	1.0	−0.4	10.8	0	5	22	1	3	1	1	2	3	14	2	4	0
	1130	"	1010.9	996.7	..	31.4	20.9	13.5	15.5	35	..	1.3	..	18.0	0	15	16	1	0	1	3	2	3	15	6	0	0
	1730	"	1007.0	993.5	..	32.6	21.4	15.7	15.7	34	..	1.3	..	13.0	0	8	22	2	0	0	1	2	1	11	13	1	0
	2330	"	1009.4	994.8	..	20.7	16.2	12.6	14.6	61	..	1.1	..	6.5	0	0	22	2	0	1	1	3	2	10	3	9	0
Faizabad	0830	102	1011.3	999.6	..	23.0	16.4	10.7	13.3	47	..	0.9	..	3.4	0	0	20	1	0	3	1	1	1	13	0	11	0
	1730	"	1007.0	995.7	..	31.0	20.1	12.1	14.7	33	..	1.2	..	2.7	0	0	18	1	0	0	1	0	2	11	3	13	0
Gorakhpur	0830	77	1011.7	1002.8	+0.6	24.2	16.3	9.8	12.2	41	−11	0.8	−0.3	3.4	0	0	29	1	1	9	1	1	5	10	1	2	[illegible]
	1730	"	1006.5	997.9	..	33.0	18.9	7.2	10.4	21	..	1.3	..	3.2	0	0	28	0	0	1	0	1	6	19	1	3	[illegible]
Gorakhpur P.B.O.	0230	78	1008.7	999.7	..	21.9	14.9	10.1	12.3	49	..	0.6	..	5.0	0	0	20	2	3	1	1	0	1	1	11	11	0
	0530	"	1009.1	1000.1	..	20.1	14.4	10.0	12.3	54	..	0.8	..	6.8	0	0	22	4	4	0	0	0	10	3	1	9	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Gorakhpur P.B.O.—(Contd.)	1130	72	1011.0	1001.9	..	30.6	18.0	9.6	11.9	28	..	0.8	..	9.5	0	0	30	1	3	1	4	5	4	11	1	1	0
	2330	,,	1009.3	1000.3	..	24.0	16.1	10.8	12.9	45	..	0.5	..	1.7	0	0	19	3	2	1	0	1	2	9	1	12	0
Kanpur	0830	126	1011.6	997.2	+0.1	22.4	15.7	10.2	12.4	47	+2	1.1	+0.3	6.1	0	0	26	4	1	1	1	1	6	12	0	5	0
	1730	,,	1007.1	993.5	..	33.3	20.6	11.6	13.7	27	..	1.0	..	10.4	0	0	30	1	0	0	2	1	0	17	9	1	0
Kanpur (Aerodrome)	0530	126	1009.7	995.2	..	18.1	12.7	7.4	10.4	51	..	1.2	..	6.5	0	0	26	3	1	0	1	2	2	14	3	5	0
	0830	,,	1011.9	997.6	..	23.5	15.1	7.4	10.4	36	..	1.4	..	12.9	0	1	28	3	2	2	0	1	4	16	1	2	0
	1130	,,	1011.5	997.5	..	32.2	18.2	5.6	9.5	20	..	1.7	..	14.7	0	4	25	2	0	1	5	3	2	11	5	2	0
	1730	,,	1007.4	993.6	..	33.0	17.8	3.9	8.1	74	..	1.5	..	12.6	0	2	28	4	0	0	4	0	0	9	13	1	0
	2330	,,	1009.8	995.6	..	23.6	15.4	7.9	10.9	38	..	1.1	..	5.1	0	0	20	3	0	0	2	1	1	8	5	11	0
Sultanpur	0830	97	1012.0	1000.8	..	23.3	16.0	10.0	12.3	43	..	1.2	..	3.2	0	0	25	0	0	4	1	0	9	10	1	6	0
	1730	,,	1007.2	995.8	..	32.8	19.2	8.6	11.2	22	..	1.2	..	3.3	0	0	26	0	0	1	2	0	2	16	5	5	0
Azamgarh	0830	78	1011.3	1002.4	..	23.7	16.5	10.8	12.9	45	..	0.6	..	6.3	0	0	31	1	1	3	0	0	0	26	0	0	0
	1730	,,	1007.1	998.5	..	32.3	20.1	11.0	13.6	28	..	0.7	..	5.9	0	0	31	0	0	3	0	0	0	28	0	0	0
Fatehpur	0830	114	1012.0	998.9	..	24.4	16.4	9.8	12.2	40	−12	0.9	−0.4	6.3	0	1	27	1	2	2	1	4	9	6	3	3	0
	1730	,,	1007.4	994.8	..	33.5	19.5	8.3	11.2	22	..	0.8	..	10.6	0	5	26	1	2	2	0	1	1	3	21	0	0
Ballia	0830	64	1012.7	1005.2	..	24.7	19.4	15.4	27.4	58	..	1.0	..	2.1	0	0	20	0	3	2	0	0	5	8	2	11	0
	1730	,,	1008.5	1001.4	..	31.8	25.7	22.1	27.4	57	..	(a) 1.0	..	(a) 1.5	0	0	16	0	1	1	0	0	4	8	2	14	0
Banda	0830	121	1013.4	999.8	..	26.0	15.9	6.9	9.9	30	..	0.4	..	2.0	0	0	31	0	1	0	4	0	20	0	6	0	0
	1730	,,	1008.1	995.0	..	34.3	18.8	3.1	8.8	17	..	0.9	..	2.3	0	0	31	0	2	0	2	0	11	0	16	0	0
Allahabad (Bamhrauli)	0230	98	1009.3	998.0	..	20.1	14.0	8.0	10.7	48	..	0.6	..	1.9	0	0	21	1	2	2	1	2	4	9	0	10	0
	0530	,,	1009.7	998.4	..	18.4	13.5	8.9	11.4	55	..	1.1	..	4.1	0	0	24	1	3	1	2	4	6	6	1	7	0
	0830	,,	1011.9	1000.7	+0.2	24.3	15.8	8.3	10.8	37	−7	1.3	−0.3	4.0	0	0	27	2	2	1	2	2	7	10	1	4	0
	1130	,,	1011.4	1000.5	..	33.1	18.0	5.0	8.7	20	..	0.9	..	6.6	0	0	29	1	2	2	3	1	4	13	3	2	0
	1730	,,	1007.4	996.6	..	33.6	18.4	5.0	8.7	18	..	1.2	..	6.5	0	0	29	4	1	1	0	0	1	6	16	2	0
	2330	,,	1009.8	998.5	..	23.1	15.2	8.3	10.9	39	..	0.9	..	2.2	0	0	18	3	1	1	2	0	2	6	3	13	0
Varanasi (Babalpur)	0530	85	1010.7	1000.6	..	18.5	13.1	8.7	10.9	52	..	0.8	..	5.3	0	0	24	0	1	3	0	2	11	5	2	7	0
	0830	,,	1012.2	1002.7	+0.5	25.0	16.3	8.8	11.4	37	−8	0.9	−0.7	10.3	0	3	23	0	1	2	1	2	9	11	0	5	0
	1130	,,	1012.4	1002.6	..	31.4	18.4	7.8	10.7	24	..	0.7	..	14.8	0	9	22	1	1	1	1	1	9	11	4	0	2
	1730	,,	1008.2	998.5	..	32.8	18.6	6.3	9.9	20	..	0.8	..	4.1	0	9	21	4	1	1	0	0	1	14	7	1	2
	2330	,,	1010.5	1000.6	..	23.9	15.8	8.5	11.4	38	..	0.5	..	4.1	0	0	12	0	0	3	1	0	4	3	1	19	0
Varanasi	0830	76	1011.5	1002.8	−0.1	24.4	16.9	10.9	13.2	43	−5	0.9	−0.5	2.9	0	0	29	0	2	0	1	0	7	18	1	2	0
	1730	,	1006.9	998.5	..	33.0	19.5	8.6	11.7	23	..	0.9	..	3.0	0	0	29	2	4	0	0	0	1	17	5	2	0
Uttar Pradesh (West)																											
Mukhim	0830	..	..	..	..	13.8	7.7	0.6	6.4	43	..	1.8	..	(n) 4.2	0	0	15	1	1	2	5	2	3	0	1	2	0
	1730	..	..	..	..	15.5	8.6	0.9	6.5	40	..	3.6	..	(k) 8.6	0	0	18	5	3	1	1	1	1	6	0	2	0
Tehri	0830	..	..	..	..	14.8	11.3	8.5	11.2	69	..	1.4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	..	..	..	..	23.0	13.9	6.9	10.0	37	..	2.0	..	1.2	0	0	10	4	2	1	0	0	0	1	2	21	0
	1730	..	..	..	..	26.5	14.8	6.0	9.3	30	..	2.8	..	2.5	0	0	24	3	4	1	4	3	5	3	1	7	0
Dehra Dun	0530	682	1011.3	933.8	..	15.3	11.0	7.1	10.0	60	..	1.8	..	2.3	0	1	11	3	8	0	0	0	0	1	0	19	0
	0830	,,	1011.6	935.2	+0.6	19.9	13.7	8.5	11.2	48	−10	1.6	−1.2	1.4	0	1	9	1	4	0	0	1	1	2	1	21	0
	1130	,,	1010.5	936.1	..	26.3	15.7	7.1	10.1	31	..	2.0	..	3.0	0	0	25	0	1	0	4	2	11	5	2	6	0
	1730	,,	1007.1	932.7	..	26.9	16.2	7.9	10.7	31	..	2.9	..	2.9	0	0	29	2	0	0	1	3	10	11	2	2	0
	2330	,,	1011.2	930.3	..	19.8	13.5	8.3	10.9	48	..	1.5	..	2.3	0	0	19	8	7	1	0	1	1	1	0	12	0
Mussoorie	0830	..	..	..	..	13.8	6.9	−2.7	4.9	32	..	0.3	..	1.3	0	0	9	0	6	0	2	0	1	0	0	22	0
	1730	..	..	..	..	14.4	7.6	−1.3	5.5	34	..	5.0	..	4.3	0	0	22	0	1	0	1	0	13	0	5	9	2
Roorkee	0830	274	1012.7	981.1	+1.0	19.1	13.6	8.5	11.2	52	−9	1.9	0	0.6	0	0	19	0	1	0	2	0	0	0	16	12	0
	1730	,,	1008.2	977.8	..	29.6	17.1	5.9	9.4	23	..	2.3	..	1.8	0	0	23	0	1	0	0	0	0	0	22	8	0
Najibabad	0830	270	1011.9	980.8	..	18.9	14.1	10.0	12.3	58	..	1.5	..	2.6	0	0	18	1	1	4	2	0	0	9	1	13	0
	1730	,,	1009.6	979.7	..	29.1	18.1	9.3	11.7	30	..	1.7	..	4.3	0	0	27	0	0	2	7	0	0	10	8	4	0
Meerut	0830	222	1012.2	986.6	+0.5	20.8	17.4	15.2	17.4	71	+14	0.9	−0.9	8.0	0	0	31	5	1	1	2	2	0	10	10	0	0
Bareilly	0830	173	1011.3	991.5	+0.2	22.9	15.2	8.7	11.2	41	−19	0.8	−1.0	3.4	0	0	27	1	1	3	2	1	1	5	13	4	0
	1730	,,	1006.9	987.8	..	31.0	18.5	8.3	10.9	25	..	1.2	..	2.3	0	0	21	3	1	0	0	0	0	4	13	10	0
Bareilly (P.B.O.)	0230	172	1009.1	989.3	..	21.1	14.5	9.1	11.5	47	..	0.8	..	5.2	0	0	28	4	0	4	1	1	0	9	9	3	0
	0530	,,	1009.1	989.5	..	18.9	13.7	9.1	11.5	54	..	0.6	..	4.6	0	0	28	4	3	3	0	0	0	14	4	3	0
	1130	,,	1011.0	991.7	..	28.0	17.6	10.4	12.6	35	..	1.2	..	7.1	0	0	30	3	0	6	1	1	0	12	7	1	0
	2330	,,	1009.6	989.9	..	23.2	15.4	9.7	12.0	43	..	1.2	..	4.9	0	0	27	3	3	3	0	0	0	14	4	4	0

(a) Mean of 30 days

(n) Mean of 17 days

(k) Mean of 30 days

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd.*)																											
Aligarh	0830	187	1012·0	990·0	..	20·6	14·2	8·4	10·3	47	0	1·8	+0·4	3·0	0	0	28	2	0	2	2	2	5	11	4	3	0
	1730	,,	1007·9	986·7	..	31·5	19·2	9·2	12·3	27	..	1·1	..	3·4	0	0	26	3	1	0	0	4	0	13	5	5	0
Mainpuri	0830	157	1011·6	993·5	—0·1	21·3	15·0	9·4	11·8	49	+1	0	—1·6	2·5	0	0	26	1	1	0	5	1	14	0	4	5	0
	1730	,,	1007·2	989·8	..	32·5	19·6	9·6	11·9	27	..	0·1	..	8·7	0	0	27	1	1	2	1	2	10	1	9	4	0
Agra	0830	169	1012·4	993·1	+0·4	22·5	15·6	9·9	12·2	46	+3	0·1	—1·6	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1007·8	989·1	..	32·9	20·0	10·5	12·9	26	..	1·7	..	2·4	0	0	10	0	1	1	1	0	0	0	7	21	0
Agra (Aerodrome)	0530	169	1010·2	990·5	..	16·4	12·7	9·0	11·7	62	..	0·6	..	7·4	0	0	21	2	2	1	5	0	2	2	7	10	0
	0830	,,	1012·2	992·8	..	21·7	15·3	9·9	12·2	48	..	1·4	..	9·4	0	0	24	4	0	0	2	2	4	8	7	4	0
	1130	,,	1011·7	992·9	..	30·4	18·8	9·9	12·4	29	..	1·8	..	17·5	0	7	23	3	2	0	3	3	4	6	9	1	0
	1730	,,	1007·7	989·1	..	32·2	18·9	8·3	11·0	24	..	1·8	..	13·0	0	6	22	6	1	0	1	0	2	3	15	3	0
	2330	,,	1010·4	991·0		21·3	15·3	10·3	12·5	50	..	0·9	..	6·1	0	0	19	3	3	0	4	0	0	3	6	12	0
Orai	0830	141	1014·3	998·6	..	26·0	18·4	12·8	14·8	46	..	1·2	..	2·1	0	0	30	1	6	0	6	0	3	1	13	1	0
	1730	,,	1007·8	992·2	..	33·3	21·0	12·4	14·4	29	..	0·5	..	2·1	0	0	31	0	0	0	0	1	2	2	26	0	0
Jhansi	0830	251	1013·4	985·0	+1·1	24·2	14·9	6·2	9·5	30	—7	0·9	—0·2	1·3	0	0	16	5	1	2	0	0	0	0	8	15	0
	1730	,,	1008·5	981·1	..	34·3	18·5	3·7	8·0	15	..	1·4	..	2·0	0	0	21	8	1	8	0	0	0	2	2	10	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1010·9	974·9	..	17·0	12·3	7·7	10·5	57	..	3·1	..	6·2	0	2	11	2	8	0	0	0	2	0	1	18	0
	0830	,,	1012·1	976·3	+0·5	19·3	13·7	8·5	11·2	52	—4	3·9	+0·2	7·2	0	3	16	3	10	2	0	0	1	1	2	12	0
	1130	,,	1012·3	977·2	..	25·6	15·8	7·0	10·0	32	..	3·9	..	12·4	0	5	23	4	4	3	2	5	4	3	8	3	0
	1730	,,	1009·0	974·2	.	27·1	16·1	5·9	9·4	29	..	4·3	..	13·9	0	3	27	3	3	2	0	1	2	16	3	1	0
	2330	,,	1011·6	975·8	.	19·6	14·3	9·6	12·0	54	..	3·3	..	4·4	0	0	14	3	7	1	1	1	0	1	0	17	0
Amritsar (Rajasansi)	0530	234	1011·2	983·5	.	12·9	11·0	9·2	11·6	79	..	2·2	..	6·9	0	1	20	5	1	2	2	0	0	3	8	10	0
	0830	,,	1012·6	985·3	+0·3	17·0	13·5	10·5	12·7	66	—7	3·3	+0·1	7·9	0	1	23	6	1	3	2	1	1	1	9	7	0
	1130	,,	1012·6	986·1	..	25·4	17·4	11·0	13·4	42	..	3·4	..	10·9	0	3	23	3	2	3	3	0	1	2	12	5	0
	1730	,,	1009·1	982·9	..	27·5	17·8	9·9	12·5	35	..	3·5	..	11·9	0	3	25	5	6	2	1	0	0	3	11	3	0
Adampur	0830	249	1012·3	983·3	..	16·7	13·3	10·8	13·2	69	..	2·9	..	5·8	0	2	17	4	4	2	1	2	0	2	4	12	0
	1730	,,	1009·1	981·3	..	27·7	17·3	10·2	12·3	35	..	3·4	..	16·6	0	0	31	2	2	3	1	1	1	8	13	0	0
Ludhiana	0830	247	1011·9	983·3	0	17·0	12·3	7·8	10·5	56	—5	2·2	0	1·4	0	0	17	1	2	0	1	0	2	6	5	14	0
	1730	,,	1008·4	981·1	..	29·5	18·1	9·2	11·5	29	..	2·4	..	5·0	0	0	29	3	3	2	1	0	0	3	17	2	0
Ferozepur	0830	200	1012·4	988·9	..	15·9	12·9	10·2	12·4	72	..	1·8	..	2·3	0	0	22	3	8	0	0	0	2	0	9	9	0
	1730	,,	1010·1	987·6	..	23·3	18·0	9·8	12·3	30	..	0·9	..	1·9	0	0	23	4	6	0	0	0	0	0	13	8	0
Halwara (Aerodrome)	0830	242	1012·8	984·4 (i)	..	18·4	13·7	9·9	12·2	57	..	2·5	..	8·9	0	2	27	5	3	1	1	2	2	2	13	2	0
	1730	,,	1009·9	982·7 (i)	..	27·9	17·3	8·0	10·7	29	..	2·6	..	11·6	0	2	29	5	1	2	1	1	0	1	20	0	0
Chandigarh	0830	347	1010·6	971·3	—0·4	22·7	14·1	5·8	9·1	35	—17	1·3	—0·2	2·1	0	0	11	0	0	0	4	0	0	0	7	20	0
	1730	,,	1007·1	968·1	..	29·1	16·0	2·6	7·6	19	..	2·3	..	2·7	0	0	24	0	0	0	8	0	1	0	15	7	0
Ambala	0830	272	1011·5	980·3	+0·1	20·9	14·6	9·2	11·6	47	—9	2·2	—0·1	4·9	0	0	25	0	6	0	12	0	3	1	3	6	0
	1730	,,	1007·9	977·7	..	28·8	17·6	8·2	10·9	28	..	0	..	3·6	0	0	20	0	2	0	8	0	0	0	10	11	0
Ambala (P.B.O.)	0230	278	1009·8	977·8	..	19·0	13·9	10·2	12·4	57	..	1·3	..	9·9	0	0	28	1	2	2	2	0	1	3	17	3	0
	0530	,,	1009·5	977·3	..	17·1	13·0	9·8	12·1	63	..	1·1	..	8·7	0	0	25	3	1	1	1	1	1	1	16	6	0
	1130	,,	1011·2	980·0	..	27·4	17·8	11·8	13·8	39	..	2·2	..	11·1	0	0	28	1	0	0	7	0	2	3	15	3	0
	2330	,,	1010·1	978·4	..	21·5	15·3	11·3	13·4	54	..	1·3	..	9·5	0	0	26	0	2	3	2	0	0	0	19	5	0
Ambala (Aerodrome)	0530	274	1009·9	977·9	..	15·1	11·8	8·6	11·2	66	..	1·0	..	7·5	0	5	13	2	0	3	2	0	0	7	4	13	0
	0830	,,	1011·2	979·7	..	19·3	13·6	8·7	10·9	51	..	1·9	..	12·2	0	4	22	1	0	2	7	0	0	3	12	5	1
	1130	,,	1011·1	980·4	..	27·9	17·0	7·6	10·4	28	..	2·4	..	18·7	0	13	18	0	0	3	6	0	1	3	17	0	1
	1730	,,	1007·6	977·1	..	28·9	17·2	7·1	10·1	26	..	2·6	..	17·9	0	10	20	1	1	2	0	3	1	13	9	1	0
	2330	,,	1010·5	978·9	..	18·0	13·9	9·7	12·0	56	..	1·6	..	10·0	0	3	18	0	1	3	1	0	0	10	6	10	0
Patiala	0830	251	1012·0	983·5	..	21·0	15·0	9·7	12·2	49	..	2·4	..	8·4	0	0	21	1	1	0	2	0	0	0	17	10	0
	1730	,,	1008·9	980·9	..	28·6	18·6	8·3	11·2	29	..	2·5	..	9·6	0	0	24	0	0	0	2	0	0	0	22	7	0
Bhatinda	0830	211	1012·9	988·2	..	22·2	17·3	14·0	15·8	60	..	1·3	..	2·1	0	0	21	0	6	0	3	0	1	0	11	10	0
	1730	,,	1010·2	986·6	..	29·1	21·0	16·0	18·3	46	..	0·7	..	2·4	0	0	22	2	3	0	0	0	0	0	17	9	0
Karnal	0530	249	1011·4	983·1	..	23·1	15·8	9·5	11·9	42	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1006·4	978·9	..	28·8	17·2	7·1	10·1	26	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1011·1	985·2	..	15·6	13·4	11·6	13·6	77	..	0·9	..	4·0	0	0	25	5	1	1	1	3	3	4	7	6	0
	0830	,,	1012·8	987·2	+0·5	19·9	16·0	13·1	15·1	66	+15	1·5	—0·2	3·3	0	0	26	0	0	3	1	1	7	6	8	5	0

(i) Mean of 22 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(*Contd.*)																											
Hissar—(*Contd.*)	1130	221	1012.3	987.6	..	28.5	21.5	17.1	19.9	51	..	1.6	..	4.1	0	0	29	4	5	1	4	3	1	6	5	2	0
	1730	,,	1008.4	983.9	..	30.7	23.0	18.2	21.7	49	..	1.6	..	4.6	0	0	28	3	0	1	1	2	2	8	11	3	0
	2330	,,	1011.1	985.7	..	20.1	16.2	13.4	15.3	66	..	0.3	..	9.5	0	0	27	2	2	4	2	0	1	6	10	4	0
New Delhi (Safdarjung)	0230	216	1010.2	985.3	..	19.7	14.2	9.1	11.8	51	..	0.7	..	6.3	0	2	19	2	1	1	2	0	0	6	9	10	0
	0530	,,	1010.1	985.0	..	17.9	13.1	8.7	11.2	55	..	0.6	..	5.6	0	1	19	0	1	2	1	0	3	7	6	11	0
	0830	,,	1012.1	987.1	+0.1	20.7	14.3	8.4	11.1	45	−3	1.5	−0.7	8.7	0	3	21	0	0	2	1	1	2	15	3	7	0
	1130	,,	1011.9	987.6	..	28.9	17.5	8.0	10.8	28	..	1.7	..	14.3	0	0	28	1	1	3	0	2	3	9	9	3	0
	1730	,,	1008.0	983.9	..	30.6	17.9	6.8	10.2	24	..	2.4	..	13.7	0	10	20	2	2	4	1	0	0	7	14	1	0
	2330	,,	1010.5	985.8	..	22.3	15.3	9.4	11.7	45	..	0.8	..	6.3	0	1	21	1	1	2	1	1	0	5	11	9	0
Palam (Aerodrome)	*0230	233	1010.1	983.3	..	18.9	12.9	9.2	11.0	48	..	0.6	..	10.4	0	2	23	5	5	2	6	1	4	5	1	1	0
	0530	,,	1010.5	983.2	..	16.5	12.4	8.2	11.1	60	..	0.6	..	10.0	0	0	30	2	1	2	5	1	12	5	2	1	0
	0830	,,	1012.2	985.1	..	19.6	14.2	9.4	11.8	54	..	1.6	..	9.8	0	0	30	1	0	2	2	2	7	12	4	1	0
	1130	,,	1012.2	986.0	..	28.7	18.0	9.5	11.9	33	..	1.6	..	17.4	0	9	22	4	0	1	2	2	2	10	9	0	0
	1430	,,	1009.2	983.5	..	31.8	19.0	8.8	11.5	26	..	2.0	..	17.4	0	12	18	5	1	1	1	1	2	5	14	1	0
	1730	,,	1008.2	982.4	..	30.9	18.8	8.7	11.9	27	..	2.3	..	18.4	0	8	23	10	2	2	1	1	2	1	12	0	0
	2030	,,	1009.6	983.4	..	24.8	16.9	9.7	12.7	40	..	1.5	..	10.3	0	1	30	7	5	4	3	0	0	2	10	0	0
	2330	,,	1010.6	984.0	..	22.2	15.3	10.7	11.9	44	..	0.7	..	11.0	0	2	28	8	6	7	5	0	0	3	1	1	0
Himachal Pradesh																											
Mandi	0530	761	1014.7	927.9	+0.6	12.7	10.5	8.4	11.1	74	−6	2.8	−1.2	1.0	0	0	10	0	1	0	3	0	2	0	4	21	0
	1730	,,	1007.0	924.0	..	24.4	14.5	6.6	9.7	36	..	3.3	..	2.0	0	0	13	0	1	0	3	0	3	0	6	18	0
Bilaspur	0830	587	1014.2	946.8	..	15.7	12.4	9.8	12.0	70	..	0	..	0.1	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	,,	1008.8	944.4	..	27.6	17.5	9.6	12.7	34	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgar (R)	0830	3106																									
(R)	1730	,,																									
Gilgit (R)	0830	1491																									
(R)	1730	,,																									
Skardu (R)	0830	2288																									
(R)	1730	,,																									
Leh	0530	149	3144.2	667.0	..	−6.6	−8.2	−15.2	1.7	51	..	3.1	..	5.3	0	0	26	13	12	0	0	1	0	0	0	5	0
	0830	,,	3138.9	668.6	+3.6	0.4 (d)	−4.0 (g)	−10.7 (g)	2.5	43 (g)	−11	3.6	−1.3	2.5	0	0	17	0	2	0	0	8	7	0	0	14	0
	1730	,,	3129.0	668.4	..	5.2	−1.0	−21.3	0.8	38	..	4.2	..	2.5	0	0	29	0	4	0	1	5	15	1	3	2	0
Srinagar	0830	1587	1542.1	845.3	+2.4	6.6	5.5	4.4	8.4	87	+2	5.4	+0.5	1.8	0	0	11	0	0	0	2	0	0	2	7	20	0
	1130	,,	1504.7	841.9	..	11.0	8.0	5.2	8.7	69	..	4.6	..	2.0	0	0	13	0	0	0	1	0	2	3	7	18	0
	1730	,,	1513.6	842.7	..	12.9	8.5	4.4	8.4	59	..	5.2	..	3.6	0	0	19	1	0	1	2	1	0	4	10	12	0
Srinagar (Aerodrome)	0530	1666	1523.9	835.8	..	5.4	4.1	2.7	7.4	83	..	5.4	..	2.1	0	0	19	1	2	0	0	1	0	1	4	22	0
	0830	,,	1533.4	836.9	..	6.6	5.1	3.5	7.9	81	..	5.8	..	2.1	0	0	12	1	0	0	1	1	0	1	8	19	0
	1130	,,	1537.9	837.5	..	10.5	7.4	4.3	8.3	67	..	4.9	..	3.3	0	0	20	3	2	1	1	0	0	1	12	11	0
	1730	,,	1510.2	834.8	..	12.7	8.5	4.3	8.4	59	..	5.6	..	6.3	0	1	27	7	2	1	1	0	0	1	16	3	0
	2330	,,	1527.1	836.2	..	7.6	5.6	3.6	7.8	76	..	3.7	..	1.9	0	0	10	1	2	0	0	0	0	3	4	21	0
Gulmerg	0830	2655	Closed during the winter months																								
	1730	,,																									
Quazigund	0830	..	..	..	..	7.3	5.5	3.7	7.9	78	..	5.7	..	1.7	0	0	18	0	3	2	7	1	2	2	1	13	0
	1730	..	..	..	..	12.6	8.3	4.2	8.2	59	..	5.8	..	3.7	0	0	30	2	6	0	5	1	8	7	1	1	0
Banihal	0830	..	..	..	..	9.7	6.4	2.9	7.5	65	..	4.4	..	5.9	0	0	13	3	0	0	0	0	0	0	10	18	0
	1730	..	..	..	..	14.5	8.9	3.5	7.9	50	..	5.7	..	6.5	0	2	14	2	0	0	0	1	0	4	9	15	0
Jammu	0830	..	..	..	..	18.5	14.7	11.7	13.7	66	+14	2.9	+0.3	6.8	0	0	30	6	20	2	0	1	0	0	0	1	1
	1730	..	..	..	..	27.0	18.3	12.1	13.9	42	..	3.6	..	3.7	0	0	31	1	3	1	1	5	6	8	5	0	1
Jammu (Aerodrome)	0530	292	1011.2	977.1	..	16.6	12.6	8.5	10.0	61	..	3.3	..	8.9	0	2	27	1	15	5	1	2	0	3	2	2	0
	0830	,,	1012.3	978.4	..	18.3	13.6	9.1	11.8	57	..	3.5	..	7.8	0	1	29	3	16	4	3	1	1	1	1	1	0
	1130	,,	1012.5	979.3	..	24.5	16.8	10.4	12.9	43	..	3.6	..	7.5	0	0	30	3	3	3	2	4	4	7	4	1	0
	1730	,,	1009.4	976.3	..	26.5	17.7	10.8	13.1	39	..	4.6	..	10.4	0	2	28	2	2	0	1	2	5	15	3	1	0
	2330	,,	1011.6	977.8	..	18.9	14.1	9.9	12.2	58	..	2.4	..	5.2	0	1	23	2	17	5	0	0	0	0	0	7	0
Rajasthan (West)																											
Ganganagar	0530	177	1010.8	990.1	..	16.5	13.3	10.5	12.7	69	..	1.4	..	3.7	0	0	22	6	3	3	3	1	0	2	4	9	0
	0830	..	1012.5	991.9	+0.9	18.5	14.3	10.7	12.9	61	−2	1.7	−0.2	3.7	0	0	27	7	4	2	3	5	2	1	3	4	0
	1130	,,	1012.3	992.4	..	28.5	19.2	12.4	14.7	38	..	2.4	..	8.9	0	1	30	3	9	3	4	3	3	1	5	0	0
	1730	,,	1008.5	988.8	..	31.2	20.1	12.2	14.5	32	..	1.0	..	4.6	0	0	26	6	2	1	0	0	3	1	13	5	0
	2330	,,	1011.1	990.7	..	21.2	16.1	11.9	14.2	56	..	0.6	..	3.6	0	0	22	8		4	1	0	0	0	1	9	0

(d) Mean for 27 days. (R) Register not received. *Wind directions for 30 days. (g) Mean for 24 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)— *(Contd.)*																											
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	0830	187	1011·2	989·7	..	21·1	16·6	12·7	15·3	60	..	(b) 1·2	.	(b) 6·8	0	0	28	2	5	5	5	4	4	1	2	1	0
	1730	,,	1007·0	986·2	..	32·5	23·7	16·7	22·2	47	..	(d) 0·1	..	(d) 8·5	0	0	25	2	0	1	0	0	4	5	13	2	0
Churu	0830	291	1012·9	979·3	.	19·5	14·4	10·2	12·3	56	..	1·2	..	4·5	0	1	21	3	0	7	1	5	3	3	0	9	0
	1730	,,	1007·6	975·6	..	32·2	22·6	16·1	18·9	42	..	(a) 1·1	..	11·6	0	4	27	14	0	0	0	1	1	6	9	0	0
Bikaner	0830	224	1012·4	986·6	0·5	21·0	12·9	3·5	8·4	56	−·7	0·4	−1·4	3·2	0	0	28	2	6	0	10	3	5	1	1	3	0
	1730	,,	1007·7	983·6	..	32·9	17·7	3·3	7·5	19	..	0·4	..	5·2	0	0	30	7	2	1	3	0	4	0	13	1	0
Bikaner PBO	0530	224	1010·6	984·5	.	17·7	11·5	3·8	8·2	42	..	0·7	..	1·7	0	0	8	3	0	0	0	2	3	0	0	23	0
	1130	..	1011·9	986·3	.	30·9	16·5	3·0	7·9	19	..	1·5	..	5·2	0	0	24	6	5	2	1	4	5	1	0	7	0
	2330	,,	1010·7	985·1	..	2[illegible]·2	14·0	4·4	8·6	31	..	0·8	..	3·9	0	1	17	8	3	2	0	1	0	1	3	13	0
Nagaur	0830	298	1012·[illegible]	978·6	..	25·1	17·3	10·9	13·4	43	..	0·7	..	6·8	0	0	31	4	5	3	3	3	9	1	3	0	0
	1730	,,	1007·6	975·6	..	32·4	22·6	16·5	19·4	44	..	1·2	..	7·9	0	0	31	5	1	0	1	2	5	3	14	0	0
Phalodi	0830	234	1012·5	985·3	.	28·1	14·0	7·3	10·2	45	..	1·0	..	6·3	0	0	30	5	4	1	6	6	5	3	0	1	0
	1730	,,	1009·1	983·3	..	33·3	20·9	11·5	14·2	27	..	1·3	..	12·4	0	2	28	6	5	0	1	2	3	11	2	1	0
Jaisalmer	0830	242	1011·3	983·5	..	21·5	11·6	5·4	11·0	43	..	1·5	..	6·5	0	1	30	4	4	1	1	3	3	1	14	0	0
	1730	,,	1006·3	976·3		31·7	19·0	6·3	9·5	19	..	(a) 1·1	..	(a) 6·5	0	0	30	9	4	0	0	5	7	0	5	0	0
Jodhpur	0830	224	1010·3	984·7	..	25·8	13·8	3·1	7·6	26	..	0·6	..	9·7	0	1	27	5	10	1	0	0	4	8	0	3	0
	0530	,,	1010·3	984·5	..	29·0	12·9	3·6	7·9	33	..	1·0	..	7·0	0	0	28	4	14	3	0	0	4	2	1	3	0
	0830	,,	1012·1	986·7	1·5	23·1	13·8	3·9	8·1	29	−·7	1·3	0·7	6·1	0	0	21	1	14	0	1	1	4	2	0	7	1
	1130	,,	1011·7	986·8	..	32·0	18·2	6·0	9·3	21	..	0·9	..	10·0	0	1	26	4	4	2	3	4	8	3	1	2	0
	1730	,,	1007·6	982·8	..	34·8	13·6	3·9	8·1	15	..	1·8	..	10·9	0	1	29	5	2	0	2	1	7	6	7	1	0
	2330	,,	1010·7	985·6	..	26·0	15·1	4·2	8·2	25	..	0·7	..	10·0	0	1	27	7	10	0	0	2	3	6	0	3	0
Barmer	0530	194	1009·5	987·4	..	23·1	16·1	10·1	12·7	45	..	0·3	..	3·7	0	0	22	1	0	0	1	0	2	8	10	9	0
	0830	,,	1011·5	989·3	−0·2	22·7	16·2	11·0	13·1	19	−·6	0·6	−1·0	2·5	0	0	21	2	6	1	1	0	1	4	12	10	0
	1130	,,	1011·5	989·9	..	31·6	19·9	11·4	13·7	30	..	0·7	..	4·1	0	0	29	4	2	2	7	2	3	3	6	2	0
	1730	,,	1007·1	985·8	..	35·2	21·5	12·0	14·5	26	..	1·2	..	4·2	0	0	27	2	2	1	1	3	7	5	6	4	0
	2330	,,	1009·7	987·9	..	28·0	17·8	9·6	12·1	52	..	0·5	..	3·4	0	0	27	0	0	0	0	0	7	6	14	4	0
Munabao (R)	0830	30																									
(R)	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1013·2	978·7	..	20·8	13·5	6·3	9·5	40	..	0·5	..	9·8	0	1	28	5	1	4	3	3	5	7	1	2	0
	1730	,,	1008·3	994·5	..	31·5	17·1	3·5	7·9	17	..	0	..	14·5	0	5	26	12	1	0	0	0	0	8	10	0	0
Sikar	0830	433	1012·0	963·3	..	22·3	15·3	9·0	11·7	44	..	0·8	..	8·6	0	0	6	0	1	0	3	0	2	0	0	25	0
	1730	,,	1007·3	960·3	..	32·9	19·0	8·1	10·7	23	..	0·4	..	2·3	0	0	22	7	2	0	0	0	0	9	4	9	0
Alwar	0830	271	1011·3	980·4	..	22·8	17·7	14·1	16·1	58	..	1·3	..	1·0	0	0	11	1	2	2	1	2	2	0	1	20	0
	1730	,,	1007·4	977·6	..	32·7	23·2	18·1	20·8	43	..	2·4	..	1·8	0	0	24	4	2	0	0	0	6	1	11	7	0
Jaipur (Sanganer)	0230	390	1009·9	965·6	..	21·0	12·7	3·8	8·0	33	..	0·5	..	4·8	0	0	19	5	6	6	0	0	0	0	2	12	0
	0530	,,	1010·6	965·8	..	18·8	11·9	4·5	8·4	40	..	0·8	..	3·0	0	0	15	7	2	4	1	0	0	0	1	16	0
	0830	,,	1012·0	967·9	−0·4	22·9	14·0	5·1	8·8	33	−4	(a) 1·4	−0·3	3·7	0	1	13	2	2	6	2	0	0	0	2	17	0
	1130	,,	1011·3	968·3	..	30·6	16·5	2·4	7·4	18	..	1·4	..	6·5	0	0	25	2	1	3	3	4	0	5	6	6	1
	1730	,,	1006·8	964·3	..	32·6	17·0	0·9	6·8	14	..	1·6	..	7·9	0	1	23	2	0	0	0	1	1	4	16	7	0
	2330	,,	1010·3	966·2	..	22·6	13·5	3·9	8·1	30	..	0·6	..	3·0	0	0	13	5	2	3	0	0	0	1	2	18	0
Dholpur	0830	176	1011·7	991·5	..	23·0	14·6	6·7	9·8	36	..	0·8	..	4·5	0	0	25	1	2	1	3	2	2	6	8	6	0
	1730	,,	1007·0	987·6	..	33·5	18·1	4·1	8·3	16	..	1·1	..	5·5	0	0	27	6	1	1	1	0	0	7	11	4	0
Ajmer	0830	486	1012·7	957·9	0	21·9	13·4	5·8	9·2	36	0	2·2	+0·3	2·6	0	0	14	0	6	0	0	0	3	3	2	17	0
	1730	,,	1007·1	954·5	..	32·4	16·0	5·4	6·3	13	..	2·4	..	9·2	0	2	28	4	0	0	0	1	8	9	8	1	0
Tonk	0830	272	1011·3	980·3	..	21·4	15·4	10·1	12·4	48	..	1·5	..	6·8	0	0	31	3	1	0	7	2	4	6	8	0	0
	1730	,,	1006·0	976·3	..	33·7	22·4	15·6	17·8	35	..	1·0	..	5·0	0	0	31	0	0	0	3	2	3	7	16	0	0
Bhilwara	0830	425	1012·6	964·7	..	23·1	13·7	3·3	8·1	29	..	2·1	..	4·4	0	0	24	6	8	0	0	4	4	1	1	7	0
	1730	,,	1007·2	961·2	..	33·1	17·5	1·4	7·3	16		2·3	..	4·6	0	1	16	4	3	0	0	2	1	4	3	14	0
Kota (Aerodrome)	0530	274	1010·3	979·1	..	21·3	12·7	3·1	7·6	31	..	1·3	..	8·4	0	1	28	1	1	3	0	3	10	11	0	2	0
	0830	,,	1012·5	981·5	..	24·7	14·4	3·7	8·0	26	..	1·9	..	9·4	0	3	27	0	4	3	1	0	6	12	4	1	0
	1130	,,	1012·1	981·7	..	31·2	17·0	3·5	7·9	18	..	1·5	..	10·5	0	3	28	3	6	8	6	1	0	3	4	0	0
	1730	,,	1007·4	977·4	..	34·8	17·6	0·3	6·2	12	..	1·6	..	15·8	0	5	26	10	6	1	0	0	2	6	6	0	0
	2330	,,	1010·5	979·5	..	25·4	14·3	2·6	7·4	24	..	1·1	..	9·1	0	1	30	1	0	0	1	6	7	12	4	0	0

(R) Register not received. (a) Mean of 30 days. (d) Mean of 27 days. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(*Contd.*)																											
Kota	0830	257	1012.2	983.2	0	25.7	15.5	6.0	9.4	28	—6	1.9	+0.4	3.9	0	1	18	2	2	1	1	2	2	6	3	12	0
	1730	,,	1007.3	979.2	..	34.0	18.3	3.9	8.1	15	..	1.6	..	7.0	0	2	20	7	1	1	1	1	1	6	4	9	0
Erinpura (Jawai Dam)	0830	295	1012.4	979.0	..	23.4	17.5	12.5	14.9	52	..	1.1	..	5.0	0	0	22	1	1	1	2	15	2	0	0	9	0
	1730	,,	1007.8	975.4	..	33.1	23.3	17.4	20.5	42	..	1.5	..	4.9	0	0	27	7	0	0	0	1	5	13	1	4	0
Chambal (Rawat Bhatta Dam)	0830	351	1012.6	972.8	..	23.0	14.2	5.5	9.1	33	..	1.2	..	0.5	0	0	6	0	2	0	2	0	1	0	1	25	0
	1730	,,	1007.0	968.9	..	34.2	17.9	2.1	7.3	13	..	1.5	..	7.0	0	2	28	4	5	0	0	1	5	1	14	1	0
Udaipur	0230	582	1011.4	946.1	..	20.0	13.7	8.4	11.0	49	..	0.7	..	0.5	0	0	3	0	0	0	0	0	3	0	0	28	0
	0530	,,	1011.8	945.9	..	17.7	12.7	8.1	10.8	51	..	0.7	..	0.4	0	0	2	0	0	0	0	0	1	0	1	29	0
	0830	,,	1012.9	947.9	+0.3	22.9	15.1	8.9	11.4	42	—5	1.6	+0.3	1.3	0	0	7	3	1	0	0	0	0	3	0	24	0
	1130	,,	1011.3	948.0	..	31.0	18.1	8.9	11.4	26	..	1.1	..	3.6	0	0	21	1	4	4	0	4	4	4	0	10	0
	1730	,,	1007.2	944.5	..	32.4	19.0	9.6	11.9	26	..	1.8	..	4.3	0	0	21	3	5	1	1	3	7	1	0	10	0
	2330	,,	1011.6	946.6	..	22.4	14.8	8.9	11.4	45	..	0.7	..	0.4	0	0	2	0	0	0	0	1	0	0	1	29	0
Jhalawar	0830	321	1012.1	975.6	—0.4	22.6	13.8	5.1	8.8	31	—5	0.5	—0.7	2.5	0	0	28	1	3	5	2	4	6	3	4	3	0
	1730	,,	1006.3	971.5	..	35.1	17.7	—3.4	6.1	11	..	0.7	..	5.0	0	0	31	3	2	0	2	0	5	11	8	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1010.0	986.1	..	19.6	12.4	4.9	8.6	39	..	1.1	..	2.9	0	1	15	1	0	1	1	5	5	0	3	15	0
	0530	,,	1010.2	986.2	..	18.3	11.9	5.0	8.8	43	..	1.1	..	3.8	0	0	22	1	0	1	2	6	6	2	4	9	0
	0830	,,	1011.9	988.4	0	24.6	14.9	5.4	9.1	30	—8	1.5	+0.2	4.7	0	1	17	1	0	2	1	4	1	2	7	13	0
	1130	,,	1011.6	988.6	..	31.9	17.1	2.6	7.5	17	..	1.5	..	9.9	0	4	27	5	1	3	3	5	2	2	10	0	0
	1730	,,	1007.4	984.7	..	33.5	17.7	2.8	7.4	14	..	1.7	..	9.9	0	2	29	8	4	0	0	2	0	3	14	0	0
	2330	,,	1010.4	986.6	..	21.6	13.5	5.4	9.0	35	..	1.2	..	3.0	0	1	11	2	0	0	0	4	3	2	1	19	0
Sheopur	0830	235	1012.3	985.4	+0.3	22.9	14.2	5.8	9.1	34	—8	1.3	—0.6	4.4	0	0	23	4	3	1	6	6	2	0	1	8	0
	1730	,,	1007.2	981.5	..	34.1	17.9	2.4	7.4	14	..	1.5	..	9.5	0	3	27	13	0	0	0	5	3	2	7	1	0
Shivpuri	0830	464	1012.0	960.2	..	24.7	14.1	4.1	8.3	27	..	1.3	..	5.5	0	3	18	2	5	3	4	2	3	1	1	10	0
	1730	,,	1006.8	956.5	..	32.5	16.2	1.1	6.5	14	..	1.4	..	5.7	0	0	30	2	5	0	0	0	0	11	12	1	0
Nowgong	0830	229	1012.5	986.2	+0.1	21.4	14.3	7.7	10.6	42	—4	1.1	—0.7	1.4	0	0	10	0	0	1	0	3	5	1	0	21	0
	1730	,,	1007.5	982.4	..	34.4	18.1	3.2	7.5	16	..	1.1	..	3.0	0	0	18	2	0	1	0	0	4	1	10	13	0
Guna	0530	478	1011.3	956.5	..	17.1	10.3	3.0	7.6	40	..	0.9	..	5.4	0	0	27	3	4	3	12	2	0	3	0	4	0
	0830	,,	1012.0	958.7	—0.4	25.2	14.0	3.3	7.9	25	—12	0.9	—0.1	4.6	0	1	29	3	2	9	11	3	1	1	0	1	0
	1130	,,	1010.9	958.9	..	32.7	16.8	2.6	7.5	16	..	1.3	..	10.1	0	3	27	4	2	5	7	3	2	3	4	1	0
	1730	,,	1006.5	954.9	..	33.4	16.7	1.3	6.9	13	..	1.6	..	14.1	0	4	27	3	2	2	0	0	2	11	11	0	0
	2330	,,	1011.1	957.2	..	21.4	12.6	4.2	8.2	33	..	0.8	..	4.3	0	1	26	6	1	4	7	1	2	2	4	4	0
Nimach	0830	496	1012.7	957.1	+0.3	23.6	12.9	1.4	7.1	25	—12	1.4	+0.1	6.0	0	0	29	1	10	8	2	1	2	3	1	2	1
	1730	,,	1007.2	953.8	..	33.4	16.6	0.6	6.7	13	..	1.5	..	10.9	0	2	28	2	4	0	0	0	3	13	7	1	1
Rajgarh	0830	382	1012.5	969.1	..	21.2	13.3	3.8	8.3	32	..	0.2	..	3.2	0	0	27	8	2	8	2	4	0	2	1	4	0
	1730	,,	1007.1	965.6	..	33.9	18.0	2.2	7.7	15	..	0	..	3.8	0	0	30	17	3	2	2	3	0	2	1	1	0
Sagar	0830	551	1011.8	950.7	+0.4	24.8	13.1	1.8	7.5	24	—7	1.0	—0.3	2.8	0	0	21	0	4	7	2	0	2	5	1	10	0
	1730	,,	1006.5	947.2	..	32.9	15.9	—0.7	5.6	13	..	1.3	..	3.6	0	0	23	0	1	2	0	0	1	10	9	8	0
Ratlam	0830	486	1012.3	958.0	+0.4	24.6	17.3	12.1	14.4	46	+4	0.8	—1.1	9.2	0	1	29	1	10	7	2	3	2	4	1	1	0
	1730	,,	1006.8	954.5	..	34.3	22.9	16.9	19.5	37	..	1.6	..	9.7	0	2	28	3	5	1	1	1	7	7	5	1	0
Bhopal (Bairagarh)	0230	523	1010.0	951.4	..	21.9	12.6	3.1	7.8	30	..	0.9	..	8.5	0	1	29	7	8	1	5	0	1	3	5	1	0
	0530	,,	1010.6	951.6	..	20.0	11.7	3.2	7.7	34	..	1.0	..	7.6	0	1	27	3	8	3	4	3	2	2	3	3	0
	0830	,,	1012.3	954.1	+0.3	25.1	14.3	4.0	8.3	27	—2	1.0	—0.1	11.0	0	4	27	3	5	5	8	3	2	2	3	0	0
	1130	,,	1010.8	954.1	..	32.3	16.9	3.4	8.0	17	..	0.8	..	13.9	0	7	24	1	6	4	5	6	3	2	4	0	0
	1730	,,	1006.3	950.1	..	33.8	17.3	3.1	7.7	15	..	1.7	..	13.7	0	6	25	6	1	1	1	3	2	9	8	0	0
	2330	,,	1010.5	952.3	..	24.2	13.5	3.1	7.7	26	..	0.8	..	8.3	0	1	26	8	6	3	1	3	0	3	3	4	0
Ujjain	0830	489	1012.5	957.4	..	21.9	13.8	6.8	9.9	38	..	0.7	..	4.9	0	1	18	0	2	3	4	1	2	5	1	12	1
	1730	,,	1007.7	954.9	..	34.0	17.9	4.8	8.7	17	..	1.2	..	12.3	0	7	23	3	1	1	0	1	1	10	12	1	1
Narsinghpur	0830	356	1012.6	972.4	..	24.3	16.4	10.1	12.3	42	..	0.6	..	5.6	0	0	28	3	4	8	1	2	0	4	4	3	2
	1730	,,	1006.3	967.8	..	35.1	22.1	13.7	15.9	29	..	0.8	..	3.2	0	0	29	4	1	3	2	2	2	14	1	2	0
Hoshangabad	0830	302	1012.8	978.5	—0.2	23.5	16.0	9.3	12.1	42	+8	0.7	—0.5	3.8	0	0	28	1	2	9	7	1	5	2	1	3	0
	1730	,,	1006.5	973.7	..	35.6	21.0	10.4	12.9	23	..	1.5	..	4.6	0	0	29	2	5	0	4	1	8	4	4	2	1
Indore	0530	567	1011.0	947.0	..	19.0	11.1	2.6	7.5	35	..	0.6	..	8.2	0	2	21	3	3	6	0	1	3	4	3	8	0
	0830	,,	1012.4	949.3	+0.2	23.8	13.5	3.5	8.0	28	—4	0.3	—0.8	8.8	0	3	21	2	2	4	1	5	4	5	1	7	0
	1130	,,	1010.8	949.4	..	31.9	16.1	1.7	6.9	15	..	0.5	..	15.4	0	10	20	1	4	10	0	1	4	4	3	1	3
	1730	,,	1006.2	945.4	..	33.8	16.5	—0.2	6.1	12	..	0.9	..	16.1	0	11	20	7	2	1	0	1	8	6	4	0	2
	2330	,,	1010.6	947.9	..	23.9	12.8	1.1	6.7	23	..	0.6	..	11.7	0	3	25	0	4	3	1	1	9	4	6	3	[illegible]

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Rajpur (Jhabua)	0830	293	1012·9	979·5	..	22·8	16·9	12·3	14.5	53	..	0.6	..	4·1	0	0	16	0	1	3	0	0	1	11	0	15	0
	1730	,,	1007·5	975·6	..	35·5	22·3	13·5	16.1	29	..	1·1	..	11·1	0	6	19	0	0	1	0	0	2	22	0	6	0
Chhindwara	0830	685	1012.4	93[illegible]·5	+0·4	23·2	16·2	10·7	13.3	47	+7	0·6	—1·0	3·3	0	0	21	2	11	2	0	1	0	3	2	10	0
	1730	,,	1005·4	932·4	..	32·7	20·5	12·1	15.1	31	..	1·5	..	8·4	0	2	26	4	0	0	1	2	2	10	9	3	0
Seoni	0830	619	1012·4	943·9	+0·8	24·4	15·0	6·7	10·2	34	−3	0·7	−0·6	4·7	0	0	28	7	5	1	1	2	4	3	5	3	0
	1730	,,	1005·7	939·8	..	33·1	18·1	6·4	9·7	20	..	2·4	..	6·8	0	0	30	4	1	2	1	3	8	1	10	1	0
Betul	0830	653	1012·4	940·1	+0·4	23·7	14·1	5·1	9·1	32	−3	0·8	−1·0	3.0	0	0	24	1	5	3	8	3	1	0	3	7	0
	1730	,,	1006·1	936·4	..	33·3	16·7	1·4	6·9	14	..	1·5	..	5·0	0	0	29	4	4	0	2	0	0	5	14	2	0
Khandwa	0830	318	1012·5	976·7	+0·6	25·4	16·5	8·9	11·5	36	+3	0·6	−0·3	2·3	0	0	24	3	3	2	0	3	4	4	5	7	0
	1730	,,	1006·3	971·9	..	36·2	21·5	11·0	13·7	23	..	1·5	..	4·1	0	0	31	0	3	0	0	2	4	3	19	0	0
Madhya Pradesh (East)—																											
Satna	0530	317	1010·5	974·0	..	17·8	11·3	4·0	7·7	41	..	0·8	..	1·7	0	0	19	3	1	3	1	2	4	3	2	12	0
	0830	,,	1012·2	976·1	+0·2	22·2	13·2	3·3	7·9	29	−11	1·0	−0·5	1·2	0	0	15	0	0	2	0	3	3	7	0	16	0
	1130	,,	1011·1	976·2	..	32·2	17·0	1·1	7·1	15	..	0·9	..	3·2	0	0	27	5	0	3	2	6	5	5	1	4	0
	1730	,,	1006·9	972·3	..	33·2	16·7	−2·2	5·1	10	..	0·5	..	4·9	0	0	29	6	1	2	0	0	3	3	14	2	0
	2330	,,	1009·9	974·3	..	23·5	14·1	4·4	8·5	30	..	0·8	..	1·9	0	0	16	3	2	3	0	2	1	4	1	15	0
Sidhi	0830	272	1012·3	981·4	..	22·8	15·1	8·2	10·9	40	..	0·9	..	1·5	0	0	23	2	0	0	0	3	11	5	2	8	0
	1730	,,	1006·5	976·8	..	34·0	18·4	4·3	8·5	16	..	0·8	..	3·2	0	0	29	3	2	0	0	0	4	11	9	2	0
Umaria	0830	459	1012·5	960·7	..	22·1	14·9	9·1	11·7	44	+2	0·6	−1·2	0·8	0	0	10	1	0	2	3	0	2	2	0	21	0
	1730	,,	1006·6	957·0	..	33·5	19·0	8·3	11·5	22	..	1·0	..	6·6	0	0	31	7	0	0	0	0	1	2	21	0	0
Jabalpur	0530	393	1011·3	966·3	..	17·6	12·6	7·6	10·6	53	..	1·1	..	1·0	0	0	14	0	0	1	9	3	1	0	0	17	0
	0830	,,	1012·6	968·6	+1·0	24·8	15·4	6·6	9·9	32	−11	0·8	−0·4	1·7	0	0	14	0	1	0	6	4	1	1	1	17	0
	1130	,,	1010·8	968·0	..	33·3	18·2	4·7	8·7	17	..	1·0	..	4·1	0	0	29	2	4	1	4	5	4	4	5	2	0
	1730	,,	1006·5	964·1	..	34·2	18·5	4·4	8·4	16	..	1·4	..	4·6	0	0	27	8	1	1	1	1	3	7	5	4	0
	2330	,,	1010·8	966·4	..	22·2	14·8	8·0	10·9	41	..	1·0	..	1·2	0	0	13	0	3	3	4	2	0	0	1	18	0
Ambikapur	0830	611	1012·7	944·9	+0·6	23·4	15·1	8·5	11·1	40	−8	0·6	−0.6	2·3	0	0	15	1	4	2	0	2	4	2	0	16	0
	1730	,,	1006·6	940·8	..	31·3	17·2	5·7	9·1	21	..	1·6	..	8·1	0	0	29	14	4	0	0	1	2	4	4	2	0
Pendra	0530	625	1011·0	941.1	..	20·6	12·6	4·8	8·8	37	..	1·1	..	5·0	0	0	28	7	2	1	0	2	4	4	8	3	0
	0830	,,	1012·2	943·4	+0·4	25·6	15·1	5·9	9·5	30	−11	1·0	−0·4	6·6	0	2	28	11	1	1	0	7	3	1	5	1	1
	1130	,,	1010·5	943·0	..	31·1	16·8	4·4	8·7	20	..	1·0	..	10·1	0	2	28	10	2	0	0	7	5	2	2	1	2
	1730	,,	1006·6	939·4	..	31·2	16·6	3·3	8·2	19	..	2·0	..	8·2	0	0	31	13	2	1	0	2	3	4	5	0	1
	2330	,,	1010·9	941·7	..	23·3	13·9	5·3	9·1	32	..	1·1	..	4·7	0	0	28	3	1	1	0	1	3	11	8	3	0
Mandla	0830	443	1013·0	963·0	+0·3	21·8	14·8	8·6	11·2	44	−13	0·8	−1.1	0·4	0	0	2	0	0	0	1	1	0	0	0	29	0
	1730	,,	1006·5	958·5	..	32·6	17·6	2·4	8·0	17	..	1·9	..	2·0	0	0	9	5	0	0	0	1	1	0	2	22	0
Champa	0830	245	1012·5	984·7	+0·2	25·6	17·0	9·9	12·4	38	−7	1·1	−0.7	2·4	0	0	19	12	1	1	0	0	0	2	3	12	0
	1730	,,	1007·2	980·4	..	34·0	20·1	9·3	12·2	24	..	2·1	..	4·5	0	1	26	3	1	6	0	2	3	8	4	4	0
Raigarh	0830	220	1011·9	987·2	+0·2	27·7	17·3	8·6	11·2	31	−12	0·6	−1.4	2·1	0	0	22	0	14	3	5	0	0	0	0	9	0
	1730	,,	1006.5	982·5	..	35·2	19·2	5·2	9·2	16	..	1·5 (a)	..	1·4 (a)	0	0	11	4	1	0	1	0	2	1	2	19	0
Raipur	0530	298	1010·1	976·3	..	23·2	15·6	8·8	11·2	41	..	1·3	..	4·9	0	1	22	4	2	2	0	5	5	1	4	8	0
	0830	,,	1012·4	979·0	+0·8	26·9	17·1	8·4	11·5	33	−7	1·0	−0·3	5·7	0	0	30	4	2	3	1	3	6	6	4	1	1
	1130	,,	1011·2	978·5	..	33·7	19·1	6·1	10·3	20	..	0·7	..	9·1	0	0	30	3	4	2	2	0	7	7	5	1	0
	1730	,,	1006·6	974·3	..	35·1	19·0	4·2	8·9	16	..	1·8	..	7·5	0	1	28	5	5	1	0	4	7	4	3	2	0
	2330	,,	1009·7	976·5	..	27·8	17·0	7·2	10·7	28	..	1·1	..	7·2	0	1	29	4	1	1	2	7	10	3	2	1	0
Kanker	0830	402	1012·1	967·6	+0·9	27·3	20·3	15·8	18·1	50	−3	1·3	−0.4	0·2	0	0	2	0	0	0	0	0	1	1	0	29	0
	1730	,,	1007·0	963·4	..	33·7	23·0	16·7	19·3	37	..	1·4	..	2·0	0	0	21	4	0	0	0	0	7	5	5	10	0
Jagdalpur	0530	553	1010·9	948·9	..	20·4	16·8	14·3	16·5	68	..	1·5	..	0·8	0	0	6	0	0	1	5	0	0	0	0	25	0
	0830	,,	1012·5	951·3	+0·6	25·0	18·7	14·6	16·9	53	−4	1·4	+0.1	3·1	0	0	14	0	0	0	2	5	5	2	0	1	0
	1130	,,	1010·2	950·6	..	32·6	19·8	11·3	13·7	28	..	0·9	..	6·8	0	1	28	3	2	1	1	3	10	4	5	2	0
	1730	,,	1006·3	946·9	..	32·6	19.6	10·9	13·3	28	..	3·4	..	5·8	0	1	25	1	2	1	3	6	8	3	2	5	0
	2330	,,	1010·6	949·4	..	24.5	17·8	13·5	15·5	51	..	1·1	..	2·0	0	1	7	0	0	0	1	4	2	1	0	23	0
Gujarat Region																											
Deesa	0830	136	1012·5	996·9	+0·3	23·6	15·1	7·1	10·3	37	..	0·2	..	3·3	0	0	30	0	10	5	4	4	1	4	2	1	0
	1730	,,	1008·2	993·1	..	35·2	18·9	3·6	8·5	15	..	0·4	..	3·8	0	0	31	1	0	0	0	1	13	8	8	0	0
Radhanpur	0830	30	1012·6	1009·2	..	22·2	18·5	15·8	18·3	71	..	0·1	..	4·1	0	0	23	1	3	1	1	2	6	1	8	8	0
	1730	,,	1008·4	1005·1	..	35·6	24·4	18·6	21·4	37	..	0	..	4·6	0	0	29	0	2	1	1	0	8	2	15	2	0
Idar	0830	219	1012·0	987·2	..	25·2	15·5	6·1	9·8	32	..	1.3	..	3·5	0	0	20	2	9	4	1	0	2	2	0	11	0
	1730	,,	1007·5	983.5	..	34·8	18·7	4·3	8·5	16	..	1·0	..	4·2	0	0	30	1	1	0	2	0	7	19	0	1	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region—(Contd.)																											
Ahmadabad	0230	55	1010·0	1003·6	..	23·5	15·5	8·4	11·1	40	..	0·6	..	6·8	0	1	21	5	2	0	0	1	0	9	5	9	0
	0530	,,	1010·0	1003·6	..	21·2	15·0	9·4	12·0	48	..	0·8	..	8·3	0	2	21	1	1	3	1	0	1	4	12	8	0
	0830	,,	1012·2	1005·8	−0·4	23·4	16·4	10·4	12·9	46	−1	1·0	−0·1	9·2	0	2	20	3	1	3	2	1	0	3	9	9	0
	1130	,,	1012·4	1006·2	..	32·6	19·4	8·7	11·8	25	..	0·8	..	14·1	0	8	22	1	1	7	5	4	1	2	9	1	0
	1730	,,	1008·0	1001·9	..	36·6	20·0	6·5	9·9	16	..	1·1	..	13·5	0	3	27	2	2	1	2	0	4	9	10	1	0
	2330	,,	1010·6	1004·3	..	26·0	17·2	10·0	12·5	37	..	0·5	..	7·2	0	0	23	3	0	0	0	1	7	4	8	8	0
Dohad	0830	333	1012·4	974·8	+0·2	23·8	14·7	5·4	9·4	32	−8	0·6	−0·5	7·2	0	2	25	0	2	7	4	5	6	3	0	4	0
	1730	,,	1006·9	970·9	..	35·5	18·7	3·0	8·0	14	..	0·5	..	12·0	0	7	22	1	1	0	2	1	12	9	3	2	0
Vallabh Vidyanagar	0830	44	1011·9	1006·9	..	21·9	16·5	12·1	14·4	55	..	0·8	..	4·7	0	0	30	4	4	2	3	4	0	4	4	1	0
	1730	,,	1007·8	1003·0	..	36·4	20·8	9·1	11·9	20	..	1·0	..	6·5	0	0	31	4	1	0	2	1	7	7	9	0	0
Baroda (Aerodrome)	0830	38	1012·5	1008·1	..	23·9	16·6	10·4	12·9	45	..	0·2	..	7·7	0	1	25	1	2	2	3	10	4	2	1	5	1
	1130	,,	1012·5	1008·3	..	32·6	19·3	8·4	11·5	24	..	0·3	..	10·2	0	1	29	3	4	5	1	7	1	1	7	1	1
	1730	,,	1008·0	1003·8	..	36·6	19·6	4·9	9·0	15	..	0·6	..	11·4	0	3	28	2	2	1	0	1	4	9	12	0	0
Baroda	0530	34	1010·2	1006·1	..	20·6	16·3	12·8	15·1	62	..	0·3	..	0·1	0	0	2	0	1	0	0	0	0	1	0	29	0
	0830	,,	1012·6	1008·5	+0·4	22·4	17·1	13·2	15·2	57	+4	0·3	−0·5	0·2	0	0	3	0	0	0	0	0	1	1	1	28	0
	1130	,,	1012·6	1008·7	..	33·4	20·6	11·5	13·8	28	..	0·3	..	1·2	0	0	11	0	3	0	1	1	0	1	5	20	0
	1730	,,	1008·0	1004·2	..	37·6	22·5	12·1	14·9	22	..	0·3	..	1·8	0	0	16	0	2	0	0	0	3	6	5	15	0
	2330	,,	1010·7	1006·7	..	25·6	18·3	13·1	15·1	47	..	0·2	..	1·4	0	0	10	0	0	0	0	0	1	8	1	21	0
Broach	0830	17	1011·8	1009·8	−0·1	22·0	16·9	12·9	15·2	58	−1	0·8	−0·4	5·4	0	0	31	0	2	1	10	4	5	0	9	0	0
	1730	,,	1007·7	1005·8	..	37·2	21·0	8·8	11·6	20	..	0·5	..	6·6	0	0	31	0	1	0	9	1	7	3	10	0	0
Surat	0530	12	1010·4	1009·0	..	21·5	18·7	16·7	19·3	75	..	0·6	..	6·7	0	1	27	6	3	1	15	3	0	0	0	3	0
	0830	,,	1012·6	1011·2	+0·3	23·6	19·5	16·8	19·3	67	+7	0·7	−0·3	5·7	0	0	23	2	7	3	7	3	1	0	0	8	0
	1130	,,	1012·7	1011·4	..	32·9	21·0	12·9	15·2	31	..	0·5	..	7·0	0	0	30	9	2	1	0	3	3	1	11	1	0
	1730	,,	1008·5	1007·2	..	34·6	21·7	12·9	15·5	29	..	0·8	..	7·7	0	0	31	1	0	0	0	0	8	3	19	0	0
	2330	,,	1011·1	1009·7	..	24·9	20·5	17·6	20·5	66	..	0·6	..	9·0	0	2	26	1	1	0	3	7	6	6	4	3	0
Saurashtra and Kutch																											
Bhutakia-Bhimasar(R)	0830	47																									
(R)	1730	,,																									
Naliya	0830	21	1012·5	1010·0	..	20·5	18·9	17·9	20·5	85	.	2·1	..	4·6	0	0	24	3	4	1	1	0	3	3	9	7	0
	1730	,,	1009·4	1007·0	..	30·5	23·0	18·9	22·0	52		1·0	..	12·2	0	1	30	0	1	0	0	0	15	12	3	0	0
Bhuj (Rudra mata)	0230	80	1010·8	1001·6	..	22·9	17·3	12·6	15·3	56	.	0·9	..	7·0	0	0	20	2	1	0	0	0	3	12		11	0
	0530	,,	1010·6	1001·3	..	20·7	16·8	13·7	16·0	68	..	0·5	..	5·6	0	0	17	2	0	0	0	1	5	5	4	14	0
	0830	,,	1012·5	1003·2	+0·1	22·[illegible]	18·1	15·0	17·5	67	+13	1·4	+0·2	4·5	0	1	11	2	0	0	1	0	3	3	3	19	0
	1130	,,	1012·8	1003·7	..	30·8	18·7	8·5	11·7	28	.	0·9	..	13·1	0	6	19	4	5	1	1	0	1	3	9	6	0
	1730	,,	1008·6	999·7	..	34·8	18·6	3·9	8·2	15	..	1·0	..	15·5	0	11	14	4	1	2	0	0	3	10	5	6	0
	2330	,,	1011·4	1002·2	..	25·2	17·9	11·9	14·6	47	..	0·8	..	11·2	0	5	19	2	0	0	0	0	3	16	3	7	0
Kandla	0830	35	1012·7	1008·7	..	23·8	13·1	13·7	16·2	57	..	0·8	..	17·0	0	11	17	2	3	0	0	1	6	5	11	3	0
	1130	,,	1013·1	1009·2	..	32·[illegible]	19·5	9·9	12·3	27	..	0·5	..	17·6	0	13	16	4	5	3	0	1	4	8	4	2	0
	1730	,,	1008·8	1005·0	..	35·2	19·6	6·2	10·1	19	..	0·6	..	22·5	0	20	9	3	0	1	1	8	7	5	4	2	0
New Kandla	0830	14	1012·9	1011·2	..	23·0	18·6	15·2	17·8	65	..	1·9	..	11·4	0	3	28	8	1	1	0	0	5	9	7	0	0
	1730	,,	1009·4	1007·8	..	31·5	20·8	12·7	15·7	36	..	1·0	..	21·9	0	17	12	1	1	0	1	4	14	7	1	2	0
Mandvi	0830	9	1012·7	1011·6	−0·1	21·6	19·7	13·3	21·4	84	+4	1·5	0	11·1	0	5	26	9	0	1	0	0	1	4	15	0	1
	1730	,,	1010·1	1009·1	..	26·9	24·3	23·0	28·3	80	..	1·7	..	30·1	0	29	2	0	0	0	0	1	7	19	1	0	3
Surendranagar	0830	74	1012·4	1003·9	0	24·6	20·0	17·0	19·6	65	+6	0·8	−0·4	11·7	0	1	29	3	0	0	0	1	1	16	9	1	0
	1730	,,	1008·0	999·8	..	36·3	24·9	18·5	22·1	38	..	1·2	..	10·3	0	3	26	2	0	1	1	0	1	15	9	2	0
Okha	0530	7	1011·1	1010·3	..	22·8	22·2	21·9	26·3	94	..	1·2	..	21·8	0	20	10	2	1	0	0	0	1	10	16	1	0
	0830	,,	1013·0	1012·2	..	23·2	22·3	21·8	25·3	92	.	1·7	..	17·4	0	11	20	5	0	0	0	0	1	8	17	0	0
	1130	,,	1014·1	1013·3	..	25·2	23·0	21·9	26·3	83	.	1·4	..	17·3	0	12	18	7	0	0	0	0	2	5	16	1	0
	1730	,,	1010·6	1009·8	..	25·6	23·7	22·8	27·6	85	..	0·9	..	22·2	0	23	7	0	0	0	0	0	2	15	13	1	0
	2330	,,	1012·4	1011·6	..	23·3	22·7	22·4	27·1	95	..	0·7	..	20·0	0	18	12	0	0	0	0	0	2	12	16	1	0
Jamnagar (Aerodrome)	0530	23	1010·6	1008·0	..	20·0	18·5	17·4	20·0	86	.	1·1	..	9·5	0	1	25	0	0	0	0	0	7	17	2	5	0
	0830	,,	1012·4	1009·8	−0·3	22·0	19·7	18·1	21·0	80	+9	1·6	+0·5	8·5	0	2	20	0	0	0	1	0	9	11	1	9	0
	1130	,,	1013·2	1010·7	..	29·5	20·7	15·0	17·1	43	.	0·6	..	15·2	0	9	22	6	5	0	1	0	0	13	6	0	0
	1730	,,	1009·3	1006·8	..	30·9	20·5	12·8	15·7	37	..	0·6	..	22·7	0	19	12	6	1	0	0	0	0	16	8	0	0
	2330	,,	1011·7	1009·1	..	23·3	20·3	18·4	21·4	76	..	0·4	.	16·2	0	7	24	0	1	0	0	0	3	26	1	0	0
Dwarka	0830	11	1012·7	1011·4	−0·3	23·5	21·6	20·6	24·1	85	+9	1·5	−0·3	12·3	0	5	26	14	0	0	0	0	0	10	7	0	0
	1730	,,	1010·2	1008·9	..	26·9	23·2	21·7	26·1	77	..	0·3	..	15·5	0	5	26	5	0	0	0	0	0	17	9	0	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(*Contd.*)																											
Rajkot	0530	138	1010·8	994·8	..	19·2	16·8	15·0	17·1	77	..	0·5	..	7·9	0	1	24	0	0	0	1	4	7	7	6	6	0
	0830	,,	1012·6	996·8	−0·1	22·4	19·5	17·6	20·2	75	+9	1·3	0	9·7	0	4	22	0	2	1	0	2	5	9	7	5	0
	1130	,,	1012·6	997·2	..	31·6	23·1	18·1	21·3	47	..	0·3	..	18·3	0	11	20	5	5	2	0	0	3	2	14	0	0
	1730	,,	1008·1	993·0	..	35·5	24·2	17·9	21·0	38	..	0·4	..	21·7	0	16	12	1	1	1	0	1	0	11	13	3	0
Bhavnagar (Aerodrome)	0830	11	1012·5	1011·3	−0·1	25·0	17·0	10·3	12·9	41	0	0·2	−1·0	13·6	0	6	25	4	0	0	0	1	4	9	13	0	0
	1130	,,	1012·9	1011·7	..	31·9	19·8	10·6	13·2	29	..	0·4	..	14·2	0	7	23	11	7	4	1	0	2	0	4	1	1
	1730	,,	1008·3	1007·1	..	34·8	20·4	9·2	12·3	23	..	0·9	..	22·6	0	16	15	0	6	7	8	10	0	0	0	0	0
Porbander (Aerodrome)	0830	7	1012·8	1012·0	+0·3	23·1	19·7	17·4	20·2	73	−1	0·8	−0·3	10·8	0	6	21	8	0	1	2	0	0	1	15	4	0
	1130	,,	1013·3	1012·5	..	30·5	21·5	15·6	18·3	44	..	0·5	..	15·0	0	10	20	4	3	1	1	0	5	7	8	1	1
	1730	,,	1009·7	1008·9	..	29·2	22·0	17·4	20·5	53	..	0·7	..	25·5	0	29	2	2	0	0	0	0	2	25	2	0	0
Keshod	0830	51	1012·9	1007·0	..	21·4	17·7	14·8	17·3	70	..	0·5	..	8·2	0	0	29	9	10	3	0	2	0	0	5	2	0
	1130	,,	1013·1	1007·4	..	31·3	19·5	10·2	13·0	30	..	0·1	.	16·9	0	10	21	12	4	2	0	0	1	4	8	0	0
	1730	,,	1009·1	1003·4	..	33·7	20·2	9·7	12·7	25	..	0·4	..	33·6	0	30	1	2	0	0	0	1	3	23	2	0	0
Mahuva	0830	9	1012·3	1011·3	..	22·8	17·8	14·2	16·3	59	..	0·4	..	3·7	0	0	26	4	6	0	5	7	5	0	5	5	0
	1730	,,	1008·9	1007·9	..	30·1	23·3	19·6	22·9	55	..	1·1	..	6·1	0	0	31	0	0	0	11	7	13	0	0	0	0
Veraval	0230	8	1010·8	1009·9	..	21·4	19·2	17·6	20·5	81	..	1·0	..	13·8	0	6	25	16	3	0	0	0	0	0	12	0	0
	0530	,,	1010·4	1009·5	..	19·9	17·7	16·0	18·5	81	..	1·1	..	12·4	0	4	26	20	3	1	0	0	0	0	6	1	0
	0830	,,	1012·6	1011·7	−0·1	21·8	18·6	16·1	18·9	73	+10	1·1	0	12·8	0	4	27	17	3	1	0	0	0	0	10	0	0
	1130	,,	1013·1	1012·2	..	28·4	22·7	19·1	22·9	61	..	0·7	..	19·0	0	17	14	3	1	0	0	3	3	12	9	0	0
	1730	,,	1009·6	1008·7	..	26·6	24·0	22·7	27·7	79	..	0·7	..	22·1	0	22	9	0	0	0	0	0	0	17	14	0	0
	2330	,,	1012·0	1011·1	..	23·2	21·0	19·6	23·1	82	..	0·9	..	13·3	0	4	27	7	0	0	0	0	0	4	20	0	0
Konkan																											
Dahanu	0830	5	1011·8	1011·3	0	22·9	19·8	17·9	20·5	74	+4	0·8	−0·9	4·7	0	0	31	2	4	25	0	0	0	0	0	0	0
	1730	,,	1008·9	1008·4	..	28·6	23·7	21·2	25·3	64	..	0·8	..	12·5	0	7	24	6	0	0	0	0	0	5	20	0	0
Bombay (Santa Cruz)	0230	15	1010·3	1008·6	..	22·7	20·6	19·1	22·7	81	..	0·6	..	5·2	0	0	21	8	7	1	1	1	0	0	3	10	0
	0530	,,	1010·2	1008·5	..	21·8	19·6	18·2	21·0	81	..	0·4	..	3·2	0	0	19	5	8	4	1	0	0	0	1	12	0
	0830	,,	1012·2	1010·5	−0·2	25·6	20·6	17·5	20·2	63	−7	0·8	−0·5	3·7	0	0	21	3	7	9	1	1	0	0	0	10	0
	1130	,,	1012·3	1010·6	..	31·8	22·4	16·6	19·4	41	..	0·6	..	12·0	0	1	29	4	1	1	1	0	2	14	7	1	0
	1730	,,	1008·7	1007·1	..	29·7	22·2	17·6	20·6	50	..	0·5	..	16·3	0	7	24	3	0	0	0	0	0	5	23	0	0
	2330	,,	1011·5	1009·8	..	24·2	21·0	19·2	22·2	74	..	0·2	..	5·9	0	0	22	6	2	2	0	0	0	3	9	9	0
Bombay	0830	11	1012·1	1010·9	−0·2	25·3	22·5	21·0	25·0	78	+5	1·1	−0·2	2·6	0	0	20	4	8	4	1	0	1	0	2	11	0
	1130	,,	1012·5	1011·3	..	29·5	23·8	20·8	24·7	60	..	0·7	..	3·9	0	0	25	1	0	1	3	1	1	5	12	6	1
	1730	,,	1008·9	1007·7	..	28·4	23·9	21·7	25·9	68	..	0·5	..	9·6	0	1	30	3	0	0	0	0	0	6	22	0	0
Alibag	0830	7	1012·2	1011·4	+0·2	24·2	20·6	18·4	21·3	71	+6	0·6	−0·7	5·2	0	0	28	11	3	2	4	1	0	0	7	3	0
Bhira	0830	96	1011·7	1000·7	..	22·8	18·7	16·1	18·3	67	..	0·6	..	0·7	0	0	8	0	2	0	1	0	2	1	2	23	0
	1730	,,	1006·8	996·4	..	36·2	22·0	12·4	14·9	25	..	0·4	..	4·5	0	0	31	1	0	0	1	2	15	9	3	0	0
Harnai	0830	20	1011·9	1009·6	+0·6	25·5	21·3	18·6	21·8	68	−1	1·5	+0·2	6·1	0	0	24	8	2	2	5	5	0	0	2	7	0
	1730	,,	1008·7	1006·4	..	27·5	24·3	22·8	27·7	76	..	1·3	..	29·3	0	23	8	4	0	0	1	1	1	4	20	0	0
Ratnagiri	0830	35	1011·8	1007·8	0	24·9	21·9	20·2	23·8	76	..	1·3	..	4·5	0	0	31	0	3	12	12	0	0	2	2	0	0
	1730	,,	1008·6	1004·7	..	29·2	24·3	21·8	26·3	65	..	1·2	..	10·3	0	1	30	2	0	0	0	0	0	14	15	[illegible]	
Devgarh	0830	36	1011·6	1007·6	0	24·6	22·8	21·8	26·3	85	+8	1·2	−1·1	6·4	0	0	30	1	7	19	2	0	1				
	1730	,,	1008·5	1004·5	..	29·3	25·5	23·9	29·5	73	..	0·9	..	25·5	0	19	12	0	0	0	0						
Vengurla	0230	9	1010·0	1009·0	..	23·1	21·3	20·3	23·8	85	..	0·5	..	0·9	0	0	6	4	[illegible]								
	0530	,,	1010·1	1009·1	..	21·9	20·8	20·1	23·7	89	..	1·1	..	0·9	0	0	[illegible]										
	0830	,,	1012·5	1011·5	+0·5	24·5	22·1	20·8	24·7	80	+5	0·9	−0·9	1·6													
	1130	,,	1012·5	1011·5	..	30·8	24·0	20·2	24·3	56	..	0·6															
	1730	,,	1008·7	1007·7	..	29·9	24·3	21·6	25·8	62	..	0·8															
	2330	,,	1011·4	1010·4	..	24·9	22·4	21·0	25·0	80	..	0·6															
Panjim	0830	57	1011·8	1005·4	..	24·9	22·4	21·0	25·0	79	..	1·4	.														
	1130	,,	1011·8	1005·4	..	30·2	23·8	20·3	24·3	57	..	1·3	..														
	1730	,,	1008·5	1002·2	..	29·1	24·0	21·4	25·6	63	.	1·3	..														
Mormugao	0530	62	1009·7	1002·7	..	24·8	23·0	22·1	26·6	85		1·9	..														
	0830	,,	1012·0	1005·0	..	26·4	23·7	22·4	27·1	79	..	2·2	..														
	1130	,,	1012·1	1005·2	..	28·9	24·5	22·4	27·1	69	..	1·7	..	14													
	1730	,,	1008·4	1001·5	..	28·7	25·1	23·5	28·9	74	..	1·6	..	20·													
Madhya Maharashtra																											
Nandurbar	0830	206	1012·2	988·9	..	26·7	18·2	11·9	14·0	41	..	0·1	..	6·1													
	1730	,,	1007·0	984·5	..	36·3	21·7	11·3	14·0	24	..	0·3	..	5·9													
Jalgaon	0830	201	1012·6	989·6	+0·9	22·8	14·7	7·0	10.2	37	−1	0·7	−0·4	8·7													
	1730	,,	1006·4	984·7	..	38·1	20·6	6·3	10.0	15	..	1·5	..	13·1													

State Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —(*Contd.*)																											
Malegaon	0830	437	1012·8	963·7	+0·5	23·2	14·3	5·1	9·1	32	−8	0·7	−0·4	5·8	0	0	29	1	1	1	1	1	5	12	7	2	0
	1730	,,	1006·2	959·3	..	36·1	19·0	2·8	8·1	14	..	1·9	..	12·8	0	6	25	9	5	4	1	3	1	4	4	0	0
Deolali (Aerodrome)	0830	571	1013·8	949.7	..	21.8	14.4	7.7	11.0	41	..	0.8	..	4.3	0	0	21	7	1	1	0	4	3	3	2	10	0
	1730	,,	1007.1	945.9	..	34.2	17.9	4.1	8.6	17	..	1.6	..	15.2	0	7	23	4	0	4	1	0	9	4	8	1	0
Ahmednagar	0830	657	1012.5	939.9	+0·6	24.5	14.7	6.2	9·6	32	+2	1.2	+0·4	4.8	0	0	25	2	3	0	4	1	1	1	13	6	0
	1730	,,	1005.1	935.6	..	35.5	18.9	6.3	9.7	17	..	1.5	..	7.9	0	1	29	2	9	0	5	0	4	0	9	1	1
Poona (Aerodrome)	0230	593	1010.8	944.5	..	22.0	14.6	8.4	11.2	43	..	0.7	..	7.2	0	1	18	0	1	2	0	0	4	9	3	12	0
	0530	,,	1011.1	944.4	..	19.8	13.6	8.4	11.1	49	..	0.5	..	4.8	0	0	17	1	2	1	0	0	4	7	2	14	0
	0830	,,	1012.6	946.5	..	23.0	14.6	7.7	10.5	38	..	1.0	..	5.6	0	0	19	0	1	3	0	0	5	8	2	12	0
	1130	,,	1012.6	946.5	..	32.2	17.5	5.3	9.3	19	..	0.9	..	13.4	0	8	22	2	10	7	4	2	2	2	1	1	0
	1730	,,	1005.7	942.4	..	34.5	18.2	4.9	9.0	17	..	1.5	..	22.7	0	19	11	1	4	5	0	1	3	15	1	1	0
	2330	,,	1011.4	945.6	..	24.1	15.8	9.4	11.9	40	..	0.6	..	12.0	0	2	27	0	1	0	1	0	5	21	1	2	0
Poona	0530	559	1011.6	948.2	..	17.7	11.9	6.6	9.7	48	..	0.5	..	0.1	0	0	1	0	0	0	0	1	0	0	0	30	0
	0830	,,	1012.9	950.5	+0 7	22.9	15.2	9.2	11.7	42	−2	1.0	+0.2	0.1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1130	,,	1010.5	950.1	..	32.5	17.8	6.2	9.7	20	..	1.0	..	4.3	0	0	25	0	6	12	2	0	0	2	3	6	0
	1730	,,	1005.7	946.0	..	34.6	18.4	5.8	9.3	18	..	1.4	..	6.2	0	0	26	0	4	1	2	0	0	13	6	5	0
	2330	,,	1011.1	949.2	..	24.4	15.8	9.1	11.7	39	..	0.8	..	1.0	0	0	5	0	0	0	1	0	0	4	0	26	0
Jejuri	0830	521	1012.2	954.0	+0.4	23.6	14.6	6.5	10.1	35	−7	1.1	−0.1	3.6	0	1	20	4	7	2	0	1	0	2	5	10	0
	1730	,,	1004.8	949.4	..	36.2	19.3	6.4	10.0	17	..	2.2	..	9.1	0	2	28	3	5	5	4	2	2	3	6	1	0
Baramati	0830	551	1012.5	951.3	+0·4	24.1	15.7	8.9	11.7	40	−5	0.7	−0·4	5.2	0	2	21	6	0	1	3	3	1	3	6	8	0
	1730	,,	1005 4	946.8	..	35.5	20.3	10.0	12.7	22	..	1.5	..	13.2	0	4	27	2	1	7	4	4	3	6	4	0	0
Sholapur	0530	479	1010 3	956.7	..	23.2	15.3	8.8	16.6	41	..	1.3	..	6·0	0	1	24	6	2	3	7	1	1	1	4	6	0
	0830	,,	1012.1	959.0	+0·8	26.5	17.3	10.5	13.0	38	+3	1.2	+0.2	6·5	0	1	26	6	4	1	7	2	2	2	3	4	0
	1130	,,	1010.4	958.6	..	34.1	20.0	10.6	13.0	25	..	0.8	..	9.9	0	0	31	5	1	1	10	5	5	1	3	0	0
	1730	,,	1007.1	954.1	..	36.6	21.1	11.3	13.6	22	..	1.5	..	7.3	0	0	29	4	3	0	15	0	2	2	3	2	0
	2330	,,	1010.0	957.4	..	28.6	17.6	9.5	12.1	32	..	2.6	..	10.7	0	1	28	7	3	4	8	1	0	0	6	2	0
Miraj	0830	554	1012.7	950.9	+0.6	22.8	16.0	10.6	13.2	48	−4	1.5	+0·5	..	0	0	4	0	0	1	0	0	0	3	0	27	0
	1730	,,	1005.0	946.3	..	35.9	19.6	7.3	10.9	19	..	3.1	..	..	0	3	16	0	0	8	1	0	4	6	0	12	0
Kolhapur	0530	570	1010.4	946.6	..	20.6	15.7	12.1	14.3	59	..	0.9	..	4.6	0	2	17	0	2	4	0	0	3	10	0	12	0
	0830	,,	1012.0	948.8	+0.3	24.0	17.1	12.4	14.5	50	−6	0.9	0	3.1	0	0	18	0	5	8	1	0	1	3	0	13	0
	1130	,,	1010.1	948.8	..	32.9	18.7	8.2	11.2	23	..	0.6	..	10.1	0	3	28	3	8	18	1	0	0	1	0	0	0
	1730	,,	1005.4	944.5	..	33.7	20.3	11.2	13.9	28	..	1.8	..	16.5	0	11	18	1	1	5	0	1	1	18	2	2	0
	2330	,,	1010.8	947.7	..	24.3	17.7	13.4	15.5	52	..	0.9	..	7.9	0	1	24	0	0	3	0	0	1	19	2	6	0
Marathwada																											
Aurangabad	0830	581	1012 5	948.5	+0·6	26.2	14.8	4.2	8.5	26	−6	0.6	−0.5	3.9	0	1	19	1	2	6	2	5	0	2	2	11	0
	1730	,,	1006.1	944.1	..	35.0	18.9	5.5	10.1	19	..	1.7	..	6.7	0	1	27	2	0	2	0	3	7	10	4	3	0
Aurangabad (Chikalthan)	0230	579	1010.4	945.6	..	21.4	13.4	5.9	9.5	38	..	0.9	..	8.5	0	1	21	2	0	0	3	0	1	10	6	9	0
	0530	,,	1011.1	945.8	..	19.3	12.5	5.9	9.5	43	..	0.5	..	6.6	0	0	17	2	0	0	1	1	0	7	6	14	0
	0830	,,	1011.9	948.1	..	26.6	16.4	8.1	11.2	33	..	0.3	..	6.6	0	0	17	1	0	1	3	0	0	6	6	14	0
	1130	,,	1010.6	948.1	..	33.1	19.3	9.4	12.3	25	..	0.5	..	13.5	0	6	23	2	3	6	6	1	2	6	3	2	0
	1730	,,	1005.6	943.9	..	34·9	20.2	10.2	12.9	24	..	1.5	..	13.5	0	6	21	2	1	3	2	0	3	9	7	4	0
	2330	,,	1010.9	946.6	..	23.9	14.6	6.5	9.9	34	..	1.1	..	9.7	0	1	20	3	0	1	2	0	1	6	8	10	0
Parbhani	0830	423	1012.9	965.5	+1.2	24.9	14.8	3.5	8.7	28	−12	1.2	0	6·0	0	0	28	1	3	2	3	0	4	9	6	3	0
	1730	,,	1006.2	960.8	..	35.9	18.9	1.1	8.0	14	..	1.5	..	7.3	0	1	28	2	6	4	4	1	3	7	2	2	0
Nanded	0830	358	1012.3	972.3	..	26.5	17.7	10.5	13.1	39	..	0.6	..	3.2	0	0	15	0	1	0	4	0	3	2	5	16	0
	1730	,,	1006 6	967.8	..	35.5	20.9	9.7	12.9	24	..	0·7	..	4.3	0	0	20	1	1	0	4	0	5	0	9	11	0
Bir	0830	519	1013.1	955.4	..	24.7	17.8	13.0	15.3	48	..	0.4	..	5.0	0	0	27	0	0	0	10	3	3	2	9	4	0
	1730	,,	1006 1	950.6	..	35.6	23.2	16.5	19.3	34	..	0.9	..	4.6	0	0	29	4	12	1	1	0	2	1	7	2	1
Vidarbha																											
Jandia	0830	343	1012 6	977.4	+0.4	25.6	16.8	9.3	12.0	37	−10	0.7	−0·8	3.1	0	0	28	4	7	2	5	1	3	1	2	3	3
	1730	,,	1006.6	972.7	..	35.5	19 5	5.4	9.7	17	..	1.8	..	5.5	0	1	27	7	2	1	1	6	3	4	4	3	0
Nagpur (Sonegaon)	0230	310	1009.5	974.4	..	22.9	14.5	5.5	9.7	35	..	0.9	..	4.8	0	0	23	9	1	0	0	1	3	2	7	8	0
	0530	,,	1010.5	974.9	..	20.4	13.4	5.9	9.7	41	..	0.9	..	3.5	0	0	20	8	1	1	0	0	3	2	5	11	0
	0830	,,	1012.3	977.4	+0.6	26.0	15.9	5.9	9.9	30	−8	0.6	−0·8	4.2	0	0	24	6	6	2	0	1	4	1	4	7	0
	1130	,,	1010 8	976.9	..	33.8	18.6	4.4	9.1	18	..	0.6	..	7.8	0	0	26	1	3	4	9	0	7	0	2	5	0
	1730	,,	1006 0	972.4	..	35.5	18.3	1.2	7.1	13	..	2.2	..	8·9	0	3	25	0	2	6	4	2	4	3	7	3	0
	2330	,,	1010.0	975.1	..	25.3	15.5	5.9	9.7	31	..	1.0	..	4.5	0	0	22	6	3	0	0	1	4	1	7	9	0
Amraoti	0830	370	1012.1	970.8	+0·6	27.0	15.4	1.5	8.1	24	−8	0.6	−0·6	4·0	0	0	28	4	7	5	2	4	6	0	0	3	0
	1730	,,	1005.8	966.1	..	36.3	18.7	1.1	7.3	12	..	1.0	..	6·0	0	0	31	3	1	1	1	2	13	6	4	0	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speeds Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
V ha—(*Contd*).																											
Akola rome	0530	309	1009.4	974.3	..	21.8	13.6	4.2	9.0	34	..	1.0	..	10.1	0	1	29	3	3	3	4	4	7	5	1	1	0
	0830	,,	1011·6	976.8	..	25.9	16.1	6.5	10.4	31	..	0.9	..	7.6	0	0	31	2	2	3	2	3	7	5	7	0	0
	1130	,,	1010.5	976.7	..	34.0	19.9	8.0	11.8	23	..	0.7	..	9.4	0	0	31	1	3	2	5	2	5	8	5	0	0
	1730	,,	1005.4	972.1	..	37.0	20.6	6.7	10.9	18	..	1·4	..	8.8	0	1	30	2	3	0	1	3	3	3	16	0	0
	2330	,,	1009.2	974.7	..	27.3	16.4	5.6	9.8	27	..	1.2	..	9.9	0	3	28	6	4	3	2	0	4	4	8	0	0
Akola . . .	0830	282	1012.2	980.4	+0.4	25.2	16.9	10.3	12.5	39	+7	0.4	−0.9	0.3	0	0	4	0	0	0	0	0	2	2	0	27	0
	1730	,,	1005.8	975.5	..	37.6	23.1	13.9	16.4	26	..	1.3	..	1.4	0	0	16	0	0	0	1	0	2	12	1	15	0
Bramhapuri . .	0830	229	1012.7	986.8	..	25.7	18.4	13.0	15.3	46	..	1.0	..	3.9	0	0	28	2	2	1	7	14	1	0	1	3	0
	1730	,,	1007.1	982.1	..	35.7	20.5	8.7	11.7	21	..	2.2	..	2.3	0	0	24	6	4	0	3	4	2	1	4	7	0
Buldhana . .	0830	650	1011.9	940.3	+1.0	25.1	15.5	7.5	10.7	34	−8	0.5	−0.9	6.7	0	0	28	3	1	1	5	1	6	0	11	3	0
	1730	,,	1005.9	936.7	..	34.1	19.1	8.1	11.1	21	..	1.5	..	5.9	0	0	22	5	1	2	0	0	2	2	10	9	0
Yeotmal . .	0830	451	1011.5	961.4	+0.1	26·9	15.5	4.6	8.4	25	−13	0.7	−1.6	5.9	0	0	30	3	4	5	1	3	3	6	5	1	0
	1730	,,	1005.6	957.3	..	35.7	18.1	−0.4	6.5	11	..	2.0	..	7.7	0	1	28	5	4	2	2	2	2	6	6	2	0
Chanda . . .	0830	193	1011.8	990.0	0.0	26.4	19.4	14.6	16.8	49	+7	1.3	+0.1	5·9	0	1	27	1	3	7	8	3	1	2	3	3	0
	1730	,,	1006.2	985.2	..	36.5	22·5	12.8	15.7	26	..	2.2	..	7.5	0	0	30	5	3	3	2	3	3	5	6	1	0
Pusad . . .	0830	334	1013.3	975.7	..	25.2	16.2	8.2	11.1	35	..	0.9	..	5.4	0	0	28	6	3	0	2	1	1	3	12	3	0
	1730	,,	1006.8	970.8	..	36.4	21.5	10.6	13.5	23	..	2.2	..	7.1	0	0	30	5	5	2	0	3	5	2	8	1	0
Sironcha . .	0830	123	1013.2	999.2	+0.7	27.3	21.1	17.4	20.0	55	−2	1.6	−0.1	4.1	0	0	31	3	1	6	16	5	0	0	0	0	0
	1730	,,	1007.1	993.6	..	37.1	22.4	12.9	15.1	24	..	1.3	..	3.6	0	0	31	6	5	1	8	5	4	0	2	0	0
Coastal Andhra Pradesh																											
Kalingapatnam .	0830	6	1012.9	1012.2	+0.5	27.1	24.5	23.4	28.6	81	+6	1.1	−0.6	7.0	0	0	31	6	0	0	0	7	7	6	5	0	0
	1730	,,	1009.2	1008.5	..	28.9	26.2	24.5	31.9	77	..	0.6	..	11.7	0	2	29	1	0	0	0	16	13	0	1	0	0
Visakhapatnam .	0230	3	1010.4	1010.0	..	25.3	23.2	22.1	26.6	83	..	1.6	..	1.1	0	0	6	0	0	0	0	1	3	1	1	25	0
	0530	,,	1011.0	1010.6	..	24.2	22.4	21.4	25.6	85	..	1.9	..	1.2	0	0	5	0	0	0	0	0	3	2	0	26	0
	0830	,,	1013.2	1012.8	+0.7	28.2	23.5	20.9	25.0	66	−7	0.8	−1.5	8.5	0	1	22	0	0	0	0	2	15	6	0	8	0
	1130	,,	1012.4	1012.0	..	33.1	24.3	19.5	23.7	47	..	0.5	..	15.7	0	10	20	0	0	0	1	4	23	2	0	1	0
	1730	,,	1009.3	1000 0	..	29.9	24.1	21.0	25.3	60	..	2.2	..	14.6	0	2	29	0	0	0	2	5	23	1	0	0	0
	2330	,,	1011.8	1010.4	..	26.4	23.9	22.7	27.9	80	..	1.7	..	2.8	0	0	13	0	0	0	0	0	8	5	0	18	0
Kakinada . .	0830	8	1013.4	1012.5	+0.1	24.3	22.0	20.8	24.4	81	+7	2·3	−0.4	6.6	0	0	31	0	9	0	15	0	7	0	0	0	0
	1730	,,	1009.1	1008.2	..	31.4	24.5	21.0	25.0	55	..	0.7	..	15.5	0	0	31	0	0	0	28	0	3	0	0	0	0
Nidadavolu . .	0830	12	1013.5	1012.1	..	26.3	23.3	21.9	26.1	77	..	3.6	..	2.6	0	0	23	6	7	6	1	0	0	2	1	8	0
	1730	,,	1009.1	1007.7	..	31.9	24.7	21.2	25.2	53	..	2.8	..	4.0	0	0	28	0	0	1	2	13	9	3	0	3	0
Rentachintala . .	0830	106	1012.5	1000.5	..	27.8	23.4	21.1	25.2	67	+5	2.3	−0.8	2.2	0	0	27	2	0	4	3	17	0	1	0	4	0
	1730	,,	1007.0	995.5	..	36.8	24.0	16.8	19.4	31	..	1.2	..	2.2	0	0	29	0	0	10	13	6	0	0	0	2	0
Gannavaram . .	0230	24	1010.3	1007.5	..	23.8	22.5	21.9	26.3	89	..	1.1	..	2.4	0	0	14	2	2	3	2	2	1	0	2	17	0
	0530	,,	1010.8	1008.1	..	23.3	22.5	22.0	26.6	92	..	2.5	..	3.9	0	0	23	1	5	11	3	0	0	1	2	8	0
	0830	,,	1013.3	1010.5	+0.8	26.8	24.3	23.1	28.3	80	+4	2.8	+0.1	8·2	0	1	28	1	3	9	9	6	0	0	1	2	0
	1130	,,	1012.5	1009.8	..	32.6	24.4	20.3	23.8	49	..	1.8	..	13.3	0	3	28	0	0	6	6	15	3	1	0	0	0
	1730	,,	1008.7	1006.0	..	33.2	23.3	17.5	20.5	41	..	0.9	..	18.5	0	13	18	0	0	1	7	23	0	0	0	0	0
	2330	,,	1011.6	1008.8	..	25.1	23.1	22.0	26.6	83	..	0.2	..	4.5	0	0	22	0	0	3	3	13	2	1	0	9	0
Nagarjunakonda (R)	0830	126	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Masulipatnam . .	0830	3	1013.1	1012.7	+0.6	26.9	24.4	23.2	28.6	81	+2	4.1	+1.8	2.2	0	0	25	4	4	3	0	10	1	1	1	6	1
	1730	,,	1009.4	1009.1	..	29.9	24.4	21.8	25.9	63	..	1.5	..	5.3	0	0	31	0	0	5	6	7	1	0	0	0	12
Ongole . . .	0830	12	1012.7	1011.4	..	27.7	25.6	24.7	31.1	84	..	2.6	..	2.1	0	0	21	2	3	0	11	3	2	0	0	10	0
	1730	,,	1008.8	1007.5	..	31.2	27.3	25.6	33.0	73	..	1.0	..	6.1	0	0	31	0	0	23	8	0	0	0	0	0	0
Nellore . . .	0530	20	1010.5	1008.2	..	24.0	22.9	22.4	26.9	91	..	1.0	..	1.1	0	0	7	0	0	1	5	1	0	0	0	24	0
	0830	,,	1012.5	1010.3	+0.6	27 4	24.2	22.7	27.6	76	−2	2.8	+0.7	1.4	0	0	14	0	0	0	13	1	0	0	0	17	0
	1130	,,	1012.1	1009.9	..	33.5	24.4	19.7	22.9	45	..	1.7	..	5.2	0	0	30	0	1	2	22	5	0	0	0	1	0
	1730	,,	1008.6	1006.4	..	31.1	24.9	21.9	26.4	59	..	2.1	..	5.7	0	0	31	0	5	0	26	0	0	0	0	0	0
	2330	,,	1011.6	1009.3	..	26.1	24.1	23.1	28.4	84	..	0.3	..	1.3	0	0	8	0	0	1	7	0	0	0	0	23	0
Telangana																											
Ramagundam .	0830	156	1012.1	994.3	−0.2	25.6	19.6	15.5	17.9	55	+3	1.6	−0.3	5.7	0	1	22	1	1	0	8	9	2	0	2	8	0
	1730	,,	1006.7	989.6	..	37.2	21.7	11.1	13.3	21	..	1.5	..	4.6	0	0	30	0	6	3	15	3	2	1	0	1	0
Nizamabad . .	0830	381	1012.0	969.6	+0.4	27.7	18.9	12.5	14.7	40	−4	1.3	+0.1	0.6	0	0	9	0	5	0	2	0	7	0	0	22	0
	1730	,,	1006.3	965.3	..	36.6	20.9	9.5	11.9	20	..	0.2	..	0.7	0	0	10	0	6	0	1	0	0	0	3	21	0

* Wind observations for 29 days.

) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amou (Oktas): Mean amount	Cloud amou (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*Contd.*)																											
Hanamkonda	0830	269	1012.1	981.9	0	25.7	21.6	19.3	22.4	69	+7	1.9	−0.1	2.4	0	0	31	2	0	1	9	19	0	0	0	0	0
	1730	,,	1008.1	979.0	..	36.0	21.9	12.5	14.7	25	..	0.9	..	2.0	0	0	31	2	2	7	13	6	0	1	0	0	0
Hakimpet (Aerodrome)	0530	613	1010.2	942.3	..	23.1	18.7	16.0	18.3	65	..	2.5	..	12.5	0	2	27	0	3	4	11	3	7	0	1	2	0
	0830	,,	1011.5	944.2	..	26.2	19.5	15.1	17.7	53	..	1.9	..	10.8	0	5	20	0	3	1	10	4	3	2	2	6	0
	1130	,,	1010.2	944.2	..	32.3	20.3	12.5	15.1	31	..	1.0	..	14.8	0	5	24	0	2	1	6	10	6	4	0	2	0
	1730	,,	1006.5	940.9	..	33.2	19.9	11.1	13.6	27	..	2.5	..	11.8	0	6	19	1	0	7	10	2	2	2	1	6	0
Srisailam	0830	111	1012.9	1000.3	+0.1	26.4	23.6	22.2	26.7	78	+6	7.0	+4.1	6.6	0	0	30	0	3	7	13	4	3	0	0	1	0
	1730	,,	1006.9	995.1	..	35.2	22.8	14.6	17.1	29	..	2.8	..	4.0	0	0	30	0	1	5	20	3	1	0	0	1	0
Hyderabad (Begumpet)	0230	545	1009.5	949.2	..	24.2	18.3	14.7	16.7	55	..	2.4	..	4.0	0	0	16	0	1	2	8	3	1	0	1	15	0
	0530	,,	1010.2	949.6	..	22.7	18.1	15.2	17.4	63	..	3.1	..	3.4	0	0	16	0	3	1	11	0	1	0	0	15	0
	0830	,,	1012.2	952.1	+1.1	26.0	19.1	15.0	17.0	52	−5	1.9	+0.5	4.6	0	0	20	1	2	1	8	3	1	2	2	11	0
	1130	,,	1010.5	951.7	..	32.6	20.0	11.8	14.1	29	..	1.5	..	11.7	0	2	29	1	1	1	11	8	9	0	0	0	0
	1730	,,	1006.1	947.9	..	33.9	19.9	10.7	12.9	25	..	3.1	..	9.7	0	0	30	0	1	3	13	8	3	0	2	1	0
	2330	,,	1010.3	950.4	..	26.6	18.5	13.4	15.4	45	..	2.5	..	6.0	0	1	19	0	4	2	13	0	0	0	1	11	0
Khammam	0830	112	1013.1	1000.4	..	26.9	23.3	21.4	25.6	72	..	4.0	..	4.6	0	0	29	1	0	2	14	12	0	0	0	2	0
	1730	,,	1007.3	995.0	..	35.9	22.2	12.9	15.6	29	..	1.6	..	3.8	0	0	27	0	0	11	6	9	0	1	0	4	0
Mahbubnagar	0830	505	1012.0	956.0	..	27.8	19.5	14.3	16.6	45	..	1.6	..	7.7	0	1	27	0	2	8	4	1	10	0	3	3	0
	1730	,,	1006.0	951.8	..	34.7	19.3	8.5	11.1	21	..	1.6	..	4.1	0	0	29	0	0	12	8	6	2	1	0	2	0
Rayalaseema																											
Kurnool	0830	281	1011.7	980.3	+0.5	27.2	20.9	17.0	19.6	54	+5	1.0	0	7.2	0	1	30	0	2	0	25	0	1	0	3	0	0
	1730	,,	1006.0	975.6	..	36.8	23.3	15.1	17.6	30	..	2.3	..	8.0	0	0	29	0	4	0	24	0	1	0	0	2	0
Nandyal (R)	0830	212																									
(R)	1730	,,																									
Anantapur	0530	350	1009.9	970.5	..	23.3	18.3	14.7	16.9	59	..	1.3	..	3.7	0	1	11	0	0	4	0	2	4	2	0	19	0
	0830	,,	1011.8	972.8	+0.6	27.1	20.9	17.1	19.7	55	+7	1.0	0	6.4	0	0	21	1	0	4	3	2	9	2	0	10	0
	1130	,,	1010.5	972.3	..	33.4	21.7	14.1	16.4	32	..	0.7	..	9.5	0	1	28	0	4	9	9	4	2	1	0	2	0
	1730	,,	1005.6	967.9	..	35.9	21.7	12.2	14.4	24	..	1.5	..	10.6	0	3	25	0	5	20	1	1	0	0	1	3	0
	2330	,,	1009.6	971.1	..	29.8	19.6	12.4	14.5	35	..	0.6	..	16.9	0	9	22	0	1	20	9	0	0	0	1	0	0
Cuddapah	0830	130	1012.4	997.7	+0.8	28.6	22.5	19.1	22.2	57	0	0.8	−0.4	0.7	0	0	5	0	0	5	0	0	0	0	0	26	0
	1730	,,	1006.9	992.7	..	36.6	25.3	19.7	22.9	38	..	1.2	..	4.0	0	0	26	0	0	26	0	0	0	0	0	5	0
Arogyavaram	0830	701	1012.2	935.3	..	24.4	18.9	15.5	17.4	59	..	1.1	..	5.4	0	0	29	0	0	3	10	15	1	0	0	2	0
	1730	,,	1006.1	931.4	..	32.2	18.6	8.8	11.5	24	..	2.2	..	9.2	0	0	30	0	1	23	5	1	0	0	0	1	0
Madras State																											
Madras	0830	6	1013.1	1012.4	..	27.9	24.7	23.3	28.4	76	..	3.0	..	4.8	0	0	20	1	1	1	0	3	8	5	1	11	0
Madras (Minambakkam)	0230	16	1010.6	1008.8	..	25.2	23.7	22.9	27.9	87	..	1.5	..	2.3	0	0	13	2	0	1	1	3	1	5	0	18	0
	0530	,,	1011.0	1009.2	..	24.6	23.4	22.8	27.7	90	..	2.2	..	2.4	0	0	16	1	0	0	0	1	3	10	1	15	0
	0830	,,	1013.2	1011.4	+0.8	27.7	24.7	23.2	28.6	77	0	3.3	+1.2	6.5	0	0	28	1	0	0	0	10	5	8	4	3	0
	1130	,,	1012.6	1010.8	..	32.4	24.6	20.7	24.6	50	..	3.2	..	9.9	0	1	30	2	0	9	5	14	1	0	0	0	0
	1730	,,	1009.4	1007.7	..	30.5	24.5	21.5	25.8	59	..	1.5	..	14.7	0	4	27	0	1	12	12	5	0	0	0	0	1
	2330	,,	1012.2	1010.4	..	26.4	24.1	23.0	28.2	82	..	1.1	..	6.2	0	0	24	0	0	2	16	5	1	0	0	7	0
Vellore	0530	214	1011.0	986.6	..	22.8	21.3	20.5	24.1	87	..	1.8	..	1.0	0	0	8	0	0	1	3	3	1	0	0	23	0
	0830	,,	1013.0	988.7	+0.9	25.1	22.1	20.5	24.1	76	0	2.7	+0.9	1.8	0	0	12	0	2	0	1	2	4	2	1	19	0
	1130	,,	1012.0	988.3	..	31.7	22.7	17.7	20.2	44	..	1.9	..	7.2	0	0	31	1	3	1	10	9	1	5	1	0	0
	1730	,,	1007.8	984.3	..	33.4	22.0	14.9	17.1	33	..	1.5	..	7.0	0	0	31	0	3	11	14	3	0	0	0	0	0
	2330	,,	1011.9	987.8	..	26.8	23.0	21.0	25.0	71	..	0.9	..	4.2	0	0	24	1	1	5	15	1	1	0	0	7	0
Tambaram (Aerodrome)	0830	29	1012.7	1009.5	..	28.0	25.6	24.4	30.9	81	..	3.8	..	8.6	0	1	27	2	1	0	0	3	9	7	6	3	0
	1730	,,	1009.0	1005.8	..	31.0	25.5	22.9	28.3	63	..	1.6	..	19.5	0	15	16	0	4	12	12	3	0	0	0	0	0
Tiruppattur	0830	390	1012.6	968.7	..	23.7	20.9	19.5	22.4	78	..	4.9	..	2.8	0	0	28	18	5	4	0	1	0	0	0	3	0
	1730	,,	1007.1	964.7	..	32.2	23.5	18.8	21.6	45	..	5.6	..	8.4	0	0	31	14	9	6	0	2	0	0	0	0	0
Mettur Dam R.S.	0830	..	..	..	..	27.9	24.6	23.0	28.3	75	..	2.0	..	4.4	0	0	30	0	3	0	12	0	9	0	6	1	0
	1730	..	..	..	..	32.6	28.2	26.5	34.6	71	..	3.2	..	5.7	0	0	30	0	7	0	14	0	6	0	3	1	0
Cuddalore	0530	12	1010.6	1009.2	..	24.2	23.3	22.9	27.9	92	..	3.1	..	2.8	0	0	17	3	7	2	2	1	0	2	0	14	0
	0830	,,	1013.0	1011.7	+0.6	27.3	24.9	23.8	29.5	81	+1	4.5	+2.0	3.5	0	0	21	3	5	0	6	3	2	0	2	10	0
	1130	,,	1012.7	1011.4	..	30.8	25.4	22.9	27.9	64	..	3.7	..	9.9	0	0	31	0	7	2	21	1	0	0	0	0	0
	1730	,,	1009.3	1008.0	..	29.3	25.5	23.8	29.5	72	..	2.7		11.9	0	2	29	0	4	10	16	1	0	0	0	0	0
	2330	,,	1011.8	1010.5	..	27.3	25.0	24.0	29.7	82	..	8	..	8.2	0	0	29	0	9	4	16	0	0	0	0	2	0

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative h	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Kaliakkurichchi	0830	127	1012.7	998.4	..	26.7	24.1	22.8	27.9	80	..	2.7	..	4.4	0	0	24	0	1	0	7	0	3	0	13	7	0
	1730	,,	1007.8	993.8	..	33.7	25.8	22.0	26.6	51	..	2.7	..	11.6	0	1	30	0	7	14	9	1	0	0	0	0	0
Salem	0530	278	1010.7	979.3	..	23.5	20.8	19.2	22.4	77	..	2.0	..	1.5	0	0	13	0	3	9	1	0	0	0	0	18	0
	0830	,,	1012.6	981.5	+0.5	26.9	21.8	18.9	21.8	62	—8	2.5	+1.0	3.3	0	0	18	1	2	12	1	0	0	1	1	13	0
	1130	,,	1011.3	980.7	..	32.3	22.3	16.1	18.8	39	..	3.1	..	5.3	0	0	26	0	3	15	3	2	2	1	0	5	0
	1730	,,	1006.5	976.3	..	34.2	21.7	13.5	15.7	30	..	3.5	..	10.3	0	0	30	0	5	16	6	2	0	1	0	1	0
	2330	,,	1011.2	980.1	..	27.5	22.0	18.8	21.8	60	..	2.2	..	9.9	0	0	30	0	3	18	9	0	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1011.1	966.2	..	22.5	20.2	18.8	21.8	80	..	2.3	..	7.7	0	0	26	6	10	3	1	3	1	0	2	5	0
	0830	,,	1012.9	968.3	..	25.3	21.8	19.8	23.2	72	..	2.9	..	10.0	0	0	29	5	17	4	0	1	1	1	0	2	0
	1130	,,	1011.4	967.7	..	30.7	22.1	16.9	19.5	45	..	2.3	..	13.2	0	6	21	2	12	10	0	1	0	0	1	4	1
	1730	,,	1006.3	963.3	..	34.0	20.9	11.9	14.1	27	..	2.6	..	17.2	0	9	22	0	9	19	2	1	0	0	0	0	0
	2330	,,	1011.5	967.1	..	26.3	21.6	18.7	22.0	65	..	2.1	..	11.7	0	0	27	0	2	11	1	11	2	0	0	4	0
Coimbatore	0830	409	1012.7	967.1	+0.6	25.6	21.4	19.0	22.1	68	—7	3.0	+0.4	16.5	0	6	25	1	6	14	10	0	0	0	0	0	0
	1730	,,	1006.3	962.2	..	33.9	21.1	12.4	14.5	28	..	3.3	..	17.9	0	12	19	0	5	14	10	2	0	0	0	0	0
Nagappattinam	0830	9	1013.1	1012.0	+0.9	28.9	24.9	23.0	28.3	71	—4	3.8	+0.3	11.3	0	3	25	1	10	6	7	0	2	1	1	3	0
	1730	,,	1009.3	1008.1	..	29.4	25.4	23.6	29.1	71	..	3.4	..	20.1	0	19	12	1	10	9	11	0	0	0	0	0	0
Tiruchirappally	0230	88	1010.4	1000.4	..	25.0	23.3	22.4	27.3	86	..	2.9	..	6.4	0	0	27	7	12	4	1	1	1	0	1	4	0
	0530	,,	1010.6	1000.6	..	24.1	22.9	22.2	26.9	90	..	3.2	..	3.7	0	0	18	4	13	0	0	0	0	1	0	13	0
	0830	,,	1012.6	1002.7	0	27.5	24.3	22.7	27.7	75	—2	3.1	+0.8	7.3	0	0	24	2	11	5	2	4	0	0	0	7	0
	1130	,,	1011.8	1002.0	..	32.1	24.4	20.6	24.1	51	..	3.4	..	11.4	0	2	26	0	12	6	6	3	1	0	0	3	0
	1730	,,	1007.7	998.0	..	33.7	23.8	18.4	21.3	42	..	2.6	..	17.4	0	11	20	0	5	18	7	1	0	0	0	0	0
	2330		1011.7	1001.8	..	26.5	23.5	22.4	26.9	79	..	1.9	..	11.5	0	2	27	0	8	14	6	1	0	0	0	2	0
Vedaranniyam	0830	4	1012.6	1012.1	..	29.3	25.7	24.1	30.0	74	..	2.6	..	2.6	0	0	31	3	10	1	14	2	1	0	0	0	0
	1730	,,	1009.3	1008.8	..	29.8	26.4	25.0	31.7	75	..	1.1	..	8.2	0	1	30	2	10	2	15	1	1	0	0	0	0
Atirampatinam	0830	6	1012.5	1011.8	..	28.0	24.9	23.5	28.9	77	..	4.1	..	7.9	0	0	29	12	5	3	0	3	2	3	1	2	0
	1730	,,	1008.6	1007.9	..	30.9	24.6	21.5	25.6	58	..	2.8	..	15.9	0	8	23	0	12	4	15	0	0	0	0	0	0
Madurai	0830	133	1013.1	998.1	+0.9	27.5	23.6	21.7	25.9	71	+2	3.5	+0.1	4.2	0	0	30	11	7	5	2	2	0	1	2	1	0
	1730	,,	1007.8	993.2	..	33.3	23.2	17.4	20.2	40	..	3.0	..	6.7	0	0	29	0	11	8	6	1	0	0	0	2	3
Madurai (Aerodrome)	0530	131	1010.6	995.6	..	23.9	22.4	21.6	25.9	87	..	2.7	..	3.1	0	0	17	2	14	1	0	0	0	0	0	14	0
	0830	,,	1012.6	997.8	..	27.6	23.7	21.7	26.1	70	..	2.7	..	8.3	0	1	26	8	11	1	4	1	0	0	2	4	0
	1130	,,	1011.7	997.1	..	32.1	23.9	19.6	22.9	48	..	3.7	..	12.5	0	4	25	3	13	7	3	0	1	0	2	2	0
	1730	,,	1007.7	993.2	..	32.9	23.3	17.7	20.8	43	..	3.6	..	13.5	0	5	25	0	10	12	7	1	0	0	0	1	0
Tondi	0830	5	1012.8	1012.2	..	28.1	25.2	23.9	29.7	78	..	3.9	..	8.4	0	1	27	12	3	7	3	0	2	0	1	3	0
	1730	,,	1009.1	1008.5	..	29.7	26.0	24.3	30.7	77	..	3.0	..	19.2	0	15	16	0	4	20	7	0	0	0	0	0	0
Pamban	0830	11	1012.3	1011.1	+0.5	28.7	25.9	24.7	31.1	79	+3	3.5	+0.9	6.8	0	0	27	0	11	10	3	3	0	0	0	4	0
	1730	,,	1008.5	1007.2	..	29.8	26.5	25.1	31.9	76	..	3.1	..	19.6	0	0	29	4	17	0	1	2	1	2	2	2	0
Tuticorin	0830	4	1012.7	1012.3	+0.1	27.7	24.9	23.6	28.9	78	+4	3.7	+1.2	12.3	0	4	27	16	10	2	0	0	1	0	2	0	0
	1730	,,	1008.7	1008.3	..	29.6	26.1	24.6	31.1	75	..	3.5	..	23.2	0	17	14	0	4	18	8	1	0	0	0	0	0
Palayancottai	0830	51	1012.4	1006.7	+0.4	27.6	24.3	22.7	27.6	75	+2	4.4	+1.1	2.9	0	0	19	18	1	0	0	0	0	0	0	12	0
	1730	,,	1008.1	1002.5	..	31.6	24.2	20.3	24.1	53	..	4.5	..	7.8	0	2	26	1	2	19	4	2	0	0	0	3	0
Kanniyakumari	0830	37	1011.7	1007.6	..	28.2	24.5	22.8	27.6	73	..	4.3	..	16.5	0	12	19	13	15	1	0	0	0	1	1	0	0
	1730	,,	1008.3	1004.3	..	29.5	25.3	23.1	28.8	69	..	4.2	..	17.6	0	12	19	1	7	12	5	1	4	0	1	0	0
Coastal Mysore																											
Karwar	0830	4	1012.1	1011.6	+0.2	24.5	22.2	21.0	25.0	81	0	1.5	—0.3	6.1	0	0	31	0	6	23	0	0	1	0	0	0	1
	1730	,,	1008.5	1008.0	..	29.6	25.6	23.2	29.5	69	..	2.5	..	14.7	0	6	25	0	0	0	0	0	0	2	26	0	3
Honavar	0830	26	1012.3	1009.4	+0.1	24.6	22.1	20.7	24.7	79	+1	2.2	—0.8	5.8	0	0	30	1	7	22	0	0	0	0	0	1	0
	1730	,,	1008.1	1005.5	..	30.1	25.3	23.1	28.3	66	..	2.7	..	8.2	0	0	31	0	0	0	0	1	0	20	10	0	0
Mangalore (Bajpe)	0230	102	1010.0	998.5	..	25.2	23.4	22.5	27.3	85	..	0.8	..	1.6	0	0	9	0	3	6	0	0	0	0	0	22	0
	0530	,,	1010.2	998.6	..	24.2	22.9	22.2	26.9	89	..	1.1	..	3.2	0	0	19	0	0	19	0	0	0	0	0	12	0
	0830	,,	1012.1	1000.7	..	27.1	23.7	22.1	26.6	75	..	1.5	..	4.0	0	0	26	0	3	23	0	0	0	0	0	5	0
	1130	,,	1011.6	1000.3	..	32.6	24.0	19.0	22.8	47	..	1.9	..	8.3	0	0	28	0	3	3	4	1	2	9	5	3	1
	1730	,,	1008.0	996.6	..	30.0	24.5	22.0	26.3	63	..	2.0	..	13.3	0	4	27	1	0	0	0	0	0	23	7	0	0
	2330	,,	1011.4	999.9	..	26.3	23.8	22.6	27.6	80	..	1.7	..	2.8	0	0	16	7	0	1	0	0	1	4	3	15	0
Mangalore	0830	22	1012.1	1009.6	+0.2	27.8	24.1	22.3	26.9	72	—2	3.0	+1.2	3.1	0	0	31	1	6	22	2	0	0	0	0	0	0
	1730	,,	1008.1	1005.7	..	30.4	25.3	23.0	27.9	65	..	3.0	..	6.9	0	1	30	0	0	0	0	0	3	16	10	0	2

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North																											
Bidar	0830	664	1011·2	938·7	..	25·9	17·6	10·3	14·1	41	0	0·9	−0·9	11·1	0	1	28	0	3	4	4	5	9	0	4	2	0
	1730	,,	1005·5	934·9	..	33·6	18·0	6·6	9·3	19	..	2·7	..	9·9	0	2	25	0	8	5	4	1	7	1	1	4	0
Gulbarga	0830	458	1011·6	961·1	+0·7	28·0	18·1	11·0	13·6	36	−5	1·6	+0·9	(a) 9·9	0	4	21	2	3	9	6	4	0	1	0	5	0
	1730	,,	1005·0	956·1	..	36·3	19·4	7·0	10·1	17	..	3·2	..	10·5	0	2	27	0	1	16	3	5	1	2	1	2	0
Bijapur	0830	594	1011·9	946·1	+0·4	25·2	18·1	13·4	15·6	49	+2	0·5	−0.4	2·2	0	0	23	6	0	1	5	3	1	1	6	8	0
	1730	,,	1004·8	941·7	..	35·5	22·3	14·9	17·1	30	..	1·1	..	1·3	0	0	15	4	0	5	2	1	0	1	2	16	0
Raichur	0830	400	1011·7	967·4	+0·7	28·0	21·0	16·5	19·1	51	+4	3·2	+2·2	4·7	0	0	26	4	1	0	5	6	8	1	0	5	1
	1730	,,	1006·0	963·1	..	36·0	22·6	14·1	16·5	27	..	2·9	..	5·5	0	0	31	0	17	0	13	0	0	0	1	0	0
Belgaum	0830	753	1013·1	929·9	+1·0	21·6	16·2	12·3	14·5	57	−3	0·8	−0·1	1·0	0	0	8	1	1	2	0	1	0	3	0	23	0
	1730	,,	1005·4	925·5	..	32·0	19·5	10·5	13·5	30	..	2·0	..	6·9	0	0	30	0	1	3	1	1	2	16	5	1	1
Beglaum (Samba)	0530	747	1010·5	927·7	..	20·6	15·2	10·7	13·4	56	..	1·0	..	2·1	0	0	13	1	3	3	4	0	1	1	0	18	0
	0830	,,	1011·7	929·7	..	23·9	16·5	10·7	12·8	46	..	1·2	..	3·7	0	0	17	1	7	3	3	0	3	0	0	14	0
	1130	,,	1009·6	929·7	..	31·6	17·3	5·1	9·1	21	..	0·7	..	10·0	0	4	26	6	10	4	6	2	2	0	0	1	0
	1730	,,	1005·2	925·9	..	32·4	19·1	9·4	11·2	27	..	2·5	..	13·9	0	10	20	1	5	2	2	0	4	11	5	1	0
Gadag	0530	650	1010·3	938·4	..	22·6	18·4	15·7	17·8	66	..	0·8	..	3·2	0	0	16	0	1	4	1	4	3	3	0	15	0
	0830	,,	1011·9	940·4	+0·6	25·0	19·0	15·2	17·6	56	−1	0·5	−0·4	5·5	0	0	26	0	1	6	2	3	4	9	1	5	0
	1130	,,	1009·8	940·3	..	33·1	21·5	14·7	16·7	34	..	0·4	..	7·9	0	0	28	2	0	10	5	2	3	5	1	3	0
	1730	,,	1004·7	936·0	..	35·3	21·0	12·3	14·4	25	..	2·2	..	4·4	0	0	23	0	2	13	3	0	1	0	4	8	0
	2330	,,	1010·5	939·4	..	26·5	19·9	16·0	18·3	54	..	1·1	..	7·3	0	0	31	0	0	10	3	0	2	16	0	0	0
Interior Mysore South																											
Bellary	0830	449	1011·9	962·2	+1·0	27·3	21·7	18·3	21·3	59	+13	0·7	−0·5	6·3	0	0	23	0	0	0	21	2	0	0	0	8	0
	1730	,,	1005·3	957·2	..	35·9	25·5	20·2	24·1	41	..	3·3	..	7·2	0	0	26	0	0	0	26	0	0	0	0	5	0
Chitradurga	0830	733	1011·5	931·5	+0·5	25·7	19·4	15·6	17·9	55	+5	1·0	−0·3	3·7	0	0	20	0	0	4	1	5	6	4	0	11	0
	1730	,,	1004·6	927·2	..	34·0	20·7	12·5	14·7	28	..	1·9	..	3·3	0	0	21	2	1	16	0	0	1	0	1	10	0
Shimoga	0830	571	1012·0	948·4	−0·1	22·8	19·5	17·3	20·2	73	−4	1·1	−1·5	0·2	0	0	3	0	0	0	1	0	2	0	0	28	0
	1730	,,	1004·7	943·8	..	34·1	20·0	10·5	13·0	25	..	0·7	..	3·3	0	0	26	0	8	2	7	0	8	0	1	5	0
Agumbe	0830	..	..	..	..	21·7	19·7	18·5	21·4	82	..	..	..	4·3	0	0	31	2	12	2	3	0	7	3	2	0	0
Balehonnur	0830	890	..	..	..	22·7	19·3	17·2	19·9	72	−7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1528·5	907·9	..	22·2	18·5	16·2	18·8	70	+5	0·5	−1·0	1·4	0	0	17	0	0	11	0	2	0	4	0	14	0
	1730	,,	1508·0	904·0	..	31·3	18·6	9·7	12·2	27	..	2·3	..	2·8	0	0	26	2	1	20	[illegible]	0	0	3	0	5	0
Bangalore	0230	921	1508·3	910·0	..	21·4	18·0	15·9	18·2	72	..	1.0	..	4·5	0	0	21	0	0	9	11	1	0	0	0	10	0
	0830	,,	1531·3	912·1	+0·7	23·2	18·8	16·1	18·5	65	+1	1.3	−0·1	3·7	0	0	21	0	0	7	7	1	4	1	1	10	0
	1130	,,	1542·7	911·9	..	29·5	19·1	12·5	14·5	36	..	1.5	..	6·8	0	0	24	0	1	8	12	2	1	0	0	7	0
	1730	,,	1510·8	908·3	..	30·9	18·8	10·7	12·9	29	..	3.0	..	6·5	0	0	25	0	0	16	9	0	0	0	0	6	0
Bangalore Aerodrome	0530	897	1504·1	912·6	..	19·5	18·2	17·4	20·0	88	..	0.9	..	2·2	0	0	15	0	0	12	3	0	0	0	0	16	0
	0830	,,	1529·3	914·6	..	22·7	19·5	17·7	20.2	74	..	1.9	..	6·0	0	0	21	0	2	7	4	2	4	2	0	10	0
	1130	,,	1540·9	914·4	..	28·9	20·6	15·7	18·2	46	..	1.6	..	10·6	0	2	24	0	1	15	3	2	4	1	0	5	0
	1730	,,	1509·7	910·7	..	30·9	21·1	15·5	17·8	41	..	2.9	..	11·2	0	1	27	0	4	18	5	0	1	0	0	3	0
	2330	,,	1524·4	915·9	..	23·5	19·2	16·5	19·0	66	..	1.0	..	7·2	0	0	26	0	0	23	3	0	0	0	0	5	0
Mysore	0830	767	1012·3	928·0	+0·4	23·4	18·8	16·0	18·3	64	−3	1·1	−0·9	3·5	0	0	31	3	2	6	3	3	7	5	2	0	0
	1730	,,	1005·3	924.1	..	32.7	17.9	6.6	9.3	20	..	3.2	..	6·0	0	0	31	4	7	17	1	0	0	0	2	0	0
Kerala																											
Calicut	0530	5	1010.4	1009.8	..	25.4	23.9	23.2	28.3	87	..	1·2	..	5.5	0	0	27	1	12	14	0	0	0	0	0	4	0
	0830	,,	1012.2	1011.6	+0·4	27.9	24.6	23.1	28.3	75	−1	1·5	−0.6	4.6	0	0	26	3	10	11	2	0	0	0	0	5	0
	1130	,,	1012.1	1011.5	..	31.3	25.8	23.3	28.6	63	..	1·6	..	13.7	0	3	28	0	0	0	0	0	10	16	5	0	0
	1730	,,	1008.3	1007.7	..	30.6	26.3	24·3	30.4	70	..	1·7	..	17.0	0	9	22	0	0	0	0	0	0	15	16	0	0
	2330	,,	1011.6	1011.0	..	27.8	25.1	24.0	29.7	80	..	2·2	..	8.0	0	5	17	4	5	2	0	0	0	2	9	9	0
Palghat	0830	97	1012.3	1001.4	..	28.3	24.0	21.9	26.3	69	..	2·4	..	8.3	0	0	26	0	0	21	2	0	0	3	0	5	0
	1730	,,	1006.8	996.1	..	35.0	24.4	18.5	21.8	41	..	2·0	..	12.4	0	1	30	0	1	17	1	0	1	11	0	0	0
Port Cochin	0830	3	1012.0	1011.7	+0·1	28.0	25.0	23.2	29.3	77	+2	5·5	+3.5	3.6	0	0	21	3	10	7	0	0	0	0	1	10	0
	1730	,,	1007.7	1007.4	..	30.2	26.0	24.2	30.2	71	..	5·4	..	9.4	0	0	29	1	0	0	0	0	1	18	9	2	0
Cochin (Naval Air Station)	0230	3	1010.2	1009.9	..	26.5	24.9	24.2	30.2	87	..	4.4	..	0.4	0	0	1	0	0	0	0	0	0	0	1	30	0
	0530	,,	1010.1	1009.8	..	25.6	24.3	23.8	29.3	90	..	3.5	..	0.6	0	0	2	2	0	0	0	0	0	0	0	29	0
	0830	,,	1012.0	1011.7	..	28.1	24.9	23.3	28.9	75	..	3.1	..	1.8	0	0	8	5	1	2	0	0	0	0	0	23	0
	1130	,,	1011.9	1011.6	..	31.7	25.5	22.6	27.6	59	..	4.0	..	8.1	0	0	26	0	0	1	1	0	4	14	6	5	0
	1730	,,	1007.9	1007.6	..	30.3	25.7	23.6	29.3	68	..	4.3	..	16.3	0	3	27	1	0	0	0	1	8	18	2	1	0
	2330	,,	1011.9	1011.6	..	27.5	25.0	23.9	29.7	81	..	5.1	..	1.0	0	0	4	1	0	0	0	0	1	1	1	27	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala —(Contd.)																											
Alleppey	0830	4	1012·0	1011·6	+0·4	28·5	25·7	24·4	30·7	79	+2	3·8	−0·5	5·2	0	0	28	0	16	5	7	0	0	0	0	3	0
	1730	,,	1008·0	1007·6	..	31·1	26·4	24·5	30·4	69	..	4·0	..	21·2	0	24	7	0	0	0	0	0	1	11	19	0	0
Punalur	0830	34	1012·0	1008·1	..	26·0	23·8	22·7	27·9	82	..	3·7	..	0·6	0	0	4	1	0	1	1	0	0	0	1	27	0
	1730	,,	1007·8	1004·4	..	31·7	26·2	23·9	29·7	64	..	6·9	..	4·4	0	0	31	0	0	0	0	1	8	15	7	0	0
Trivandrum	0230	64	1009·6	1002·3	..	25·9	23·8	22·8	27·9	84	..	2·7	..	2·8	0	0	16	1	8	2	2	0	0	0	3	15	0
	0530	,,	1009·8	1002·5	..	25·2	23·3	22·3	26·9	85	..	2·4	..	3·5	0	0	23	2	14	2	2	0	0	0	3	8	0
	0830	,,	1011.9	1004.6	+0.2	26.8	23.9	22.3	27.3	77	0	3.2	+1.0	4.1	0	0	23	2	11	3	2	0	0	0	5	8	0
	1130	,,	1011.4	1004.2	..	31.4	24.4	20.7	24.9	54	..	4.8	..	5.2	0	0	29	1	4	1	2	2	9	5	5	2	0
	1730	,,	1008.3	1001.1	..	29.6	25.1	22.9	28.3	68	..	4.3	..	7.9	0	0	30	0	2	0	0	4	14	8	2	1	0
	2330	,,	1011.5	1004.2	..	26.9	24.5	23.4	29.1	82	..	3.2	..	4.7	0	0	23	4	6	0	2	0	0	4	7	8	0
Trivandrum (Aerodrome)	0830	8	1012.2	1011.3	..	28.0	24.0	21.9	26.6	70	..	3.2	..	6.8	0	0	23	4	9	7	2	0	1	0	0	8	0
Arabian Sea Islands																											
Amini*	0530	4																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hills Stations excluding Kashmir																											
Dalhousie	0830	1959	1452.0	801.9	+2.2	11.8	6.9	0.9	6.9	52	−8	2.6	−0.1	3.2	0	0	21	1	9	2	1	0	0	1	1	10	6
	1730	,,	1444.0	800.0	..	15.1	9.7	5.3	8.6	55	..	2.8	..	2.6	0	0	21	1	9	0	2	0	6	0	1	10	2
Dharmsala	0830	1211	1561.1	885.5	+1.4	18.0	11.1	4.1	8.2	41	−8	3.6	+0.2	1.8	0	0	18	0	17	0	0	0	0	0	1	13	0
	1730	,,	1558.4	885.2	..	21.7	13.7	6.8	9.9	39	..	4.4	..	2.0	0	0	28	0	0	0	0	0	28	0	0	3	0
Simla	0830	2202	1503.8	783.1	+1.9	13.1	5.7	−3.7	4.3	31	−5	2.1	−1.1	1.6	0	0	25	2	6	0	6	8	2	0	1	6	0
	1730	,,	1493.2	782.5	..	13.6	8.9	4.2	8.4	54	..	3.3	..	1.9	0	0	29	0	5	0	7	1	15	0	1	2	0
Lokpal	0830	..	..	..	..	−9.6	−11.1	−12.1	2.1	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..	..	..	..	..	..	Closed	during	Winter	Months		..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	0830	..	..	..	..	12·4	6.0	−3.1	4.7	39	..	1.9	..	7.8	0	1	27	0	6	16	2	1	1	0	0	3	2
	1730	..	..	..	..	16.2	8.2	−0.7	5.8	35	..	4.7	..	4.9	0	0	31	2	1	6	3	6	2	4	2	0	5
Mussoorie	0830	2042	..	..	..	13.5	7.5	0.8	6.5	46	−2	2.1	−0.9	2.5	0	0	18	7	1	0	1	2	1	0	6	13	0
	1730	,,	..	..	..	15.1	9.5	4.1	8.3	50	..	3.3	..	3.9	0	0	28	9	5	0	2	4	3	0	5	3	0
Mukteswar (Kumaun)	0830	2311	3146.2	774.1	+1.5	12.3	7.5	−3.5	4.8	33	−11	1.3	−1.3	7.9	0	2	26	0	4	4	0	1	2	10	7	3	0
	1730	,,	3132.9	772.4	..	14.1	7.8	−0.1	6.5	41	..	2.5	..	18.4	0	14	17	1	2	0	0	0	7	14	7	0	0
Nainital	0830	1953	1501.6	806.2	+1.0	14.7	7.9	−1.3	6.3	37	−8	1.8	−0.8	3.1	0	0	14	6	5	1	1	0	0	0	1	17	0
	1730	,,	1477.2	803.8	..	14.4	8.7	3.2	7.6	51	..	1.9	..	8.4	0	0	31	4	1	5	3	5	2	9	2	0	0
Kalimpong**	0830	1209	1471.3	876.5	..	19.5	17.6	16.3	18.5	83	..	1.3	..	2.6	0	0	25	12	0	0	1	0	0	0	12	0	0
	1730	,,	1468.9	876.2	..	19.1	16.5	14.7	16.7	80	..	2.4	..	3.8	0	0	25	0	0	0	24	0	0	0	1	0	0
Darjeeling	0830	2128	1481.0	787.9	−0.4	12.2	9.2	5.8	9.2	68	+1	3.3	+0.3	1.0	0	0	8	4	0	0	0	1	2	1	0	23	0
	1730	,,	1448.0	784.9	..	12.9	9.8	6.5	9.7	68	..	5.7	..	4.5	0	1	17	0	0	0	1	0	9	0	0	13	8
Kohima	0830	1406	1544.9	864.1	..	17.7	13.8	10.8	12.9	63	..	1.7	..	7.2	0	0	31	0	0	0	6	0	2	0	14	0	9
	1730	,,	1509.0	861.4	..	18.7	14.2	10.8	12.9	64	..	4.0	..	6.0	0	0	31	2	0	0	4	0	2	1	18	0	4
Shillong	0830	1500	1524.8	852.3	+1.7	19.8	15.7	12.9	14.9	66	+21	1.3	−0.6	6.3	0	0	15	0	0	0	0	2	12	1	0	16	0
	1730	,,	1499.0	850.2	..	17.6	15.5	14.1	16.1	80	..	4.7	..	1.0	0	0	4	0	0	0	0	0	3	1	0	27	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1525.0	883.2	+0.9	20.8	13.2	6.0	9.7	41	+6	0·5	−1.0	0.1	0	0	2	0	0	0	0	0	0	1	1	29	0
	1730	,,	1510.9	881.4	..	25.8	13.6	1.6	6.7	20	..	0·6	..	1.4	0	0	10	0	1	0	0	1	4	1	3	21	0
Aijal	0830	..	..	..	..	21.5	16.5	13.2	15.2	59	..	1.4	..	4.1	0	0	31	4	0	12	0	6	2	7	0	0	0
	1730	..	..	..	..	23.2	18.0	14.8	16.8	60	..	1.6	..	3.9	0	0	31	1	0	3	0	9	1	17	0	0	0
Pachmarhi	0830	1075	1534.8	896.5	+0.9	22.8	12·9	2.5	7.7	29	−8	0.7	−0.9	1.6	0	0	17	0	1	2	2	3	1	2	6	14	0
	1730	,,	1517.2	893.5	..	29.1	15.1	0.7	7.0	17	..	1.5	..	3.3	0	0	27	1	2	0	0	1	1	10	12	4	0

* Data given as addenda in December, 1964 issue.

*Observations for 25 days.

(R)—Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir (*Contd.*)																											
Mahabaleshwar	0830	1382	1531·9	865·1	+1·1	21·3	12·4	3·1	8·0	51	−6	0·5	−0·2	10·8	0	0	31	0	18	0	6	0	1	0	6	0	0
	1730	,,	1510·3	862·7	..	27·0	16·9	8·8	11·9	34	..	0·8	..	9·7	0	0	31	1	10	0	1	0	0	0	19	0	0
Mercara	0830	1152	1527·0	888·1	+1·1	21·5	17·5	14·8	17·0	67	−2	0·4	−2·2	10·2	0	0	29	5	9	9	0	1	0	4	1	2	0
	1730	,,	1504·2	884·8	..	27·2	19·3	14·0	16·6	48	..	3·3	..	13·5	0	0	31	1	7	8	0	1	0	8	6	0	0
Ootacamund	0830	2249	1526·7	781·5	+0·8	14·2	9·5	4·9	8·9	55	+5	1·7	0	3·5	0	0	23	0	11	9	1	1	0	1	0	8	0
	1730	,,	1499·3	779·9	..	18·7	13·0	8·4	11·3	53	..	3·1	..	2·1	0	0	21	0	3	17	1	0	0	0	0	10	0
Coonoor (R)	1730	1747	..	..	..		..				..																
Kodaikanal	0830	2343	3173·2	773·1	+1·0	14·8	9·9	4·6	9·0	56	+10	2·4	+0·7	11·5	0	2	29	5	10	9	7	0	0	0	0	0	0
	1130	,,	3187·0	773·5	..	18·2	12·1	6·7	10·2	50	..	3·5	..	12·5	0	3	28	3	10	8	10	0	0	0	0	0	0
	1730	,,	3159·6	771·7	..	15·6	12·7	10·4	12·6	73	..	4·9	..	6·4	0	0	26	5	3	6	11	1	0	0	0	5	0
Nepal																											
Katmandu	0830	1324	1512·5	869·4	..	13·0	10·7	8·7	11·2	72	..	1·5	..	0·7	0	0	3	0	0	0	0	0	0	3	0	28	0
	1130	,,	1508·6	868·4	..	23·0	14·7	8·0	10·7	39	..	2·5	..	1·3	0	0	11	0	0	0	1	1	3	3	3	20	0
	1730	,,	1482·8	865·9	..	21·8	14·7	9·1	11·5	45	..	2·7	..	4·0	0	0	16	0	0	1	0	1	9	3	2	15	0
Sikkim																											
Lachen	0830	..	..	..	..	9·4	6·2	2·7	7·4	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	26·9	16·8	8·3	10·7	31	..	0·7	..	7·2	0	0	27	0	2	10	1	0	1	11	2	4	0
	1730	..	..	..	..	29·0	17·3	7·4	9·9	25	..	0·9	..	7·3	0	0	29	1	1	16	4	3	0	2	2	2	0
Hazaribagh	0830	615	1010·9	943·2	..	25·7	15·3	6·7	9·6	30	..	0·5	..	4·2	0	1	20	0	0	1	1	4	5	7	3	10	0
	1730	,,	1006·5	939·7	..	28·6	15·9	5·2	8·7	23	..	1·2	..	5·0	0	0	26	3	1	1	0	0	0	13	8	5	0
Konar	0830	..	..	..	..	26·5	17·7	11·0	12·6	39	..	0·9	..	7·8	0	0	28	0	0	0	6	0	0	21	1	3	0
	1730	..	..	..	..	29·1	18·9	11·5	12·9	35	..	0·3	..	7·2	0	0	31	0	0	5	0	0	0	26	0	0	0
Bokaro	0830	242	1014·1	986·8	..	22·0	16·3	11·9	13·9	55	..	1·6	..	4·4	0	0	24	1	0	0	0	2	3	3	15	7	0
	1730	,,	1009·1	982·5	..	28·6	17·7	8·9	11·4	30	..	2·5	..	7·0	0	0	29	2	2	0	1	1	3	5	15	2	0
Maithon	0830	..	..	..	..	26·2	18·1	12·2	14·0	44	..	0·9	..	2·6	0	0	30	3	0	0	3	2	15	5	2	1	0
	1730	..	..	..	..	32·6	22·4	16·5	18·8	41	..	1·3	..	3·7	0	0	31	0	1	0	1	2	15	9	3	0	0
Ramgarh	0830	..	..	..	..	23·8	16·6	10·9	12·8	45	..	1·0	..	2·4	0	0	24	0	2	0	0	0	15	6	1	7	0
	1730	..	..	..	..	31·7	16·6	7·8	9·7	23	..	1·6	..	2·3	0	0	24	3	2	3	1	2	4	7	2	7	0
Panchet Hills	0830	..	..	..	..	25·7	18·2	12·9	14·9	45	..	0·2	..	6·0	0	0	27	0	2	0	0	0	19	0	6	4	0
	1730	..	..	..	..	32·2	19·1	9·0	11·4	25	..	0·8	..	3·4	0	0	14	0	1	0	1	0	3	0	9	17	0
Durgapur	0830	..	..	..	..	27·0	22·4	20·0	22·9	65	..	1·6	..	5·1	0	0	31	9	10	1	2	5	0	0	4	0	0
	1730	..	..	..	..	32·5	24·2	20·1	22·9	48	..	1·5	..	4·1	0	0	31	7	0	0	2	4	1	0	17	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	24·7	15·7	8·3	10·9	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1012·2	994·3	..	27·1	19·3	14·0	16·0	45	..	1·1	..	2·2	0	0	21	5	0	4	0	5	3	0	3	10	1
	1130	,,	1011·4	993·7	..	32·7	20·7	12·6	14·6	33	..	1·1	..	2·8	0	0	27	2	0	3	1	1	5	4	8	4	3
	1730	,,	1006·9	989·5	..	34·4	21·1	12·1	14·1	26	..	1·6	..	1·6	0	0	16	1	0	2	0	6	1	1	5	15	0
Bhimkund	0830	..	..	..	..	25·4	19·1	14·9	16·9	53	..	1·8	..	1·6	0	0	11	2	0	0	1	1	0	0	7	20	0
	1730	..	..	..	..	31·5	19·3	10·2	12·4	27	..	2·0	..	1·3	0	0	12	3	1	0	1	1	3	1	2	19	0
Sonepur	0830	..	..	..	..	27·2	21·4	18·1	20·8	55	..	..	..	3·3	0	0	24	7	1	7	0	5	2	2	0	7	0
Khijrawan	0830	..	..	..	..	23·3	18·3	14·6	16·9	60	..	0	..	4·3	0	0	31	2	8	0	6	3	7	2	3	0	0
	1730	..	..		..	32·7	19·8	9·5	12·6	27	..	0	..	4·1	0	0	31	5	3	0	4	2	6	2	9	0	0
Narmada Catchment																											
Bagre Tawa	0830	..	..	..	..	24·6	14·5	4·0	8·4	28	..	0·5	..	6·5	0	1	24	0	7	1	0	1	13	2	1	6	0
	1730	..	..	..	..	35·0	18·4	2·7	7·7	14	..	1·2	..	5·5	0	0	27	1	6	0	1	0	6	9	4	4	0
Punasa	0830	..	..	..	..	25·4	14·8	3·6	8·3	26	..	0·3	..	4·5	0	0	26	3	9	2	0	1	6	1	4	5	0
	1730	..	..	..	..	36·4	18·9	3·2	7·6	13	..	0·6	..	6·7	0	2	28	3	2	1	0	0	11	8	5	1	0
Thikri	0830	..	..	..	..	26·1	16·2	7·4	10·4	31	..	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	23·7	17·6	12·9	15·2	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	35·3	23·4	16·3	19·0	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	10·1	(a) 7·6	(a) 5·4	(a) 7·6	(a) 72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·2	6·5	3·1	7·6	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received, (a) Mean of 30 days.

Sub-Division and Station	Hour of observation I. S. T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— *(Contd.)*																											
Gandak Catchment —*(Contd)*																											
Khudi Bazar	0830	..	..	..	..	20·2	14·4	10·9	12·9	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	16·3	10·9	13·0	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	11·1	6·3	0·8	6·5	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·5	10·3	2·4	7·3	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	19·9	14·0	9·3	11·7	51	..	1·0	..	2·8	0	0	20	9	1	0	1	1	0	2	6	11	0
	1130	..	..	..	..	25·4	15·6	7·9	10·6	33	..	1·3	..	6·8	0	0	30	0	0	3	20	5	1	1	0	1	0
	1730	..	..	..	..	24·2	15·2	7·8	10·7	36	..	4·9	..	7·8	0	2	28	2	6	1	15	2	0	0	4	1	0
Gorkha	0830	..	..	..	..	19·7	12·9	6·9	9·0	44	..	1·3	..	0·7	0	0	3	0	0	3	0	0	0	0	0	28	0
	1130	..	..	..	..	24·1	14·7	6·9	9·9	34	..	0·7	..	0·2	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	..	..	..	..	22·6	13·9	6·2	9·5	35	..	3·1	..	0·6	0	0	2	0	0	1	0	0	0	1	0	29	0
Nuwakot	0830	..	..	..	..	19·9	14·7	10·8	12·9	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·4	14·6	6·2	9·5	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (*Trans Himalaya Region*)																											
Dailekh	0830	..	..	..	..	17·1	11·7	6·7	9·8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	13·3	6·9	9·9	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	14·5	8·2	1·3	6·9	43	..	0·6	..	5·7	0	0	30	0	1	7	16	2	1	2	1	1	0
	1130	..	..	..	..	17·9	9·9	1·8	7·0	35	..	1·8	..	6·9	0	0	30	7	2	1	4	0	0	0	16	1	0
	1730	..	..	..	..	17·0	9·9	2·9	7·6	40	..	2·5	..	5·0	0	0	31	1	0	0	3	2	12	8	5	0	0
Sallayana	0830	..	..	..	..	20·0	12·7	8·5	11·1	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	13·4	8·1	10·8	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	24·1	17·1	11·8	13·8	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·0	19·1	11·1	13·2	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu†	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chantara	0830	..	..	..	..	16·3	10·7	5·9	9·3	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·5	12·5	4·9	8.7	34	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	12·2	8·8	6·6	9·7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·5	9·6	7·8	10·6	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walung Chung Gola	0830	..	..	..	..	6.6	3.2	—0.7	5.8	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4.8	3.5	1.1	6.6	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	17.1	12.6	8.8	11.3	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.4	12.5	7.3	10.2	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	17.1	12.6	9.3	11.7	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17.1	12.1	8.2	10·9	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	15.3	10.6	6.6	9.7	57	..	3.2	..	..	0	0	3	0	1	2	0	0	0	0	0	28	0
	1130	..	..	..	..	18.6	12.2	7.1	10.1	47	..	4.5	..	..	0	0	19	1	3	1	3	0	6	3	2	12	0
	1730	..	..	..	..	16.2	11·3	7.3	10.2	56	..	5.9	..	..	0	0	27	0	6	4	6	11	0	0	0	4	0
Okhaldhunga	0830	..	..	..	..	15.4	10.2	5.4	9.1	52	..	0·7	..	1·5	0	0	12	0	1	0	0	2	5	2	2	19	0
	1130	..	..	..	..	19·0	11·1	4·0	8.2	38	..	1·7	..	6·5	0	2	26	1	0	0	0	4	9	11	3	3	0
	1730	..	..	..	..	16.5	10.2	4.2	8·4	45	..	2·4	..	9·8	0	3	27	0	0	0	0	1	4	24	1	1	0
Chainpur	0830	..	..	..	..	18.7	13.5	9.3	11.7	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	14.5	10.2	12.4	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	18·5	(b) 13·1	(b) 8.5	(b) 11·1	(b) 52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·9	(b) 14·0	(b) 7·3	(b) 10.2	(b) 39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetrai	0830	146	995.9	1012.8	..	22·8	16.1	10.6	12.9	47	..	0.5	..	3.7	0	0	30	1	10	2	3	1	3	1	4	1	5
	1130	,,	994.6	1010.9	..	29.6	19.1	11.3	13.6	33	..	1.2	..	5.4	0	0	31	0	0	0	0	0	24	3	2	0	2
	1730	,,	990.8	1007.1	..	28.8	18.4	10.4	12.7	33	..	1.3	..	3.4 (o)	0	0	30	1	4	3	5	3	6	3	3	1	2
Tista Catchment																											
Gangtok	0830	1812	1511.8	820.6	..	13.4	10.0	7.1	10.1	66	..	3.5	..	0.9	0	0	11	2	5	1	0	1	2	0	0	20	0
	1130	,,	1501.3	820.1	..	17.9	12.4	8.0	10.9	53	..	3.8	..	..	0	0	26	1	3	0	2	3	11	4	2	5	0
	1730	,	1482.2	817.2	..	14.7	11.3	8.5	11.2	67	..	6.6	..	..	0	0	18	2	1	0	1	6	7	1	0	13	0
Gezing*	0830	..	..	..	..	15.5	12.1	9.6	11.9	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16.5	12.7	9.9	12.2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data included under 'Nepal' †Nearest standard isobaric level (b) Mean of 29 days. (o) Mean of 16 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their coordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°03′	88°16′	2115	1st June, 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944.	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijayawada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological Office.

Table IV—Monthly mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	AGARTALA																AHMADABAD							
Time in I.S.T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·2	1·9	170	29	2·2	1·8	197	31	2·5	1·7	202	31	2·6	2·0	174	31	2·5	1·5	322	31	3·8	1·4	007
0·15 a.g. .	30	6·3	5·0	183	29	4·6	3·8	203	31	5·0	3·3	204	31	7·5	6·8	196	31	6·6	4·7	329	31	4·1	1·3	026
0·3 a.m.s.l. .	30	6·5	5·0	207	29	4·0	3·5	208	31	5·5	4·2	207	31	8·6	7·5	205	31	7·0	4·9	332	31	4·2	1·2	029
0·6 ,, .	30	6·0	4·4	219	29	4·6	4·0	216	31	6·0	5·0	209	31	7·7	7·0	212	31	5·9	3·8	336	31	4·8	1·7	048
0·9 ,, .	30	4·6	4·4	236	29	5·3	4·4	227	31	6·2	5·4	213	31	6·5	5·8	226	31	4·7	2·5	316	31	4·5	0·3	034
1·5 ,, .	30	6·3	5·5	263	28	6·5	5·0	244	29	6·7	6·0	232	30	6·3	5·7	263	31	4·5	2·6	265	31	5·3	2·6	260
2·1 ,, .	30	7·7	7·6	271	19	8·1	7·4	259	28	8·5	7·8	249	29	8·2	7·7	273	31	6·9	5·5	251	31	6·1	4·8	260
3·0 ,, .	28	10·6	9·9	288	8	9·5	9·3	280	28	12·5	11·9	278	22	9·9	8·9	290	31	8·9	7·1	249	31	7·9	6·6	256
3·6 ,, .	16	13·1	12·6	290					24	14·3	13·0	290					31	9·5	8·0	263	29	8·6	7·5	258
4·5 ,, .	5	12·1	10·8	295					16	15·9	15·0	287					31	10·6	9·2	267	26	10·5	9·5	275
5·4 ,, .	2	9·0	6·1	254					10	16·8	16·1	282					31	14.0	12·8	274	26	13·2	12·3	272
6·0 ,, .									6	17·9	17·7	290					31	16·2	15 2	274	25	15·4	14·5	275
7·2 ,, .									1	15·0	15·0	285					31	20·5	19·6	277	21	20·3	19·1	278
9·0 ,, .																	28	28·2	26·4	276	11	24·6	23·5	270

Station	AHMADABAD								ALLAHABAD/BAMHRAULI															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·3	1·6	280	31	1·9	1·0	299	31	0·6	0·2	258	31	1·5	0·6	078	31	2·1	1·7	298	31	0·6	0·3	305
0·15 a.g. .	31	3·7	2·2	283	31	5·7	4·1	299	31	5·1	1·9	311	31	3·5	2·0	274	31	5·9	4·8	298	31	7·3	4·3	335
0 3 a.m.s.l. .	31	4·3	2·8	284	31	5·6	4·0	300	31	4·9	2·1	306	31	3·8	2·0	275	31	5·9	4·8	298	31	7·5	4.5	333
0·6 ,, .	31	4·0	2·6	273	31	5·3	4·2	302	31	5·2	3·1	298	31	3·9	2·5	277	31	5·8	4·4	295	31	7·5	5·1	326
0·9 ,, .	31	3·8	2·6	269	31	5·0	4·0	305	31	5·4	4·5	297	31	5·2	4·1	288	31	5·7	4·9	289	31	7·5	5·6	305
1·5 ,, .	31	4·4	2·6	271	31	4·5	3·0	292	31	7·5	6·8	287	31	7·9	6·8	285	31	6·7	6·2	283	31	8·5	7·3	290
2·1 ,, .	31	5·8	4·1	270	31	5·5	3·5	262	30	10·0	9·3	280	31	9·6	8·6	292	31	8·2	7·6	285	30	10·0	9·0	279
3·0 ,, .	31	8·4	7·2	259	31	7·7	6·1	253	28	12·4	11·7	277	31	10·9	10·2	290	31	10·9	10·4	277	14	10·7	9·7	286
3·6 ,, .	31	8·8	8·0	265	9	6·1	5·6	267	25	12·9	12·2	273	31	12·1	11·5	291	31	12·7	12·0	277				
4·5 ,, .	31	10·5	9·8	272	1	3·5	3·5	235	23	14·1	13·6	269	29	14·4	13·5	288	31	14·0	13·2	277				
5·4 ,, .	31	12·9	12·1	277	1	8·0	8·0	240	23	17·0	16·1	270	27	16·2	15·5	286	31	17·1	16·3	279				
6·0 ,, .	31	15·6	14·8	276					19	18·9	18·6	269	24	18·6	17·3	280	31	18·0	17·2	277				
7·2 ,, .	31	20·2	19·3	273					19	24·5	24·1	268	17	22·2	21·6	280	29	23·5	23·0	276				
9·0 ,, .	28	27·1	25·8	275					11	30·8	30·0	264	4	25·2	24·3	279	20	30·8	29·5	276				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	AMBALA																ANANTAPUR							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·2	1·4	327	31	2·9	1·2	308	31	3·1	2·2	318	31	2·7	1·6	327	31	1·4	0·8	192	31	3·5	3·4	086
0·15 a.g. .	31	8·6	5·6	342	31	4·9	2·0	318	31	6·2	3·9	312	31	9·7	7·0	335	30	4·8	3·2	189	31	6·6	6·4	084
0·3 a.m.s.l. .	31	4·2	2·5	340	31	3·2	1·2	311	31	3·6	2·3	303	31	4·1	2·5	332								
0·6 ,, .	31	8·7	6·0	337	31	6·3	2·5	321	31	6·6	4·3	310	31	9·0	6·6	336	30	5·3	3·6	192	31	6·5	6·1	083
0·9 ,, .	31	8·2	5·8	332	31	7·3	2·9	319	31	6·6	4·2	313	31	8·4	5·9	334	31	6·2	4·5	163	31	5·6	5·1	088
1·5 ,, .	31	8·0	4·7	315	31	6·9	2·8	312	31	6·4	4·6	306	31	6·8	4·1	325	31	6·9	3·1	126	31	5·3	4·7	087
2·1 ,, .	31	7·9	4·4	295	31	6·9	2·9	299	31	6·1	4·0	303	30	6·3	4·4	297	31	6·1	4·7	088	31	5·5	4·9	088
3·0 ,, .	30	7·5	5·8	291	30	6·8	4·2	294	29	6·8	3·5	293	24	5·8	3·7	266	30	6·4	5·4	051	31	4·9	4·1	080
3·6 ,, .	26	8·0	6·5	287	29	7·1	5·6	292	29	7·5	4·7	286	11	5·6	3·7	254	28	6·3	4·1	054	26	5·0	4·0	070
4·5 ,, .	19	9·7	7·4	270	26	9·7	8·1	287	27	9·9	7·6	275	3	8·7	7·6	262	26	4·8	2·5	048	19	4·1	2·1	005
5·4 ,, .	8	10·7	10·1	277	22	11·8	9·9	284	21	11·2	9·5	285	2	10·7	10.5	281	24	4·1	0·9	293	18	4·2	2·7	337
6·0 ,, .	7	12·9	12·0	277	20	13·1	11·4	278	21	13·1	11·5	281	1	7.5	7·5	300	23	4·6	2·5	308	18	4·7	3·4	320
7·2 ,, .					14	17·5	15·4	276	7	17·0	14·4	291					19	7·6	5·6	283	11	6·9	4·4	297
9·0 ,, .					4	18·9	18·3	280	2	26.0	25.9	272					10	13·2	11·5	272	4	11·0	9·8	293

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·7	4·3	101	31	0·6	0·2	218	31	1·9	1·2	266	31	1·4	1·0	302	31	1·3	0·4	223	31	2·0	1·6	295
0·15 a.g. .	31	9·0	8·7	104	31	3·9	1·4	286	31	4·0	2·1	264	31	4·1	3·0	305	31	6·9	3·3	348	31	4·9	2·5	338
0·3 a.m.s.l. .					31	4·0	1·1	295	31	4·0	2·2	267	31	4·3	3·1	303	31	6·9	3·6	347				
0·6 ,, .	31	9·3	9·0	108	31	5·2	2·2	312	31	3·7	2·3	271	31	5·0	4·0	297	31	7·4	3·6	329				
0·9 ,, .	31	9·0	8·7	110	31	5·8	3·7	305	30	5·0	3·8	281	31	4·7	3·7	288	31	6·2	4·0	301	31	7·0	3·7	358
1·5 ,, .	31	5·2	4·7	105	31	7·2	6·1	290	28	7·4	6·2	285	31	5·8	5·5	283	31	6·3	5·3	279	31	7·2	1·8	323
2·1 ,, .	31	4·2	2·9	086	31	9·3	8·8	282	16	8·4	6·8	279	30	7·2	6·7	276	28	7·7	7·5	274	31	5·0	1·2	231
3.0 ,, .	31	4·5	2·0	047	27	13·7	13·2	281	5	9·0	8·7	273	30	11·3.	10·6	286	18	10·8	10·0	282	30	4·7	2·5	198
3.6 ,, .	25	4·7	2·0	022	19	15·4	14·7	281					27	13·8	13·2	291	10	12·8	12·2	293	13	6·1	2·8	228
4·5 ,, .	8	4·5	2·9	039	6	15·8	15·2	294					25	15·9	15·3	293	4	12·4	12·0	288				
5·4 ,, .	4	4·4	1·5	023	4	19·4	18·8	307					24	17·6	16·7	291								
6·0 ,, .	1	4·0	4·0	245	2	10·7	10·3	297					21	19·1	18·9	289								
7·2 ,, .					2	13·3	13·1	271					15	26·5	25·7	283								
9.0 ,, .					2	37·3	37·1	280					4	31·9	31·0	282								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra, 11, 1886 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH												BANGALORE			
Time in I.S.T.	1730				2330				0530				1130				1730				0530@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·7	270	31	2·3	1·8	328	31	0·9	0·4	298	31	1·2	0·6	266	31	1·4	1·3	266	31	1·6	1·1	121
0·15 a. g.	31	3·5	2·3	266	31	6·2	3·9	357	31	6·4	3·2	323	31	3·9	0·1	222	31	5·5	4·5	280	31	6·2	4·3	148
0·3 a.m.s.l.									31	6·8	3·2	319	31	4·0	0·8	261	31	5·5	4·6	278				
0·6 ,,									31	7·3	4·6	312	31	5·0	2·2	284	31	6·3	5.3	280				
0·9 ,,	31	3·8	2·2	270	31	7·3	4·8	355	31	7·7	5·2	309	31	6·3	3·5	281	30	6.4	5·7	279				
1·5 ,,	31	3·6	2·0	280	31	6·2	3·3	349	31	7·7	6·0	296	31	6·9	4·7	295	30	7·0	6·2	284	31	6·2	4·7	110
2·1 ,,	31	3·5	1·9	266	31	4·3	1·1	345	31	8·8	8·0	296	31	7·3	5·9	301	29	8·2	7·5	293	31	7·4	6·0	078
3·0 ,,	29	4·2	2·0	270	28	4·4	1·9	196	30	11·0	10·3	293	30	9·0	8·3	300	29	10·0	9·4	298	31	7·7	6·7	059
3·6 ,,	27	4·9	2·9	295	21	5·2	2·9	230	26	11·4	10·7	291	30	10·3	9·6	294	28	10·8	10·2	296	31	7·0	5·9	053
4·5 ,,	24	6·7	5·3	295					16	11·4	10·6	290	28	13·7	12·0	296	28	13·2	12·6	295	31	5·7	4·2	065
5·4 ,,	24	9·2	7·8	295					8	12·4	11·7	287	27	16·4	15·4	292	26	15·8	15·1	292	30	5·0	2·7	051
6·0 ,,	21	12·2	11·5	296					3	8·8	8·5	265	25	17·7	16·4	289	21	17·0	16·1	290	30	4·8	2·0	028
7·2 ,,	3	16·2	15·0	295					1	12·5	12·5	255	20	19·5	18·5	285	12	18·1	17·9	285	29	5·3	2·5	325
9·0 ,,													9	25·2	24·4	279	1	13·0	13·0	255	24	10·8	7·7	261

Station	BANGALORE												BAREILLY								BEGAMPET			
Time in I.S.T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·2	119	31	2·3	1·9	092	31	2·5	2·2	114	31	1·3	0·6	338	31	1·8	1·3	294	31	1·1	0·2	118
0·15 a.g.	31	4·1	3·5	118	31	5·6	5·3	096	31	9·5	9·2	117	31	6·8	4·3	326	31	5·8	4·5	278	31	5·7	2·6	157
0·3 a.m.s.l.													31	6·1	3·9	319	31	5.6	4·2	288				
0·6 ,,													31	8·5	5·5	309	31	6·9	5·5	290	31	3·6	1·3	140
0·9 ,,													31	8·1	5·6	309	31	7·5	6·2	286	30	6·8	4·7	165
1·5 ,,	31	4·7	4·1	107	31	5·6	5·0	093	31	8·6	7·7	112	31	8·6	7·1	317	30	8·1	6·3	287	30	5·7	3·8	154
2·1 ,,	31	6·4	5·7	084	31	5·5	0·5	080	30	6·0	4·4	083	30	8·9	8·4	306	29	7·7	6·4	291	31	4·8	2·2	127
3·0 ,,	31	7·1	6·6	064	31	4·9	4·3	077	30	5·6	3·9	045	28	9·3	8·7	292	26	8·5	7·3	290	31	4·6	1·5	011
3·6 ,,	31	6·9	6·0	068	31	4·9	4·0	060	29	5·4	3·5	047	24	10·4	9·6	284	25	9·8	8·6	287	31	4·8	2·4	360
4·5 ,,	30	5·3	4·1	067	30	5·2	3·4	050	20	5·7	4·8	040	16	11·2	10·6	265	24	11·5	10·2	288	25	5·7	2·8	321
5·4 ,,	29	4·8	2·5	052	28	4·8	3·3	037	7	6·0	5·6	044	5	11·8	10·9	260	18	13·6	12·5	292	20	6·5	4·9	297
6·0 ,,	27	5·3	3·1	032	26	5·2	3·3	038	1	7·0	7·0	035	2	10·7	10·7	243	13	13·9	12·5	285	17	7·3	5·5	292
7·2 ,,	24	6·3	2·8	336	25	5·8	2·6	007	1	4·0	4·0	120					3	12·5	12·3	262	8	11·2	9·5	286
9·0 ,,	16	7·8	3·5	253	15	8·7	3·2	260													3	13·5	12·6	284

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	BEGAMPET								BHAGALPUR												BHOPAL/BAIRAGARH			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	1·5	125	31	2·0	1·3	110	31	1·6	0·4	219	31	1·9	1·0	292	31	2·2	1·7	288	31	2·2	0·4	070
0·15 a.g.	30	3·8	2·9	120	31	7·0	5·8	125	31	5·3	1·6	212	31	4·3	2·1	284	31	6·1	5·2	292	31	7·9	2·4	080
0·3 a.m.s.l.									31	6·2	2·2	242	31	4·2	1·8	282	31	6·7	5·5	288				
0·6 ,,	30	3·4	2·6	121	31	4·8	3.8	120	31	6·2	2·9	279	31	4·6	2·5	294	31	7·3	6·6	286	31	7·0	2·0	088
0·9 ,,	30	3·8	2·7	120	31	7·7	6·7	130	31	6·3	4·5	288	31	5·3	3·6	268	31	7·3	6·8	283	31	7·5	1·5	044
1·5 ,,	30	3·4	2·3	114	31	5·8	4·5	136	31	8·4	7·3	287	30	8·1	7·3	277	31	8·9	8·5	276	31	5·3	2·5	289
2·1 ,,	30	3·3	1·9	110	31	4·5	1·7	147	31	12·5	11·3	285	27	9·6	8·9	281	31	11·3	10·8	275	31	6·9	6·1	266
3·0 ,,	30	3·6	0·9	080	31	4·7	1·6	335	27	15·1	14·2	287	15	11·6	11·0	294	30	13·9	13·0	280	31	9·6	8·5	262
3·6 ,,	30	4·3	1·5	333	26	5·4	3·1	325	15	15·3	14·7	291					26	15·0	14·4	288	31	9·9	8·9	270
4·5 ,,	25	5·0	2·8	300	5	7·7	6·7	337	7	13·0	12·2	290					19	16·4	15·7	293	26	10·9	10·1	279
5·4 ,,	22	6·9	5·5	298	1	10·0	10·0	345	5	11·5	10·8	286					11	14·3	13·6	292	22	13·1	12·7	286
6·0 ,,	22	8·1	6·9	298	1	20·0	20·0	340	3	10·7	10·4	277					7	13·8	13·1	290	19	15·6	15·0	287
7·2 ,,	15	10·8	10·1	298					3	14·2	12·7	285					5	16·3	15·1	299	16	20·8	20·1	283
9·0 ,,	6	13·3	13·1	270																	9	25·8	24 6	284

Station	BHOPAL/BAIRAGARH								BHUBANESHWAR															
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	1·7	278	31	2·2	0·7	357	31	3·2	2·6	205	31	3·7	2·5	220	31	5·7	5·0	183	31	4·8	4·0	205
0·15 a.g.	31	4·5	3·3	275	31	7·9	3·2	345	26	7·1	6·4	219	31	4·9	3·5	210	31	8·1	7·5	190	31	8·5	7·8	210
0·3 a.m.s.l.									26	7·8	7·1	228	31	4·0	2·4	215	31	7·6	6·9	196	31	9·6	9·2	215
0·6 ,,	31	4·1	2·9	273	31	7·0	2·8	342	25	6·9	6·3	233	31	4·8	3·5	228	31	5·8	4·7	206	31	9·5	9·3	217
0·9 ,,	31	5·3	3·7	281	31	7·6	3·4	337	24	6·6	5·5	240	31	4·7	3·8	248	31	4·8	3·1	230	29	7·0	6·4	227
1·5 ,,	31	5·9	4·6	280	31	5·5	3·1	285	21	5·8	2·6	270	27	4·5	3·1	292	31	4·6	3·1	287	29	4·8	3·8	283
2·1 ,,	31	6·0	4·8	274	31	5·2	4·3	258	18	5·8	3·3	309	22	5·4	4·1	304	30	6·0	4·8	304	29	5·9	5·2	300
3·0 ,,	30	6·2	5·9	273	30	7·0	6·4	254	15	7·8	6·2	326	5	9·7	9·0	305	28	8·4	7·2	306	23	8·2	7·2	304
3·6 ,,	30	7·7	6·9	273	6	8·1	6·0	276	9	7·0	6·2	317					25	9·1	8·1	303	1	2·0	2·0	320
4·5 ,,	28	10·7	9·9	279					5	7·1	6·4	300					17	9·6	9·0	299				
5·4 ,,	24	13·6	13·5	282					3	7·0	7·0	280					15	12·3	11·8	290				
6·0 ,,	23	17·4	16·7	280					3	9·5	9·0	252					10	12·7	12·5	283				
7·2 ,,	17	22·7	22·1	281					2	14·3	14·0	290					2	14·7	12·3	277				
9·0 ,,	9	25·2	24·6	276																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	BHUJ/RUDRAMATA												BIKANER											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	1·6	279	31	3·6	2·9	279	31	4·0	3·6	269	31	1·0	0·3	132	31	1·3	0·5	278	31	1·3	0·9	011
0·15 a.g. .	31	5·9	5·0	299	30	5·3	3·7	279	30	7·3	6·2	270	31	7·1	2·2	095	31	4·1	2·7	298	31	7·4	4·7	022
0·3 a.m.s.l. .	31	6·5	5·4	307	30	5·3	3·9	274	30	7·6	6·4	279	31	6·1	1·9	098	31	3·5	2·3	300	31	5·9	2·4	031
0·6 ,, .	30	7·5	5·3	314	30	5·0	3·8	278	31	7·0	5·5	286	31	7·0	1·5	032	31	4·2	2·7	294	30	6·6	3·5	009
0·9 ,, .	30	6·7	3·6	307	31	4·8	3·5	276	31	5·7	3·2	299	31	6·2	2·3	299	31	4·5	3·0	294	30	5·6	2·0	338
1·5 ,, .	29	6·2	3·6	270	31	5·0	3·8	271	31	5·7	2·7	273	31	7·1	4·7	284	30	5·0	3·0	293	27	4·5	2·9	262
2·1 ,, .	28	6·9	4·7	246	31	6·3	4·3	264	30	6·5	3·2	255	30	8·2	5·7	280	29	5·8	3·7	290	27	6·6	5·5	257
3·0 ,, .	28	7·9	5·8	252	31	8·5	6·6	256	30	7·3	5·6	249	29	8·8	6·6	283	28	6·9	4·7	282	26	7·4	5·3	260
3·6 ,, .	11	5·1	4·1	259	31	8·8	7·4	256	15	7·0	5·1	267	29	9·8	7·8	277	28	8·3	6·2	274	7	7·8	6·7	282
4·5 ,, .	5	7·2	7·0	278	30	10·4	9·0	265	4	8·0	6·0	271	27	11·8	10·5	270	27	10·9	9·9	272				
5·4 ,, .	4	9·4	8·8	282	30	13·6	12·2	274	4	9·3	4·7	271	27	14·8	13·5	271	25	14·0	13·1	278				
6·0 ,, .	1	11·0	11·0	260	30	15·7	14·7	276	3	12·6	12·3	275	25	15·8	14·5	278	21	19·9	14·5	278				
7·2 ,, .					13	18·2	17·4	278					14	16·4	15·8	274	8	16·2	15·3	271				
9·0 ,, .					6	25·0	24·4	280																

Station	BOMBAY/SANTACRUZ																CALCUTTA/DUM DUM							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	—CALM—			31	1·6	1·1	306	31	4·2	3·8	315	31	1·8	1·4	322	31	0·6	0·4	216	31	1·4	0·7	220
0·15 a.g. . .	31	5·6	4·1	349	31	2·8	1·5	330	31	7·2	6·6	308	31	5·3	4·2	329	31	5·1	3·6	230	31	3·5	1·9	224
0·3 a.m.s.l. .	31	5·0	3·9	345	31	3·0	1·6	013	31	6·2	5·5	302	31	5·9	5·2	330	31	5·0	3·4	241	31	3·6	1·9	238
0·6 ,, .	31	5·1	3·9	344	31	4·4	2·3	038	31	5·6	4·6	303	31	6·2	5·7	334	31	4·8	3·0	258	31	4·0	2·3	248
0·9 ,, .	31	5·4	3·9	349	31	5·4	2·4	019	31	4·2	3·1	311	31	6·3	5·6	336	31	4·8	3·0	269	31	4·8	3·6	260
1·5 ,, .	31	5·6	2·7	330	31	5·3	1·5	311	31	4·1	1·7	293	31	5·6	3·8	323	31	5·5	4·3	270	31	6·9	5·9	267
2·1 ,, .	31	5·5	1·6	236	31	5·4	2·0	210	31	4·8	1·2	196	31	5·3	1·6	238	31	6·6	5·9	283	31	9·0	7·9	275
3·0 ,, .	31	6·2	2·8	188	31	6·1	3·3	191	31	5·9	2·4	149	31	6·2	3·2	165	31	10·8	10·2	293	27	12·3	11·3	294
3·6 ,, .	31	5·9	2·6	208	31	5·5	2·3	242	31	6·2	1·3	212	21	6·4	2·9	165	31	11·0	10·5	294	24	13·4	12·6	294
4·5 ,, .	31	6·9	4·6	268	30	6·5	5·1	283	31	6·2	3·7	286	11	5·2	1·5	277	31	11·7	11·1	291	17	13·7	12·9	296
5·4 ,, .	31	8·4	7·4	274	30	8·4	7·2	286	31	4·5	6·1	278	9	7·5	6·8	276	31	14·1	13·6	285	8	13·8	13·5	294
6·0 ,, .	31	9·8	8·7	274	30	10·1	8·5	287	31	8·9	6·9	293	7	8·6	7·6	279	31	16·5	15·9	287	5	18·7	18·6	293
7·2 ,, .	31	13·4	11·5	272	26	13·5	11·3	278	31	12·5	11·5	265	2	14·0	12·3	304	31	20·2	19·5	278	1	26·0	26·0	300
9·0 ,, .	31	19·0	17·7	267	22	18·7	15·4	274	30	16·8	15·7	263					30	28·5	27·3	271	1	30·0	30·0	290

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	CALCUTTA/DUM DUM								COCHIN/WILLINGDON†												DEHRADUN			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	1·0	229	31	1·7	1·5	192	31	0·5	0·5	037	31	4·9	4·5	264	31	0·6	0·3	346	30	0·4	0·3	035
0·15 a. g. .	31	4·8	3·1	233	31	6·9	5·8	213	31	3·7	2·6	011	28	6·2	5·6	267	29	2·6	1·3	315	30	2·1	1·6	063
0·3 a.m.s.l. .	31	4·7	2·9	235	31	7·4	5·9	221	31	3·3	2·6	350	28	6·6	5·8	265	29	2·7	1·6	303				
0·6 ,, .	31	4·1	2·7	245	31	5·9	4·3	241	31	2·8	1·6	351	28	4·4	3·2	260	29	2·5	1·0	287				
0·9 ,, .	31	3·6	2·7	257	31	5·4	4·0	259	31	2·6	1·4	045	28	3·2	0·6	355	29	2·8	0·4	100	30	2·1	1·6	062
1·5 ,, .	31	5·6	4·7	268	30	6·0	5·4	286	31	4·6	4·0	075	26	7·2	6·7	076	28	5·0	3·7	085	30	2·3	0·9	331
2·1 ,, .	31	7·8	7·3	282	27	8·4	7·9	296	31	7·1	6·7	068	25	9·9	9·8	071	23	6·3	5·4	068	29	3·5	2·0	309
3·0 ,, .	31	11·9	11·1	291	24	11·7	11·2	2 7	23	9·0	7·9	081	23	10·9	10·4	074	14	8·6	8·3	078	28	5·3	4·5	288
3·6 ,, .	31	12·7	11·6	289	3	9·0	3·7	277	5	4·9	4·3	081	11	8·6	8·2	085	3	7·0	5·6	095	28	6·4	5·0	291
4·5 ,, .	31	13·5	13·4	293									2	14·3	13·3	070					18	7·8	7·0	290
5·4 ,, .	31	15·7	15·0	285																	9	11·2	9·9	297
6·0 ,, .	31	19·1	18·1	285																	7	11·1	9·6	295
7·2 ,, .	31	23·3	22 6	274																				
9·0 ,, .	31	30·0	29 0	271																				

Station	DEHRADUN				DIBRUGARH/MOHANBARI																GADAG			
Time in I. S. T.	1730				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·2	1·0	264	31	2·1	2·1	045	31	1·3	1·1	063	31	1·6	1·6	045	31	1·7	1·5	035	31	3·4	1·7	196
0·15 a. g. .	31	3·9	3·1	270	29	6·6	6·0	053	30	3·5	3·2	060	31	4·1	3·9	050	24	5·3	4·8	031	31	5·8	2·0	196
0·3 a.m.s.l. .					29	6·8	6·4	052	30	3 6	3·4	058	31	4·2	4·0	050	24	5·3	4·8	032				
0·6 ,, .					29	6·0	5·3	050	30	4·2	4·0	059	31	5·2	4·9	060	24	5·2	4·8	044				
0·9 ,, .	31	4·0	3·3	270	29	5·3	4·2	063	30	3·2	2·5	073	31	4·2	3·6	074	24	4·4	3·8	062	31	6·3	1·3	032
1·5 ,, .	31	3·8	1·3	244	29	3·9	0·4	154	30	3·2	1·5	216	30	3·4	1·3	225	24	3·2	1·4	156	31	7·5	2·6	032
2·1 ,, .	31	3·0	2·1	270	26	4·9	3·6	240	30	6·2	5·2	230	29	7·1	5·9	236	24	4·9	3·3	224	31	6·7	3·9	033
3·0 ,, .	28	4·3	2·3	313	23	6·9	6·0	252	26	7·4	6·8	244	28	9·1	8·0	236	21	7·5	5·0	241	31	5·5	4·0	075
3·6 ,, .	28	5·9	3·7	315	11	4·6	3·7	262	13	5·6	4·2	269	15	6·8	5·5	232	7	10·0	9·4	247	31	5·0	3·2	063
4·5 ,, .	28	8·0	6·2	293	9	6·0	5·2	259	8	8·3	6·0	257	5	4·8	2·2	316	1	4·0	4·0	230	31	4·4	1·8	023
5·4 ,, .	23	11·7	9·9	281	6	7·7	7·3	275	8	9·9	7·9	283	4	6·6	3·4	310					31	4·9	2·1	333
6·0 ,, .	21	13·9	12·6	283	3	12·8	12·8	287	8	11·6	9·7	294	2	6·5	6·5	300					31	5·6	2·6	325
7·2 ,, .	12	18·6	17·6	284	1	12·0	12·0	315	5	11·1	10·0	265	1	13·5	13·5	310					26	7·8	5·1	303
9·0 ,, .	2	9·7	9·0	292					3	20·5	20·1	272									14	10·2	8·7	275

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	GADAG								GANGTOK								GAUHATI							
Time in I. S. T.	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·4	1·4	094	31	4·5	1·3	245	31	1·0	0·9	039	31	1·1	0·8	195	31	0·4	0·3	064	31	1·5	0·5	027
0·15 a.g. .	31	4·0	2·5	092	31	8·4	1·5	216	29	2·0	1·1	017	22	3·7	3·4	187	31	3·1	2·5	082	31	3·0	2·7	039
0·3 a.m.s.l. .																	31	3·5	2·5	082	31	2·9	2·5	050
0·6 ,, .																	31	3·8	1·3	083	31	3·3	1·7	041
0·9 ,, .	31	4·1	2·8	090	31	8·9	0·7	215									31	4·6	2·0	261	31	4·1	1·8	257
1·5 ,, .	31	4·3	3·1	084	31	6·6	3·5	104									31	7·1	6·5	261	31	6·9	6·4	248
2·1 ,, .	31	4·5	3·1	092	31	6·3	5·4	099	29	1·3	0·1	104	22	3·8	3·5	183	31	9·2	8·7	267	30	8·9	8·5	250
3·0 ,, .	31	4·2	2·5	081	31	5·7	5·0	093	28	2·0	0·8	182	18	3·9	3·0	184	30	11·8	11·6	271	30	11·6	11·4	259
3·6 ,, .	31	3·8	2·0	060	31	5·3	4·2	077	22	4·1	2·9	292	12	3·7	3·1	241	29	14·4	13·8	276	28	14·1	13·5	267
4·5 ,, .	30	4·4	1·7	027	26	5·2	2·5	029	20	9·2	7·0	293	9	6·1	5·8	260	28	20·6	19·1	280	28	16·1	15·2	269
5·4 ,, .	26	5·0	1·5	334	11	4·0	0·5	318	13	8·4	6·8	282	5	8·0	5·6	265	27	21·2	20·0	280	26	16·6	15·6	269
6·0 ,, .	24	5·6	3·1	334	6	6·1	1·8	264	12	11·1	8·7	296	3	10·2	8·1	280	27	22·4	21·0	282	25	17·6	17·4	273
7·2 ,, .	20	7·5	5·7	315	1	7·0	7·0	270	3	15·2	7·2	311	1	12·0	12·0	335	20	23·0	22·0	285	19	20·8	19·2	278
9·0 ,, .	14	10·7	8·4	277									1	12·0	12·0	320	13	30·6	29·6	286	5	27·0	26·6	281

Station	GAUHATI								GAYA															
Time in I. S. T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0.7	044	31	1·1	0·4	053	31	1·6	0·8	199	29	3·1	1·8	292	31	3·2	3·0	317	31	1·6	0·8	239
0·15 a. g. .	31	3·9	1·6	042	31	4·7	2·5	103	31	5·6	3·6	243	29	3·9	2·1	279	31	5·9	5·5	310	31	6·6	3·7	310
0·3 a.m.s.l. .	31	3·8	1·4	042	31	4·5	2·3	112	31	5·6	3·1	245	29	3·8	2·1	281	31	6·2	5·7	307	31	7·0	4·0	312
0·6 ,, .	30	3·3	1·0	352	31	4·6	1·9	122	31	5·1	3·0	293	29	4·2	3·0	270	31	6·8	6·3	305	31	7·7	5·7	312
0·9 ,, .	30	3·5	1·7	274	31	4·5	1·5	213	31	5·6	4·6	297	29	4·6	3·9	273	31	6·5	6·4	298	31	8·0	7·0	304
1·5 ,, .	30	6·6	4·8	219	30	6·2	5·3	246	31	8·0	7·4	300	28	7·3	6·6	298	30	7·6	7·4	285	31	9·0	8·6	291
2·1 ,, .	30	10·0	9·4	250	29	8·4	7·8	260	30	10·8	10·0	292	26	9·3	8·4	291	28	9·1	8·8	277	24	9·1	8·5	285
3·0 ,, .	30	12·3	11·5	259	19	9·8	9·0	264	24	12·9	12·5	286	12	9·9	9·3	284	24	12·8	12·1	283	14	11·9	10·9	273
3·6 ,, .	30	13·8	13.3	268	8	10·5	6·8	277	9	16·4	15·6	290					14	11·2	10·5	289	1	11·0	11·0	255
4·5 ,, .	30	17·5	16·5	276	1	17·0	17·0	275	6	10·5	9·2	279					9	11·8	10·6	293				
5·4 ,, .	29	19·9	18·8	280					2	6·5	5·1	278					3	12·0	11·5	291				
6.0 ,, .	28	21·0	20·1	282					1	10·5	10·5	345					2	10·5	10·1	293				
7·2 ,, .	25	25·0	22·6	284													2	15·3	14·5	294				
9.0 ,, .	19	34·5	32·1	279																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11,1885 Saka—Chaitra 11, 1886 Saka)

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	2·2	211	31	5·8	5·4	193	31	5·3	5·1	204	31	1·3	0·4	295	31	1·5	1·4	269	31	0·9	0·5	282
0·15 a. g.	27	7·5	7·3	212	31	10·3	9·9	195	31	10·8	10·5	210	31	6·3	3·1	306	31	4·5	3·8	271	31	5·2	0·5	005
0·3 a.m.s.l.	27	7·5	7·2	219	31	10·1	9·5	199	31	10·8	10·3	210	31	7·6	3·5	307	31	5·0	4·2	270	31	4·3	0·7	265
0·6 ,,	27	5·7	5·3	228	31	6·9	5·5	193	31	7·8	7·4	208	31	7·2	4·5	302	31	6·6	5·7	271	31	6·6	1·5	346
0·9 ,,	27	5·4	4·7	238	31	3·9	2·3	181	31	4·7	4·0	200	31	7·3	5·2	296	31	7·1	6·2	272	31	6·7	2·9	325
1·5 ,,	27	4·3	2·1	255	31	3·2	0·7	333	31	3·5	0·5	261	30	8·2	7·8	293	30	7·5	7·2	275	31	7·2	5·4	303
2·1 ,,	27	4·3	1·8	305	31	5·0	3·4	317	29	3·9	2·8	325	27	9·8	8·9	293	29	9·1	8·9	280	31	7·9	7·2	294
3·0 ,,	24	5·1	3·5	333	30	7·0	6·1	321	29	6·7	5·2	317	20	11·2	10·8	291	27	11·0	10·7	292	29	9·8	8·7	288
3·6 ,,	22	5·8	4·6	323	29	7·7	6·9	320	5	7·5	5·7	312	10	11·8	10·8	285	24	12·2	12·0	295	29	11·3	10·2	283
4·5 ,,	15	7·1	5·9	306	27	9·2	7·9	298					8	11·4	10·1	283	20	12·8	12·3	293	28	13·0	11·9	280
5·4 ,,	8	8·1	7·2	283	26	11·7	10·9	286					5	8·1	6·9	292	14	13·3	12·7	285	25	15·0	14·2	282
6·0 ,,	8	10·7	9·1	272	26	13·2	12·0	282					3	11·5	10·7	285	12	15·4	14·3	289	23	18·2	17·3	281
7·2 ,,	3	13·7	13·2	268	20	16·4	15·7	279									8	18·2	15·0	291	16	21·9	21·1	282
9·0 ,,	1	19·0	19·0	250	19	22·2	21·6	267									2	22·0	21·3	291	8	26·1	25·1	281

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I. S. T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·4	288	31	2·2	1·7	315	31	0·8	0·3	222	31	0·5	0·2	081	31	1·5	1·1	254	31	4·3	3·4	291
0·15 a. g.	31	3·3	0·9	298	31	4·8	3·7	330	31	5·1	2·7	027	29	2·6	1·2	066	30	2·8	1·9	237	31	6·4	5·6	284
0·3 a. m. s. l.	31	3·0	0·9	298	31	4·3	3·2	324	31	4·1	2·2	031												
0·6 ,,	31	3·9	1·5	285	31	4·8	3·6	315	31	5·8	2·8	008												
0·9 ,,	31	5·0	2·5	287	31	5·3	4·1	309	31	5·4	2.2	322	29	2·5	1·3	074	30	2·9	1·8	234	31	6·2	5·4	285
1·5 ,,	30	6·7	5·0	289	31	5·6	4·5	293	31	5·8	4·8	283	29	3·8	3·1	274	30	4·5	4·1	260	31	6·6	6·0	270
2·1 ,,	30	7·8	6·1	289	30	6·3	5·5	281	31	7·0	6·6	267	29	7·6	7·0	270	30	7·6	7·0	268	30	7·3	6·8	262
3·0 ,,	29	8·4	7·9	282	30	8·8	8·0	275	30	9·4	8·5	268	29	10·0	9·5	276	28	11·6	10·8	274	28	9·8	8·9	262
3·6 ,,	28	10·6	9·6	282	30	11·1	9·9	274	6	9·3	8·9	247	16	11·9	11·3	279	19	13·0	12·1	275	22	11·5	10·7	267
4·5 ,,	27	12·6	11·8	284	28	14·5	13·5	280					2	10·7	8·7	296	5	13·1	12·5	279	11	12·5	12·4	266
5·4 ,,	25	16.0	15·2	281	25	16·5	15·6	283					1	7·0	7·0	005	3	13·3	13·3	265	3	8.3	8.3	286
6·0 ,,	23	18·4	17·4	278	23	17·8	17·4	281					1	4.5	4.5	005	1	14·0	14·0	260	2	9.0	8.9	296
7·2 ,,	20	20·0	19·5	278	18	21·4	20·6	282					1	9.0	9.0	305					2	14.0	14.0	297
9.0 ,,	14	26·7	25·6	278	11	25·6	24·8	281					1	10.0	10.0	300					1	27.0	27.0	295

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·8	0·4	285	31	0·3	0·3	140	31	1·4	1·0	301	31	0·5	0·2	068	31	0·2	0·1	173	31	1·5	0·4	240
0·15 a.g. .	30	2·7	1·1	273	31	4·4	1·7	138	31	3·9	2·9	300	31	6·9	3·3	018	31	4·4	3·9	208	31	4·1	1·0	221
0·3 a.m.s.l.																								
0·6 ,, .					31	5·3	1·6	122	31	4·1	3·1	301	31	7·3	3·6	014	31	2·1	1·9	208	31	3·1	0·7	216
0·9 ,, .	30	2·8	0·9	304	31	6·0	0·8	090	31	5·2	3·9	297	31	7·3	4·0	360	31	5·6	4·5	219	31	4·3	2·0	215
1·5 ,, .	30	5·4	4·2	266	31	5·7	2·2	307	31	5·2	4·3	290	31	5·6	3·1	320	31	4·1	1·3	252	30	4·2	2·4	294
2·1 ,, .	29	9·1	8·4	246	31	7·4	6·1	287	31	5·8	5·0	284	31	6·1	5·1	277	31	4·3	2·1	332	28	4·3	2·5	320
3·0 ,, .	23	12·5	10·5	259	31	10·1	8·8	278	31	7·4	6·2	273	30	9·1	8·0	269	31	5·7	3·7	331	26	4·6	2·5	345
3·6 ,, .	9	12·2	10·2	275	29	11·0	9·7	275	31	9·1	7·5	274	25	9·4	8·3	267	31	6·9	4·7	328	23	5·0	3·0	339
4·5 ,, .	1	13·0	13·0	270	23	10·9	9·8	285	30	11·2	10·1	279	4	7·6	6·3	260	25	7·0	5·7	308	19	7·1	5·7	317
5·4 ,, .					12	10·7	10·4	296	29	14·8	14·1	283					18	8·4	7·7	301	16	9·7	9·0	296
6·0 ,, .					8	11·5	10·5	295	25	17·6	16·8	283					18	9·4	8·8	296	14	11·4	10·9	291
7·2 ,, .					2	18·0	18·0	275	15	24·8	23·1	284					7	12·1	11·7	285	9	13·9	13·4	289
9·0 ,, .									6	26·7	26·4	282					2	15·3	15·1	274	3	20·3	20·3	273

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·7	0·6	188	31	0·5	0·4	045	31	1·8	1·5	292	31	0·6	0·4	351	31	0·4	0·1	295	31	1·4	0·9	301
0·15 a.g. .	31	6·3	2·9	197	31	5·1	2·8	070	31	4·7	3·7	281	31	6·3	3·3	348	31	3·3	2·2	284	31	3·0	1·8	286
0·3 a.m.s.l. .																	31	3·3	1·5	285	31	3·0	1·7	277
0·6 ,, .	31	4·2	2·0	193	31	5·5	1·5	055	31	5·0	4·1	281	31	6·6	3·6	343	31	4·2	1·2	319	31	3·6	2·3	287
0·9 ,, .	31	6·2	2·3	219	31	5·4	1·7	320	31	5·1	4·5	289	31	6·8	3·0	330	31	5·0	2·5	314	31	4·6	3·0	283
1·5 ,, .	31	4·6	2·2	296	31	8·6	4·7	292	31	5·1	4·3	290	30	5·5	3·9	311	31	5·2	3·9	292	31	6·5	5·2	283
2·1 ,, .	31	4·0	2·7	319	30	7·3	6·0	281	29	5·2	4·3	296	30	5·8	4·5	276	31	8·6	7·5	278	26	8·6	7·4	287
3·0 ,, .	30	4·5	3·2	323	27	8·7	7·2	275	28	7·2	6·4	282	29	7·6	6·7	266	27	12·9	11·5	288	9	11·3	10·3	306
3 6 ,, .	6	5·7	3·9	329	19	7·9	6·9	271	27	9·6	8·7	282	26	8·9	7·8	270	20	14·9	14·1	298				
4·5 ,, .	1	3·5	3·5	300	9	9·9	8·4	268	26	11·8	11·0	261	11	11·9	10·7	275	3	13·8	13·8	296				
5·4 ,, .					2	11·0	11·0	270	22	14·9	14·1	281	2	13·0	12·6	282	3	9·3	9·3	296				
6·0 ,, .					1	10·0	10·0	265	22	17·8	17·1	280					1	15·5	15·5	280				
7·2 ,, .									16	22·3	21·7	280												
9·0 ,, .									3	26·2	24·4	290												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·5	1·1	308	31	1·1	0·8	041	31	1·9	1·4	242	31	1·4	0·5	203	30	1·7	0·9	024	31	2·0	0·4	070
0·15 a.g. .	31	4·0	3·2	308	31	4·6	2·3	063	31	3·6	2·5	248	31	4·2	1·9	242	30	6·4	3·0	043	30	3·5	0·6	335
0·3 a.m.s.l.	31	4·1	3·2	306	31	3·9	2·3	044	31	3·6	2·5	246	31	3·9	1·8	225	30	5·3	2·9	027	30	3·3	0·6	015
0·6 ,, .	31	5·0	4·1	302	31	5·7	1·2	035	31	4·1	3·0	262	31	4·7	2·8	279	30	6·5	1·8	034	30	3·7	0·2	036
0·9 ,, .	31	5·1	3·9	300	31	5·5	1·5	344	31	4·0	3·1	275	31	5·1	3·7	286	30	6·8	1·9	336	30	4·2	0·8	265
1·5 ,, .	31	5·6	4·9	280	31	5·8	4·2	289	31	5·2	4·6	290	31	5·2	4·1	285	28	6·7	3·5	276	30	5·3	2·8	258
2·1 ,, .	30	6·7	6·1	276	31	6·6	5·8	283	31	5·9	5·4	296	30	5·8	4·9	290	28	6·8	5·2	261	29	6·2	4·6	260
3·0 ,, .	28	10·2	9·5	285	31	9·0	8·2	294	29	8·8	7·7	298	28	7·5	6·5	299	28	7·3	5·9	261	28	9·0	7·6	252
3·6 ,, .	23	13·2	12·9	293	27	10·2	9·0	298	28	11·1	9·3	300	6	5·7	4·5	307	25	7·9	7·1	256	25	10·3	9·6	250
4·5 ,, .	22	14·2	13·5	291	16	9·8	8·7	308	24	11·2	10·5	293					22	10·0	8·5	261	25	12·9	11·7	258
5·4 ,, .	16	16·8	16·0	287	6	10·3	10·1	303	21	14·3	13·7	292					22	13·7	13·2	265	24	16·3	15·3	269
6·0 ,, .	12	19·5	18·6	285	2	17·7	17·3	298	19	17·1	16·6	291					20	17·1	16·2	264	22	19·1	18·4	270
7·2 ,, .	2	22·7	22·5	285					12	20·0	19·6	290					19	23·9	22·7	267	22	24·3	23·5	270
9·0 ,, .									4	19·4	18·8	289					14	28·4	28·0	275	14	28·3	27·4	267

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·5	1·6	277	31	2·3	1·3	026	31	2·2	0·8	265	31	4·5	3·7	288	31	2·0	1·1	286	31	0·6	0·5	169
0·15 a. g. .	29	4·5	2·8	312	31	8·6	3·4	342	31	6·5	3·8	308	31	5·0	4·4	295	31	7·4	5·0	304	31	2·7	1·8	168
0·3 a. m. s. l.	29	4·1	2·7	307	31	7·3	3·0	341	31	6·8	4·2	317	31	5·3	4·6	293	31	8·1	5·6	307	31	3·5	2·5	168
0·6 ,, .	29	4·6	2·4	293	31	8·6	3·5	349	31	7·5	4·8	309	31	6·3	5·6	291	31	8·6	6·3	305	31	4·4	3·7	162
0·9 ,, .	29	4·6	2·7	275	31	7·4	3·0	335	31	8·3	6·4	296	31	6·6	6·0	289	31	7·8	6·3	305	31	5·0	4·0	158
1·5 ,, .	29	5·0	3·3	277	31	5·3	2·0	281	31	9·9	9·0	295	31	7·0	6·3	290	31	8·6	7·2	299	31	5·6	4·7	108
2·1 ,, .	29	4·8	3·2	278	30	5·2	3·0	244	30	11·4	10·3	294	31	8·4	7·4	292	27	9·0	7·8	289	31	6·5	5·8	078
3·0 ,, .	28	6·2	5·0	267	29	7·0	4·6	246	16	11·3	10·3	289	27	10·9	9·9	290	15	10·1	8·8	292	31	7·2	5·0	060
3·6 ,, .	27	9·2	8·2	267	12	8·7	6·5	262	11	10·3	9·7	293	27	12·4	11·5	287	3	10·3	10·0	275	31	6·2	3·7	053
4·5 ,, .	27	11·4	10·5	269	1	20·5	20·5	300	2	4·5	3·8	250	24	15·1	14·7	289					31	5·0	3·2	057
5·4 ,, .	25	15·4	14·4	276					1	4·0	4·0	290	22	17·7	16·2	287					31	5·0	2·2	057
6·0 ,, .	24	17·1	16·1	276					1	6·0	6·0	290	17	19·8	18·1	288					31	4·2	2·1	057
7·2 ,, .	22	22·0	21·1	273					1	15·0	15·0	300	9	21·1	20·5	258					31	5·8	1·7	324
9·0 ,, .	18	26·7	21·6	272									4	20·0	20·0	276					30	9·5	6·0	265

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	1·6	145	31	4·6	3·4	119	31	2·7	2·4	133	31	0·8	0·8	078	31	4·1	3·9	274	31	0·6	0·4	340
0·15 a. g.	31	3·7	2·4	146	31	5·8	4·9	121	31	6·3	5·4	139	31	3·2	2·4	068	31	6·3	6·0	275	31	4·4	3·9	328
0·3 a. m.s.l.	31	4·1	2·9	154	31	5·2	4·2	127	31	6·6	5·6	144	31	3·0	1·8	057	31	6·6	6·2	273	31	4·4	3·9	327
0·6 ,,	31	4·4	3·2	159	31	4·4	3·0	136	31	5·9	4·7	142	31	3·1	0·9	073	31	5·5	4·7	281	31	4·3	3·8	322
0·9 ,,	31	4·8	3·7	149	31	4·2	3·1	126	31	5·1	4·0	133	31	3·9	1·8	090	31	3·4	2·5	293	31	3·4	2·4	312
1·5 ,,	31	6·9	5·6	104	31	4·7	4·1	102	31	5·4	4·6	100	29	5·8	3·1	068	31	3·5	2·7	043	31	4·4	1·2	347
2·1 ,,	30	7·8	6·5	080	31	6·4	5·6	081	31	6·5	5·5	078	28	6·2	4·7	084	31	7·5	7·2	078	30	5·9	4·4	074
3·0 ,,	27	7·6	5·5	060	31	7·2	5·9	056	31	6·5	5·2	065	28	7·6	7·2	077	30	10·7	10·6	075	26	10·4	10·1	078
3·6 ,,	23	6·3	4·5	073	31	5·9	4·4	057	13	6·0	4·8	070	28	7·3	6·6	073	29	8·9	7·9	073	22	10·1	9·8	073
4·5 ,,	19	5·7	3·6	062	31	4·5	2·7	056	11	5·0	3·3	083	26	6·7	5·0	064	22	5·7	4·2	048	8	7·6	5·7	066
5·4 ,,	19	5·4	2·9	055	31	4·8	2·5	026	6	6·3	5·5	030	25	5·1	3·6	052	21	4·4	3·1	039	2	7·0	6·3	047
6·0 ,,	15	6·2	3·8	024	31	5·0	2·5	011	2	2·5	1·9	329	25	5·6	3·3	050	20	5·1	3·3	037	1	8·0	8·0	050
7·2 ,,	14	6·2	2·8	327	31	5·9	2·8	338					18	5·4	2·4	351	18	6·0	3·2	021				
9·0 ,,	8	10·8	8·0	257	31	8·5	5·9	269					6	7·0	2·8	280	12	8·9	5·0	270				

Station	MINICOY																NAGPUR/SONEGAON							
Time in I. S. T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·6	009	31	1·9	1·1	005	31	1·8	1·2	341	31	1·4	0·7	008	31	1·0	0·7	028	31	1·3	0·2	032
0·15 a.g.	31	3·5	1·8	017	31	3·9	2·9	019	31	3·3	2·1	343	31	3·3	1·8	355	31	5·0	0·7	010	31	3·0	1·2	013
0·3 a.m.s.l.	31	3·4	1·9	025	31	4·0	2·9	020	31	3·4	2·1	355	31	3.4	1·8	003								
0·6 ,,	31	3·7	2·1	035	30	4·2	3·0	040	31	3·6	2·4	027	31	3·5	1·7	047	31	5·2	0·9	067	31	3·0	0·5	035
0·9 ,,	31	4·3	3·1	080	30	5·4	4·5	068	31	4·1	3·0	057	30	4·6	3·3	076	31	5·1	0·7	192	31	2·9	0·2	165
1·5 ,,	31	7·5	7·1	085	27	7·5	7·3	079	31	6·0	5·3	075	29	7·1	6·5	083	31	4·2	1·5	267	31	3·5	1·2	270
2·1 ,,	30	8·4	7·9	083	25	9·2	8·8	081	31	7·9	7.5	073	28	8·9	8·6	082	31	4·4	2·9	261	28	5·3	3·0	268
3·0 ,,	25	5·7	5·0	086	22	6·8	6·3	082	31	5·9	5·1	067	25	6·2	5·8	077	31	5·0	4·1	277	28	7·1	4·9	276
3·6 ,,	22	5·5	4·4	085	19	5·6	4·5	087	31	5·3	4·4	067	17	6·0	5·4	076	31	7·1	5·8	282	26	7·5	5·8	287
4·5 ,,	20	5·9	4·9	088	18	6·5	5·5	083	31	5·9	5·1	075	6	7·5	7·5	082	31	8·1	6·8	290	27	9·9	8·8	289
5·4 ,,	14	5·6	4·5	085	17	7·9	7·2	085	31	7·5	6·5	071	2	9·3	8·9	098	31	10·7	9·3	291	27	12·1	11·1	285
6·0 ,,	14	6·9	5·7	071	15	8·8	7·4	081	31	8·1	6·8	069					31	11·7	10·6	296	27	15·1	14·2	283
7·2 ,,	5	4·8	3·1	018	14	9·8	8·0	073	31	7·5	6.2	060					31	14·7	14·3	285	26	19·7	19·1	278
9·0 ,,					9	6·7	3·9	013	30	7·7	0·3	007					28	19·9	19·9	280	23	25·9	25·2	273

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·5	0·8	300	31	1·7	0·4	318	31	2·2	1·2	341	31	3·9	2·2	310	31	2·9	2·2	328	31	2·3	1·5	335
0·15 a.g. .	31	3·5	1·3	277	31	6·0	0·4	052	31	6·7	3·6	345	31	5·5	3·2	310	31	5·7	4·3	325	31	7·2	4·9	350
0·3 a.m.s.l.									31	5·4	2·6	337	31	5·1	3·2	312	31	4·7	3·5	329	31	6·6	4·6	350
0·6 ,, .	31	3·1	1·4	271	31	6·2	0·4	020	31	7·2	4·1	343	31	6·0	2·9	299	31	5·7	4·3	320	31	8·2	5·1	335
0·9 ,, .	31	3·1	1·1	254	31	5·8	0·8	332	31	7·3	4·4	327	31	4·8	3·5	298	31	5·7	4·3	310	31	8·5	5·7	318
1·5 ,, .	31	3·3	1·8	259	31	4·4	2·0	304	31	7·7	6·5	303	31	8·6	5·3	290	31	6·5	5·1	297	31	9·2	7·0	290
2·1 ,, .	31	4·1	2·8	279	31	4·2	2·7	294	31	9·0	7·9	295	31	9·9	7·2	290	31	7·8	6·2	282	30	10·2	8·0	288
3·0 ,, .	31	5·1	3·6	276	31	5·4	3·7	279	31	10·4	9·4	293	28	10·4	9·4	288	31	9·1	7·4	277	22	10·4	8·3	270
3·6 ,, .	31	6·3	5·1	288	28	6·3	5·3	274	31	10·6	9·2	286	28	10·9	9·3	285	31	9·9	8·4	277				
4·5 ,, .	31	7·4	6·5	293	15	9·5	8·8	290	31	11·1	9·8	280	27	12·8	10·7	286	31	11·2	9·8	280				
5·4 ,, .	31	10·0	9·0	301	8	11·4	10·9	284	31	12·9	11·4	284	23	14·8	13·3	284	31	14·3	12·9	276				
6·0 ,, .	31	11·2	10·7	290	4	12·5	11·5	281	31	15·0	13·6	283	22	16·2	14·7	286	31	14·9	14·6	276				
7·2 ,, .	31	14·4	13·9	282	1	13·0	13·0	270	31	19·0	18·1	282	16	17·4	17·3	280	31	19·7	18·6	281				
9·0 ,, .	31	20·0	19·2	271					31	27·0	26·0	281	4	20·1	18·8	277	31	26·6	25·8	280				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	— C A L M —			31	1·2	0·7	320	31	0·2	0·2	250	31	0·8	0·4	051	31	2·5	2·4	058	31	1·5	1·0	061
0·15 a.g. .	31	2·8	1·1	307	31	4·4	1·9	295	31	4·9	3·6	284	31	3·5	2·8	0[illegible]7	31	4·3	4·0	062	31	3·9	2·7	063
0·3 a.m.s.l. .													31	3·5	2·8	038	31	4·5	4·0	058	31	4·0	2·7	061
0·6 ,, .	31	1·4	0·8	242	31	3·0	1·1	305	31	2·4	1·9	253	31	4·4	3·3	059	31	4·6	3·3	055	31	4·3	2·6	050
0·9 ,, .	31	4·0	1·7	345	31	4·6	2·2	295	31	6·1	5·3	300	31	5·3	4·2	077	28	4·8	3·2	065	31	4·3	3·1	061
1·5 ,, .	31	6·9	1·8	002	31	4·1	2·0	290	31	7·4	4·6	317	31	6·8	5·8	083	23	6·1	5·0	073	29	6·4	5·1	062
2·1 ,, .	31	5·9	1·3	105	31	3·9	1·3	265	31	5·9	0·7	040	31	7·1	6·2	083	22	6·6	5·5	087	28	6·7	5·2	072
3·0 ,, .	31	5·6	2·1	120	31	4·2	0·9	155	31	5·6	3·2	106	31	6·8	4·7	083	15	5·1	2·9	085	28	6·0	4·6	067
3·6 ,, .	28	4·6	1·5	180	30	4·2	0·7	020	29	5·6	2·2	122	31	5·6	3·1	069	14	4·2	1·5	042	29	4·9	2·7	053
4·5 ,, .	15	6·1	3·5	281	29	5·7	3·1	302	16	5·3	2·4	252	31	4·5	2·3	056	11	3·6	0·5	080	28	4·6	2·4	069
5·4 ,, .	5	8·1	7·5	293	29	7·9	6·5	295	6	6·0	4·5	280	30	4·9	1·5	072	10	3·5	0·8	234	29	4·1	1·6	074
6·0 ,, .	2	12·0	11·8	272	29	9·4	8·1	292	4	7·5	6·8	278	30	5·1	2·0	066	9	4·1	0·7	215	28	4·2	2·0	071
7·2 ,, .					28	12·0	10·7	282					30	6·1	1·1	063	7	5·7	0·7	242	28	5·4	1·2	062
9·0 ,, .					21	17·1	16·8	266					26	6·4	0·9	198	3	11·1	5·6	305	21	7·2	1·9	207

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 8185 Saka, Chaitra 11, 8186 Saka)

Station	PORTBLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·7	1·0	055	31	1·1	0·2	318	31	2·8	0·9	266	31	2.0	1·2	228	31	1·7	1·1	093	29	2·3	1·4	10[illegible]
0·15 a. g. .	31	3·5	2·9	060	31	5·6	1·0	334	31	4·1	2·3	270	31	6·2	2·6	239	31	5·9	2·6	102	29	3·9	2·7	11[illegible]
0·3 a. m. s. l. .	31	3·7	2·9	056													31	6.1	2.3	111	29	4.0	2.7	11[illegible]
0·6 ,, .	31	4·0	3·3	065	31	6·5	0·9	347	31	4·5	2·8	278	31	6·1	2·9	253	31	6·2	0·8	151	29	4·3	2·2	13[illegible]
0·9 ,, .	30	4·7	4.0	073	31	6·1	0·8	285	31	4·6	3·1	279	31	5·2	2·6	263	31	5·5	1·7	254	29	5·1	1·1	22[illegible]
1·5 ,, .	26	6·4	5·6	078	31	5·2	2·9	264	31	4·5	3·3	274	31	4·8	3·4	274	31	4·5	3·4	283	24	4·4	2·4	25[illegible]
2·1 ,, .	23	5·9	5·1	073	30	5·4	4·1	282	31	4·9	3·9	280	31	5·5	4·0	279	31	6·4	5·3	290	15	3·9	3·3	26[illegible]
3·0 ,, .	18	4·8	2·3	057	28	8·3	6·9	294	30	7·6	6·1	290	30	6·1	4·7	289	19	7·9	7·3	286	8	9·4	8·8	282
3·6 ,, .	5	4·8	1·9	323	28	9·1	7·3	295	30	8·6	6·9	287	17	6·4	5·4	296	12	10·5	9·3	287				
4·5 ,, .	1	6·0	6·0	270	25	8·7	7.3	295	23	9·1	8·6	300	8	6·7	6·5	304	5	7·7	7·5	286				
5·4 ,, .					15	9·2	8·5	302	22	11·9	11·5	291	3	7.8	7.7	294	3	9·2	8·6	302				
6·0 ,, .					7	11·0	9·0	308	21	15·3	13.2	291	2	9.5	9.5	294	2	10·5	9·9	283				
7·2 ,, .					3	15.8	14·1	305	17	18·0	17·4	289					1	13·5	13·5	285				
9·0 ,, .					1	9·0	9·0	290	10	22.8	21.5	284												

Station	RAXAUL				SILIGURI/BAGHDOGRA																SRINAGAR			
Time in I. S. T.	1730				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·0	0·7	250	31	2·5	2·1	059	31	4·1	3·6	103	31	1·9	0·6	239	31	2·3	1·8	020	16	0·2	0·1	165
0·15 a. g. .	31	3·7	2·5	253	31	4·7	4·5	072	31	4·1	3·7	109	31	3·0	1·2	230	31	4·2	3·5	059	16	1·4	0·9	155
0·3 a. m. s. l. .	31	3.9	.5	252	31	4.7	4.6	073	31	4·1	3·7	109	31	2·9	1·2	228	31	4·3	3·6	063				
0·6 ,, .	31	4·7	3·4	251	31	6·0	5·5	090	31	4·2	3·8	104	31	3·7	2·5	235	31	3·9	2·0	082				
0·9 ,, .	31	5·2	4·3	255	31	5·5	4·7	085	31	5·0	4·1	108	31	3·9	2·8	238	31	3·4	0·3	293				
1·5 ,, .	31	6·4	5·9	270	31	3·3	0·7	109	29	4·4	0·8	231	31	4·6	3·9	250	31	4·7	3·9	266				
2·1 ,,	30	7·6	7·0	277	28	4·8	3·7	277	23	6·0	4·6	268	31	6·2	5·5	261	26	5·7	5·0	266	16	2·2	0·8	088
3·0 ,, .	24	9·8	9·3	291	27	9·8	9·5	283	11	7·5	6·3	295	27	8·4	7·4	278	16	7·0	6·4	270	15	2·3	0·9	165
3·6 ,, .	17	11·1	10·3	284	23	13·2	12·4	285	5	15·2	15·1	281	24	11·4	9·4	281					15	3·7	2·8	173
4·5 ,, .	7	12·3	12·1	290	14	12·3	11·3	292					20	16·0	15·5	280					16	6·2	3.6	222
5·4 ,, .	2	11·3	11·1	287	8	8.7	8.6	284					16	18·4	17·5	285					14	11·2	6·6	267
6·0 ,, .					3	7.3	6·2	294					14	17·0	15·9	284					14	12·3	7·9	272
7·2 ,, .													7	16·4	16·1	290					10	17·1	13·1	282
9·0 ,, .													1	12·0	12·0	320					8	23·3	20·1	280

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March, 1964 (Phalguna 11,1885 Saka—Chaitra 11, 1886 Saka)

Station	SRINAGAR				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	1730*				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	21	0·7	0·7	320	31	1·7	1·4	023	31	3·8	3·2	091	31	3·5	2·9	100	31	1·1	0·9	021	31	1·2	0·4	255
0·15 a.g. .	21	2·0	1·8	311	31	4·2	2·8	060	31	5·3	4·8	090	31	7·0	6·1	105	31	3·3	2·3	007	31	2·6	1·2	244
0·3 a.m.s.l. .					31	4·4	2·8	074	31	5·4	4·9	090	31	7·5	6·6	105	31	3·3	2·0	004	31	2·5	0·9	243
0·6 ,, .					30	5·0	3·4	108	31	6·0	5·7	090	31	8·0	7·3	105	31	2·8	1·1	020	30	1·9	0·6	033
0·9 ,, .					30	5·3	4·1	110	31	5·6	5·3	090	31	6·7	5·8	098	30	2·8	1·7	059	29	2·5	1·8	051
1·5 ,, .					30	5·9	5·4	090	31	5·3	4·9	078	31	6·0	5·3	073	30	5·6	5·2	072	18	6·3	5·9	066
2·1 ,, .	21	1.7	0.9	326	29	7.8	7.1	075	31	6·3	5·8	068	31	7·7	7·2	070	30	8·8	8·3	063	13	9·9	9·4	079
3·0 ,, .	21	3.5	3.4	140	25	8.2	6.9	057	31	8·3	7·3	057	31	8·6	7·4	060	29	6·5	5·5	076	11	7·9	6·8	086
3·6 ,, .	21	4.7	3.9	161	24	6.9	5.8	067	29	6·9	5·4	065	29	7·8	6·1	063	29	5·0	3·5	076	7	6·0	4·9	073
4·5 ,, .	21	4.7	3.4	220	20	5.9	5.1	077	26	5.2	4·0	070	21	6·4	5·3	060	29	5·4	4·4	070	6	6·9	6·3	071
5·4 ,, .	20	8.9	5.9	212	18	5.6	5.0	067	24	6·9	6·0	061	10	7·9	7·2	066	27	6·1	5·4	077	6	9·3	8·8	073
6·0 ,, .	20	12.1	9.8	255	18	5.1	4.2	061	21	6.6	5·5	051	6	7·6	7·2	065	27	6.3	5.7	079	6	9·5	9·0	069
7·2 ,, .	20	15.8	13.4	269	14	5.8	2.5	073	16	6·6	4.5	055	1	2·0	2·0	319	26	8.1	5.7	075	5	8·5	7·3	072
9·0 ,, .	13	21.3	19.3	273	7	8.5	3.9	223	12	7·1	1·8	360					26	9.0	1.4	149	4	6·9	2·0	096

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·6	2·1	245	31	1·3	0·8	353	31	C	A	L	M	31	2·1	1·3	249	31	0·1	0·1	180	31	0·2	0·1	340
0·15 a.g. .	31	3·9	3·4	245	29	3·4	1·8	320	31	3·4	1·8	356	31	3·5	1·4	257	31	4·5	2·4	304	31	3·5	1·6	016
0·3 a.m.s.l. .	31	3·9	3·0	247	29	3.2	1.7	312													31	4·2	2·5	002
0·6 ,, .	31	3·6	2·2	228	29	3.4	1.5	338													31	5·8	4·3	359
0·9 ,, .	31	3·6	1·1	052	29	3·8	2·4	047	31	4·5	2·1	353	31	4·0	2·1	260	31	5·1	2·7	305	29	7·5	5·6	357
1·5 ,, .	28	7·1	6·9	058	27	7·3	6·8	066	31	5·0	0·8	005	31	3·8	2·5	264	31	5·2	2·5	297	29	5·9	2·1	016
2·1 ,, .	28	9·5	9·1	057	25	9·4	9·1	063	31	5·2	3·0	263	31	4·2	2·8	271	31	4·3	2·5	254	29	4·9	3·5	091
3·0 ,, .	26	7·4	6·5	067	20	8·7	7·8	078	31	8·6	7·1	257	31	5·6	4·9	270	31	6·3	4·2	240	29	5·2	4·5	113
3·6 ,, .	24	5·4	4·0	069	11	6·0	4·2	073	31	9·3	7·7	256	31	7·6	6·6	269	22	6·2	4·7	255				
4·5 ,, .	23	5·7	4·7	077	5	6·4	3·6	076	29	10·8	9·4	265	30	11·2	9·6	273	5	7·1	6·2	285				
5·4 ,, .	23	7·6	6·7	073	2	6.7	5.3	086	26	13·1	12·2	247	24	14·8	13·5	277	1	11.0	11.0	280				
6·0 ,, .	23	7·9	6·7	077	2	9.0	8.7	070	25	15·7	13·5	279	24	16·3	15·4	282	1	5.0	5.0	320				
7·2 ,, .	23	6·5	4·9	081					22	19·7	14·1	286	19	20·2	18·7	279								
9·0 ,, .	21	7·3	2·5	113					6	20·0	19·2	279	1	25.5	25·5	295								

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·6	2·3	280	31	0·6	0·5	340	31	3·7	3·4	349	31	6·1	5·7	277	31	3·7	3·4	305	31	2·1	1·2	10[illegible]
0·15 a.g. .	31	4·4	3·9	289	31	4.7	4·5	345	27	9·2	8·9	334	31	7·4	6·7	279	31	8·7	8·3	307	30	3·9	3·2	16[illegible]
0·3 a.m.s.l. .	31	5·1	4·2	286	31	6·2	6·0	346	27	9·4	8·9	334	31	7·6	6·4	283	31	9·2	8·8	309	30	5·0	4·8	18[illegible]
0·6 ,, .	31	4·4	2·7	301	31	6·4	5·9	346	27	8·1	7·1	338	31	6·3	4·5	306	31	7·7	6·6	314	30	6·4	5·9	18[illegible]
0·9 ,, .	31	4·4	2·5	317	31	6·3	5·4	337	27	6·6	4·4	334	31	5·7	3·8	307	31	6·6	4·8	311	27	6·3	5·4	17[illegible]
1·5 ,, .	30	4·7	1·8	004	31	5·2	2·2	344	27	5·6	2·4	275	31	5·5	3·1	307	31	5·1	1·9	286	24	5·4	4·1	10[illegible]
2·1 ,, .	30	4·7	2·7	066	31	5·5	3·8	084	27	6·4	4·5	241	31	6·1	3·5	268	31	6·4	3·5	240	23	5·4	4·6	05[illegible]
3·0 ,, .	30	6·3	5·1	080	29	6·7	6·2	092	27	7·7	5·5	229	31	6·8	4·5	258	31	7·1	3·9	234	20	6·2	5·2	03[illegible]
3·6 ,, .	29	6·8	5·1	077	12	6·9	6·3	099	11	8·4	6·8	225	31	7·5	5·3	260	16	6·6	3·6	262	17	5·3	4·1	01[illegible]
4·5 ,, .	28	5·4	1·6	029					6	4·8	3·7	275	31	8·4	7·2	277	12	7·7	6·7	281	16	4·3	3·0	351
5·4 ,, .	28	5·2	2·4	334					2	2·3	1·5	267	31	10·3	9·5	276	7	10.1	9·9	287	16	5·0	3·3	29[illegible]
6·0 , .	28	5·7	2·5	325					2	7·3	6·5	287	31	12·0	11·1	277	2	8.5	8·5	281	14	6·5	4·9	29[illegible]
7·2 ,, .	23	9·0	5·9	306									28	16·5	15·4	277					13	9·4	8·2	29[illegible]
9·0 ,, .													20	22·2	21·2	282					11	16·2	15·3	26[illegible]

Station	VIJAYAWADA/ GANNAVARAM								VISHAKHAPATNAM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·2	3·8	163	31	2·4	2·2	166	31	3·7	3·5	280	31	4·2	3·8	217	31	3·9	3·7	271	31	1·4	1·3	235
0·15 a.g. .	31	4·1	3·9	170	31	7·2	7·0	167	31	8·4	8.0	288	31	4·5	4·3	211	31	7·7	7·0	265	31	4·4	4·1	225
0·3 a.m.s.l. .	31	4·5	4·2	169	31	7·7	7·5	170	31	7·6	7·2	273	31	4·5	4·1	218	31	7·6	6·9	251	31	5·5	5·3	230
0·6 ,, .	31	4·1	3·8	165	31	6·4	6·0	167	31	6·3	5·8	249	31	4·1	3·3	233	31	6·8	5·9	233	30	6·1	5·5	236
0·9 ,, .	31	3·6	3·0	154	31	5·3	4·5	152	31	5·4	4·1	234	31	4·1	2·6	228	31	5·5	3·8	213	28	5·6	3·9	234
1·5 ,, .	31	4·1	2·6	095	31	5·1	3·4	103	31	4·5	1·0	231	31	4·0	0·6	048	31	3·9	0·9	083	27	4·3	1·2	191
2·1 ,, .	31	5·7	4·4	056	31	6·4	4·2	058	30	4·6	2·1	357	30	4·6	2·9	028	31	4·6	2·8	040	27	4·2	2·4	044
3·0 ,, .	31	6·3	4·8	037	31	6·3	4·4	036	30	5·5	3·8	014	30	5·1	3·5	007	31	6·2	4·9	357	25	5·5	4·5	014
3·6 ,, .	30	5·2	3·5	018	27	5·5	3·7	012	29	5·6	3·8	357	30	5·5	3·7	346	30	7·4	5·8	277	15	6·2	4·4	355
4·5 ,, .	29	5·0	3·1	307	22	5·3	4·3	327	27	6·3	4·7	332	26	6·7	5·1	309	27	7·3	5·9	312	9	7·0	6·2	290
5·4 ,, .	29	6·6	5·6	302	12	6·3	5·6	301	27	6·7	6·0	299	25	7·7	6·5	293	25	9·4	8·4	284	5	6·4	5·0	26[illegible]
6·0 ,, .	29	8·1	7·0	301	7	6·8	6·2	281	27	8·2	7·1	295	25	10·1	9·1	284	25	10·6	9·3	290	4	7·9	5·7	266
7·2 ,, .	28	9·9	8·8	287	1	11·5	11·5	265	26	11·8	10·3	273	19	14·1	13·3	271	24	13·1	12·0	275				
9·0 ,, .	23	15·4	14·0	269					24	17·9	14·9	267	16	18·0	17·3	254	24	17·7	16·0	267				

Table B—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	26	33·0	31·4	279
12·0	21	34·8	34·0	270
14·1	11	25·2	24·3	264
16·2	5	23·2	22·8	278
18·0	2	22·3	15·4	116
	1730 hr.*			
10·5	24	33·9	32·0	270
12·0	16	33·6	32·3	273
14·1	11	29·1	27·4	267
16·2	6	29·8	29·1	266
18·0	3	27·3	27·3	266
21·0	2	10·7	10·7	305
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	3	29·2	28·0	251
12·0	1	12.0	12·0	275
	1130 hr.			
10·5	2	18·5	18·5	293
12·0	1	22·0	22·0	285
14·1	1	32·0	32·0	270
	1730 hr.*			
10·5	12	34·4	33·0	279
12·0	5	39·5	39·3	276
14·1	2	32·5	32·5	272
	AMBALA			
	1130 hr.			
10·5	3	20·5	19·3	259
12·0	2	20.7	20·6	278
14·1	2	27·3	27·3	282
	ANANTAPUR			
	0530 hr.			
10·5	5	16·3	14·8	252
12·0	5	18·2	17·6	240
14·1	1	15·5	15·5	290
	1730 hr.			
10·5	1	18·5	18·5	220
12·0	1	19·5	19·5	245

Ht in Km.	n	V	v	D
	ASANSOL			
	0530 hr.			
10·5	1	24·0	24·0	285
	1730 hr.			
10·5	1	20·0	20·0	295
12·0	1	45·0	45·0	260
	BAHRAICH			
	1130 hr.			
10·5	4	33·1	32·5	278
12·0	2	46·7	46·7	282
	BANGALORE			
	0530 hr.@			
10·5	19	14·2	10·8	234
12·0	14	13·5	10·6	232
14·1	13	12·9	5·7	235
16·2	8	7·9	4·7	338
18·0	4	4·5	2·4	158
21·0	1	11·5	11·5	280
	1130 hr.			
10·5	6	13·1	6·5	228
12·0	4	13·3	7·5	197
14·1	2	13·7	4·7	246
	1730 hr.@			
10·5	9	12·6	7·5	237
12·0	7	15·1	11·9	204
14·1	5	16·4	7·4	204
16·2	4	8·7	2·6	005
18·0	2	4·7	4·0	278
21·0	1	10.0	10.0	255
	BEGAMPET			
	0530 hr.			
10·5	2	16·0	15·5	260
12·0	2	20·5	20·5	245
14.1	1	25.0	25.0	240
	1730 hr.			
10·5	3	21·2	21·1	267
12·0	3	26·8	26·6	258
	BHOPAL/ BAIRAGARH			
	0530 hr.			
10·5	6	26·4	25·3	286
12·0	4	29·9	29·0	282
14·1	2	29·7	29·7	273

Ht. in Km.	n	V	v	D
	1730 hr.			
10·5	5	30·2	29·7	269
12·0	1	31·0	31·0	280
14·1	1	34·0	34·0	270
	BHUJ/ RUDRAMATA			
	1730 hr.			
10·5	3	38·2	36·0	271
	BOMBAY/ SANTACRUZ			
	0530 hr.*			
10·5	28	22·1	21·2	260
12·0	25	22·8	20·2	252
14·1	10	23·7	22·7	245
16·2	4	16·8	15·9	252
18·0	3	15·7	15·1	259
	1130 hr.			
10·5	13	26·5	24·5	277
12·0	8	29·7	27·6	268
14·1	5	23·9	22·9	263
16·2	4	17·9	17·1	274
18·0	4	11·6	10·5	271
21·0	1	9·0	9·0	270
	1730 hr.*			
10·5	30	19·7	17·7	257
12·0	29	22·7	20·6	253
14·1	10	24·4	23·8	252
16·2	6	12·3	11·7	274
18·0	3	9·2	5·4	234
21·0	1	4·5	4·5	255
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10·5	28	34·1	32·9	265
12·0	25	39·6	38·3	260
14·1	21	36·3	34·8	262
16·2	16	26·4	25·7	265
18·0	8	24·0	23·6	263
21·0	4	28·5	27·8	261
	1730 hr.*			
10·5	27	37·0	34·8	260
12·0	24	37·9	37·6	257
14·1	15	32.5	32·0	256

Ht. in Km.	n	V	v	D
16·2	13	23·4	22·8	262
18·0	4	21·2	21·1	267
21·0	1	6·0	6·0	275
	DIBRUGARH/ MOHANBARI			
	0530 hr.			
10·5	1	32·0	32·0	270
12·0	1	34·0	34·0	265
	GADAG			
	0530 hr.			
10·5	2	18·5	18·3	268
12·0	1	21·0	21·0	255
	1730 hr.			
10·5	11	13·2	10·6	256
12·0	9	18·9	17·5	243
14·1	8	19·4	18·4	254
16·2	5	17·3	16·3	261
18·0	5	14·5	11·8	270
21·0	5	10·6	6·5	241
24·0	2	9·0	9·0	270
	GANGTOK			
	1730 hr.			
10·5	1	18·0	18·0	320
	GAUHATI			
	0530 hr. *			
10·5	10	37·4	37·0	276
12·0	7	41·8	41·0	281
14·1	5	49·5	48·0	282
16·2	1	29·0	29·0	260
	1130 hr.			
10·5	2	45·0	44·3	281
12·0	1	54·5	54·5	285
	1730 hr.*			
10·5	13	35·2	33·7	274
12·0	8	43·8	42·7	276
14·1	2	34·3	34·1	270
16·2	2	27·7	26·0	285
18·0	1	27·0	27·0	275
	GOPALPUR			
	1730 hr.			
10·5	11	29·6	28·6	253
12·0	6	35·8	35·5	246

Ht. in Km.	n	V	v	D
14.1	4	20·6	20·6	245
16·2	3	12·0	10·9	266
	GWALIOR			
	0530 hr.			
10·5	3	26·2	26·2	281
12·0	1	23·0	23·0	290
	1130 hr.			
10·5	6	26·7	25·0	275
	1730 hr.			
10·5	4	28·6	28·0	279
12·0	1	23·0	23·0	290
	IMPHAL/ TULIHAL			
	1730 hr.			
10·5	1	39·0	39·0	290
	JABALPUR			
	1730 hr.			
10·5	1	15·0	15·0	285
	JAGDALPUR			
	1730 hr.			
10·5	1	24·5	24·5	260
12·0	1	33·5	33·5	235
	JODHPUR			
	0530 hr. *			
10·5	11	40.4	39.4	280
12·0	7	41·7	41·2	283
14·1	1	29·0	29·0	265
	1130hr.			
10·5	10	34·3	33·7	265
12·0	4	42·5	40·7	277
	1730 hr.*			
10·5	15	36·7	35·1	275
12·0	10	39·7	38·8	277
14·1	7	33·9	33·2	274
16·2	2	30.3	30·2	260
	LUCKNOW/ AMAUSI			
	1730 hr.			
10·5	2	25·3	25·3	260
12·0	2	29·5	29·1	254

Table B—Monthly Mean Direction and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

March, 1964 (Phalguna 11,1885 Saka—Chaitra 11, 1886 Saka)

MADRAS/MINAMBAKKAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	30	12·1	9·6	241
12·0	29	13·2	10·2	235
14·1	28	14·1	8·4	237
16.2	24	8·4	1·8	238
18·0	15	6·2	2·9	038
21·0	8	11·2	8·1	289
24·0	1	24·0	24·0	280

1130 hr.

Ht. in Km.	n	V	v	D
10.5	5	14·1	9·1	267
12·0	5	14·3	9·5	249
14·1	1	12·0	12·0	260

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	31	12·6	10·0	239
12·0	31	15·2	12·4	237
14·1	28	14·2	8·9	249
16·2	25	8·0	3·5	240
18·0	19	5·5	1·7	310
21·0	9	10·2	7·5	288
24·0	1	15·0	15·0	260

MANGALORE/BAJPE

1730 hr.

Ht. in Km.	n	V	v	D
10·5	5	10·6	6·1	251
12·0	3	20·3	19·2	247
14·1	1	9·5	9·5	275

MINICOY

1130 hr.

Ht. in Km.	n	V	v	D
10·5	5	7·4	5·0	226
12·0	4	8·0	7·1	249
14·1	3	9·2	6·5	303
16·2	2	8·0	7·3	219
18·0	2	7·0	7·0	105

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	9·1	3·4	169
12·0	25	10·4	4·5	175
14·1	23	12·3	3·2	179
16·2	17	7·6	3·0	094
18·0	13	8·9	1·0	260
21·0	10	9·3	7·2	270
24·0	2	10·7	9·9	306

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	22·4	21·9	277
12·0	13	24·8	24·2	262
14·1	4	29·9	19·5	257

1130 hr.

Ht. in Km.	n	V	v	D
10·5	14	27·7	27·0	271
12·0	9	32·4	31·9	265
14·1	3	34·7	33·9	254
16·2	1	42·5	42·5	255

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	19	20·9	19·6	269
12·0	10	24·2	22·8	258
14·1	2	31·2	30·2	280

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	27	33·3	31·9	279
12·0	25	36·5	35·4	275
14·1	24	30·2	29·4	273
16·2	24	25·6	25·2	269
18·0	19	18·2	18·0	274
21·0	16	8·9	6·7	292
24·0	5	7·4	3·3	013
27·0	2	6·5	6·4	050

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	31·3	30·4	280
12·0	27	35·4	34·4	279
14·1	26	32·0	31·5	278
16·2	24	24·2	23·6	272
18·0	24	15·9	15·4	275
21·0	16	8·1	4·0	297
24·0	9	7·5	3·9	265
27·0	6	9·5	5·7	265
30·0	2	8·0	3·1	293

POONA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	16	21·4	19·5	266
12·0	8	21·1	20·0	264
14·1	5	19·7	19·3	273
16·2	3	20·8	20·7	273
18·0	1	15·5	15·5	290

PORTBLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	24	7·7	3·8	193
12·0	20	9·8	7·2	184
14·1	14	13·7	7·1	179
16·2	9	10·1	3·8	228
18·0	4	3·6	0·2	090

1130 hr.

Ht. in Km.	n	V	v	D
10·5	2	10·0	8·0	243

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	15	7·2	3·1	160
12·0	10	11·3	7·1	132
14·1	3	18·3	15·1	140
16·2	1	7·0	7·0	080

RAIPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	16·3	15·8	272
12·0	2	34·7	34·7	255

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	4	26·5	22·0	280

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	7	19·1	17·0	282
12·0	3	17·7	17·3	303

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	6	14·5	9·7	225
12·0	3	16·7	15·9	220
14·1	1	23·5	23·5	230

1730 hr.

Ht. in Km.	n	V	v	D
10·5	8	11·5	5·2	216
12·0	7	12·8	7·5	213
14·1	3	10·3	8·0	243
16·2	2	8·5	6·1	307
18·0	2	7·5	6·8	064

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	23	9·1	3·9	175
12·0	23	11·5	5·4	157
14·1	17	12·8	4·8	133
16·2	13	8·1	2·6	002
18·0	7	6·7	1·9	168
21·0	4	14·7	13·9	265
24·0	2	12·7	11·7	255

1130 hr.

Ht. in Km.	n	V	v	D
10·5	2	14·0	4·6	196
12·0	2	12·7	7·3	282

1730 hr.*

Ht. in Km.	n	V	v	D
10.5	18	8·0	4·9	155
12.0	16	10·6	6·8	155
14·1	14	13·9	3·9	152
16·2	12	6·1	2·8	067
18·0	10	6·9	1·5	153
21·0	5	12·8	12·5	258
24·0	1	25·0	25·0	280

VERAVAL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	12	25·3	24·6	272
12·0	7	30·1	28·7	280
14·1	2	20·3	20·3	259

VIJAYAWADA/GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	20·0	19·7	244
12·0	5	27·3	27·1	239
14·1	2	28·7	28·5	250

17 30 hr.

Ht. in Km.	n	V	v	D
10·5	12	25·4	23·9	25
12·0	11	25·7	24·4	25
14·1	5	18·6	17·4	26
16·2	1	3·5	3·5	19
18·0	1	13·5	13·5	25
21·0	1	27·0	27·0	23

VISHAKHAPATNAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	24·0	22·7	251
12·0	15	29·2	28·0	24
14·1	11	20·0	18·8	25
16·2	8	11·3	9·4	25
18·0	3	7·3	6.0	27
21.0	1	8·0	8·0	31

1130 hr.

Ht. in Km.	n	V	v	D
10·5	13	21·0	19·9	25
12·0	13	23·4	22·7	24
14·1	11	20·2	19·7	24
16·2	8	16·8	16·2	25
18·0	5	9.5	8·4	27
21·0	4	12·0	11·9	29
24·0	2	11·3	11·2	25
27·0	1	8·5	8·5	29

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	22	23·6	22·3	269
12·0	19	25·2	24·4	252
14·1	17	23·9	22·5	245
16·2	10	11·9	11·2	253
18·0	5	9·5	9·4	263
21·0	3	12·3	11·8	247
24·0	1	15·0	15·0	255

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July 1961	00 and 12	Fan type upto 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September 1954	00 and 12	Clock type upto 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

March, 1964 (Phalghuna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1003 mb.)						ALLAHABAD/BAMHRAULI (998 mb.)						BANGALORE (911 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	295·5	299	289	285·0	31	098	291·8	301	287	282·6	31	921	292·5	296	289	289
1000	31	085	..	..	..	..	31	081	..	..	..	..	31	113	..	..	..	..
900	31	1010	297·3	302	291	278·1	31	1000	295·7	300	290	273·7	30	1024	292·7	296	289	288
850	31	1506	293·8	298	288	276·5	31	1495	292·2	296	287	270·1	30	1518	292·8	297	290	280
800	31	2027	289·8	294	285	274·3	31	2012	287·7	291	283	268·6	30	2039	290·1	294	287	275
700	31	3147	281·1	284	277	266·8	31	3123	279·2	283	275	259·0	30	3163	282·0	285	278	269
600	31	4401	272·9	277	269	250·0	31	4366	270·0	273	265	..	30	4427	275·8	279	273	258
500	31	5835	263·9	271	259	..	31	5785	260·8	266	256	..	29	5881	267·0	270	264	..
400	31	7525	252·1	261	247	..	31	7457	249·9	253	243	..	28	7595	255·8	260	250	..
300	31	9589	237·2	244	231	..	31	9505	235·3	244	227	..	26	9689	240·3	246	235	..
250	31	10834	228·8	235	224	..	30	10742	227·2	236	218	..	23	10946	231·4	239	227	..
200	27	12311	220·7	225	214	..	30	12204	220·0	228	212	..	21	12414	219·5	228	215	..
175	25	13171	216·4	221	209	..	30	13059	215·9	222	208	..	21	13257	214·3	222	209	..
150	23	14137	211·7	218	205	..	27	14035	211·2	217	202	..	19	14227	208·8	215	203	..
125	22	15282	206.0	212	199	..	25	15175	206·0	212	200	..	16	15306	203·6	210	199	..
100	19	16582	201·4	205	193	..	23	16504	202·0	211	194	..	13	16641	198·5	207	193	..
80	11	17952	200·1	206	191	..	21	17802	202·2	211	194	..	10	17957	198·4	214	193	..
70	8	18780	201·7	206	198	..	19	18614	204·2	213	194	..	8	18747	201·0	217	194	..
60							13	19563	206·5	214	199	..	7	19631	201·3	205	197	..
50							7	20697	210·4	216	202	..	7	20685	203·9	209	199	..
40																		
30																		
20																		
10																		

	BOMBAY/SANTACRUZ (1008 mb.)						CALCUTTA/DUM DUM (1009 mb.)						GAUHATI (1005 mb.)					
Surface	31	013	294·8	298	292	291·7	31	6	294·7	299	281	293·6	31	49	291·3	295	287	288
1000	31	087	..	..	..	..	31	078	..	..	..	..	30	94	..	..	..	..
900	31	1014	297·2	302	292	276·5	31	1002	295·2	299	289	280·5	30	1000	291·6	295	288	282
850	31	1511	295·9	299	290	274·6	31	1498	291·4	297	286	276·8	30	1488	288·2	292	285	279
800	31	2033	290·9	297	286	272·8	31	2011	287·3	291	283	273·6	30	1997	284·1	289	280	276
700	31	3160	282·0	286	277	268·4	31	3124	279·1	283	275	266·8	30	3096	276·9	287	272	266
600	31	4420	274·5	279	269	250·7	31	4370	271·2	277	268	256·9	30	4331	269·1	274	264	..
500	31	5866	266·0	270	261	..	31	5798	263·1	268	257	..	30	5749	261·0	265	255	..
400	31	7566	253·4	259	248	..	31	7488	252·8	258	248	..	30	7420	250·3	257	244	..
300	31	9641	237·9	243	232	..	29	9522	239·7	245	233	..	23	9480	238·1	247	232	..
250	31	10882	229·0	235	222	..	28	10822	231·2	237	225	..	20	10730	231·4	242	224	..
200	31	12353	219·0	224	213	..	27	12299	222·5	228	217	..	19	12195	222·9	231	218	..
175	31	13199	213·6	219	208	..	26	13163	217·8	222	212	..	17	13066	219·2	227	213	..
150	29	14146	208·1	215	203	..	24	14135	212·7	218	207	..	13	14033	213·8	221	212	..
125	28	15243	203·4	209	194	..	24	15267	208·0	212	200	..	8	15145	207·5	210	198	..
100	26	16571	198·5	204	191	..	22	16655	203.5	211	196	..	5	16517	204·8	207	201	..
80	21	17878	198·1	206	193	..	13	17921	201·1	205	196	..	5	17827	203·0	207	200	..
70	20	18654	199.6	209	193	..	12	18742	201·5	207	197	..						
60	17	19558	201·7	211	195	..	11	19645	202·6	207	197	..						
50	13	20674	205.8	216	197	..	8	20735	206·7	212	197	..						
40	8	22036	208·5	216	203	..												
30	7	23823	211·9	221	205	..												
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (985 mb.)						MADRAS/MINAMBAKKAM (1012 mb.)						NAGPUR/SONEGAON (975 mb.)					
	No of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	294·0	299	289	276·5	31	015	293·2	296	291	291·9	31	311	293·6	299	289	279·5
1000	26	088	..	..	..	..	31	117	..	..	..	..	31	091	..	..	..	..
900	26	1005	296·8	301	291	275·2	31	1023	290·2	295	287	282·9	31	1013	298·6	303	295	279·3
850	26	1500	293·4	297	286	272·4	31	1511	288·7	293	285	274·9	31	1513	295·0	297	293	277·1
800	26	2018	289·3	293	283	271·3	31	2025	286·6	291	274	269·1	31	2035	290·6	295	287	275·2
700	26	3133	280·8	285	276	261·2	31	3145	283·5	287	280	262·4	31	3156	281·0	287	277	271·2
600	26	4384	272·7	277	269	255·0	31	4413	276·3	279	269	258·5	31	4399	271·5	275	267	255·4
500	25	5816	262·9	268	257	..	31	5860	267·5	272	262	..	31	5841	264·6	269	259	..
400	23	7500	251·9	257	248	..	31	7584	255·8	260	251	..	31	7538	252·6	259	244	..
300	21	9567	237·1	245	230	..	31	9679	240·3	245	235	..	31	9605	239·4	247	229	..
250	20	10809	228·6	237	223	..	29	10940	230·2	235	223	..	31	10848	228·5	237	221	..
200	16	12269	221·5	227	217	..	29	12410	219·1	224	214	..	31	12317	219·4	225	213	..
175	14	13116	218·3	223	213	..	29	13240	212·9	217	208	..	31	13149	214·7	221	209	..
150	13	14099	214·8	219	210	..	28	14204	206·1	211	200	..	31	14123	209·2	215	204	..
125	11	15253	211·0	215	204	..	22	15254	201·4	211	196	..	31	15220	205·1	211	200	..
100	9	16643	207·6	212	203	..	21	16593	196·0	201	192	..	30	15576	200·8	206	195	..
80	7	17979	205·3	212	200	..	14	17894	196·0	203	191	..	20	17864	199·0	203	195	.
70	5	18732	205·4	209	202	..	13	18725	199·6	208	196	..	17	18729	199·2	202	195	..
60							12	19545	204·8	213	199	..	14	19539	200·9	206	196	..
50							8	20673	206·6	209	204	..	11	20668	204·7	211	197	..
40							6	22047	211·3	212	211	..	7	22098	208·0	211	205	..
30																		
20																		
10																		

	NEW DELHI/SAFDARJUNG (986 mb.)						PORT BLAIR (1003 mb.)						SRINAGAR (843 mb.)					
Surface	31	209	290·9	296	287	282·5	31	079	297·4	303	294	295·9	17	1588	278·1	283	275	277·1
1000	31	087	..	..	..	..	31	098	..	..	..	..	17	177	..	..	..	..
900	31	1000	295·0	299	289	274·9	31	1017	294·2	297	290	285·4	17	1056	..	..	..	..
850	31	1493	291·5	296	286	272·3	31	1511	291·8	295	287	280·9	17	1524	..	..	..	..
800	31	2009	287·8	292	281	269·2	31	2028	288·4	292	286	279·2	17	2019	276·8	283	272	273·5
700	31	3120	278·6	283	274	270·1	31	3149	282·3	285	278	271·3	17	3093	271·2	277	265	267·6
600	31	4361	269·8	274	265	..	31	4413	276·2	278	273	262·4	17	4303	264·3	269	259	..
500	31	5773	259·3	264	255	..	30	5866	268·4	273	263	..	13	5706	255·5	263	249	..
400	31	7430	247·3	251	241	..	30	7586	257·7	265	253	..	12	7346	244·4	247	239	..
300	31	9458	233·5	242	227	..	28	9693	241·6	249	237	..	5	9367	229·0	234	223	..
250	30	10669	226·1	237	218	..	26	10958	231·9	241	225	..	5	10570	221·6	227	215	..
200	30	12135	219·1	227	211	..	25	12440	220·3	229	216	..						
175	30	12989	217·7	223	211	..	24	13297	214·2	221	204	..						
150	30	13976	213·8	220	207	..	24	14247	207·9	215	200	..						
125	30	15092	209·7	217	204	..	22	15339	202·7	209	195	..						
100	30	16447	205·2	213	199	..	20	16654	198·5	204	195	..						
80	25	17803	204·5	212	199	..	13	17948	200·3	207	191	..						
70	24	18591	204·5	210	197	..	9	18768	203·4	209	193	..						
60	22	19533	207·5	215	200	..	6	19695	205·1	213	195	..						
50	20	20668	210·9	219	204	..												
40	16	22030	216·0	225	209	..												
30	8	23971	220·9	226	213	..												
20	6	26594	226·8	235	222	..												
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

March, 1964 (Phalguna 11, 1885—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1003 mb.)						VISHAKHAPATNAM Surf. Pr. (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	298·4	300	297	295·5	31	041	298·1	301	295	294·7
1000	31	084	..	..	..	..	31	100	..	..	..	..
900	31	1011	294·0	297	290	288·6	31	1024	296·7	300	294	282·8
850	31	1505	290·9	294	287	284·7	31	1520	293·8	297	291	278·7
800	31	2022	288·4	291	283	280·3	31	2042	289·8	293	286	283·3
700	31	3145	282·5	287	279	273·3	31	3163	281·2	285	276	273·3
600	31	4409	275·8	279	272	263·6	31	4418	273·7	278	269	259·3
500	31	5867	266·3	272	264	..	31	5859	266·7	273	263	..
400	31	7582	256·3	260	251	..	31	7572	255·4	261	251	..
300	31	9681	240.9	246	235	..	31	9664	239·8	245	232	..
250	30	10944	231·2	237	223	..	31	10923	230·9	237	222	..
200	29	12406	218·7	226	213	..	31	12395	220·0	226	212	..
175	26	13237	212·4	219	204	..	30	13234	214·5	220	207	..
150	26	14193	205·9	211	198	..	29	14203	208·5	215	200	..
125	24	15262	200·1	205	194	..	27	15286	203·9	210	195	..
100	23	16578	196·2	201	190	..	26	16634	200·4	209	190	..
80	18	17877	199·1	204	194	..	20	17913	199·2	212	194	..
70	13	18689	203·4	211	199	..	19	18720	200·4	214	194	..
60	10	19616	207·4	213	203	..	16	19631	203·9	216	193	..
50	9	20738	212·0	221	209	..	15	20706	207·5	218	197	..
40	5	22122	215.6	223	211	..	11	22071	211.4	223	203	..
30							7	23805	216.4	225	207	..
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hrs. G.M.T.

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Sufr. Pr. (1002 mb.)						ALLAHABAD/BAMHRAULI Surf. Pr. (996 mb.)						BANGALORE Surf. Pr. (907 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew pont			Mean	Max.	Min.	Dew point
Surface	31	055	310·0	312	305	286·8	31	098	307·6	311	303	281·3	31	921	304·2	306	300	285.3
1000	31	073	..	..	..	..	31	064	..	..	..	..	31	055	..	..	..	..
900	31	1016	300·5	305	294	280·0	31	1005	299·1	304	295	276·5	31	1002	303·2	305	300	283·8
850	31	1518	295·5	301	289	277·3	31	1504	294·1	300	289	276·2	31	1508	298·1	301	294	280·0
800	31	2041	290·3	296	283	274·9	31	2023	289·6	293	285	269·5	31	2035	293·0	296	288	278·3
700	31	3162	282·0	285	279	263·6	31	3143	281·1	284	277	259·3	31	3166	282·5	287	275	274·4
600	31	4418	273·6	279	269	..	31	4395	272·3	277	269	..	31	4430	275·7	279	272	..
500	31	5856	264·0	269	259	..	31	5826	262·3	268	259	..	31	5885	267·9	272	264	..
400	30	7543	251·9	257	247	..	30	7506	250·8	260	247	..	31	7600	256·0	259	253	..
300	29	9604	236·9	244	230	..	30	9558	236·0	245	230	..	25	9698	241·0	247	235	..
250	29	10848	228·0	235	220	..	30	10800	228·7	237	222	..	18	10965	231·2	236	225	..
200	28	12309	219·9	227	213	..	30	12273	221·9	228	215	..	14	12443	219·1	224	213	..
175	28	13166	215·8	224	208	..	30	13138	218·2	228	214	..	13	13292	213·8	218	210	..
150	27	14125	210·9	220	201	..	29	14119	213·9	219	208	..	10	14259	208·0	212	205	..
125	22	15251	206·3	214	199	..	27	15250	208·4	213	201	..	8	15339	202·9	205	200	..
100	21	16565	201·2	208	194	..	24	16599	203·9	209	196	..	7	16675	201·2	216	194	..
80	17	17862	201·5	208	193	..	23	17919	203·9	215	195	..	5	17912	198·6	203	195	..
70	14	18699	204·6	215	199	..	23	18725	205.7	215	198	..	5	18772	200·0	205	195	..
60	12	19655	208·6	219	203	..	18	19656	207·6	218	198	..						
50	6	20868	212·3	221	206	..	15	20778	211·1	221	204	..						
40	5	22000	217·8	222	208	..	6	22193	216·0	223	209	..						
30																		
20																		
10																		

	BOMBAY/SANTACRUZ Surf. Pr. (1007 mb).						CALCUTTA/DUM DUM Surf. Pr. (1007 mb.)						GAUHATI Surf. Pr. (1002 mb.)					
Surface	31	013	303·0	308	300	291·8	31	6	304·5	309	296	291·7	31	49	300·7	304	292	289·7
1000	31	079	..	..	..	..	31	065	..	..	..	..	31	068	..	..	..	..
900	31	1015	299·6	304	295	279·0	31	1001	298·3	303	294	281·5	31	991	295·0	299	291	282·0
850	31	1516	296·1	300	291	276·7	31	1499	294·5	299	291	278·0	31	1484	291·2	296	286	278·1
800	31	2041	292·4	296	287	275·0	31	2020	290·0	294	286	273·8	31	1998	287·0	292	280	275·1
700	31	3171	283·3	286	280	272·0	31	3141	281·5	285	277	263·0	31	3106	278·6	283	271	..
600	31	4435	275·0	279	271	..	31	4396	273·1	279	269	..	31	4345	270·8	279	266	..
500	31	5886	266·7	270	264	..	31	5833	264·6	270	261	..	31	5773	262·3	267	258	..
400	31	7590	254·9	261	251	..	31	7533	254·2	262	248	..	31	7453	251·0	257	246	..
300	30	9683	239·2	247	235	..	30	9619	240·0	247	233	..	27	9525	238·4	247	229	..
250	30	10937	230·4	237	225	..	28	10886	232·5	239	226	..	26	10777	231·5	243	222	..
200	30	12407	220·9	229	215	..	27	12379	223·0	228	217	..	24	12256	223·3	231	216	..
175	27	13264	215·1	223	209	..	23	13237	217·8	223	213	..	21	13136	218·2	226	209	..
150	26	14225	209·7	217	202	..	22	14208	212·8	219	207	..	20	14121	213·9	225	207	..
125	26	15338	204·9	213	199	..	19	15325	208·2	215	202	..	18	15253	207·8	217	202	..
100	26	16663	200·5	207	195	..	18	16649	203·2	213	198	..	16	16580	203·7	211	197	..
80	25	17968	198·2	203	191	..	9	17987	202·7	211	200	..	8	18075	202·4	210	196	..
70	22	18769	199·3	205	193	..	8	18820	205·0	213	199	..	7	18762	205.3	211	202	..
60	19	19710	202·5	208	193	..	6	19779	207·3	214	202	..						
50	18	20788	205·3	212	196	..	5	20955	212.2	217	205	..						
40	12	22077	208·1	214	201	..												
30	5	23796	209.8	217	206	..												
20																		
0																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (984 mb)						MADRAS/MINAMBAKKAM Surf. Pr. (1008 mb.)						MINICOY Surf. Pr. (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	307.6	311	302	280.7	31	015	303.5	306	301	295.4	31	002	301.4	304	299	296.6
1000	25	074	..	..	..	..	31	084	..	..	..	..	31	085	..	..	..	..
900	24	1019	301.1	305	297	275.6	31	1011	297.3	300	293	281.6	31	1012	294.4	297	292	288.3
850	24	1519	296.2	301	292	272.8	31	1509	294.2	297	289	279.0	31	1506	292.1	294	290	284.0
800	24	2036	291.0	297	287	271.2	31	2030	290.2	293	283	276.2	31	2025	289.1	293	286	279.5
700	24	3160	281.4	286	278	264.8	31	3153	282.5	287	277	269.7	31	3147	282.8	285	280	270.2
600	23	4412	272.9	277	270	..	31	4417	275.8	279	272	260.2	31	4411	275.2	279	273	264.1
500	23	5842	263.2	266	261	..	31	5870	267.1	271	262	..	31	5863	267.4	271	264	..
400	23	7526	251.7	255	249	..	31	7583	256.2	261	251	..	31	7576	256.4	259	254	..
300	21	9593	237.2	245	232	..	31	9680	240.1	245	230	..	30	9671	240.2	243	236	..
250	21	10837	229.0	235	222	..	31	10939	230.2	237	225	..	29	10929	230.6	236	227	..
200	21	12311	222.2	228	215	..	31	12411	218.5	226	213	..	26	12390	218.3	224	215	..
175	21	13175	218.2	224	206	..	29	13240	212.4	219	207	..	25	13220	212.2	219	208	..
150	19	14167	215.8	222	210	..	29	14193	206.1	213	197	..	25	14173	205.9	213	200	..
125	17	15295	210.9	219	206	..	27	15267	200.6	207	195	..	22	15244	200.5	208	195	..
100	14	16694	206.8	215	200	..	25	16576	196.1	201	191	..	21	16555	196.0	203	192	..
80	9	18045	205.3	211	198	..	21	17866	197.6	204	189	..	17	17854	198.8	206	194	..
70	7	18881	208.0	213	206	..	19	18653	198.7	205	186	..	16	18661	202.2	212	196	..
60	6	19824	212.0	213	210	..	18	19543	202.2	210	188	..	16	19554	204.7	212	196	..
50	..	..	..	..	..	..	16	20615	205.0	213	192	..	13	20663	207.9	215	197	..
40	..	..	..	..	..	..	6	21995	210.7	215	205	..	8	22042	208.4	219	200	..
30	..	..	..	..	..	..	..	..	..	..	..	..	5	23755	209.2	215	203	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NAGPUR/SONEGAON Surf. Pr. (972 mb.)						NEW DELHI/SAFDARJUNG Surf. Pr. (985 mb.)						PORT BLAIR Surf. Pr. (1001 mb.)					
Surface	31	311	308.9	312	304	280.9	31	209	303.0	308	297	281·3	31	079	301.6	303	300	296.3
1000	31	057	..	..	..	..	31	072	..	..	..	..	31	088	..	..	..	..
900	31	1008	302.8	306	299	277.6	31	1005	297.2	302	291	277.2	31	1010	294.5	297	291	290.5
850	31	1513	298.1	302	294	276.5	31	1496	293.0	298	287	274.7	31	1504	291.9	295	289	282.6
800	31	2040	293.1	297	290	275.7	31	2017	288.7	294	282	272.1	31	2021	289.6	293	285	279.1
700	31	3169	282.7	285	279	271.5	31	3129	280.2	287	274	263.1	31	3142	282.5	285	276	269.9
600	31	4426	272.5	278	261	..	31	4375	271.0	277	267	..	30	4405	275.8	280	270	..
500	31	5865	264.8	271	260	..	31	5795	260.4	265	256	..	30	5861	268.1	271	265	..
400	31	7559	252.3	259	246	..	31	7462	249.2	255	246	..	30	7583	257.7	261	253	..
300	31	9624	239.3	244	231	..	31	9501	235.1	244	230	..	26	9653	241.9	247	236	..
250	31	10866	227.9	235	222	..	31	10734	227.1	236	221	..	25	10558	231.8	243	224	..
200	31	12329	218.9	225	213	..	31	12198	220.8	228	215	..	23	12492	220.9	227	216	..
175	29	13169	214.4	219	209	..	31	13054	218.4	225	212	..	23	13300	214.0	221	209	..
150	29	14178	209.5	215	203	..	31	14034	215.5	224	208	..	20	14255	206.8	213	201	..
125	28	15234	205.5	212	200	..	30	15168	211.3	217	201	..	20	15351	200.8	207	194	..
100	28	16568	201.5	207	197	..	30	16533	206.8	217	197	..	15	16652	197.3	202	194	..
80	21	17902	201.1	208	194	..	30	17838	206.1	215	198	..	12	17979	198.3	207	195	..
70	18	18675	200.7	207	193	..	30	18684	207.0	218	200	..	9	18789	201.0	212	191	..
60	15	19588	203.1	209	194	..	26	19621	209.0	217	203	..	7	19639	204·3	207	202	..
50	12	20677	206.3	213	196	..	20	20737	212.9	221	207	..	..	..	..	..	..	..
40	5	22054	212.2	218	205	..	14	22180	216.1	220	210	..	..	..	..	..	..	..
30	..	..	..	..	..	..	12	24025	221·6	227		..	..	..	..	..	..	..
20	..	..	..	..	..	..	8	26729	224·1	228	221	..	..	..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

March, 1964 (Phalguna 11, 1885 Saka—Chaitra 11, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (842 mb.)						TRIRVANDRUM (1001 mb.)						VISHAKHAPATNAM (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm	Temperature° A				No. of obs.	Ht. gpm	Temperature° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	1588	286·5	293	277	279·1	31	064	303.2	305	298	296.6	31	41	302·6	304	301	297.0
1000	21	118	..	..	..	..	31	071	..	..	..	..	31	081	..	..	..	..
900	21	1027	..	..	..	..	31	1002	295.4	299	292	290.3	31	1011	298.0	303	295	281.5
850	21	1510	..	..	..	..	31	1498	292.4	295	289	288.1	31	1510	295.2	299	293	278.6
800	21	2016	282·1	289	274	214·1	31	2016	289.1	293	285	284.5	31	2034	291.1	296	287	277.6
700	21	3111	275·0	281	269	..	31	3140	283.2	287	279	273.8	31	3156	282.6	286	277	273.2
600	21	4337	267·0	273	261	..	31	4410	275.7	279	269	..	30	4420	274.6	280	270	..
500	21	5737	256·1	263	251	..	31	5867	267.5	273	262	..	30	5867	266.7	271	260	..
400	20	7363	244·5	253	241	..	31	7583	256.2	261	251	..	30	7580	255.8	263	249	..
300	16	9395	231·0	238	225	..	31	9685	241.1	245	237	..	30	9674	240.3	248	231	..
250	13	10632	223·6	231	217	..	31	10946	230.3	236	219	..	30	10932	230.7	240	220	..
200	8	12106	218·3	222	213	..	30	12414	218.1	224	213	..	30	12408	219.9	225	214	..
175	6	13016	217·0	220	212	..	29	13252	212.3	217	207	..	29	13233	215.7	220	209	..
150							29	14205	206.2	210	200	..	29	14212	209.6	215	205	..
125							28	15237	197.1	205	191	..	25	15299	205.0	209	201	..
100							25	16617	197.6	204	191	..	23	16640	200.3	205	196	..
80							21	17940	199.0	209	190	..	18	17878	199.2	207	191	..
70							20	18739	202.5	211	192	..	15	18719	199.4	205	191	..
60							17	19637	206.9	215	196	..	13	19615	201.3	209	193	..
50							16	20749	210.8	218	201	..	12	20696	205.4	211	198	..
40							6	22113	215.0	220	209	..	7	22027	208.0	218	202	..
30																		
20																		
10																		

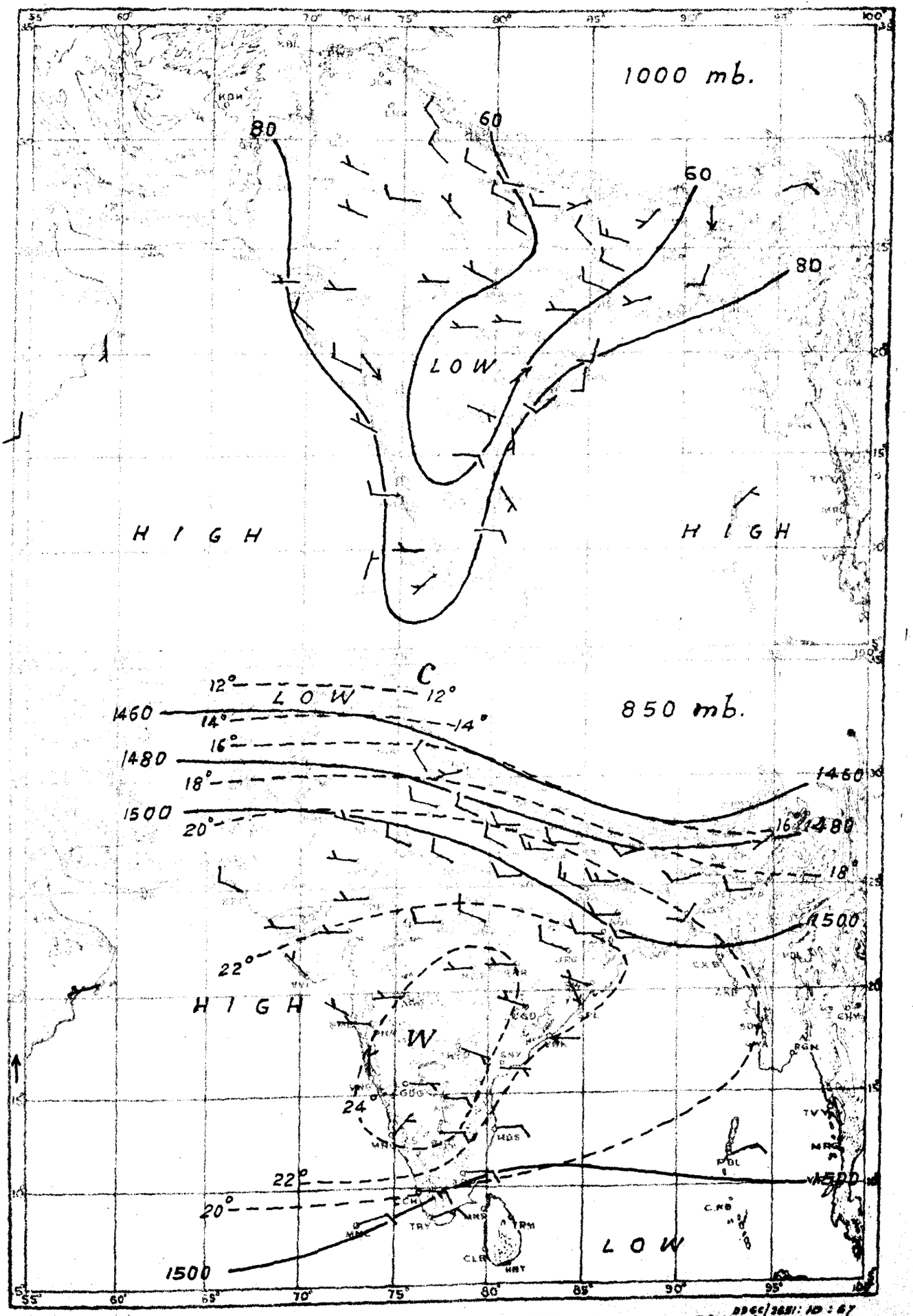
NOTE:—Number of observations refer to those of dynamic height. Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S2—409 D. D. G. Obs. (P.)/67—3-6-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. MARCH 1964 Plate I

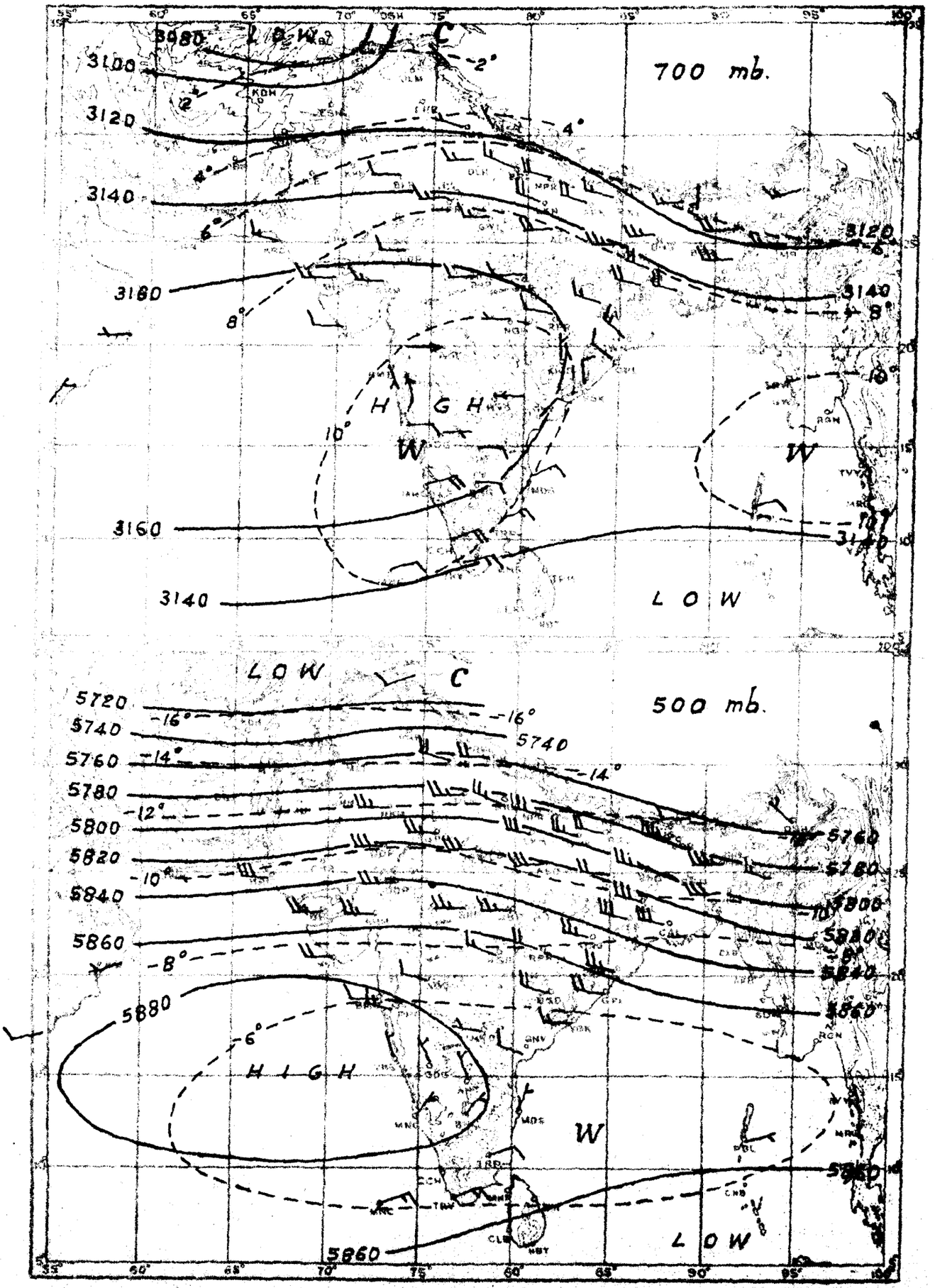


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **MARCH 1964** Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

Errata to M.W.R. for the quarter April to June 1964.

Page	Item/Station	Hour	Column	For	Read
APRIL 1964 - SURFACE DATA					
Table II					
184	Angul	-	11	34.2	34.6
184	Kheri	-	25	1	2
184	Bahraich	-	22	0	1
184	Lucknow	-	17	Blank	4.2
"	Gorakhpur	-	12	-8.1	+1.8
"	Kanpur	-	17	Blank	18.2
"	Ballia	-	13	Blank	0
"	Varanasi (Babatpur)	-	20(b)	1	0
185	Adampur (Aerodrome)	-	8	10.4	8.9
"	Adampur (Aerodrome)	-	10	0	3.3
"	Adampur (Aerodrome)	-	13	11.7	9.1
"	Adampur (Aerodrome)	-	15	2	3
"	Adampur (Aerodrome)	-	16	+0.1	...
"	Ludhiana	-	23	0	2
"	Ferozepur	-	25	0	1
"	Halwara (Aerodrome)	-	23,25	0	7,2
"	Ambala	-	23	0	1
"	Patiala	-	12	-2.9	+2.9
"	Patiala	-	22	0	1
"	Bhatinda	-	9	1,8	1,18
"	New Delhi (Safdarjung)	-	28	0	1
"	Dras	[illegible]	20(b), 21	6,0	7,13
"	Leh	-	21	0	4
"	Srinagar (Aerodrome)	-	22,25	0,1	1,0
"	Qazigund	-	20(a)	0	2
"	Mahajan	-	17	12.6	13.2 (k)
"	Phalodi	-	25	0	2
"	Foot note	-	Add "K = mean of 20 days ".		
186	Nimach	-	23	6	0
"	Seoni	-	2	40.1	40.0
"	Pendra	-	23	3	5
187	Marmugao	-	13	Blank	0
"	Kolhapur	-	6	25.5	21.5
"	Aurangabad	-	20(b)	Blank	0
"	Foot note	-	Add '* closed from 1.4.1964'.		
188	Anantapur	-	19	-3.3	-0.3
"	Cuddapah	-	15	0	..
"	Karwar	-	9	27	..
189	Bangalore	-	14	36	26
"	Katmandu	-	6,8	12.3,8.1	12.5,8.3
"	Tilaiya	-	9	6.7	6,7
190	Sellyana	-	20(a)	0	..
"	Gangtok	-	2	20.9	20.6
TABLE III					
191	Dibrugarh/Mohanbari	0830	12	2	-2
"	Sibsagar	0830	8	21.5	21.2
"	Sibsagar	1730	10	28.4	23.4
"	Jorhat (Aerodrome)	1130	10	25.5	22.5
"	Rangia	0830	3	58	60
193	Shanti Niketan	1730	8	25.5	22.5
"	Sandheads	0830	4	1007.3	1007.2

Page	Item/Station	Hour	Column	For	Read
194	Ranchi Aerodrome	1430	25	2	6
"	Ranchi Aerodrome	1730	25	6	2
195	Forbesganj	1730	9	17.0	17.9
"	Gaya	1730	5	998.8	988.8
196	Lucknow (Amausi)	1730	26	2	12
"	Lucknow (Amausi)	2030	2	2030	*2030
"	Lucknow (Amausi)	2330	4	1004.8	1004.2
"	Faizabad	0830	28	0	1
"	Gorakhpur P.B.0	0230	13	1.1	1.0
"	Gorakhpur P.B.0	0530	10	17.2	17.6
"	Banda	0830	28	1	0
"	Allahabad (Bamhrauli)	1130	8	20.8	20.7
"	Varanasi (Babatpur)	1730	15&18	79.2,16	19.2,15
"	Foot note	-	-	Give "*Observations for 29 days".	
197	Roorkee	0830	3	247	274
"	Najibabad	1730	15	6.7	5.5
"	Najibabad	1730	25	Not clear	13
"	Bareilly	1730	4	1001.7	1001.5
"	Agra (Aerodrome)	1730	8	20.7	21.7
"	Orai	0830	15	0.3	2.6
"	Pathankot	0530	8,9	15.7,9.3	15.3,9.7
"	Amritsar (Rajasansi)	1430	9	9.6	9.1
198	First Station under Sub-division Punjab (India) (including Delhi).		1 & 2	Blank, 0230	Ambala P.B.0., 2330
"	Ambala (Aerodrome)	0530	18	22	23
"	Ambala (Aerodrome)	1730	15	2.0	20.0
"	New Delhi (Safdarjung)	0830	4	1006.0	1006.3
"	New Delhi (Safdarjung)	0830	15	2.1	9.1
"	New Delhi (Safdarjung)	2030	5	979.2	979.7
"	Mandi	1730	4	1003.1	1003.5
"	Srinagar	0830	15	2.1	3.3
"	Srinagar (Aerodrome)	1130	4	1502.8	1508.2
199	Qazigund	0830 & 1730	3	2655,"	..
"	Jammu (Aerodrome)	1730	7	21.2	31.2
"	Mahajan	0830	17	1	0
"	Churu	0830	26	3	2
"	Churu	1730	25	13	12
"	Bikaner	0830	8 & 19	17.8 & 3	17.0 & 2
"	Phalodi	0830	17 to 27	existing figures	0; 29; 3; 1;1;2;6; 10;4;2;1
"	Phalodi	1730	17 to 27	existinf figures	2,28,1,2,0,0,0,6, 15,6,0
"	Jodhpur	0830	6	0.2	-0.2
200	Jaipur (Sanganer)	2330	2	0230	2330
"	Dholpur	0830	2	2330	0830(Read this against Dholpur)
"	Ajmer	0830	15	7.4	7.9
202	Champa	1730	10	Blank	11.6
"	Raigarh	1730	8	Not clear	21.6
"	Deesa	0830	6	1.1	-1.1
203	Okha	2330	28	Blank	0
"	Jamnagar	0530	3	23	20
"	Jamnagar	All hours	4	-	Reduce pressure values by 0.3 mb.
"	Jamnagar	0530	28	Blank	0

Page	Item/Station	Hour	Column	For	Read
203	Keshod	All hours	4 & 5	-	Reduce pressure values by 0.2 mb.
204	Bombay (Santacruz)	1730	3	15	14
"	Baramati	0830	23	11	1
206	Visakhapatnam	2330	11	32	82
"	Ongole	0830	2	0530	0830
"	Ongole	0830	18	28	29
"	Nellore	1130	13	7.3	2.3
"	Ramgundam	0830	14	-0.2	-2.0
"	Hyderabad (Begampet)	1730	15	3.2	8.2
207	Mahbubnagar	1730	5	937.9	947.9
"	Madras (Minambakkam)	1130	22	15.	5
"	Madras (Minambakkam)	1730	21	Not clear	2
"	Madras (Minambakkam)	2030	21	2	0
"	Kallakurichchi	1730	17	0	2
"	Coimbatore (Pilamedu)	1130	12	+8	--
"	Nagapattinam	1730	13	2.5	2.6
208	Tiruchchirapalli	0830	22	Blank	9
"	Tirhchchirapalli	2330	21	Blank	5
"	Tuticorin	0830	25	0	6
"	Kanniyakumari	1730	9	24.2	24.7
209	Balehonnur	0830	8	1.6	21.6
"	Hassan	0830	8	0.5	20.5
"	Fort Cochin	1730	17	Blank	1
210	Nainital	0830 & 1730	4	-	Delete data.
"	Kalimpong	0830	3	Blank	1209
"	Darjeeling	0830	3	Blank	2128
"	Kohima	0830	3	2128	1406
"	Kohima	1730	13	6.2	7.2
"	Shillong	0830	3	1406	1500
"	Cherrapunji	0830	3	1500	1313
"	Abu	0830	3	1313	1195
"	Aijal	0830	3	1195	-
"	Pachmarhi	0830	3	Blank	1075
211	Ootacamund	0830	7	19.9	16.7
"	Ootacamund	1730	7	16.4	19.6
"	Kodaikanal	1130	7	9.9	19.9
"	Kodaikanal	1730	7	56.4	16.4
"	Bokaro	0830	4	1009.9	1009.0
"	Ramgarh	0830	10	19.0	19.6
"	Ginabahar	0830	9	Not clear	10.9
212	Taplejung	-	1	Taplejung	Taplejung *
"	Foot note	-	-	Add the following foot notes:-	
				* Wind speed and direction estimated. (c) Meanof 28 days.	(d) Mean of 27 days.

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
Tables IV to VI - Upper air data						
214	Bareilly	Time	1730	-	173	1730
218	Bhubaneshwar	v	1130	1.5	7.4	4.4
220	Cochin	D	1730	1.5	280	080

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
221	Gadag	v	2330	4.5	6.5	6.6
221	Gauhati	v	1730	5.4	1.50	15.0
222	Gopalpur	v	2330	2.1	1.5	1.9
223	Jamshedpur	D	0530	1.5	289	281
226	Nagpur	D	1730	4.5	346	316
227	Srinagar	V	0530	0.15	1.8	1.5
228	Tiruchchirappalli	v	0530	0.3	2.8	2.1
228	Tiruchchirappalli	v	2330	Surface	3.	3.3
231	Minicoy	Time	1730	-	1730	1730*
231	New Delhi	n	0530	12.0	25	27
231	Trivandrum	D	1730*	24.0	253	255
233	Calcutta	Ht	00 GMT	800 mb	19491	1949
234	Jodhpur	Ht	00 GMT	850 mb	474	1474
234	Nagpur	Ht	00 GMT	900 mb	998	978

MAY 1964 - Surface data

Page	Item/Station	Hour	Column	For	Read
239	Chief features	3rd para 3rd line		Late	Lat.
241	Chief features	-	For item 3 & 4 under period	15th,18th&21st, 24th	15th-18th & 21st-24th
	Table I (Division)				
242	12. Andhra Pradesh	-	5	23.8	28.3
	Table I (Sub-division)				
242	3. Sub.Himalayan West Bengal.	-	2	-97.8	-97.3
242	4. Gangetic West Bengal	-	2	-26.5	-28.5
242	4. Gangetic West Bengal	-	4	38.2	36.2
	Table II				
243	Maya Bandar	-	28	Blank	0
"	Port Blair	-	13	106.9	106.8
"	Kondul	-	28	Blank	0
"	Pasighat	-	28	Blank	0
"	Dibrugarh (Mohanbari)	-	28	Blank	0
"	North Lakhimpur	-	28	Blank	0
"	Sibsagar	-	12	+129.8	-129.8
"	Rangia	-	10	30.2 (e)	302 (e)
"	Rangia	-	20(a)&20(b)	0;0	-;-
"	Gauhati (Bhorjor)	-	2	31.0	31.1
"	Dhubri (Rupsi)	-	2	31.1	31.0
"	Agartala	-	16	-1.9	+1.9
"	Baghdogra	-	16	+1.1	-1.1
"	Bankura	-	24 & 25	1 & 0	0 & 1
244	Patna Aerodrome	-	10	Not clear	48.3
"	Kheri	-	22	0	1
245	Faizabad	-	21 & 25	3 & 0	0 & 3
"	Varanasi	-	22,23	0,1	1,2
"	Tehri	-	10	16.2	15.2
"	Najibabad	-	23 & 25	9 & 0	4 & 9
"	Bareilly	-	22	1	2
"	Jhansi	-	9	13	12
"	Ferozepur	-	10	6.0	7.4
"	Halwara (Aerodrome)	-	5,22	1.0	3.1

Page	Item/Station	Hour	Column	For	Read
245	Halwara (Aerodrome)	--	5,22	1,0	3,1
245	Ambala(Aerodrome)	-	22	0	1
"	Patiala	-	22	0	1
"	Hissar	-	11,12	26.2, +12.5	26.3, +12.6
"	New Delhi (Safdarjung)	-	28	0	7
246	Dras	-	20(a),20(b), 21	0, 4, -	2, 2, 5
"	Sonamarg	-	1	Sonamarg	Sonamarg (R)
"	Srinagar (Aerodrome)	-	27,28	1,0	0,1
"	Jodhpur	-	20(b)	4	3
"	Erinpura (Jawai Dam)	-	9	13,9	13,29
"	Sikar	-	5	5	5 days
"	Jaipur (Sanganer)	-	7	+1.0	-1.0
"	Ajmer	-	17	--	16.6
"	Kota Aerodrome	-	19	+3.5	--
"	Kota	-	19	--	+3.5
247	Raigarh	-	19	-0.0	0
"	Mandvi	-	12	-3.0	0
249	Madras	-	20(a)	2	0
"	Madras (Minambakkam)	-	19	+1.0	+0.1
"	Salem	-	11	234.3	234.4
"	Coimbatore (Pilamedu)	-	28	Blank	1
"	Belgaum	-	11	38.0	38.8
250	Lokpal	-	2,4,6,8	31.1,36.6,20.2, 18.4	-0.5,2.6,-6.6,-7.6
"	Darjeeling	-	12	-12.0	-102.0
250	Katmandu	-	6 & 8	13.9, 10.4	14.1, 10.6
251	Bhimkund	-	11	180.0	189.0
"	Bagra Tawa	-	5	Not clear	1 (h)
"	Angbung	-	6	15.5 (h)	15.5
TABLE III					
252	Gohpur	0830	28	0	3
"	Golaghat	0830	28	Blank	0
"	Golaghat	1730	27	2	12
"	Foot note	-	-	Temporarily Closed	* Temporarily closed.
"	Foot note	-	-	(1) Mean of	(1) Mean of 19 days.
253	Lumding	0830	10	25.3	25.8
254	Shanti Niketan	1730	5	933.9	993.9
"	Krishnanagar	1730	25	Blank	0
"	Calcutta (Dum Dum)	2330	4	1993.4	1003.4 (correct the spelling of Dum Dum)
255	Bhubaneshwar	0830	6	+0.	+0.8
"	Ranchi Aerodrome	1430	4 & 5	Not clear	999.0, 930.2
"	Ranchi Aerodrome	1730	27	Blank	0
"	Jamshedpur	0830	27	Blank	2
256	Jamshedpur	1730	4 & 5	988.6 & 994.7	998.6 & 984.7
"	Gonda	0830	13 & 14	1.9 & +0.4	1.8 & +0.3
257	Lucknow (Amausi)	1430	5	986.5	986.7
"	Lucknow (Amausi)	2330	15	3.3	3.0
"	Sultanpur	0830	9	24.9	18.9
"	Ballia	0830	5	988.0	998.0
"	Allahabad (Bamhrauli)	0830 & 1730	14	-- & 0	0 & --
"	Allahabad (Bamhrauli)	1430	8	20.4	22.4
"	Allahabad (Bamhrauli)	2330	7	Not clear	29.4

Page	Item/Station	Hour	Column	For	Read
257	Varanasi	1730	24	1	0
"	Mukhim	1730	28	0	1
"	Foot note	-	-	-	Add " (a) Mean of 30 days. (i) Mean of 22 days.
258	Uttar Pradesh (West)	-	1	-	Read U.P. (West) in place of U.P. (East).
"	Mansiari	0830	10	8.3	8.1
"	Najibabad	0830	8	19.	19.8
"	Meerut	0830	9	14.9	14.3
"	Mainpuri	0830	12	-1	+2
"	Agra (Aerodrome)	2330	15	10.0	9.0
"	Jhansi	0830	27	Not clear	9
"	Ludhiana	1730	9	9.	9.7
259	Ambala P.B.O.	2030	4	1000.4	1000.3
"	New Delhi (Safdarjung)	2030	7	31.4	31.8
"	Palam (Aerodrome)	0530	5	975.6	975.8
"	Mandi	0830	28	Blank	0
260	Leh	0830	6	0.1	-0.1
"	Leh	1730	4 & 5	-	delete data
"	Srinagar	1730	2	0730	1730
"	Srinagar	1730	13 & 15	1.5 & 4.5	4.6 & 4.8
"	Qazigund	0830 & 1730	3	,,	--
"	Banihal	0830 & 1730	3	,,	--
"	Jammu (Aerodrome)	2330	8	16.4	16.6
"	Ganganagar	1130	8 & 9	22.2 & 11.0	22.0 & 11.5
"	Ganganagar	2330	16	Blank	0
"	Bikaner P.B.O.	0530	13	0.6	0.8
261	Barmer	0830	12	+1.0	+10
"	Barmer	0530	27	Not clear	2
"	Pilani	0830	2	1730	0830
"	Chambal	1730	2	0830	1730
		Hours of observations for all the stations in between Pilani 0830 hours and Chambal 1730 hrs. have been shifted by one space below. All these hours may be shifted above by one space each.			
"	Sikar	0830	13	0.6	0.0
"	Gwalior	1130	4	1002.2	1002.9
"	Gwalior	2330	11	3	33
"	Foot note	-	-	(a) Mean of 29 days	(b) Mean of 29 days
262	Bhopal (Bairagarh)	-	1	Not clear	Bhopal (Bairagarh)
"	Stana	-	1	Satra	Satna
264	Broach	0830	14	+0.1	+1.0
"	Bhuj (Rudramata)	1130	15	33.7	23.7
"	Jamnagar Aerodrome	0530	3	23	20
"	Jamnagar Aerodrome	All hours	4	-	Reduce sea level pressure values by 0.3 mb.
"	Bhaunagar Aerodrome	0830	14	+0.7	-0.7
"	Keshod	All hours	4 & 5	-	Apply a correction of -0.2 mb to all pressure data.

Page	Item/Station	Hour	Column	For	Read
265	Dahanu	0830	2	0830	0830 *
"	Foot note	-	-	-	Add " * Wind direction for 27 days".
"	Dahanu	0830	15	(d) 12.9	(a) 12.9
"	Bombay (Santacruz)	0230	3	15	14
"	Bombay	0830	5	1007.8	1007.5
"	Bombay	1130	5	1507.8	1007.8
266	Baramati	0830	18	20	2
267	Amraoti	1730	7	40.0	40.4
"	Chanda	0830	6	-0.1	-1.0
"	Pusad	-	1	Pasad	Pusad
"	Pusad	0830	17	4	14
"	Pusad	1730	17	16	6
"	Sironcha	0830	6	+0.3	-0.3
"	Kalingapatam	1730	24	11	14
"	Nellore	0530	9	2.7	22.7
"	Nellore	0830	9	2.3	22.3
268	Hakimpet Aerodrome	1130	13	2.5	2.9
"	Anantapur	0530	5	996.4	966.4
"	Vellore	0830	5	982.1	982.7
"	Vellore	1130	5	982.4	982.0
269	Cuddalore	0830	4	1000.3	1006.3
"	Cuddalore	2330	2	0230	2330*
"	Kanniya Kumari	0830	7	29.3	29.4
"	Karwar	0830	9	25.2	25.3
270	Honawar	0830	7	21.9	29.1
"	Belgaum (Samra)	0830	20	Blank	0
"	Chitradurga	0830	3	.773	733
"	Bangalore	1430	13	Not clear	3.9
271	Bangalore Aerodrome	2330	9	28.0	20.0
"	Cochin (Naval Air Station)	-	1	-	Delete name Ramgarh
271	Trivandrum	0230	10	35.0	30.0
"	Trivandrum	2330	13	4.0	4.6
"	Trivandrum Aerodrome	-	1	Trivandrum*	Trivandrum Aerodrome
"	Trivandrum Aerodrome	0830	11	85	75
"	Minicoy	0530	3	1	2
"	Dharmsala	0830	3	1121	1211
"	Dharmsala	0830	9,18	6.3, 7	6.8, 27
"	Dharmsala	1730	9	6.4	6.3
"	Dharmsala	1730	24 to 27	existing figures	27, 0, 3, 1
"	Simla	1730	4	1455.2	1455.5
"	Lokpal	0830	1	Lokpal	Lokpal (R)
272	Nainital	0830	11	39	44
"	Nainital	1730	11	36	44
"	Darjeeling	0830	4	1407.4	1497.4
"	Kohima	1630	2	1630	1630 ‡
"	Katmandu	0830	5	865.5	865.0
"	Foot note	-	-	-	Add " ‡ 1630 hours observations were taken due to curfew".
273	Hirakud	1130	11	37	36
"	Khijrawan	1730	16,17	--,--	0, 0
"	Bagra Tawa	0830 & 1730	16, 17	--,--	0, 0
"	Timure	0830	1	Timme	Timure
"	Pokhara	1730	28	1	0
"	Chautara	1730	11	Blank	55
274	Foot note	-	-	(b)Mean of 30 days	(b)Mean of 29 days.

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV TO VI UPPER AIR DATA						
277	Agartala	D	1730	5.4	286	276
277	Ahmedabad	v	1130	Surface	3.8	3.4
279	Aurangabad	v	2330	3.0	0	2.0
279	Aurangabad	D	2330	3.0	9	292
279	Aurangabad	D	2330	3.0	3	338
279	Bangalore	v	1730	3.0	5.4	5.5
279	Begampet	D	0530	3.0	01	001
280	Begampet	n	2330	0.15 a.g.	30	31
280	Bhagalpur	Time	1730	-	1730*	1730
280	Bhopal	n	2330	4.5	9	1
282	Dibrugarh	v	1730	0.15 a.g.	3.0	0.3
287	Minicoy	Time	1130	-	1130*	1130
287	Minicoy	Time	1730	-	1730	1730*
288	Port Blair	v	1130	1.5	4.7	4.1
290	Udaipur	D	2330	7.2	31	315
292	Bombay	Time	-	-	1730	1130
292	Bombay	Time	-	-	1130*	1730*
299	Jodhpur	Mean	00 GMT	60 mb	201.1	207.1
299	Port Blair	Mean	00 GMT	125 mb	202.9	202.0

JUNE 1964 - SURFACE DATA

Page	Item/Station	Hour	Column	For	Read
Table I - Division					
303	15. Kerala	-	2	-312.3	-312.2
Table II					
305	Hardoi	-	20(b)	2	3
"	Lucknow	-	22,23,25	4,0,2	0,2,0
"	Gorakhpur	-	17,18,19	4.5,2.3,-2.2	delete the data
"	Kanpur (Aerodrome)	-	28	0	3
"	Kanpur (Aerodrome)	-	9	1,23	1,23,28
"	Sultanpur	-	9	28	1
306	Varanasi	-	11	108.3	108.0
"	Najibabad	-	23,25	8,5	5,3
"	Ludhiana	-	21,23,25	1,6,0	0,1,6
"	Ambala	-	6	6.4	26.4
"	New Delhi (Safdarjung)	-	28	0	4
"	Dras	-	21	-	1
"	Sonamarg	-	11 to 16 & 20(a) & 20(b)	-	delete the data
"	Srinagar (Aerodrome)	-	24 & 28	0 & 0	1 & 1
"	Gulmarg	-	22	0	4
"	Foot note	-	-	-	Add "Data of Sonamarg rejected".
307	Ganganagar	-	19	-2.	-2.9
"	Mahajan	-	17	15.2	13.5
"	Ajmer	-	10	17.3	17.1
"	Bhilwara	-	5	1	5,8,20
"	Rajgarh	-	22	Blank	0

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Page	Item/Station	Hour	Column	For	Read
307	Sagar	-	22	Blank	0
"	Satna	-	16	+3.3	-3.3
"	Satna	-	20(a)	Blank	1
"	Sidhi	-	20(b)	0	10
308	Ratnagiri	-	20(a)	Blank	0
"	Marmugao	-	1	Marmu	Marmugao
309	Ongole	-	20(a)	..	0
"	Madurai (Aerodrome)	-	13	56.	56.4
310	Agumbe	-	6	9.6	19.6
311	Katmandu	-	6,8	18.7,14.3	18.9,14.5
"	Bagra Tawa	-	10	82.9	32.9
312	Chautara	-	15	23	13
TABLE III					
313	Tangla	0830	13	4.	4.2
314	Agartala	1130	7	29.	29.8
"	Agartala	1430	14	-0.2	--
315	Asansol	0530	88	8	0
316	Angul	0830	4	1000.3	1000.2
"	Ranchi	0830	23	Blank	4
317	Chapra	1730	4	995.0	995.9
"	Lucknow (Amausi)	1430	10	20.4	22.4
"	Lucknow (Amausi)	1730	27	7	2
"	Faizabad	1730	18	25	24
"	Heading	-	8	Blank	Wet Bulb
318	Gorakhpur	0830	15	2.1	2.3
"	Gorakhpur P.B.O.	2030	4	986.5	996.5
"	Azamgarh	1730	8	32.9	33.9
"	Allahabad (Bamhrauli)	0830	7	30.3	33.6
"	Meerut	0830	15	0.9	9.0
319	Mainpuri	1730	10	23.7	23.9
"	Adampur (Aerodrome)	0830	15	7.1	17.0
"	Chandigarh	0830	15	2.4	2.0
"	Chandigarh	1730	15	3.2	3.0
"	Ambala	1730	13	1.6	0.0
320	Hissar	2330	5	972.3	972.5
"	New Delhi (Safdarjung)	0830	15	16.7	16.2
"	Palam (Aerodrome)	0230	3	230	233
"	Banihal	0830	11	Not clear	55
"	Banihal	0830	27	25	24
321	Mahajan	1730	15	(e) 7.9	(c) 7.9
"	Bikaner P.B.O.	2330	19	Blank	1
"	Nagaur	1730	17	Blank	2
"	Barmer	2330	7	23.3	32.3
"	Barmer	2330	24	Blank	11
"	Munabao	-	1	Munabao	Munabao (R)
"	Pilani	-	1	-	delete (R)
"	Sikar	0830	23	Blank	0
"	Jaipur (Sanganer)	0830	12	-2	-3
322	Kota	1730	11	3	34
"	Gwalior	2030	10	18.0	18.9
"	Nowgong	0830	23	0	2
"	Nowgong	1730	7	27.2	37.2
"	Guna	0830	5	943.2	948.2
"	Guna	0830	22	2	0
323	Mandla	0830	14	+0.7	-0.7
"	Foot note	-	-	-	Add "* Height provisionally calculated".

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Page	Item/Station	Hour	Column	For	Read
324	Dohad	0830	6	+0.5	-0.5
"	Baroda	1130	9	33.2	23.2
"	Baroda	1730	13	3.	3.0
"	Kandla Aerodrome	1130	16	Blank	0
325	Surendranagar	0830	5	994.	994.1
"	Jamnagar	0530	3	23	20
"	Jamnagar	All hours	4	-	Reduce sea level pressure values by 0.3 mb.
"	Dwarka	0830	24	Not clear	6
"	Bhaunagar Aerodrome	1730	5	9997.8	997.8
"	Keshod	All hours	4 & 5	-	Apply a correction of -0.2 mb. to all pressure data.
"	Bombay	1130	15 & 18	.5 & 2	6.5 & 28
326	Devgarh	0830	6 & 9	0.4 & 24.0	-0.4 & 25.0
"	Marmugao	1130	18	3	13
"	Jalgaon	0830	13	6.6	5.6
327	Aurangabad (Chikalthan)	1130	25	18	19
"	Bramhapuri	0830	28	Blank	0
"	Sironcha	0830	27	5	2
328	Hyderabad (Begumpet)	1130	9	19.2	18.2
329	Kallakkuruchchi	0830	28	Blank	0
330	Tondi	-	1	Ton	Tondi
"	Mangalore	1730	10	31.0	30.0
"	Bidar	1730	9	20.7	20.0
331	Punalur	1730	10	3.0	30.0
"	Trivandrum	0830	23	Blank	0
332	Mukteswar (Kumaon)	0830	28	Blank	0 (b)
"	Aijal	1730	15	5.8	5.8
"	Katmandu	1730	24	5	4
333	Khudi Bazar	1730	11	Blank	70

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
Tables IV to VI Upper air data						
338	Anantapur	D	0530	5.4	504	004
338	Anantapur	V	2330	0.9	11.3	12.3
339	Bareilly	D	1730	2.1	32	302
340	Bhopal	v	0530	Surface	4.4	4.3
341	Bombay	V	1730	4.5	8.0	7.0
342	Dibrugarh	D	1730	Surface	09	059
343	Gauhati	D	1730	0.15 a.g.	342	347
345	Jabalpur	D	1730	9.0	535	235
346	Lucknow	D	1730	7.2	3.3	303
346	Lucknow	D	1730	9.0	06	065
347	Mangalore	n	0530	6.0	5	4
348	New Delhi	n	1130	7.2	9	6
352	Asansol	Time	1730	-	1.30	1730
352	Bahraich	Time	-	-	0530	1130
352	Bangalore	Time	-	-	1130	0530
352	Bangalore	D	0530	10.5	93	093

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Page	Station	Item	Hour	Level	Wrong entry	Correct entry
352	Bangalore	v	0530	12.0	2.3	22.3
352	Bangalore	v	0530	14.1	5.0	25.0
352	Bombay	D	1730	14.1	199	099
352	Minicoy	Time	1130	-	1130*	1130
353	Nagpur	v	0530	18.0	10.6	10.0
355	Heading	Time	12 GMT	-	0000 GMT	1200 GMT
357	Visakhapatnam	Ht.	12 GMT	700 mb	099	3099
357	Visakhapatnam	Maximum	12 GMT	150	-	216
357	Visakhapatnam	Maximum	12 GMT	125	-	209
357	Visakhapatnam	Maximum	12 GMT	100	-	206
359	Madras	Height	00 GMT	1000 mb	024	028

SG.9-9

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

April

Published by authority of the Government of India

Chief features:

(i) Pronounced seasonal thundershower activity in Assam and other parts of northeast India;

(ii) Movement of seven western disturbances across north India causing spells of precipitation over northwest India;

and (iii) Spells of thunderstorm activity over most parts of the Peninsula.

Last month's western disturbance over Rajasthan and the adjoining Punjab(I) moved away slowly eastwards across Assam by 4th. Under its influence, the seasonal thundershower activity over Assam became more marked. This was followed by four western disturbances in regular sequence till the middle of the month. Of these, the second and third western disturbances were feeble and moving eastwards across the extreme north of the country caused only a few very light showers of rain or snow in Jammu and Kashmir. The first and fourth disturbances were, however, fairly active and moved away eastwards across the Western Himalayas causing fairly well distributed precipitation in northwest India outside Rajasthan and also in west Uttar Pradesh. The sixth western disturbance which was feeble affected the weather over Jammu and Kashmir. The fifth and seventh disturbances were fairly active and took a more southerly course across the Gangetic Plains. The details regarding the movement and activity of the various western disturbances are given in the accompanying statement.

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING APRIL, 1964

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1.	1st—4th	Afghanistan-Northern divisions of West Pakistan-Western Himalayas.	Jammu and Kashmir	Fairly widespread rain or snow	3rd	
			Himachal Pradesh	Fairly widespread rain or snow	3rd	
			Punjab (I)	Local/scattered rain	3rd, 4th	
			West Uttar Pradesh	Scattered/local rain or snow	3rd, 4th	
2.	5th—8th	Baluchistan and south Afghanistan—West Pakistan-Jammu and Kashmir	Jammu and Kashmir	Scattered very light rain or snow	7th	Feeble
3.	9th—11th	West Pakistan—The Punjab (I)—Jammu and Kashmir	Jammu and Kashmir	Scattered very light rain or snow	10th, 11th	Feeble upper air trough
4.	11th—14th	Afghanistan-Western Himalayas	Jammu and Kashmir	Local/scattered rain or snow	12th, 13th	
			Himachal Pradesh	Local rain	13th	
			Punjab (I)	Scattered rain	13th	
			West Uttar Pradesh	Scattered rain	14th	
5.	14th—20th	Baluchistan and south Afghanistan—West Pakistan-Rajasthan—Uttar Pradesh-Assam	Jammu and Kashmir	Scattered/local rain or snow	15th, 16th, 17th	Fairly active; but weakened after 16th
			Himachal Pradesh	Local rain	16th, 17th	
			Punjab (I)	Local/scattered rain	16th, 17th	
			Uttar Pradesh	Local/scattered rain	16th, 17th	
6.	20th—22nd	Afghanistan—Jammu and Kashmir	Jammu and Kashmir	Scattered Rain or snow	21st	Feeble upper air trough
7.	24th—30th	Baluchistan—West Pakistan—Rajasthan—Hills of West Uttar Pradesh	Jammu and Kashmir	Scattered/local rain	25th, 26th, 27th 28th and 30th	Moved slowly
			Himachal Pradesh	Local rain	27th, 28th	
			Punjab (I)	Scattered rain	26th, 27th, 28th, 29th	
			West Uttar Pradesh	Scattered rain	26th, 27th and 28th	

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1—410 D.D.G. Obs.P./67

The seasonal trough of low pressure over northeast India was fairly active and was accentuated periodically by the movement of the upper air troughs associated with the western disturbunces mentioned in para 1 above. During the first week a spell of good thundershowers occurred in Assam. Some of the noteworthy amounts of rainfall recorded were : Kailashahar 8 cm on 2nd and Mohanbari 17 cm., Haflong 12, cm Aijal 10 cm, Pasighat 9 cm, and Kailashahar 8 cm on 5th. According to press reports, a severe storm accompanied by rain and hailstones lashed Gauhati on 4th evening uprooting trees and disrupting the telecommunications. A similar report was available from Nowgong also. The thundershower activity extended to Sub-Himalayan West Bengal during the second week and to the remaining parts of northeast India during the second half of the month. Cherrapunji reported an exceptionally heavy fall of 22 cm of rain on 13th. The other noteworthy amounts of rainfall recorded were : Dhubri 13 cm and Jalpaiguri 7 cm on 13th, Kailashahar 8 cm on 14th, Silchar 8 cm on 15th and 7 cm on 16th, Haflong 8 cm and North Lakhimpur 7 cm on 17th, Agartala 7 cm on 19th, Shillong 8 cm and Chandbali 9 cm on 27th. With the shifting of the seasonal trough of low pressure slightly westwards after 20th, the thundershower activity decreased over Assam.

The seasonal thundershower activity over the Peninsula and central parts of the country was subnormal. However, spells of thundershowers occurred in the north Peninsula and the central parts of the country during the second and fourth weeks when marked incursion of moist air from the Bay of Bengal took place under the influence of a trough of low pressure that lay over the area. Troughs in the low level easterlies moving westwards across Ceylon and adjoining sea areas also caused thundershowers in the extreme south Peninsula on a number of days. Two feeble troughs of low pressure moved westward across Comorin-Maldive areas during the periods 2nd-4th and 4th-5th respectively. Another trough of low pressure appeared over the Comorin area on 6th and persisted there till 8th. Later it moved away westwards across Maldive area by 10th. The fourth trough of low pressure lay over the southwest Bay of Bengal on 10th. It also moved away westwards across Maldive area by 13th. Under their influence a few thundershowers occurred in the south Peninsula on most of the days during the first fortnight. Kerala received a good spell of showers in the first week with Alleppey recording 6 cm of rain on 5th. There was a decrease of rainfall during the second week over the area. In association with the movement of another trough of low pressure from Ceylon to the southwest Arabian Sea during the period 17th-22nd the thundershower activity was maintained over the south Peninsula during the third week. The activity increased considerably during the last week as a result of the marked strengthening of the seasonal low over the Peninsula and also due to the westwards movement of a trough of low pressure across the south Peninsula during the period 27-28th. Trivandrum and Minicoy each recorded 5 cm of rain on 28th.

Day temperatures were generally above normal in northwest India, Gujarat State, central parts of the country and the north Peninsula during the month except for the first week, being appreciably so at a number of places during the period 10th-14th. They were also above normal in Uttar Pradesh during the second week, being appreciably or markedly so on most of the days, in Assam during the last week and in the remaining parts of northeast India on a number of days during the first fortnight. Day temperatures were below normal in Assam for the major part of the month except during the last week. They were appreciably below normal in northwest India during the period 16th-18th and in Uttar Pradesh on 17th-18th. During the last week also, day temperatures were below normal in Uttar Pradesh, Bihar State and West Bengal.

The total rainfall for the month was in large excess in Orissa, Bihar Plains and Marathwada, in moderate excess in Assam, West Bengal and Bihar Plateau and normal in the Punjab(I), east Madhya Pradesh, north Interior Mysore and the Arbian Sea Island. It was in slight defect in Madhya Maharashtra and Kerala, in moderate defect in Jammu and Kashmir, the Konkan, Telangana and south Interior Mysore and in large defect over the rest of the country outside Himachal Pradesh except east Rajasthan, west Madhya Pradesh and Gujarat State where there was no rain.

The mean maximum temperature was above normal in the Bay Islands, west Uttar Pradesh Rajasthan Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Interior Mysore and below normal in Assam and Sub-Himalayan West Bengal. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Sub-Himalayan West Bengal, Rajasthan, Madhya Pradesh Vidarbha and Mysore State and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Sub-Himalayan West Bengal Bihar State, Saurashtra Kutch and south Interior Mysore and below normal in the Bay Islands east Rajasthan and Marathwada. It was normal over the rest of the country outside Himachal Pradesh,

The mean cloud amount in the morning was above normal in Assam, West Bengal, Orissa and Bihar Plains and below normal in Uttar Pradesh west Rajasthan, Madhya Pradesh Vidarbha, Rayalassema and south Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs I. S. T. of the date noted in the succeeding column similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

Poona 5, R. Ananthakrishnan,

The 22nd July, 1965 for DIRECTOR-GENERAL OBSERVATORIES.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur & Tripura)	258·1 +68·8	136	28·7 −1·6	19·7 +0·2	78 +4	71	5·3 +0·9	5·3
2. West Bengal	67·7 +18·7	138	35·5 −0·4	24·2 +0·7	68 +5	54	3·6 +1·0	3·4
3. Orissa	51·1 +28·4	225	36·5 −0·1	24·5 −0·5	68 +3	58	3·2 +0·6	3·2
4. Bihar	23·3 +7·7	149	37·1 −0·2	22·7 +0·6	58 +14	40	1·7 +0·1	1·8
5. Uttar Pradesh	2·6 −4·6	36	38·3 +0·8	20·3 +0·7	41 +5	24	0·9 −0·3	1·4
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	10·5 −0·5	95	36·0 +0·7	19·7 +0·7	44 +5	26	2·0 +0·2	2·8
7. Jammu and Kashmir	35·4 −23·3	60	21·5 0	9·3 +0·4	55 −3	44	4·2 +0·6	4·8
Sub-division								
1. Bay Islands	3·1 −56·8	5	34·0 +2·3	24·0 +0·3	61 −12	71	3·7 0	4·1
2. Assam (Including Manipur & Tripura)	258·1 +68·8	136	28·7 −1·6	19·7 +0·2	78 +4	71	5·3 +0·9	5·3
3. Sub-Himalayan West Bengal	104·7 +22·9	128	32·7 −1·1	21·6 +1·1	67 +8	53	4·2 +1·7	3·1
4. Gangetic West Bengal	54·2 +17·1	146	36·3 −0·2	25·2 +0·6	69 +5	54	3·4 +0·8	3·5
5. Orissa	51·1 +28·4	225	36·5 −0·1	24·5 −0·5	68 +3	58	3·2 +0·6	3·2
6. Bihar Plateau	30·5 +9·0	142	37·9 +0·5	23·2 +0·4	51 +9	35	1·5 −0·2	2·4
7. Bihar Plains	20·1 +7·1	155	36·4 −0·8	22·4 +0·8	62 +17	44	1·8 +0·3	1.4
8. Uttar Pradesh (East)	2·4 −3·6	40	38·8 +0·7	19·9 +0·5	42 +5	25	0·8 −0·3	1·2
9. Uttar Pradesh (West)	3·0 −5·9	34	37·6 +1·1	20·8 +1·0	39 +3	23	1·1 −0·4	1·6
10. Punjab (India) (Including Delhi)	10·5 −0·5	95	36·0 +0·7	19·7 +0·7	44 +5	26	2·0 +0·2	2·8
11. Himachal Pradesh.	22·3 ..	..	31·7 ..	7·1 ..	64 ..	35 ..	1·3 ..	1·9
12. Jammu and Kashmir.	35·4 −23·3	60	21·5 0	9·3 +0·4	55 −3	44	4·2 +0·6	4·8
13. Rajasthan (West)	1·0 −3·2	24	39·4 +2·0	23·3 +1·7	39 +1	20	1·0 −0·4	1·9
14. Rajasthan (East)	0 −4·6	0	39·3 +2·1	24·2 +2·3	25 −6	12	1·1 −0·1	1·4
15. Madhya Pradesh (West)	0 −5·6	0	39·9 +1·8	23·1 +1·3	29 −1	16	1·2 −0·3	1·9

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(Con'd.)								
8. Rajasthan	0·5 −3.9	11	39·4 +2·0	23·8 +2·1	31 −3	15	1·1 −0·2	1·6
9. Madhya Pradesh	6·8 −3·6	65	39·8 +1·8	23·3 +1.4	32 −1	18	1·2 −0·4	2·1
10. Gujarat State	0 −1·5	0	37.6 +0·7	23·4 +0·6	66 +5	39	1·5 +0·1	1·0
11. Maharashtra State	7·5 −3·8	66	38·6 +1·5	24·7 +1·0	48 −1	30	1·8 −0·2	2·4
12. Andhra Pradesh	7·3 −11·5	39	38·5 +0·7	26·0 +0·4	64 +3	42	2·6 −0·3	2·5
13. Madras State	5·7 −36·1	14	35·7 +0·5	26·1 +0·7	69 −3	55	3·3 +0·1	2·9
14. Mysore	26·0 −9·2	74	36·7 +1·2	23·9 +1·1	67 +3	40	2·1 −0·3	3·9
15. Kerala	104·3 −19·4	84	33·2 +0·9	26·3 +0·6	79 +2	72	4·1 −0·2	5·0
Sub-division—(Contd.)								
16. Madhya Pradesh (East)	15·5 −1·1	93	39·8 +1·9	23·6 +1·4	35 −2	20	1·2 −0·7	2·3
17. Gujarat Region	0 −2·0	0	39·9 +0.6	24·0 +1·0	56 +3	23	1·4 +0·2	0·9
18. Saurashtra and Kutch	0 −1·2	0	36·2 +0·8	23.0 +0·3	72 +6	48	1·5 +0·1	1·1
19. Konkan	2·8 −2·0	59	32·2 +0·6	25·2 +0·6	75 +2	68	2·6 0	2·1
20. Madhya Maharashtra	12·7 −3·2	80	40·5 +2·0	22·9 +0·9	47 +1	23	1·5 −0·2	2·7
21. Marathwada	12·7 +4·5	155	40·8 +1·7	24·6 +1·0	26 −10	11	1·7 +0·2	2·8
22. Vidarbha	4·4 −8·5	34	41·5 +1·8	26·2 +1·4	32 −4	15	1·4 −0·5	2·3
23. Coastal Andhra Pradesh	2·8 −15·6	15	36·4 +0·2	26·1 +0·5	72 +2	60	3·5 +0.1	2·1
24. Telangana	13·9 −7·6	65	40·2 +1·3	25·6 +0·5	57 +3	25	2·1 −0.4	2·4
25. Rayalaseema	7·1 −8·8	45	40·5 +1·0	26·7 +0·4	57 +4	30	1·2 −0·9	3·3
26. Madras State	5·7 −36·1	14	35·7 +0·5	26·1 +0·7	69 −3	55	3·3 +0·1	2·9
27. Coastal Mysore	1·9 −21·9	8	33·2 +0·8	26·6 +1·1	75 +1	69	4·1 +0·5	4·7
28. Interior Mysore (North)	29·5 +1·9	107	39·1 +1·1	24.5 +1·1	55 0	29	1·3 −0·3	3·3
29. Interior Mysore (South)	34·6 −13·9	71	36·1 +1·4	22·5 +1·1	74 +6	35	1·8 −0·8	4·2
30. Kerala	104·3 −19·4	84	33·2 +0·9	26·3 +0·6	79 +2	72	4·1 −0·2	5·0
31. Arabian Sea Islands	40·4 −3·4	92	32·4 +0·5	26·5 −0.1	75 +4	71	3.5 +0.1	3·8

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh is not included.

Sub Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	33·3	..	34·3	20,21	25.0	..	22·3	27	22·2	29·6	..	21·4	27	2	..	11·6	8·2	..	0	3	0	0	9	0	0	0	0	0	0
Long Island	32·7	..	33·7	30	23·7	..	22·0	3,4	14·2	19·8	..	8·8	30	3	..	7·1	4·2	..	0	3	0	0	9	0	0	0	0	0	0
Port Blair	34·0	+2·3	35·1	21	24·0	+0·3	21·2	1	0	3·1	−56·8	1·9	29	0	−5·1	7·9	4.9	−4·6	0	2	0	0	13	2	0	0	0	0	0
Car Nicobar	32·2	..	32·9	23	24·5	..	22·3	4	0·9	8·7	..	7·8	17	1	..	8·7	4·3	..	0	2	0	0	2	0	0	0	0	0	0
Nancowry	34·5	..	35·9	23	26·3	..	24·4	14,24	17·8	25·0	..	13·2	11	2	..	1·1	0·4	..	0	7	0	0	15	0	0	0	0	0	0
Kondul	30·3	..	31·1	25,28	25·8	..	23·8	30	26·2	36·7	..	22·6	30	3	..	..	..	..	0	6	0	0	11	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	27·9	..	33·4	30	18·5	..	14·9	5	45·3	219.7	..	85·8	5	12	..	7·0	8·6	..	0	16	0	0	7	0	0	0	0	0	0
Dibrugarh (Mohanbari)	27·7	+0·8	33·5	30	16·7	−1·6	12·8	6	64·6	196·5	−44·6	66·5	5	12	−1·6	6·3	4·5	−0·8	0	13	0	1	10	1	0	0	0	0	0
Digboi (R)																													
North Lakhimpur	27·1	−1·7	33·5	30	19·4	0	16·6	20	96·4	260·3	+116·8	69·2	17	11	+0·6	7·2	5·1	..	0	20	0	1	12	2	0	0	0	0	0
Sibsagar	27·7	+0·1	34·6	30	20·0	+1·1	17·3	6,19	35·9	185·4	−71.7	40·3	9	13	−1·1	5·4	4·8	+0·5	1	19	0	0	3	0	0	0	0	0	0
Gohpur	27·8	..	34·4	30	19·6	..	16·6	20	43·4	244·7	..	44·6	4	14	..	6·9	5·9	.	0	15	0	0	5	0	0	0	0	0	0
Majbat	28·4	..	34·1	30	19·8	..	17·2	18	33·7	143·2	..	38·4	1	9	..	9·6	6·9	..	0	13	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome)	28·1	..	34·5	30	19·6	..	16·8	11	19·2	205·2	..	43·1	2	13	..	..	..	..	0	19	0	0	15	0	0	0	0	0	0
Tangla	29·1	..	34·8	30	19·9	..	17·1	9	14·0	227·5	..	56·0	13	13	..	7·2	4·3	..	0	13	0	0	0	0	0	0	0	0	0
Tezpur	28·4	−1·1	35·3	30	20·5	+0·6	18·2	19	19·6 (e)	208·0 (d)	+55·3	61·0	12	13	+2·3	8·6 (h)	7·5 (h)	+0·7	0	16	0	0	9	0	0	0	0	0	0
Golaghat	27·9	..	35·0	30	19.8	..	17·2	18	53·2	278·1 (c)	..	..	..	..	..	7·1 (c)	4·8 (d)	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	29·2	..	33·9	29	20.7	..	16.4	19	82·7	257·5	..	..	..	..	..	10·1	7·7	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh (R)																													
Goalpara	29·7	..	33·9	6.29	20·2	..	15·8	12	59·8	298·6	..	57·8	16	11	..	7·9	6·1	..	0	11	0	0	0	0	0	0	0	0	0
Gauhati	28·2	−2·7	35·0	30	20·6	+1·0	15·0	18,19, 20	..	174·4	+29·4	33·0	11	14	+4·0	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	29·4	−1·5	33·9	30	20·0	+0·9	17·9	18	33·3	182·9	−14·3	35·0	11	14	+4·0	9·1	6·4	..	0	19	0	2	18	0	0	0	0	2	0
Dhubri (Rupsi)	30·7	..	36·1	5	20·9	..	18·7	13	30·2	208·0	..	37·3	8	10	..	12·2	10·9	..	1	11	0	2	14	0	0	0	0	0	0
Dhubri	29·4	−1·8	35·5	5	22·0	+0·8	18·6	14	10·6	279·4	+141·7	127·2	13	10	+1·9	19·3	15·8	+5·7	0	12	0	0	9	0	0	0	0	0	0
Lumding	30·6	−1·5	36·1	30	19·9	+0·8	17·1	22	40·5	114·7	+23·0	39·4	2	8	+0·8	6·8	5·8	..	0	11	0	0	0	0	0	0	0	0	0
Tura	30·0	..	32·7	10	17·7	..	13·9	14	0·2	218·6	..	47·2	14	11	..	8·9	9·0	..	0	13	0	0	0	0	0	0	0	0	0
Hailong	26·2	..	30·6	30	17·8	..	12·8	17	327·3	515·0	+260·2	115·7	5	17	+4·6	..	..	..	0	20	0	0	11	0	0	0	0	0	0
Silchar (Kumbhirgram)	29·4	..	33·9	29,30	20·3	..	17·2	15	100·9	433·8	..	65.5	4	16	..	9.4	9.0	..	0	20	0	0	18	0	0	0	0	0	0
Silchar	27·9	−3·2	34·2	30	21·1	+0·7	17·1	4	128·8	466·0	+80·7	83·6	15	19	+4·7	3·7	2.4	−1·1	0	21	0	0	17	0	0	0	0	0	0
Imphal (Tulihal)	26·8	−2·6	32·2	11	14·9	−0·6	12·2	16	73·4	148·2	+56·9	23·0	13	12	+4·0	9·6	6·2	−2·8	0	15	0	0	16	0	0	0	0	0	0
Kailashahar	30·8	..	33·9	29	21·1	..	17·5	2	83·4	476·2	..	82·4	2	14	..	10·5	7·9	..	0	15	0	2	7	0	0	0	0	3	0
Agartala	32·6	−2·5	36·3	2	21·3	−1·6	15·6	17	149·2	366·2	+244.9	68·9	19	14	+8·1	14·3	10·9	0	0	15	0	4	17	0	0	0	0	1	1
Sub-Himalayan West Bengal																													
Baghdogra	31·1	−2·1	33·9	5	20·6	+1·0	16·1	5	4·8	77·3	+17·3	25·8	13	5	+1·2	18.1	14.8	+5·8	0	7	0	0	8	0	0	0	0	2	0
Jalpaiguri	31·3	−0·6	37·9	3	21·3	+1.2	18·4	5	7.4	159·0	+65·3	68·0	13	6	+0.5	14·4	10·7	+6·8	0	8	0	0	3	0	0	0	0	0	0
Cooch Behar	30·4	..	35·0	6	20·5	..	17·9	13	22·3	164·4	+20·9	51·5	13	10	+2·7	11·0	8·4	..	2	13	0	3	16	0	0	0	0	1	0
Balurghat	35·1	..	40·4	10	21·1	..	19.8	18	3·2	35·3	..	18·4	17	4	..	9.6	7·6	..	1	5	0	0	0	0	0	0	0	0	0
Malda	35·7	−0·7	40·7	12	22·9	+1·1	18·9	17	0·2	18·2	−11·8	11·4	17	2	0	11·6	8·7	+0·7	3	2	0	0	5	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	37·2	0	44·0	12	..	..	..	..	45·0	66·5	+28·9	25·0	22	4	+1·3	6·2	4·9	−0·7	0	5	0	1	0	0	0	0	0	0	0
Suri	37·9	..	43·8	12	24·2	..	18·9	23	..	38·2	..	18·4	23	3	..	..	8·0	..	0	4	0	0	1	0	0	0	0	0	0
Asansol	38·8	0	44·6	14	23·8	+0·4	19·2	23	12·1	54·6	+33·5	41·3	26	2	+0·2	10·1	7·8	−0·1	1	3	0	0	5	0	0	0	0	2	0
Shanti Niketan	38·3	..	44·1	12	24·3	..	18·3	23	4·7	55·0	..	35·2	27	3	..	13.3	10·3	..	0	6	0	0	9	0	0	0	0	0	0
Krishnanagar	37·3	+0·1	43·3	12	24·4	+1·0	18·9	23	7·2	76·6	+18·7	50·0	23	5	+1·3	7·5	7.2	−1·0	1	6	0	0	9	0	0	0	0	0	0
Purulia	38·0	−1·0	43·7	14	24·9	+0·2	18·9	23	11·6	28·2	+4·5	16·6	26	2	−0.5	9·5	6·6	+1·2	0	3	0	0	1	0	0	0	0	0	0
Bankura	39·1	..	44·5	13,14	24·1	..	18·3	23	8·2	72·0	+40·3	24·4	26	5	+2.3	2.8	2·4	..	0	6	0	0	0	0	0	0	0	0	0
Burdwan	37.8	+0·2	43·5	13	..	..	..	..	4.2	78·6	+29·3	31·0	23	5	+1·8	21.6	11·6	+6·8	0	6	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	36·0	..	41·3	12	24·4	..	18·9	23	3·4	94·1	..	29·7	17	4	..	..	..	..	0	8	0	0	12	0	0	0	0	1	0
Calcutta (Dum Dum)	35·0	−0·9	40.4	12	24·6	+0·3	19·3	23	51·9	114·3	+70·2	30·0	17	8	+5·2	14·4	12·8	−0·4	0	9	0	0	11	0	0	0	0	5	0
Calcutta	35·9	−0·1	41·6	12	25·3	+1·1	19·6	23	12·1	72·9	+28·4	22·5	17	8	+5·0	13·4	10·2	+2·3	0	10	0	0	13	0	0	0	0	8	0
Midnapore	39·0	+0·7	44·2	13	25·5	+0·9	21·1	24	6·3	16·3	−26·9	10·0	24	2	−1·1	9·9	9·2	+3·2	0	2	0	0	1	0	0	0	0	0	0
Contai	33·0	−0·8	37·3	16	26·1	+0·4	20.6	24	.0	10·1	−15·6	10·1	24	1	−0·9	20·2	17·7	+1·4	0	1	0	0	0	0	0	0	0	0	0
Sagar Island	31·5	−0·6	33·3	17	26·8	+0·5	20·9	22	2·1	6·2	−23·5	2·7	24	1	−1·1	33·2	34.0	+12·0	1	4	0	0	2	0	0	0	0	0	0
Sandheads	30·4	..	32·9	25	26·6	..	24.0	17	0·6	2·2	−12·5	1·0	24	0	−1.1	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	39·8	..	44·8	13	25·0	..	21·6	24	41·5	47·2	..	20·6	24	4	..	6·0	4·6	..	0	8	0	2	15	0	0	0	0	0	0

(e) Total or mean of 26 days. (d) Total or mean of 27 days. (h) mean of 23 days. (R) = Register not received. (c) Total or mean of 28 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—(Contd.)																													
Jharsuguda	40·5	+0·4	43·9	14	25·7	—0·5	19·9	3	23·2	45·2	+35·4	13·2	24	4	+2·8	9·9	8·5	+0·5	0	6	0	0	9	0	0	0	0	3	0
Keonjhargarh	37·8	..	41.7	15	23·9	..	19·0	24	13·3	22·6	..	8·2	28	3	..	12·4	8·3	..	0	4	0	0	0	0	0	0	0	0	0
Balasore	36·9	+0·8	42·8	16	23·8	—0·6	18·7	24	46·6	73·3	+28·8	..	—	—	..	17·5	14·3	+5·6	..	..	0	0	12	0	0	0	0	0	0
Sambalpur	41·7	+2·3	43·9	15,16	..	..	..	..	0	4·2	—10·8	4·2	2	1	—0·6	8·6	6·2	+1·5	0	1	0	0	0	0	1	0	0	0	0
Angul	39·7	+0·8	43·6	15	22·9	—1·2	15·6	26	0	34·2	+8·4	29·4	26	2	—0·2	11·8	9·2	+1·6	0	3	0	0	0	0	0	0	0	0	0
Cuttack	37·9	—0·5	43·5	13	25·8	+0·5	22·1	28	9·0	27·2	0	17·8	28	2	+0·3	15·2	11·6	+5·8	1	4	0	0	5	0	0	0	0	0	0
Chandbali	36·0	—1·0	41·9	16	24·2	—0·6	17·5	23	138·4	157·4	+120·8	89·4	27	4	+1·1	20·2	16·8	+2·8	0	4	0	1	1	0	0	0	0	0	0
Bolangir	41·6	—	44·3	14	25·7	..	21·8	24	5·2	6·2	..	5·2	24	1	..	9·4	(c) 9·5	..	0	2	0	0	5	0	0	0	0	0	0
Phulbani	38·5	..	41·2	14,15	21.4	..	16·4	4	0·8	12.8	..	6·8	25	1	..	6·2	3·1	..	0	4	0	0	2	0	0	0	0	0	0
Titlagarh	41·3	..	44·5	14,15	26·5	..	22·3	23	3·0	11·4	..	4·4	24	3	..	6·0	4·5	..	0	3	0	0	0	0	1	0	0	0	0
Bhubaneswar	36·4	—1·6	42·7	16	25·3	—0·4	19·9	28	6·6	47·8	+35·4	39·2	28	3	+1·9	29·3	26·9	+2·2	0	4	0	0	7	0	0	0	0	3	0
Puri	30·3	—0·6	36·3	16	25·8	—0·4	21·2	28	0	53.6	+38·9	17·0	26	4	+3·0	27·2	26·2	+6·1	0	4	0	0	3	0	0	0	0	1	0
Gopalpur	29·9	—1·3	37·8	16	24·3	—0·8	22·9	14	0	16·6	—1·2	9·2	28	2	+0·6	30·2	27.6	+7·6	0	5	0	0	11	2	0	0	0	1	0
Koraput (R)																													
Bihar Plateaus																													
Dumka	37·8	+0·1	43·1	12	23·8	+0·6	19·3	23	13·8	55·8	+34·5	25·0	10	4	+2·1	11·7	7·5	+3·3	0	6	0	0	6	0	0	0	0	0	0
Daltonganj (R)																													
Hazaribagh	35·8	—0·4	40·0	14	22·1	0	17·9	24	1·3	5·1	—8·9	3·8	23	1	—0·5	12·6	9·7	—0·8	0	2	0	0	3	0	0	0	0	0	0
Dhanbad	37·9	..	41·0	14	..	..	..	..	15·4	58·0	..	42·6	26	3	..	6·4	6·8	..	0	3	0	0	4	0	0	0	0	0	0
Ranchi	36·5	+1·1	40·6	14,15, 16	20·4	—1·4	17·1	24, 25,	34·0	62·1	+39·5	26·6	16	3	+0·6	11·0	8·7	+0·8	0	3	0	0	4	0	0	0	0	0	0
Ranchi(Aerodrome)	35.8	..	40·4	14	21·7	..	16·9	24	32·1	50·8	..	29·2	26	2	..	14·1	11·0	..	0	3	0	1	3	0	0	0	0	1	0
Jamshedpur	39·6	+0.7	43·8	14	25·0	+1·8	19·1	24	5·0	10·9	—12·0	5·0	24	2	—0·1	10·2	8·1	+2·3	0	4	0	0	5	0	2	0	0	0	0
Jamshedpur (P.B.O.)	39.4	..	43·7	13,14	24·7	..	19·2	24	14·0	15·0	..	14·0	24	1	..	10·2	7·2	..	1	2	0	0	7	0	0	0	0	2	0
Chaibasa	39·7	+0.8	44·0	14	24·6	+0·9	21·6	24	18·2	18·6	—8·3	16·6	26	1	—1·2	7·0	4·6	+0·6	0	4	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	..	..	..	..	21·3	+1·5	..	..	9·2	51·8	+3·1	..	..	..	..	5·5	3·5	—2·8	..	..	0	0	0	0	0	0	0	0	0
Forbesganj	33·3	..	38·1	10	21·6	..	17·3	6	13·8	62·8	..	23·2	23	3	..	13·6	10·1	..	0	4	0	0	5	0	0	0	0	0	0
Darbhanga	34·9	—1·2	38.9	10,11	22·5	+1·5	18·6	17	14·8	18·0	+0·7	14·8	17	2	+0·7	10·4	7·7	+1·6	0	2	0	0	1	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	29·7	+17·5	17·4	17	2	+1·1	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Chapra	37·7	..	42·6	12	22·8	.	18·7	17	0	9·1	+1·0	9·1	17	1	+0·3	8·0	6·9	..	0	1	0	0	2	0	1	0	0	0	0
Purnea	34·8	—0·9	39·8	10	21·4	+0·7	16·7	6,23	23·8	45·8	+13·3	25·6	23	2	+0·2	11·1	8·4	+2·9	0	2	0	0	3	0	0	0	0	0	0
Patna	37.3	+0·1	41·9	11	23·7	+0·6	20·0	17	0	6·0	—0·9	6·0	17	1	+0·4	9·9	8·7	+1·8	0	1	0	0	1	0	1	0	0	0	0
Patna Aerodrome	36·9	..	42·4	12	22.3	..	17·8	17	0	10·0	..	10·0	17	1	..	11·0	7·4	..	0	1	0	0	1	0	0	0	0	1	0
Arrah	..	..	..	..	..	..	..	..	..	0	—6·3	0	..	0	—0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	36·3	—1·6	40·6	12	22·7	—0·9	18·2	17	14·6	21·0	+12·3	14·8	23	2	+0·8	11·2	9·1	—1·3	0	2	0	0	4	0	0	0	0	2	0
Sabaur	36·0	—1·3	40·7	12	22·0	+1·1	17.7	6	24·2	38·8	+20·5	24.8	23	2	+0·7	12·4	9·2	—0·5	0	2	0	0	5	0	0	0	0	2	0
Jamui	38·1	..	42·9	13	22·6	.	16·7	24	40·0	75·5	..	40·0	23	2	..	6·5	5·4	..	0	3	0	0	0	0	0	0	0	0	0
Dehri	39·2	..	43·3	14	24·9	..	21·5	6,20, 23	0	0	—5·8	0	..	0	—0·6	10·9	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	39·1	+0·3	43·7	14	23·4	+0·8	16.7	7	0·6	0·6	—5·5	0·6	26	0	—0·6	14·3	10·4	+1·1	0	1	0	0	2	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri	38·2	+0.6	42·5	14	21·8	+0·9	17·0	18,19	0	0	—2.1	0	..	0	—0·4	8·7	5·5	+0·6	0	0	0	0	2	0	1	0	0	0	0
Bahraich	38·2	+1·0	43·3	11	22·2	+1·5	15·7	18	0	3·2	—4·9	3·2	17	1	+0·4	13·7	9·1	+3·6	0	1	0	0	1	0	1	0	0	0	0
Nautanwa	36·9	..	42.0	10,11	20.4	..	15·6	19	0	26·8	..	20·2	22	3	..	13.2	7·6	..	0	3	0	0	0	0	1	0	0	0	0
Hardoi (R)																													
Gonda	38·1	+0·4	42·7	..	..	..	..	..	0	0	—8·9	0	..	0	—0·1	12·9	8·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Lucknow	38.4	—0·2	42·5	13	22·0	+0·4	17·4	6	0	0	—6·3	0	..	0	—0·6	..	3·2	—0·7	0	0	0	0	1	0	0	0	0	0	0
Lucknow (Amausi)	37·9	—0·4	43·2	13	20·4	+0·1	15·5	16	0	0	—6·3	0	..	0	—0·6	15·8	11·1	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	37·7	..	42·4	11	20·2	..	14.8	6	0	0	..	0	..	0	..	7·0	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	38·0	+0·6	43·4	11	22·2	+0·4	17·3	19	0	11.2	—8·1	11·2	17	1	+0·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	39·4	+2·0	43·6	13	20·1	—1·3	..	..	0	0	—5·6	0	..	0	—0·6	..	13·2	+1·5	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	39.8	..	43·9	13	23·0	..	18·4	13	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	1	0	0	0	0
Sultanpur	38·8	..	43·0	11,12, 14	21.6	..	17·5	19	0	0	..	0	..	0	..	8·2	6·5	..	0	0	0	0	1	0	0	0	0	0	0
Azamgarh	38·3	..	44.1	11	22·7	..	18.5	6	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	40·1	+1·8	44·0	13	23.2	+2.1	18·7	6	0	0	—8·4	0	..	0	—0·6	11·9	7.2	+1·6	0	0	0	0	0	0	0	0	0	0	0
Ballia	38.3	..	42·2	12	20·8	..	17·1	6	0	0	..		..	0	..	8·0	6·6	..	0	0	0	0	0	0	1	0	0	0	0
Banda	41·0	..	44·6	13	21·4	..	15·9	6	0	0	..	0	..	0	..	3·2	2·0	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	40·0	+0·8	43·8	13	23·4	+1·5	18·8	19	6·0	6·0	+1·7	6·0	23,	1	+0·6	10·0	6·6	0	0	1	0	0	0	0	0	0	0	0	0
Varanasi (Babatpur)	39·3	+0.3	43·1	14	22·5	+0·3	18·7	6	0	0	—1·1	0	..	0	—0·2	15·1	9·7	—2.8	0	1	0	0	1	0	0	0	0	0	0
Varanasi	39·2	+0·4	43·0	14	21.4	—0·6	17·0	20	0	6·0	+0·9	6·0	23	1	+0·6	8·8	6·9	+1·6	0	1	0	0	0	0	0	0	0	0	0

(R) Register not received

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																													
Mukhim	23·0	..	28·0	30	..	..	..	..	20·6	41·2	..	9·4	4	6	..	..	..	..	0	6	0	3	4	0	0	0	0	0	0
Tehri	33·6	..	38·6	12	15·8	..	10·5	1	19·5	26·9	..	9·8	17	4	..	4·0	2·4	..	0	6	0	3	1	4	0	0	0	0	0
Dehra Dun	33·9	+1·7	38·4	30	17·5	+0·6	10·7	18	0·5	19·7	+3·2	13·2	16	2	+0·3	6·2	4·4	+0·5	0	3	0	0	2	0	0	0	0	0	0
Mussoorie	19·7	..	24·3	30	10·6	..	4·0	17	..	75·8	..	33·2	17	7	..	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Roorkee	36·0	+0·6	41·2	30	17·9	−0·4	14·0	19	1·3	2·6	−8·8	1·3	4	0	−1·1	10·9	7·9	+3·4	0	2	0	0	1	0	1	0	0	0	0
Najibabad	36·9	..	41·5	12	19·3	..	11·9	18	0·8	0·8	..	0·8	3	0	..	13·1	8·5	..	0	1	0	0	4	0	0	0	0	0	0
Meerut	36·9	+0·4	41·0	10,30	20·6	+1·0	15·3	1	..	1·6	−7·8	1·6	16	0	−0·8	..	8·7	..	0	1	0	0	1	0	0	0	0	0	0
Bareilly	38·5	+1·9	42·7	13	22·6	+2·2	16·5	18	0	0	−6·9	0	..	0	−0·6	13·7	10·1	+5·9	0	0	0	0	2	0	0	0	0	0	0
Aligarh	35·9	0	42·4	30	20·7	+0·6	16·1	18	0	0	−12·5	0	..	0	−1·0	21·8	15·2	+7·2	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	39·8	+1·4	44·8	29	..	..	..	..	0	0	−5·8	0	..	0	−0·7	7·1	5·1	+1·4	0	0	0	0	0	0	0	0	0	0	0
Agra	39·4	+1·6	44·0	30	22·9	+2·0	19·0	18,19	0	0	−5·3	0	..	0	−0·6	6·9	4·6	−1·7	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	39·8	..	44·7	30	21·6	..	16·3	18	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai	40·5	..	43·3	15,16, 29	24·4	..	19·1	7	0	0	..	0	..	0	..	12·3	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	40·4	+1·2	44·7	30	23·6	+1·3	18·0	8	0	0	−5·6	0	..	0	−0·5	6·5	5·8	0	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	34·0	+0·5	41·0	30	18·9	+1·0	10·4	18	0	22·6	+3·6	11·7	16	+9	+0·1	..	..	..	0	3	0	0	6	0	3	0	0	0	0
Amritsar (Rajasansi)	34·3	6	39·9	30	17·5	+1·5	10·5	5	0·3	18·9	+11·2	12·8	16	2	+1·0	12·9	11·2	+1·6	0	5	0	0	7	0	3	0	0	0	0
Adampur (Aerodrome)	35·0	..	40·8	29,30	16·7	..	10·4	18	0	16·2	..	11·7	16	2	+0·1	..	..	..	0	4	0	0	8	0	3	0	0	0	0
Ludhiana	37·1	+1·7	42·4	12	14·8	+4·4	9·4	5	0	14·4	−2·1	10·2	29	2	+0·7	11·8	6·2	+3·0	0	2	0	0	0	0	0	0	0	0	0
Ferozepur	35·7	..	40·5	27,28	18·5	..	13·0	5	0	3·0	..	1·5	3,13	0	..	5·9	4·9	..	0	2	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	35·7	..	41·1	30	17·9	..	10·6	5	1·5	4·1	..	1·8	13	0	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Chandigarh	35·3	+0·9	40·5	30	22·3	+3·0	15·6	6	1·8	5·5	−4·9	3·7	3	1	+0·3	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Ambala	36·7	+1·1	42·4	30	21·3	+2·2	15·4	1	0	9·8	−6·5	6·4	16	2	+0·4	14·8	11·4	+5·6	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	35·9	..	41·3	29	20·2	..	13·4	1	0	4·3	..	2·3	3	0	..	..	..	..	0	2	0	0	4	0	2	0	0	0	0
Patiala	35·9	..	42·2	30	20·9	..	14·9	5	0	6·0	−2·9	4·0	16	1	+0·7	13·5	11·4	..	0	2	0	0	0	0	2	0	0	0	0
Bhatinda	38·2	..	42·9	29	15·3	..	13·3	1,5	0	0	..	0	..	0	..	7·3	5·7	..	0	0	0	0	2	0	0	0	0	0	0
Karnal	36·0	..	41·5	30	19·4	..	14·5	1,5	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	37·7	+1·1	41·6	27	20·8	+1·5	15·1	1	0	1·8	−4·8	1·2	1	0	−0·9	9·7	8·4	+1·5	0	2	0	0	1	0	1	0	0	0	0
New Delhi (Safdarjang)	36·9	−0·2	42·2	30	22·0	+0·6	16·8	1	4·0	4·8	−3·6	4·8	16	1	+0·1	19·2	12·3	+2·2	0	1	0	0	1	0	1	0	0	0	0
Palam (Aerodrome)	37·8	..	43·0	29,30	21·0		15·9	5	4·2	4·2	..	4·2	15	1	..	..	..	..	0	1	0	0	1	0	1	0	0	0	0
Himachal Pradesh																													
Mandi	30·5	+0·1	36·7	30	..	..	..	..	6·7	14·7	+7·2	12·7	16	6	+2·0	3·9	3·1	−0·4	0	6	0	0	6	0	0	0	0	0	0
Bilaspur	32·8	..	38·6	30	14·1	..	5·6	19	0	0	..	0	..	0	..	3·6	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	.	..	..	4·0	−99·9	0·8	16	0	−8·0	..	..	..	6	6	0	0	0	0	0	0	0	0	0
Sonamarg (R)																													
Leh	12·5	−0·5	15·5	29	−1·8	−0·9	−6·8	4,5	0	0	−5·8	0	..	0	−0·8	4·1	4·0	−0·3	0	0	0	0	0	0	0	0	0	0	0
Srinagar	18·2	−1·1	23·7	23	8·8	+1·8	3·2	17	30·8	113·4	+20·7	30·0	3	10	+2·2	7·4	5·9	+0·8	0	18	0	0	6	0	0	0	0	0	0
Srinagar (Aerodrome)	17·4	..	23·3	25	8·1	..	2·2	17	19·4	89·9	..	23·8	3	9	..	..	..	..	0	15	0	0	13	0	1	0	0	0	0
Gulmarg	Closed during winter Months.																												
Qazigund	17·7	..	22·9	24	8·0	..	2·3	17	41·0	135·8	..	34·8	16	12	..	5·9	4·5	..	0	14	0	0	8	0	0	0	0	0	0
Banihal	20·6	..	26·7	24	8·9	..	2·5	17	33·5	145·8	..	37·6	16	12	..	..	..	..	0	15	0	0	12	0	0	0	0	0	0
Jammu	33·8	+1·6	39·6	29,30	20·9	+0·4	13·6	17	1·4	24·2	−8·1	16·0	3	2	−0·5	8·6	9·0	..	0	3	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	33·4	..	38·9	29	20·7	..	13·7	17	0	26·2	..	15·2	3	2	..	..	..	..	0	3	0	0	9	0	3	0	6	0	0
Rajasthan (West)																													
Ganganagar	36·9	+0·5	42·3	26	21·0	+1·4	15·6	4	0	4·0	+0·3	3·0	1	1	+0·6	6·4	4·9	−0·2	0	2	0	0	1	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	39·4	..	45·4	26	19·8	..	14·8	18	0	0	..	0	..	0	..	12·6	9·8	..	0	0	0	0	0	0	0	0	0	0	0
Churu	38·7	..	43·9	27	21·6	..	15·5	1	0	1·0	..	1·0	..	0	..	16·2	9·0	..	0	1	0	0	2	0	0	0	0	0	0
Bikaner	39·6	+1·7	44·5	25	22·4	+1·1	15·7	5	0	0	−4·8	0	..	0	−0·5	8·0	6·0	−1·6	0	0	0	0	1	0	0	0	0	0	0
Nagaur	37·6	..	43·0	25	22·1	..	16·4	5	0	0	..	0	..	0	..	13·0	9·0	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	39·8	..	45·0	25	22·9	..	17·4	5	0	0	−3·6	0	..	0	−0·3	16·9	13·3	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	39·5	..	44·0	25	23·5	..	17·1	5	0	0	..	0	..	0	..	14·8	10·0	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	40·4	+3·0	44·6	26	24·2	+2·6	20·4	5	0	0	−3·3	0	..	0	−0·5	12·5	9·8	−1·1	0	0	0	0	0	0	0	0	0	0	0
Barmer	40·8	+2·9	44·9	24	25·4	+1·9	20·9	1	0	0	−4·8	0	..	0	−0·4	10·0	10·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	39·6	..	43·4	23,26	24·5	..	17·9	4	0	0	..	0	..	0	..	5·6	5·0	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(Contd.)																													
Imabao (R)																													
Pilani	38·2	..	43·3	28	20·6	..	14·1	18	0	1·2	..	1·2	1	0	..	12·3	12·5	..	0	0	0	0	0	0	1	0	0	0	0
Sikar	37·8	..	41·9	29	20.9	..	13·3	5	0	0	..	0	..	0	..	7·3	5.8	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	38.8	..	44·0	21	23·6	..	17·7	1	0	3·8	..	3·8	1	1	..	4·6	2·4	..	0	1	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	38·6	+2·0	43·5	27	22·9	+2·5	16·9	1	0	0	−4·3	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	40·0	..	45·0	30	22.6	..	17·8	7	0	0	..	0	..	0	..	8·9	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	38.2	+1.9	42.3	26	24.3	+2·4	17·7	1	0	0	−3·8	0	..	0	−0·4	12·4	10·0	+2·8	0	0	0	0	0	0	0	0	0	0	0
Tonk	40·1	..	45.0	27	22·6	..	16·3	25	0	0	..	0	..	0	..	9·1	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	39·7	..	43.4	26	23·0	..	17·8	1	0	0	..	0	..	0	..	10·0	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	39·6	..	44·8	27,28	24·9	..	21·7	5	0	0	..	0	..	0	..	15·3	11·6	..	0	0	0	0	0	0	0	0	0	0	0
Kota	40·6	+1·9	44.7	27	28·1	+3·8	23·8	2	0	0	−5·3	0	..	0	−0·5	11.6	7·5	+[illegible]·2	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	40·1	..	43.9	27,28	24·2	..	20·2	23	0	0	..	0	..	0	..	11·6	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	38·4	+1·9	42·0	30	21·7	−0·1	16·2	1,5	0	0	−2·8	0	..	0	−0·2	6·3	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	40·7	+2·6	44·1	27,30	24·2	+3·0	19·2	4	0	0	−6·9	0	..	0	−0·5	10·0	7·2	+[illegible]·6	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	40·0	+0·9	44·3	30	23·3	0	17·5	19	0	0	−5·1	0	..	0	−0·6	12.9	7·4	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	40·2	+1·4	44·4	27	22·7	+1·4	18·0	5	0	0	−1·6	0	..	0	−0·2	12·3	8·0	+0·8	0	0	0	0	0	0	0	0	0	0	[illegible]
Shivpuri	38·7	..	42·8	27,29	19·6	..	15·0	5	0	0	..	0	..	0	..	8·9	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	40·4	+1·6	44·4	30	21·7	+0·5	16·7	19	0	0	−4·3	0	..	0	−0·3	(b) 5·5	(c) 2·5	−1·2	0	0	0	0	0	0	0	0	0	0	0
Guna	40·3	+2·7	44·2	30	21·6	+2·2	17·3	4	0	0	−7·4	0	..	0	−0·5	15·1	9·9	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	39·0	+1·7	42·5	26	23·7	+2·1	18·4	1	0	0	−3·1	0	..	0	−0·3	12·1	10·1	+0·6	0	0	0	0	6	0	0	0	0	0	0
Rajgarh	41·1	..	44·6	27	23·0	..	17·3	5	0	0	..	0	..	0	..	14·1	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	39·0	+1·3	43·0	30	25·2	+2·4	21·5	5	0	0	−5.3	0	..	0	−0·5	8·0	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	39·3	+1·5	42·9	30	22·9	+0·2	19·4	4	0	0	−1·6	0	..	0	−0·2	10·9	8·5	0	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	39·9	+2·6	44·0	30	23·3	+1.7	18·5	4	0	0	−5·6	0	..	0	−0.7	15·6	12·4	+1·5	0	0	0	0	0	0	0	0	0	0	0
Ujjain	39·4	..	42·5	30	21·2	..	15·4	5	0	0	..	0	..	0	..	14·5	11·6	..	0	0	0	0	0	0	0	0	0	0	0
Narsinghpur	41·3	..	44.4	28,29,30	21·7	..	15·3	19	0	0	..	0	..	0	..	8·2	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	41·3	+2·5	44·7	30	23·7	+0·6	18·2	5	0	0	−3.3	0	..	0	−0.3	7·9	6·3	+2·3	0	0	0	0	1	0	0	0	0	0	0
Indore	39·4	+1·1	43.1	30	22·2	+2·2	16·7	4	0	0	−3·3	0	..	0	−0·3	16·7	16·1	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	39·4	..	42·4	30	22·9	..	17·8	5	0	0	..	0	..	0	..	13·4	10·2	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	38·8	+2·3	41·6	28	22.5	+0·7	13·1	19	0	0	−11·0	0	..	0	−1·2	10·9	6·7	+0.1	0	0	0	0	2	0	0	0	0	0	0
Seoni	40·1	+2·5	43·4	28	23·8	+2·4	13·7	19	0	0	−15·2	0	..	0	−1·7	11.5	6·8	+1·3	0	0	0	0	0	0	0	0	0	0	0
Betul	39·1	+2·0	42·0	30	21·2	+0·3	16·0	5	0	0	−8·8	0	..	0	−0·9	8·5	4·7	−1·0	0	0	0	0	0	0	0	0	0	0	0
Khandwa	41·6	+1·4	45·2	30	25·0	+1·3	13·0	5	0	0	−2·8	0	..	0	−0·3	15·3	9·8	+1·4	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	40.4	+2·3	43·9	30	23.3	+1.4	18·7	19	0	0	−7·1	0	..	0	−0.7	(b) 9·4	6.5	+0·5	0	0	0	0	0	0	0	0	0	0	0
Sidhi	40·0	..	43·0	13	22·3	..	16·5	19	0	0	..	0	..	0	..	10·7	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	40·1	+2·9	43·5	28	22·9	+2·5	17·6	19	0	0	−11·7	0	..	0	−0·9	9·8	6·0	+0·4	0	0	0	0	0	0	0	0	0	0	0
Jabalpur	40·8	+2·7	44·0	28	22·4	+2·2	17·1	19	0	0	−8·1	0	..	0	−0·8	8·5	5·8	+1·9	0	0	0	0	1	0	0	0	0	0	0
Ambikapur	37·8	+1·2	10·8	14	21·5	+1·2	18·2	6	13·1	13·1	+1·6	7·5	11	2	+1·0	12·9	8·8	0	0	2	0	0	1	0	0	0	0	0	0
Pendra	38·0	+2·8	40·8	29	23.8	+2·1	19·4	19	1·0	9·6	−15·0	6·2	9	2	−0·1	11·8	8·3	..	0	2	0	0	3	0	0	0	0	2	0
Mandla	39.9	+2·0	43·6	28	20·2	+1·1	15·4	19	0	4·6	−9·3	4·6	10	1	−0·8	9·0	4·5	+0·7	0	1	0	0	2	0	0	0	0	0	0
Champa	41.2	+1·4	44·3	15	24·5	−0·2	21·1	20	0	6·6	−3·2	6·6	1	1	−0·4	9·8	6·9	+0·3	0	1	0	0	3	0	0	0	0	0	0
Raigarh	41·7	+1·4	45·0	14	25·1	−0·3	21·7	3	1·5	2·1	−5·4	1·5	21	0	−0·7	7·5	5·4	+0·1	0	2	0	0	1	0	0	0	0	0	0
Raipur	40·6	+1·3	43·4	14	26·0	+1.4	21·3	10	2·1	2·1	−14·2	1·6	23	0	−1·7	12·0	9·4	+1.2	0	2	0	0	6	0	0	0	0	0	0
Kanker	39·4	+1·8	41·6	14	26.2	+3.3	20.6	20	3·1	3·1	−26·6	3·1	23	1	−1·3	12·2	9.0	+3·4	0	1	0	0	3	0	0	0	0	0	0
Jagdalpur	37·7	+0·6	40·0	13,18	23·3	+1·2	18·9	23	69·6	129·3	+84·1	59·6	23	4	+0·5	9.4	6·8	..	1	4	0	3	11	0	0	0	0	5	0
Gujarat Region																													
Deesa	40.5	..	44·4	30	21·7	..	17·0	3	0	0	..	0	..	0	..	11·0	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	40·8	..	44·2	24	..	..	..	..	0	0	..	0	..	0	..	10·2	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Idar	40·0	..	44·0	25	23·3	..	19·2	2	0	0	..	0	..	0	..	10·1	7·9	.	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	40·7	−0·1	44·0	23,24	23·7	+1·0	20·7	25	0	0	−1·3	0	..	0	−0·1	7·2	5·7	−2·2	0	0	0	0	0	0	0	0	0	0	0
Dohad	39·6	+1·1	43·5	24	24·3	+0·5	17·1	5	0	0	−1·5	0	..	0	−0·1	16·3	18·2	+0·2	0	0	0	0	1	0	0	0	0	0	0
Vallabh Vidyanagar	40·4	..	43·9	23	21·9	..	17.7	15	0	0	..	0	..	0	..	9.8	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	40·0	..	43·5	23	22·6	..	18.6	6	0	0	..	0	..	0	..	8·8	7·2		0	0	0	0	0	0	0	0	0	0	0
Baroda	41·0	+1·2	44·6	23	23.6	+1·9	19·6	1	0	0	−4·4	0	..	0	−0·1	3.7	2·0	−3·1	0	0	0	0	0	0	0	0	0	0	0
Broach	40·2	+0·2	44·4	22,30	23·8	+0·1	19·6	7	0	0	−1·8	0	..	0	−0.1	8·7	6·5	−1·6	0	0	0	0	0	0	0	0	0	0	0
Surat	37·9	+0·6	42·8	15	24·7	+1·5	19.8	1	0	0	−0·8	0	..	0	−0·1	9·5	9·1	+2·3	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days.

(c) Mean of 28 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during (0830-1730 hours)	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between (0830-1730 hours)	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch																													
Chutakia Bhimasar*																													
Naliya	34·6	..	41·2	19	20·5	..	16·2	11	0	0	..	0	..	0	..	19·8	13·5	..	0	0	0	0	0	1	0	0	0	0	0
Bhuj (Rudramata)	39·5	+1·8	42·5	23	22·7	+0·5	19·3	5	0	0	−1·8	0	..	0	−0·1	15·6	13·6	+1·0	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	40·1	..	41·0	26,28	..	..	..	..	0	0	..	0	..	0	..	23·2	22·4	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	35·4	..	39·7	15,21, 26	23·2	..	19·9	2	0	0	..	0	..	0	..	21·0	19·3	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	31·2	−1·7	36·0	22	22·7	+0·4	20·3	1	0	0	0	0	..	0	0	30·3	25·2	+1·4	0	0	0	0	0	1	0	0	0	0	0
Surendranagar	40·6	+0·9	44·1	26	24·2	+0·7	20·9	2,5	0	0	−3·8	0	..	0	−0·3	13·8	11·2	−0·4	0	0	0	0	0	0	0	0	0	0	0
Okha	29·8	..	32·7	19	21·2	..	22·9	1	0	0	..	0	..	0	..	21·8	20·8	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	35·7	+0·4	40·0	19,20	21·9	+1·2	19·2	3	0	0	−0·5	0	..	0	0	..	..	..	0	0	0	0	0	3	0	0	0	0	0
Dwarka	30·0	+0·5	32·5	19	21·9	+0·2	23·4	1	0	0	−0·8	0	..	0	0	15·9	15·5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Rajkot	39·6	+0·7	43·7	25	21·4	+0·4	17·9	1	0	0	−1·0	0	..	0	0·1	21·4	20·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar Aerodrome	38·8	+1·3	43·7	11	21·2	+0·3	20·2	2	0	0	−2·5	0	..	0	−0·3	21·4	18·5	+2·9	0	0	0	0	1	0	0	0	1	0	0
Porbander Aerodrome	34·0	+1·7	41·5	22	22·2	−1·1	13·5	1	0	0	0·4	0	..	0	0	22·8	15·7	.	0	0	0	0	0	7	0	0	0	0	0
Keshod	38·5	..	43·2	15	20·8	..	17·7	7	0	0	..	0	..	0	..	22·2	18·0	..	0	0	0	0	0	7	0	0	0	0	0
Mahuva	37·9	..	41·5	30	..	..	..	..	0	0	..	0	..	0	..	13·7	11·4	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	31·7	..	40·6	22	21·9	..	19·2	..	..	0	0	0	..	0	0	22·8	18·3	..	0	0	0	0	0	2	0	0	0	0	0
Konkan																													
Dahanu	33·3	+1·4	37·3	21,25	..	..	..	..	0	0	−7·2	0	..	0	0·2	19·8	11·3	−0·3	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	33·4	+1·3	38·6	22	23·7	+1·3	21·2	2	0	0	−1·3	0	..	0	0	17·4	10·6	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	32·2	+0·5	35·4	11,22	24·5	+1·0	22·8	5	0	0	−0·8	0	..	0	0	19·0	7·6	−4·4	0	0	0	0	0	0	0	0	0	0	0
Alibag	31·6	+0·7	35·0	21	24·5	+0·4	21·2	2	..	0	−0·3	0	..	0	0	..	12·3	+1·4	0	0	0	0	0	0	0	0	0	0	0
Bhira	41·5	..	45·3	21	23·4	..	17·0	2	0	0	..	0	..	0	..	6·6	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Harnai	30·3	+0·5	32·0	11,22	26·2	+0·5	22·9	3	0	0	−10·2	0	..	0	−0·6	18·5	15·1	−1·2	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	32·3	..	33·9	30	25·2	..	22·6	5	0	0	−2·5	0	..	0	−0·3	16·2	9·7	..	0	0	0	0	2	0	0	0	0	0	0
Devgarh	31·6	−0·3	32·9	19,20, 26	26·3	0	21·5	29	0	22·2	+14·6	22·2	29	1	+0·2	29·8	16·3	0	0	1	0	0	0	0	0	0	0	0	0
Vengurla	32·9	+0·3	34·2	+	25·2	+0·5	20·8	3	0	0·2	−8·5	0·2	29	0	−0·8	13·6	7·6	..	1	0	0	0	3	0	0	0	0	0	0
Panjim	33·4	..	34·2	22	25·2	..	21·5	3	0	0	..	0	..	0	..	16·0	10·7	..	0	0	0	0	1	0	0	0	0	0	0
Mormugao	31·8	..	33·0	23	25·5	..	23·4	3	0	0	..		..	0	..	17·5	14·6	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	41·4	..	44·4	30	25·6	..	20·4	2,3	0	0	..	0	..	0	..	9·6	9·2	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	43·1	+2·0	46·4	30	25·8	+1·5	19·3	19	0	0	−2·1	0	..	0	−0·2	18·6	15·9	+2·8	0	0	0	0	1	0	0	0	0	0	0
Malegaon	41·0	+1·4	43·8	29,30	22·6	+1·0	16·2	2,3	0	1·5	−1·6	1·5	10	0	−0·3	12·6	10·6	+0·5	0	1	0	0	1	0	1	0	0	0	0
Deolali (Aerodrome)	39·8	..	42·3	15	21·1	..	15·3	3	0·5	0·5	..	0·5	12	0	..	12·6	10·5	..	0	1	0	0	2	0	0	0	0	0	0
Ahmadnagar	40·6	+2·7	43·0	11,29, 30	22·3	+1·3	16·7	5	0	0	−10·2	0	..	0	−1·1	15·3	9·5	−0·3	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	0	0	−7·9	0	..	0	−0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Poona (Aerodrome)	39·5	..	42·5	30	22·0	..	16·6	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	2	0	0	0	0	0	0
Poona	39·5	+2·6	42·4	30	20·9	+1·2	15·1	2	0	8·2	−6·8	8·2	10	1	−0·3	10·0	7·9	..	0	1	0	0	2	0	0	0	0	1	0
Jeur	41·2	+2·3	43·5	30	23·5	+0·7	17·3	3	0	13·1	−2·4	7·7	9	2	+0·5	11·5	10·0	+0·4	0	2	0	0	3	0	0	0	0	0	0
Baramati	40·7	+1·9	43·5	30	22·8	+0·5	17·8	17	0	6·2	−1·0	6·2	8	1	+0·4	12·4 (b)	11·5	+1·1	0	1	0	0	2	0	0	0	0	0	0
Sholapur	40·6	+0·9	43·2	30	25·1	+1·0	21·0	3	0	0	−13·5	0	..	0	−1·2	10·8	9·0	−1·3	0	0	0	0	3	0	0	0	0	0	0
Miraj	39·2	+1·9	41·0	15	21·7	+0·6	17·9	3	0	41·0	−9·5	22·2	29	2	−1·1	..	..	..	0	4	0	0	9	0	0	0	0	0	0
Kolhapur	38·7	+1·9	41·0	21	25·5	+0·2	16·7	29	1·5	56·7	+23·4	34·0	29	3	+0·2	9·8	10·2	−2·9	0	6	0	0	1	0	0	0	0	0	0
Marathwada																													
Aurangabad	40·1	+1·6	42·6	29,30	25·0	+1·8	18·0	2	0	20·8	+11·7	16·6	11	2	+1·4	13·9	13·3	+1·2	0		0	0	2	0	0	0	0	0	0
Aurangabad (Chikalthan)	40·0	..	42·5	29	23·1	..	16·1	5	0	7·4	..	6·2	12	2	..	16·7	13·7	..	0	2	0	0	3	0	0	0	0	0	0
Parbhani	41·5	+1·7	44·8	30	24·2	+0·2	19·3	2	0	4·6	−5·7	4·6	8	1	−0·3	10·8	7·9	−1·0	0	1	0	0	1	0	0	0	0	0	0
Nander	42·1	..	45·5	30	23·4	..	17·3	3	0	0	..	0	..	0	..	5·5	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Bir	41·5	..	44·6	30	23·2	..	17·5	2	0	1·0	..	1·0	8	0	..	10·6	6·5	..	0	1	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	41·3	+2·1	44·3	28,30	26·1	+1·6	22·5	3	0	7·8	−4·7	7·8	9	1	−0·4	7·6	4·6	−0·2	0	1	0	0	2	0	0	0	0	0	0
Nagpur (Sonegaon)	41·8	+1·6	45·5	30	25·1	+1·0	19·8	19	0	0	−15·2	0	..	0	−1·3	13·4	10·7	..	0	0	0	0	0	0	0	0	0	1	0
Amraoati	42·3	+2·1	45·2	14,29	26·1	+1·4	19·9	2	0	0	−8·6	0	..	0	−0·8	13·4	9·9	+2·5	0	0	0	0	1	0	0	0	0	0	0
Akola (Aerodrome)	42·3	..	45·7	30	25·0	..	20·2	5	0	6·0	..	6·0	10	1	..	12·3	9·5	..	0	1	0	0	1	0	0	0	0	0	0
Akola	42·2	+1·4	45·2	30	25·5	+1·7	19·4	5	0	5·4	+0·3	5·4	10	1	+0·5	10·2	7·5	+0·3	0	1	0	0	0	0	0	0	0	0	0
Bramhapuri	41·5	..	45·2	30	26·1	..	21·3	24	0	0	..	0	..	0	..	10·1	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Buldhana	38·9	+1·8	42·0	30	26·0	+0·9	21·9	2	0	2·0	−6·9	2·0	10	0	−0·9	10·4	9·2	−1·6	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	41·8	+2·4	45·0	30	27·1	+1·9	22·4	3	0	2·0	−14·2	2·0	10	0	−1·4	14·5	12·8	+1·2	0	1	0	0	0	0	0	0	0	0	0

(b) Means of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours.	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	
Vidarbha—*Contd.*																													
Chanda	42·2	+1·4	45·7	30	26·5	+2·1	22·0	3,4	0·8	10·6	−9·2	9·8	24	1	−0·8	10·3	6·7	+2·0	0	2	0	0	7	0	0	0	0	0	
Pusad	42·5	..	45 0	30	25·9	..	19·3	5	0	0	..	0	..	0	..	10·2	7·5	..	0	0	0	0	0	0	0	0	0	0	
Sironcha	41·3	+1·4	43·5	30	27·2	+0·5	23·2	15	0	7·4	−9·4	7·4	15	1	−0·3	9·3	7·5	+1·1	0	1	0	0	0	0	0	0	0	0	
Coastal Andhra Pradesh																													
Kalingapatan	32·3	−1·3	33·2	13,28	24·8	−0·9	21·4	23	0	13·6	−5·7	12·0	28	1	−0·5	..	..	..	0	2	0	0	0	0	0	0	0	0	
Vishakhapatnam	34·9	−1·0	36·7	17	26·3	+1·0	23·4	10	0	5·8	−12·2	5·8	22	1	−0·3	26·8	16·2	+2·5	0	1	0	0	1	0	0	0	0	0	
Kakinada	36·6	+1·0	38·1	30	26·1	+0·3	25·2	22,23	0	0	−16·3	0	..	0	−1·0	13·2	9·5	+1·3	0	0	0	0	0	0	0	0	0	0	
Nidadavole	35·4	..	37·0	13,30	25·6	..	22·6	10	0	0	..	0	..	0	..	6·9	6·0	..	0	0	0	0	1	0	0	0	0	0	
Rentachintala	41·3	+2·7	44·2	19	27·3	+1·1	24·1	10	0	0	−30·2	0	..	0	−2·7	8·5	9·2	−1·4	0	0	0	0	0	0	0	0	0	0	
Gannavaram	37·2	−0·6	40·4	18	26·1	+0·5	23·4	10	0	0	−14·8	0	..	0	−0·7	21·0	15·0	+2·0	0	0	0	0	1	0	0	0	0	0	
Nagarjunakonda (R)																													
Masulipatnam	34·1	−0·5	35·2	4 days	25·8	+0·4	23·1	10	0	0	−17·5	0	..	0	−0·9	5·8	4·1	−5·2	0	0	0	0	1	0	0	0	0	0	
Ongole	36·7	..	41·4	18	26·1	..	24·4	12	0	0	..	0	..	0	..	18·5	12·9	..	0	0	0	0	0	0	0	0	0	0	
Nellore	38·5	+1·1	42·5	18	26·1	+0·9	24·0	8	0	0	−12·2	0	..	0	−0·6	14·4	14·3	+5·3	0	0	0	0	0	0	0	0	0	0	
Telangana																													
Ramgundam	41·6	+1·3	44·4	30	27·2	+0·5	23.1	24	0	14·2	+4·3	8·2	24	2	+1·3	9·9	8·5	+0·6	0	2	0	0	2	0	2	0	0	0	
Nizamabad	41·4	+1·6	44·5	30	25·8	+1·2	22·0	3,5	0	0	−21·6	0	..	0	−2·0	..	..	..	0	0	0	0	0	0	0	0	0	0	
Hanamkonda	40·1	+1·9	43·9	30	25·2	+0·1	21·1	24	0	0	−23·1	0	0	0	−1·6	12·5	12·8	+3·3	0	0	0	0	2	0	1	0	0	0	
Hakimpet (Aerodrome)	38·2	..	41·2	30	24·3	..	21·0	10	0·5	9·3	..	4·0	1	2	..	..	..	..	0	4	0	0	6	0	0	0	0	3	
Bhadrachalam	39·6	+0·3	41·6	18	26·4	+0·7	22·6	21	4·0	8·0	−14·9	4·0	4,21	2	+0·4	10·0	9·3	−0·3	0	2	0	0	3	0	0	0	0	0	
Hyderabad (Begumpet)	38·3	+1·2	41·3	30	23·5	−0·2	20·8	4	11·1	47·1	+17·4	17·8	15	4	+2·1	12·0	9·8	−0·7	0	4	0	0	8	0	0	0	0	4	
Khammam	39·5	..	42·6	18	26·4	..	25.0	19	4·0	31·0	..	12·0	20	3	..	8·3	8·7	..	0	3	0	0	3	0	3	0	0	0	
Mahbubnagar	39·1	..	41·6	19	25·1	..	21·9	11	9·8	16·2	..	6·2	23	3	..	8·5	7·2	..	0	5	0	0	4	0	2	0	0	0	
Rayalaseema																													
Kurnool	40·6	+0·8	42·7	30	26·0	−0·1	23·3	18	3·0	14·0	−3·0	6·0	8	3	+1·5	9·3	7·9	+0·3	0	3	0	0	0	0	0	0	0	0	
Nandyal (R)																													
Anantapur	39.8	+1·3	41·4	19	26·1	+0·5	23·4	27	4·1	7·2	−8·9	4·5	27	1	−0·2	10·4	10·0	−3·3	0	3	0	0	2	0	1	0	0	0	
Cuddapah	41.2	+0·8	43·3	19	27·9	+0·7	24·2	12	0	0	−14·5	0	0	0	−1·1	2·9	1·9	−9·4	0	0	0	0	0	0	0	0	0	0	
Arogyavaram	36·6	..	38·4	19,20	22·1	..	19·2	8,9,12	0	5·4	..	5·4	2	1	..	9·6	9·1	..	0	1	0	0	0	0	0	0	0	0	
Madras State																													
Madras	33·9	..	34·9	24	26·1	..	23·7	8	..	0	..	0	..	0	..	..	9·3	..	0	0	0	0	0	0	0	0	0	0	
Madras (Minambakkam)	36·1	+0·8	37.7	30	26·4	+0·8	24·5	8	0	0	−15·5	0	..	0	−0·9	19·1	14·0	+2·6	0	0	0	0	0	0	0	0	0	0	
Vellore	37.7	+0·6	40·6	18	24·6	0	21·5	12	0	0	−25·4	0	..	0	−1·5	9.4	10·1	+4·1	0	0	0	0	1	0	0	0	0	0	
Tambaram (Aerodrome)	37·2	..	39·0	17,27	26·0	..	23·9	10	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	
Tiruppattur	37·9	..	39·8	19	22 2	..	19·0	9	0	0	..	0	..	0	..	6·4	4·9	..	0	0	0	0	0	0	0	0	0	0	
Mettur Dam R. S.	38·7	..	40·4	19	27·8	..	26·2	1	0	0	..	0	..	0	..	8·6	11·0	..	0	0	0	0	0	0	0	0	0	0	
Cuddalore	33·1	−0·3	34·8	26	25.8	+0·4	24·1	3,8	0	0	−24·9	0	..	0	−1·1	18·9	14·2	+6·0	0	0	0	0	0	0	0	0	0	0	
Kallakkurichchi	37·4	..	40·1	19	25·6	..	22·7	12	0	0	−34·5	0	..	0	−1·7	8·0	7·0	..	0	0	0	0	0	0	0	0	0	0	
Salem	38·3	+0·4	40·1	19	26·1	+1·4	23·7	12	9·6	14·0	−35·0	9·6	19	2	−1·6	8·5	9·7	+3·4	1	2	0	0	3	0	0	0	0	0	
Coimbatore (Pilamedu)	36·7	..	38·2	13	24·1	..	21·9	20	27·8	6·5	..	3·5	20	1	..	13·8	14·4	..	0	3	0	0	6	0	0	0	0	1	
Coimbatore	37·1	+1·3	38·8	13	24·0	+0·9	22·5	11	..	1·0	−39·1	1·0	17	0	−3·2	..	6·8	+2·6	0	1		0	2	0	0	0	0	0	
Nagapattinam	32·7	−0·6	35·0	17	27·7	+1·2	25·5	8	0	0	−28·2	0	..	0	−1·3	20·2	18·5	+8·4	0	0	0	0	0	0	0	0	0	0	
Tiruchirappalli	38·0	+0·2	39·9	19	26·4	+0·8	24·4	10	0	0	−45·7	0	..	0	−2·0	10·5	11·6	+2·7	0	0	0	0	1	0	0	0	0	0	
Vedaranniyam	35·2	..	36·6	19,20, 21	27·1	..	25·0	8	2·6	2·6	..	2·6	9	1	..	9·5	7·7	..	0	1	0	0	0	0	0	0	0	0	
Atirampattinam	33·7	..	34·6	19	27·3	..	25·0	4 days	11·8	42·2	..	30·4	9	3	..	18·2	14·8	..	0	3	0	0	0	0	0	0	0	0	
Madurai	37·5	+0·9	39·1	19	26·2	+1·4	24·1	15	..	(b) 4·0	..	..	..	..	..	..	5·3	+0·6	..	..	0	0	2	0	0	0	0	0	
Madurai (Aerodrome).	37·7	..	40·0	19	25·1	..	23·5	22	4·0	5·0	..	4·0	22	1	..	9·1	8·7	..	0	2	0	0	7	0	0	0	0	2	
Tondi	32·7	..	34·0	20,23	28·4	..	26·6	22	7·6	8·8	..	8·8	27	1	..	20·0	17·8	..	0	1	0	0	1	0	0	0	0	0	
Pamban	33·7	+0·9	34·6	4 days	27·3	+0·8	25·4	24	14·6	25·0	−21·7	14·6	8	3	−0·2	10·1	9·7	−0·1	1	4	0	0	0	0	0	0	0	0	
Tuticorin	32·5	+0·6	35·5	25	26·4	−0·1	25·5	6, 15, 18	0	2·9	−62·5	1·7	9	0	−3·8	19·7	13·4	−0·2	0	2	0	0	0	0	0	0	0	0	
Palayankottai	36·0	+0·6	38·2	17	25·9	0	24·4	11	15·8	21.4	−49·4	10·6	12	3	−0·9	3·5	2·4	−4·7	0	3	0	0	2	0	0	0	0	0	
Kanniyakumari	33·3	..	35·3	18	26·5	..	24·2	28	4·4	18·2	..	6·4	28	4	..	14·5	11·9	..	0	4	0	0	0	0	0	0	0	0	
Coastal Mysore																													
Karwar	32·8	+1·2	35·0	27	..	..	..	27	0	0	−16·8	0	..	0	−1·0	16·6	12·3	..	0	0	0	0	0	0	0	0	0	0	
Honavar	38·2	+0·5	33·8	16,22, 23	25·7	+0·4	23·1	7	2.4	3·1	−12·6	3·1	22	1	−0·2	12·2	9·4	+4·1	0	1	0	0	3	0	0	0	0	0	
Mangalore (Bajpe)	34·3	..	36·6	30	25·6	..	24·2	28	0·3	0·5	..	0·3	22	0	..	12·4	7·8	..	2	1	0	0	6	0	0	0	0	0	
Mangalore	33·7	+0·8	35·1	30	27·5	+1·7	23·8	28	0	2·6	−36·3	2·0	30	0	−2·3	12·7	9·5	+1·5	0	2	0	0	3	0	0	0	0	0	

(b) Total for 29 days.

(R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—APRIL, 1964 (CHAITRA 12—VAISAKHA 10, 1886 SAKA)

Sub-Division and station	Air temperature in °C.								Rain fall millimeters					No. of rainy days (205 mm. or more)		Wind speed, kms. per hour.			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hour	Mean 24 hours	Departure from normal	Precipitation 0·1 or 0.2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (North)																													
Bidar	38·9	+1·8	41·8	30	25·4	+1·0	22·9	3	0	5·4	—20·0	5·0	27	1	—1·1	12·6	12·2	+1·9	0	2	0	0	0	0	0	0	0	0	0
Gulbarga	40·7	+1.0	43·0	30	26·0	+1·4	23·6	10	0·6	12·0	—9·1	11·4	29	1	—1·1	13·2	10·8	+0·5	0	2	0	0	5	0	0	0	0	0	0
Bijapur	39·9	+1·7	42·6	14	24.5	+0·9	21.4	27	0	17.0	—4·6	15·0	15	1	—0·8	5·8	5·5	—1·9	1	2	0	0	0	0	1	0	0	0	0
Raichur	40·7	+1.5	42·5	30	27·2	+1·2	23.6	1	1·8	7·3	—9·0	5·5	1	1	—0.4	11·2	11·2	+1·5	0	3	0	0	1	0	0	0	0	0	0
Belgaum	36·2	—0·1	38·4	19	20·9	+1·3	18·1	6	61·2	76·6	+32·1	29·8	22	7	+3·7	6·5	4·6	—3·2	0	7	0	2	6	0	0	0	0	0	0
Belgaum (Sambra)	36·3	..	38·5	20	21·1	..	18·4	5,7	8·1	16·7	..	4·8	29	3	..	10·8	9·3	..	1	8	0	0	10	0	0	0	0	0	0
Gadag	37·9	+0·8	40·5	15	23·0	+0·6	19·5	27	22·4	58·8	+21·7	43·6	27	2	—0·8	9·1	10·5	+0·7	0	2	0	0	6	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	40·6	+1.3	42·6	14	26·2	+1·0	23·1	12	3.0	6.0	—15·3	6.0	27	1	—0·9	8·4	6·7	+0·4	0	1	0	0	1	0	0	0	0	0	0
Chitradurga	37·0	+0·7	38·5	15	23·6	+0·9	22·1	18	0	10·3	—14·3	7·5	27	1	—1·0	7·5	7·4	+0·5	0	3	0	0	2	0	0	0	0	0	0
Shimoga (R)																													
Agumbe	31·9	..	34·8	13	20·2	..	17·2	4	..	1·4	..	0·6	21	0	..	..	3·7	..	0	3	0	0	0	0	0	0	0	0	0
Balehonnur	33·3	+2·6	36·1	13	20·4	+1·5	17·8	29	0	96·7	+6·5	53 4	29	7	+0·5	..	..	..	0	8	0	1	6	0	0	0	0	0	0
Hassan	35·0	+1·4	36·7	13	20·4	+0·8	15·1	5	2·2	54·8	—1·1	30·4	30	3	—1·2	6·8	6·8	+0·5	0	6	0	0	11	0	0	0	0	0	0
Bangalore	34·9	+1·3	37·1	19	22·2	+1·6	19·3	9	9·4	10·0	—30·9	4·7	36	2	—0·6	8·9	7·9	+1·0	0	4	0	0	5	0	0	0	0	2	0
Bangalore (Aerodrome)	34·6	..	35·8	20	21·1	..	17·8	12	7·7	9·8	..	5·2	26	2	..	..	..	..	0	3	0	0	3	0	0	0	0	1	0
Mysore	35·9	+1·1	37·0	29	22·1	+0·8	20·6	17,18	1·0	30·0	—28·4	26·0	6	2	—2·6	9·6	8·0	+0·3	0	2	0	0	2	0	0	0	0	0	0
Kerala																													
Calicut	33·7	+0·9	34·9	23	26·6	+0·8	24·0	5	0	48·2	—42·7	35·2	5	3	—1·2	17·0	13·4	+2·6	0	4	0	0	7	0	0	0	0	0	0
Palghat	38·3	..	41·0	14	26·3	..	23·8	28	0	5·0	..	5·0	28	1	..	11·9	9·9	..	0	1	0	0	4	0	0	0	0	0	0
Fort Cochin	32·6	+1·2	33·8	30	26·4	+0 5	23·9	16	1·7	125·7	+0·2	39·2	16	8	+1·3	12·9	8·5	0	1	11	0	0	13	0	0	0	0	0	0
Cochin (Naval Air Station)	33·1	..	34·4	30	26·3	..	23·9	15	0	101·3	..	34·1	5	8	..	14·0	10·3	..	0	10	0	0	22	0	0	0	0	1	0
Alleppey	33·7	+1·1	34·6	15	26·4	+0·7	23·3	16	2·4	165·9	+3·2	64·0	5	10	+1·5	15·9	11·3	—0·8	0	13	0	0	14	0	0	0	0	0	0
Punalur	32·8	..	36·3	8	24.5	..	22·9	26	49·0	207·9	..	31·4	28	10	..	5.3	3·8	..	0	11	0	0	0	0	0	0	0	0	0
Trivandrum	32·9	+0·6	34·5	19	25·6	+0·5	22·0	28	61·3	77·4	—38·2	50·0	28	5	—1·9	12·2	7·5	+0·6	1	8	0	0	13	0	0	0	0	0	0
Trivandrum (Aerodrome)	32·7	..	33·6	18	26·0	..	22·3	28	..	40·0	..	16·2	28	4	..	..	8·8	..	1	7	0	0	12	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicopy*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																													
Dalhousie	22·3	—0·5	27·0	14	11·2	—0·7	5·0	3, 4	35·0	141·0	+62·2	49·0	16	7	+2·1	2·8	4·6	—1·7	0	9	0	0	3	0	0	0	0	0	0
Dharmsala	26·2	+0·1	30·9	11,29, 30	17·2	+0·4	10·8	17	30·4	76·5	+29·5	19·6	16	6	+2·7	8·4	6·2	—0·1	0	8	0	0	5	0	0	0	0	0	0
Simla	20·6	+1·8	24·7	29	12·2	+1 9	5·6	18	10·1	33·5	—12·5	7·8	28	5	+0·9	2·3	1·4	—1·4	1	6	1	0	2	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	9·5	—25·6	7·7	3	1	—1·7	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Lokpal	—3·0	..	—0·6	29	—8·9	..	—10·9	4	..	116·8	..	45·4	17	6	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Badrinath	Closed during winter months																												
Joshimath	21·3	..	28·1	30	10·8	..	5·9	17	47·7	87·2	..	23·8	4	7	..	4.3	7·5	..	0	10	0	0	1	0	1	0	0	0	0
Mussoorie	22·3	+1·6	28·2	12	12·4	+0·8	6·3	4,17	3·0	8·0	—25·8	3·0	1,4	2	—1·8	11·7	9·8	+1·4	0	2	0	0	4	0	0	0	0	0	0
Mukteswar (Kumaun)	22·5	+2·6	26·9	30	10·8	+0·6	6·1	16	2.4	13·0	—22·8	3·6	23	3	—0·3	18·0	15·7	+4·9	0	4	0	1	1	0	0	0	0	0	0
Nainital	21.5	+0·3	28·0	14	12·4	+0.3	7.0	18	0	12·0	—12·7	8·0	16	2	0	10·3 (b)	8·2 (b)	+0·1	0	3	0	0	0	0	0	0	0	0	0
Kalimpong	24·8	+1·4	29·6	22	14·9	—0·4	8·9	8	36·2	121·2	+51·9	25·9	22	8	+2·2	11·0	8·9	—3·8	0	8	0	0	0	1	0	0	0	0	0
Darjeeling	17·0	—0·3	20·6	6	10·6	+0·3	7·2	18	48·4	101·6	—3·6	31·0	14	11	+3·5	3·7	3·3	—0 2	0	14	0	0	8	12	0	0	0	0	0
Kohima	22·7	..	25·7	11	14·6	..	10·1	18	87·4	130·2	..	16·4	25	15	..	..	4·3	..	0	17	0	1	0	0	0	0	0	0	0
Shillong	22·8	—0·6	27·4	11	13 5	—0.4	10·1	14,22	161·3	231·5	+102·0	79 9	21	16	+6·8	6·1	7·4	—1·0	1	16	0	0	5	1	0	0	0	0	0
Cherrapunji (R)																													
Abu	30·7	+1·6	35·6	24	..	..	..	..	0	0	—2 8	0	..	0	—0·3	19·0	12·1	+2·6	0	0	0	0	0	0	0	0	0	0	0
Aijal	25·1	..	29·4	11	16·2	..	11·2	2	102·7	390·3	..	57·2	2	13	..	..	..	..	0	14	0	2	0	0	0	0	0	0	0
Pachmarhi	34·4	+1·1	37·3	27	20·4	0	16·2	5	0	0	—9·4	0	..	0	—0·9	7·7	5·5	—1.3	0	0	0	0	1	0	0	0	0	0	0
Mahabaleshwar	32·1	+2·4	35·1	14	19·3	+0.4	16·2	29	2·1	24·6	—5·4	13·2	10	2	+0·5	13·2	13·4	+2·1	0	3	0	0	2	0	0	0	0	0	0
Mercara	30·3	+1·6	32·8	13	18 4	+0·7	16·0	12	11·0	29·4	—35·6	10·8	22	4	—1·1	10·2	8·2	+3·1	0	6	0	0	3	0	0	0	0	0	0
Ootacamund	23·9	+2·0	26·1	13	9·9	—0·9	7·0	12	5·4	12·6	—64·6	8·6	17	2	—4·5	8·3	4·7	—0·6	0	4	0	0	4	0	0	0	0	0	0
Coonoor (R)																													
Kodaikanal	21·0	+0·9	23·0	19	11·5	—0·2	9.7	10	47·2	106·6	—15·8	36·7	17	5	—2·7	12·2	11·1	—1·0	1	7	0	2	12	0	0	0	0	0	0
Nepal																													
Katmandu	27·7	..	33·8	10	12·3	..	8·1	5	32·3	77·9	..	20·6	17	6	..	2·3	1·8	..	0	10	0	3	10	0	0	0	0	0	0
Sikkim																													
Lachen	14·6	..	18·2	12	4·9	..	0·5	18	..	114·2	..	24·0	22	10	..	..	..	..	3	17	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	36·9	..	41.7	14	23·0	..	18·6	6·7	20·0	27·7	..	20·0	26	2	..	12·8	9·2	..	0	3	0	0	2	0	1	0	0	0	0
Hazaribagh	35·8	..	39·9	14	21·2	..	17 2	24	1·4	4·7	..	3·3	23	1	..	13·3	7·3	..	0	2	0	0	4	0	0	0	0	0	0
Konar	37·3	..	41·6	9	27·2	..	19·1	23	7·8	8·8	..	5·0	23	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	

*Data given as addenda in December, 1964 issue. (R) Register not received (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground rost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.—(*Contd.*)																													
Damodar Catchment.—(*Contd.*)																													
Bokaro	40·0	..	42·4	26	22·4	..	18·9	7	2·0	2·0	..	2·0	23	0	..	10·1	7·1	..	0	1	0	0	1	0	0	0	0	0	0
Maithon	38·9	..	44·4	14	22·6	..	18·9	8	16·7	55·5	..	38·0	27	2	..	9·5	7·8	..	0	3	0	0	2	0	0	0	0	0	0
Ramgarh	38·8	..	43·4	14	23·0	..	18·2	24	23·6	23·8	..	16·1	26	2	..	6·6	3.9	..	1	2	0	0	0	0	0	0	0	0	0
Panchet Hills	38·3	..	44·2	14	24·5	..	20·1	24	11·4	39·4	..	27·8	26	2	..	7·8	5·6	..	0	3	0	0	0	0	0	0	0	0	0
Durgapur	38·5	..	43·8	14	24·2	..	19·6	23	10·1	34·1	..	15·0	27	3	..	14.0	11·1	..	0	4	0	0	0	0	0	0	0	0	0
Mahanadi Catchment.																													
Gimabahar	39·2	..	42·4	14	22·0	..	18·3	1	..	18·8	..	10·5	10	2	..	..	..	..	0	6	0	0	3	0	0	0	0	0	0
Hirakud	40·1	..	43·4	14	25·3	..	21·1	29	10·3	15·1		10·3	24	2	..	6·1	5·1	..	2	2	0	0	7	0	0	0	0	2	0
Bhimkund	37·5	..	42·2	15	23·0	..	18·8	24	22·8	69·5	..	25·0	28	6	..	(c) 8·5	(c) 4·5	..	0	9	0	0	18	1	0	0	0	0	0
Sonepur	40·4	..	43·1	13,14	26·9	..	22·7	3	..	0	..	0	..	0	..	..	6·9	..	0	0	..	..	..	..	..	..	..	..	..
Khijrawan	40·1	..	43·1	30	24·0	..	19·0	3	0	0	..	0	..	0	..	13·9	8·8	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	41·9	..	45·2	30	23·9	..	18·4	5	0	0	..	0	..	0	..	7·6	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Punasa	42·1	..	45·6	30	23·7	..	19·7	2,4	0	0	..	0	..	0	..	8·5	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	42·7	.	46·5	30	24·4		19·0	4	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Daroi	39·9	.	43·0	29	21·8	..	17·6	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	..	..	..	..	4·6	..	2·4	9,12	0	5·0	..	5·0	18	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	67·8	88·0	..	43·8	4	6	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Timure	25·4	..	29·0	11,12	12·4	..	8·6	18	0	44·6	..	19·1	15	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Pokhara	29·2	.	34·8	11	17·7	..	13·3	17,18	87·9	13·8	..	24·8	13	11	..	4·9	4·4	..	1	15	0	5	14	0	0	0	0	1	0
Gorkha	28·0	..	32·5	10,11	19·0	..	13·5	18	32·2	56·0	..	9·6	4	7	..	..	..	..	0	12	0	0	12	0	0	0	0	0	0
Nuwakot	30·4	..	35·0	10,11	19·4	..	15·0	23	20·5	85·0	..	30·4	18	7	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	28·4	..	30·8	15	14·4	.	12·3	1	19·8	25·8	.	15·8	25	2	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Ghaghara Catchment.																													
Dadeldhura	24·2	..	28·4	13	13·5	..	8·5	17	13·5	33·3	..	9·4	26	5	..	8·1	6·2	..	0	6	0	0	6	0	0	0	0	0	0
Sallayana	28·1	..	33·0	12	(n) 15·3	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..
Butwal	35·3	..	39·9	11	23·2	..	19·6	5	5.6	26·6	..	10·6	23	4	..	..	..	..	0	4	.	..	..	..	..	..	..	..	..
Baghmati Catchment.																													
Katmandu*																													
Kosi Catchment.																													
Chautara	26.7	..	31·9	10,11	14·1	..	10·1	18	82·6	160·3	..	43·9	13	10	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..		..	..	..	38·6	204·0	..	60·6	20	13	..	..	..	.	1	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	11·7	..	14·7	12	(d) 3·7	..	1·1	19	3·1	14·5	..	2·0	1,27	0	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Taplethok	24·9	..	29·7	13	14·5	..	11·5	18	37·8	282·4	..	56·0	10	16	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Bhojpur	22·2	..	26·1	2	14·7	..	10·6	18	10·0	80·8	..	32·5	22	7	..	..	..	.	0	8	..	.	..	..	..	..	..	..	..
Taplejung	21·8	..	26·1	10	12·4	..	9·4	18	19·3	154·7	..	29·6	30	14	..	..	..	..	1	21	0	1	12	3	0	0	0	0	0
Okhaldunga	23·0	..	26·4	10,11	13·0	..	10·1	18	34·1	79·8	..	36·2	12	6	..	5·3	5·2	.	1	11	0	0	0	3	0	0	0	0	0
Chainpur	26·4	..	30·9	10	16·2	..	13·2	22	5·6	199·4	..	78·8	30	8	..	..	..		0	13	..	..	..	..	..	..	..	..	..
Angbung	(o) 25·7		28·4	20	(c) 13·5	..	11·0	19	2·1	155·5	..	40·0	16	7	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Barahakshetra	33·5	..	36·3	2	21·4	..	18·5	17	17·4	61·4	..	18·6	28	4	..	11·7	7·4	.	0	6	0	0	8	0	0	0	0	0	0
Tista Catchment.																													
Gangtok	20·9	..	23·7	13	11·9	..	8·2	20	56·8	333·4	..	61·4	4	22	..	2·1	2·3	..	1	24	0	3	13	13	0	0	0	0	0
Gezing	23·5	..	27·4	30	13·4	..	9·7	18	14·4	76·7	..	10·5	1	11	..	..	..	..	0	7	..	..	..	..	..	..	..	.	..

(o) Mean of 16 days. *Data included under 'Nepal'. d Mean of 27 days. (n) Mean of 17 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	N	E	SE	S	SW	W	N	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	29	28
Bay Islands																											
Maya Bandar	0830	28	1010·7	1007·5	..	30·0	26·3	24·7	31·1	73	..	2·8	..	3·4	0	0	19	0	17	1	1	0	0	0	0	11	0
	1730	,,	1008·0	1004·9	..	29·2	25·9	24·5	30·7	75	..	5·2	..	6·8	0	0	25	1	22	2	0	0	0	0	0	5	0
Long Island	0830	25	1010·3	1007·5	..	30·2	26·1	24·3	30·4	69	..	3·7	..	2·9	0	0	25	0	5	8	7	1	1	3	0	5	0
	1730	,,	1007·4	1004·5	..	28·9	25·5	24·0	29·8	75	..	4·5	..	0.9	0	0	12	0	6	4	2	0	0	0	0	18	0
Port Blair	0530	79	1008·8	999.9	..	25·3	24·2	23·7	29·3	91	..	3·3	..	2·3	0	0	14	0	1	2	1	2	3	4	1	16	0
	0830	,,	1010·4	1001.7	−0·2	31·9	26·1	23·5	26·9	61	−12	3·7	0	8·5	0	0	23	2	14	10	2	0	0	0	0	2	0
	1130	,,	1009·3	1000·7	..	33·2	26·5	23·6	29·1	57	..	3·4	..	11·3	0	0	30	0	11	16	3	0	0	0	0	0	0
	1730	,,	1007·5	996·7	..	29·3	25·2	23·3	28·6	71	..	4·1	..	4·4	0	0	23	0	7	14	0	1	0	0	1	7	0
	2330	,,	1009·0	1000·1	..	26·8	24·7	23·7	29·3	84	..	3·0	..	1·7	0	0	9	0	5	4	0	0	0	0	0	21	0
Car Nicobar	0830	10	1010·1	1008·9	..	30.6	26·3	24·5	30·7	69	..	3·9	.	3·2	0	0	29	0	20	5	3	0	0	0	0	1	1
	1730	,,	1007·1	1005·9	..	29.3	25·7	24·1	30·0	74	..	3·6	..	1·3	0	0	21	0	20	0	1	0	0	0	0	9	0
Nancowry	0830	26	1010·1	1007·2	..	30.8	27·1	25·5	32·6	73	..	4·2	..	0.5	0	0	2	0	0	0	1	0	1	0	0	28	0
	1730	,,	1007·1	1004·2	..	29·6	26·5	25·3	32·2	77	..	4·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Kondul	0830	8	..	..	..	29·3	26·3	25·0	31·7	77	..	4·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·6	26·3	25·3	32·2	82	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1010.4	992·5	..	22·7	19·7	17·9	20·5	76	..	5·7	..	11·1	0	5	24	4	2	2	0	0	0	0	21	1	0
	1730	,,	1006·1	988·9	..	23·7	21·4	20·1	23·5	81	..	5·6	..	4·0	0	1	19	2	0	3	2	0	3	1	9	10	0
Dibrugarh (Mohanbari)	0230	111	1007·3	994.5	..	20·1	19·2	18·7	21·6	91	..	6·4	..	4·6	0	1	15	2	7	4	0	0	0	1	0	16	0
	0530	,,	1008.5	995·8	..	19·7	18·9	18·4	21·1	93	..	6·4	..	4·1	0	2	16	2	15	1	0	0	0	0	0	12	0
	0830	,,	1010·1	997·4	−0·8	23·1	20·3	18·7	21·6	76	2	5·9	+0·8	8·0	0	1	27	1	14	12	1	0	0	0	0	2	0
	1130	,,	1009·0	996·4	..	25·6	21·3	18·9	21·8	68	..	5·9	..	6·7	0	0	29	2	11	12	2	1	0	1	0	1	0
	1430	,,	1006·2	993·7	..	26·3	21·5	18·8	21·7	65	..	5·6	..	7·9	0	3	24	1	9	9	2	3	1	2	0	3	0
	1730	,,	1006·0	993·4	..	24·2	21·1	19·3	22·4	75	..	6·0	..	4·3	0	0	29	2	9	1	3	1	2	0	1	11	0
	2030	,,	1007·9	995.2	..	21.8	20.3	19.5	22.7	87	..	5.2	..	4.9	0	1	17	2	10	2	1	0	2	1	0	12	0
	2330	,,	1008.0	995.2	..	20.8	19.6	18.9	21.8	90	..	5.4	..	3.6	0	1	12	0	9	3	0	0	1	0	0	17	0
Digboi (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1010·6	998·9	+0·1	22·9	20·9	19·8	23·1	81	+5	6.3	+1·1	3.9	0	0	27	1	16	5	2	1	1	1	0	3	0
	1130	,,	1009·5	997·9	..	25·7	21·8	19·7	22·9	70	..	6·1	..	4·5	0	0	29	0	16	8	1	2	0	2	0	1	0
	1430	,,	1006.5	994.9	..	26.3	21.8	19.3	22.4	68	..	6·5	..	4.3	0	0	27	0	16	5	3	3	0	0	0	3	0
	1730	,,	1006·6	994·9	..	24·3	22·0	20·7	24·4	81	..	6·2	..	2·5	0	0	21	3	13	3	0	1	1	0	0	9	0
Sibsagar	0830	97	1010·5	999·5	+0·1	23·8	21·5	19·8	23·1	79	−2	6·5	+0.5	4·0	0	0	25	13	5	1	0	0	1	0	0	5	0
	1730	,,	1006·8	995·9	..	25·3	21·9	20·0	28·4	74	..	6·3	..	3·3	0	0	24	17	4	1	2	0	0	0	0	6	0
Gohpur	0830	..	..	..	..	22·6	20·7	19·7	22·9	83	..	6·2	..	4.9	0	0	28	0	17	0	10	1	0	0	0	2	0
	1730	..	..	..	..	25·1	22·2	20·7	24·4	75	..	6·1	..	5·3	0	1	26	0	11	1	12	0	1	0	0	3	2
Majbat	0830	..	..	..	..	24.4	21.5	19·9	23·2	77	..	4·6	..	4·1	0	0	28	0	7	14	4	1	0	0	1	2	1
	1730	..	..	..	..	25.4	22·3	20·7	24·4	75	..	3·4	..	1·6	0	0	16	1	3	8	1	0	0	0	2	14	1
Jorhat (Aerodrome)	0530	90	1007·9	997·6	..	20·3	19·9	19·5	22·7	96	..	6·3	..	4·0	0	2	8	1	5	2	1	0	1	0	0	20	0
	0830	,,	1009.9	999·6	..	23·6	20·9	19·4	22·5	78	.	6·1	..	6·8	0	3	15	3	12	0	1	0	2	0	0	12	0
	1130	,,	1008·7	998.4	..	26·2	22·0	19·4	25·5	70	..	6·0	..	9·7	0	1	25	5	12	5	0	0	4	0	0	4	0
	1730	,,	1005·7	995·3	..	24·9	21·7	20·0	23.4	73	..	5·9	..	9·1	0	3	18	3	12	2	2	1	1	0	0	9	0
	2330	,,	1007·7	997·4	..	21·5	20·2	19·6	22·8	92	..	5·3	..	3.2	0	1	9	1	6	0	0	1	1	0	1	20	0
Tezpur	0830	78	1009.7	1000.4	..	24.3	21·0	19·1	22·1	71	..	2·6	..	2·1	0	0	14	0	0	0	13	0	0	0	1	16	0
	1730	,,	1005.4	996.7	..	26.0	22·1	20·1	23.5	66	..	3·7	..	2·0	0	0	10	0	1	0	7	0	2	0	0	20	0
	0830	79	1010·5	1001·4	−0·3	22·9	20·9	19·7	22·9	82	+8	4·4	+0·3	3·6	0	0	30	5	20	4	1	0	0	0	0	0	0
	1730	,,	1006·1	997·2	..	26·2	22·1	19·9	23·2	69	..	4·4	..	2·8	0	0	28	2	13	8	0	2	3	0	0	2	0
Golaghat	0830	..	..	..	..	22·5	20.6	19.5	22.7	82	..	(d) 5·0	..	(d) 2·7	0	0	22	0	5	0	4	0	3	0	10	5	0
	1730	..	..	..	..	26·1	23·1	21·6	25·8	77	..	(g) 2·5	..	(g) 0·9	0	0	8	0	5	0	1	0	1	0	1	16	0
Rangia	0830	58	1010.5	1003·8	..	24·4	21·7	20·3	23·8	77	..	(c) 4·0	..	(c) 8·2	0	0	28	0	4	22	1	0	0	1	0	0	0
	1730	..	1006.1	999·5	..	26.4	22·7	20·8	24·6	73	..	(d) 3·6	..	(d) 5·3	0	0	24	0	5	14	2	0	2	1	0	3	0
Chaparmukh (R)	0830	66			..																						
(R)	1730	,,			..																						

(d) Mean of 27 days. (c) Mean of 28 days. (R) Register not received. (g) Mean of 24 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura —(Contd).																											
Goalpara	0830	38	1008·9	1004·5	..	23·1	21·3	20·3	23·8	85	..	4·5	..	1·5	0	0	23	2	12	4	5	0	0	0	0	7	0
	1730	"	1006·0	1001·7	..	27·8	24·1	22·3	26·9	73	..	4·5	..	1.4	0	0	19	0	10	2	5	0	0	0	2	11	0
Gauhati	0830	..	..	..	..	24.4	20·8	18·8	21·7	72	—1	3·1	—0.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	0230	54	1006·4	1000.1	..	21.5	20·3	19·6	22·8	90	..	5·0	..	6·0	0	2	14	0	8	2	2	2	0	1	1	14	0
	0530	"	1007·5	1001·3	..	20·7	19·9	19·5	22·7	93	..	4·7	..	4·2	0	0	14	2	7	3	0	0	0	1	1	16	0
	0830	"	1009·4	1003·2	—0·4	24·7	21·7	20·1	23.5	76	+3	4·6	+0.8	8·0	0	1	23	4	13	2	2	2	0	1	0	6	0
	1130	"	1008·2	1002·1	..	27·4	23·0	20·8	24·6	68	..	4·3	..	9·5	0	1	26	13	13	0	0	0	0	1	0	3	0
	1430	"	1005·2	999·0	..	28·5	23·0	20·1	23·5	62	..	4·5	..	10·2	0	1	25	6	13	3	0	0	1	2	1	4	0
	1730	"	1004·9	998·8	..	26·5	22·4	20·3	23·8	69	..	5·0	..	9·1	0	2	27	8	13	2	2	2	1	1	0	1	0
	2030	"	1007·1	1000·9	..	23.8	21·5	20·3	23·8	81	..	4·7	..	6·8	0	2	15	3	8	3	0	0	2	0	1	13	0
	2330	"	1007·1	1000·9	..	22·2	20·7	19·9	23·2	87	..	5·3	..	5·4	0	0	15	0	4	6	1	1	3	0	0	15	0
Dhubri (Rupsi)	0530	36	1006.9	1001·7	..	21·7	20.5	19.9	23·2	90	..	5·4	..	7·3	0	0	24	1	18	4	0	1	0	0	0	6	0
	0830	"	1008·8	1003·7	..	25·3	22·0	20·3	23·8	75	..	4·9	..	11·8	0	3	26	0	11	14	0	3	0	1	0	1	0
	1130	"	1007.9	1002·8	..	28·3	22·9	20·1	23·5	63	..	4·3	..	12·6	0	2	27	0	5	18	3	0	1	1	1	1	0
	1730	"	1004·1	999·0	..	27·5	23·1	20·9	24·7	68	..	3·9	..	7·6	0	1	23	1	4	12	4	1	1	1	0	6	0
Dhubri	0830	35	1009·4	1005·4	0	24·3	21·9	20·5	24·1	78	+7	5·0	+1·2	13·2	0	9	18	0	14	8	3	0	1	0	1	3	0
	1730	"	1005·3	1001·3	..	27·1	23·1	21·1	25·0	70	..	3·6	..	6·0	0	1	19	0	16	2	0	0	0	0	2	10	0
Lumding	0830	149	1010 0	993·1	..	23·9	21·1	19·5	22·7	77	+6	3·7	..	5·3	0	0	25	0	3	9	8	1	3	0	1	5	0
	1730	"	1005·3	988·6	..	26.8	22·4	20·1	23·5	64	..	3·3	..	2·7	0	0	21	1	1	4	5	6	3	0	1	9	0
Tura	0830	370	1010·2	968 7	..	24·7	21·7	20·1	23·5	75	..	7 5	..	4.8	0	0	27	0	4	4	3	5	5	5	1	3	0
	1730	"	1003·8	962·8	..	28·1	23·3	20·9	24·7	66	..	7·7	..	3·5	0	0	28	1	1	6	7	7	4	0	2	2	0
Haflong	0830	682	1011·4	935·5	..	21·0	18·6	17·1	19·5	78	..	4 5	..	9·8	0	0	30	0	0	0	0	2	20	0	8	0	0
	1730	"	1005·2	930·3	..	23·1	19·4	17·1	19·5	71	..	4·1	..	11.5	0	0	30	0	0	0	0	3	22	0	5	0	0
Silchar (Kumbhirgram)	0530	97	1007·1	996 0	..	21·0	19·9	19·1	22·1	90	..	6 0	..	8.0	0	1	25	0	1	22	3	0	0	0	0	4	0
	0830	"	1009·0	998·0	..	23·8	21·1	19.6	22·8	79	..	5·7	..	8·3	0	2	26	0	3	21	1	1	0	1	1	2	0
	1130	"	1007·6	996·7	..	27·1	22·3	19·7	22·9	66	..	5·1	..	8.4	0	1	28	0	2	13	4	0	5	2	3	1	0
	1730	"	1004·5	993·5	..	26·5	22·5	20·1	23·5	71	..	4·3	..	6·2	0	0	26	0	5	9	0	0	2	6	4	4	0
Silchar	0830	29	1010·3	1006·9	—0.6	24·4	21·9	20·5	24·1	80	+5	5·6	+1·4	1·5	0	0	21	2	5	4	3	3	1	2	1	9	0
	1730	"	1005·5	1002·2	..	26.9	23·0	21.1	25·0	71	..	4·5	..	1·5	0	0	19	3	5	2	3	1	1	2	2	11	0
Imphal (Tulihal)	0530	781	1010·2	922·9	..	17·2	16·3	15·7	17·8	91	..	6·5	..	2·7	0	1	8	2	1	1	0	1	1	1	2	21	0
	0830	"	1010·9	924·7	—0·5	21·1	18·1	16.3	18·5	74	+11	6·0	+2·7	4·0	0	1	13	1	2	1	3	2	0	2	3	16	0
	1130	"	1009·2	923·7	..	23·9	18·9	16·0	18·2	61	..	6·2	..	9·8	0	4	19	2	2	1	2	6	4	2	4	7	0
	1430	"	1005·7	921·0	..	25.4	18·8	14.8	16·8	51	..	6·1	..	12·6	0	5	22	1	2	1	1	2	5	9	6	3	0
	1730	"	1006·1	920·7	..	22·9	18·5	15·9	18·1	65	..	5·7	..	8·0	0	1	24	2	1	0	1	1	4	9	7	5	0
	2030	"	1009 0	922·6	..	20·3	18·0	16·7	19·0	80	..	5·0	..	3·9	0	0	17	1	3	0	2	0	2	5	4	13	0
	2330	"	1009·9	923·0	..	19·1	17·4	16·3	18·5	84	..	6·0	..	3·0	0	0	11	1	0	1	1	1	1	3	3	19	0
Kailashahar	0530	29	1008·5	1005·2	..	21·7	21·0	20·7	24·4	93	..	5·2	..	3·6	0	0	23	0	9	2	1	6	5	0	0	7	0
	0830	"	1010·1	1006·7	..	25·2	22·5	21·2	25·2	79	..	4·7	..	6·3	0	0	28	3	8	2	2	8	5	0	0	2	0
	1130	"	1008·9	1005·7	..	28·7	23·8	21·3	25·3	66	..	5·3	..	5·6	0	0	25	1	5	3	1	9	5	1	0	5	0
	1730	"	1005·4	1002.1	..	27·2	23·7	22·0	26·4	72	..	6·0	..	8·1	0	4	15	1	1	4	0	6	5	2	0	11	0
Agartala	0230	16	1005 7	1003·9	..	23·4	22·6	22·2	26·7	92	..	4·5	..	8·7	0	1	25	1	2	5	7	10	1	0	0	4	0
	0530	"	1006·7	1004.9	..	23·3	22·4	21·9	26·3	93	..	5·6	..	9·4	0	2	23	0	2	6	12	4	0	0	1	5	0
	0830	"	1008·2	1006·4	—0·8	27·1	24·3	23·0	28·1	79	+8	5·3	+1·4	18·5	0	17	10	0	1	1	7	16	1	0	1	3	0
	1130	"	1007·4	1005·6	..	30·7	25·5	23·2	28·4	65	..	5·7	..	17·4	0	12	18	2	0	2	5	14	5	1	1	0	0
	1430	"	1004·7	1002·9	..	31·1	25·4	22·9	27·9	62	..	5·7	..	18·8	0	16	12	1	1	1	4	14	4	2	1	2	0
	1730	"	1004·3	1002·5	..	27·8	24·4	22·8	27·7	75	..	5·9	..	20·4	0	17	11	3	1	2	3	16	3	0	0	2	0
	2030	"	1006·7	1004·9	..	25·1	23·5	22·7	27·6	87	..	4·9	..	14·7	0	8	17	1	1	5	5	10	3	0	0	5	0
	2330	"	1006·5	1004·7	..	23·9	22·9	22·4	27·1	91	..	4·2	..	11·5	0	5	21	1	3	2	11	8	1	0	0	4	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1005 9	991·0	..	22·7	20·1	18·6	21·4	77	..	4·4	..	8·3	0	0	25	3	12	10	0	0	0	0	0	5	0
	0530	"	1006·8	991·7	..	21·7	19·8	18·7	21·6	83	..	5 5	..	8.5	0	7	13	3	8	8	1	0	0	0	0	10	0
	0830	"	1008·7	993·8	0	26·1	21·2	18·5	21·3	63	+5	4·9	+2·1	17·7	0	12	18	1	5	23	1	0	0	0	0	0	0
	1130	"	1007·6	992·9	..	29·4	22·4	18·6	21·4	53	..	4·1	..	15·8	0	7	23	0	4	21	5	0	0	0	0	0	0
	1730	"	1003·6	989·0	..	28·4	21·9	18·3	21·0	55	..	4·5	..	13·4	0	4	23	0	10	12	4	0	0	1	0	3	0
	2330	"	1006·7	991·6	..	23·3	20·6	19·1	22·1	77	..	4·3	..	12·0	0	4	24	3	11	12	0	0	1	0	1	2	0
Jalpaiguri	0830	83	1008·7	999·2	—0·4	24.9	21·3	19·3	22·4	72	+2	3·3	+0·7	11·9	0	5	25	5	8	12	0	0	0	5	0	0	0
	1730	"	1003·5	994·3	..	28·8	22·5	19·1	22·1	57	..	2·8	..	11·7	0	4	26	3	7	11	5	0	2	2	0	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Kms. p.h.): 62 or more	Wind speed (Kms. p.h.): 20 to 61	Wind speed (Kms. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd.*)																											
Cooch Behar	0830	43	1008·9	1004·1	..	25·0	22·1	20·5	24·1	77	..	5·1	..	14·1	0	7	23	1	8	18	1	1	0	1	0	0	0
	1130	,,	1008·0	1003·2	..	28·1	23·4	21·1	25·0	66	..	4·4	..	15·6	0	11	19	1	8	17	3	0	0	0	0	0	1
	1730	,,	1004·1	999·3	..	27·5	22·9	20·5	24·1	68	..	4·3	..	8.6	0	2	19	0	6	10	2	1	1	1	0	9	0
Balurghat	0830	26	1007·0	1004·1	..	27·9	23·4	21·1	25·0	67	..	5·0	..	6·1	0	0	29	0	3	8	11	4	2	1	0	1	0
	1730	,,	1002·1	999.1	..	31·4	23·7	19·7	22·9	52	..	3·3	..	4·7	0	0	25	2	4	0	7	4	4	1	0	5	3
Malda	0830	31	1007·7	1004·2	−0·2	27·7	23·3	21·1	25·0	67	+17	4·3	+2.4	5·1	0	0	30	1	8	7	8	1	3	0	2	0	0
	1730	,,	1003·6	1000·4	..	32·7	24·8	20·9	24·7	48	..	2·1	..	4·7	0	0	30	4	6	4	6	1	0	1	8	0	0
Gangetic West Bengal Berhampore	0830	19	1007·2	1005·1	−1.0	27·9	24.7	23·2	28·4	75	+11	3·5	+0·3	2·0	0	0	18	0	1	9	2	3	2	1	0	12	0
	1730	,,	1002·2	1000·2	..	33·2	23·4	18·1	20·8	44	..	2.9	..	2.3	0	0	16	1	0	8	0	1	3	2	1	14	0
Suri	0830	..	..	..	..	29·2	24·0	21·5	25·6	63	..	2·1	..	3·7	0	0	30	0	1	7	4	14	2	2	0	0	1
Asansol	0230	126	1004·1	989·9	..	26·0	22·5	20·7	24·4	73	..	2·1	..	4·5	0	1	17	0	1	3	5	4	3	0	1	12	0
	0530	,,	1005·0	990·7	..	24·7	22·0	20·5	24·1	79	..	3·6	..	2·9	0	0	15	0	3	2	4	1	3	2	0	15	0
	0830	,,	1006·7	992·7	−0·9	30·3	23·7	20·3	23·8	57	+7	2.0	−0·2	6·1	0	0	28	1	4	4	5	5	2	5	2	2	0
	1130	,,	1005·6	991·9	..	36·1	23·7	16·8	19·1	35	..	1·8	..	8·7	0	1	29	2	0	5	3	5	5	3	7	0	0
	1430	,,	1002·4	988·7	..	31·8	23·4	15·0	17·0	29	..	2.8	..	10·3	0	1	29	0	1	5	3	4	4	6	7	0	0
	1730	,,	1002·0	988.3	..	34·8	22·4	14·9	16·9	34	..	2·3	..	8·6	0	1	27	2	2	3	4	4	2	2	9	2	0
	2330	,,	1005·1	991·0	..	27·6	22·2	19·3	22·4	63	..	1·8	..	7·1	0	1	22	0	0	4	8	5	3	0	3	7	0
Shanti Niketan	0830	59	1007·5	1000·8	..	29·1	24·0	21·5	25·6	65	..	2·9	..	7·9	0	0	28	0	2	4	4	11	5	1	1	2	0
	1130	,,	1006·6	1000·1	..	34·5	23·4	17·3	19·7	39	..	2·4	..	8·4	0	1	27	3	2	3	1	8	6	1	4	2	0
	1730	,,	1002·5	996·0	..	33·7	25·5	15·9	18·1	37	..	3·0	..	8·9	0	2	23	0	2	2	7	4	5	2	3	5	0
Krishnanagar	0830	15	1007·1	1005 5	−1·0	29.3	25·1	23·2	28·4	73	+8	2·5	−0·3	0.9	0	0	12	0	0	0	0	11	1	0	0	18	0
	1730	,,	1002.6	1000 9	..	33·2	24·2	19.6	22·8	48	..	3·0	..	1.3	0	0	13	0	0	0	0	12	1	0	0	17	0
Purulia	0830	255	1006·9	978·9	−1·1	30·0	21.0	15·4	17.5	45	+8	4.6	+3.0	4·7	0	0	30	0	1	0	10	0	7	1	11	0	0
	1730	,,	1001.4	974·1	..	34·5	21·1	12·1	14.1	27	..	5.0	..	7.2	0	0	29	1	1	10	0	1	4	1	11	1	0
Bankura	0830	100	1005·8	994·8	..	30·1	24·7	22·1	26·1	64	..	1·3	..	0.7	0	0	9	1	0	0	2	3	2	1	0	21	0
	1730	,,	1001·3	990·4	..	35·5	23·5	16·8	19·1	38	..	2·4	..	1·9	0	0	18	2	3	2	3	1	1	2	4	12	0
Burdwan	0830	32	1007·3	1003·6	−0·8	30·1	25.0	22·7	27·6	63	−5	2·2	−0·7	2·2	0	0	13	0	0	3	0	7	3	0	0	17	0
	1730	,,	1002·4	998·8	..	33·2	24·2	19·6	22·8	47	..	3·4	..	10·2	0	3	24	2	2	5	1	13	0	4	0	3	0
Barrackpore (Aerodrome)	0530	7	1005·8	1005.0	..	24·6	23·4	22·8	27·7	89	..	4·2	..	6·9	0	0	21	0	1	4	2	4	10	0	0	9	0
	0830	,,	1007·6	1006·9	−0.8	28·8	25·7	24·3	30·4	77	+9	3·9	+1.6	10·6	0	0	26	0	0	3	2	3	15	2	1	4	0
	1130	,,	1007·0	1006·3	..	33·2	26·5	23·6	29·1	57	..	3·5	..	10.9	0	0	30	1	1	3	2	7	9	5	2	0	0
	1730	,,	1003 6	1002·9	..	31.2	25·4	22·8	27·7	62	..	3·7	..	11·8	0	0	30	0	0	1	6	15	8	0	0	0	0
	2330	,,	1006·3	1005 5	..	26·2	24·1	23·1	28·3	84	..	2·5	..	11·3	0	0	28	0	0	2	5	14	7	0	0	2	0
Calcutta (Dum Dum)	0230	6	1004·5	1003·8	..	25·5	24·3	23·8	29.5	90	..	3·6	..	6·9	0	1	26	0	0	2	6	14	4	1	0	3	0
	0530	,,	1005·1	1004·4	..	25·2	24·1	23·5	28·9	91	..	4·8	..	4.6	0	0	21	0	1	2	2	11	4	1	0	9	0
	0830	,,	1007·1	1006 4	−1.8	28·9	25·7	24·3	30·4	77	+7	4·8	+1·7	9·3	0	2	27	0	0	3	5	14	7	0	0	1	0
	1130	,,	1006·5	1005·8	..	32·9	26·8	24·3	30·4	61	..	3·9	..	8.5	0	0	30	1	1	2	7	12	4	2	1	0	0
	1430	,,	1003·6	1002·9	..	34·1	26·6	23·3	28·6	56	..	3·3	..	9·0	0	1	29	0	0	2	6	14	4	2	2	0	0
	1730	,,	1003·1	1002·4	..	30·9	26·2	24·1	30·0	68	..	4 1	..	9·6	0	2	27	0	0	3	7	15	4	0	0	1	0
	2030	,,	1005·6	1004.9	..	26·7	24·6	23·7	29·3	83	..	3·4	..	9·5	0	1	29	2	1	1	7	18	1	0	0	0	0
	2330	,,	1005·7	1004·9	..	26·1	24·4	23·7	29·3	86	..	3·3	..	9.1	0	0	29	0	0	1	8	17	3	0	0	1	0
Calcutta	0830	6	1007·0	1006 3	−1.4	29·6	25·6	23·8	29·5	71	−2	4·2	+1.2	10·2	0	0	30	0	1	2	4	13	9	1	0	0	0
	1130	,,	1006·2	1005·5	..	33·8	26·2	22·8	27·7	54	..	3·8	..	9·8	0	0	30	0	1	3	4	11	9	2	0	0	0
	1730	,,	1003 0	1002·3	..	31·1	25·4	22·9	27·9	63	..	4·0	..	11.6	0	3	25	0	0	3	4	16	4	1	0	2	0
Midnapore	0830	45	1006·8	1001·8	−1.3	29.4	24·2	21·7	25·9	64	0	2·0	−0.1	4·2	0	0	28	2	3	0	1	15	6	1	0	2	0
	1730	,,	1002·4	997·4	..	34·0	24·1	18·9	21·8	44	..	2·9	..	10·6	0	4	24	1	0	0	0	22	4	1	0	2	0
Contai	0830	11	1007·1	1005·9	−1.2	29·7	25·8	24·1	30·0	72	+1	3·0	0	12·5	0	7	22	0	0	0	1	5	21	2	0	1	0
	1730	,,	1003·4	1002·2	..	29·3	25·9	24·4	30·5	75	..	2·5	..	16.3	0	10	20	1	0	0	4	16	9	0	0	0	0
Sagar Island	0830	3	1007·1	1006 8	−1·5	29·3	26·9	25·9	33·4	82	+8	5.2	+0·8	30·0	0	25	5	0	1	1	0	9	18	1	0	0	0
	1730	,,	1003·5	1003·2	..	29.0	26·9	26·1	33·8	84	..	4·2	..	33.9	0	27	3	0	0	0	3	15	12	0	0	0	0
Sandheads	0530	10	1005·3	1004 1	..	27·6	26·0	25·3	32·2	87	..	5·7	..	19.6	0	14	16	0	0	0	1	10	18	1	0	0	0
	0830	,,	1007·3	1006.1	−2·3	28·5	26·2	25·3	32·2	83	+5	4.4	+1.3	19·6	0	14	16	0	0	0	0	7	22	1	0	0	0
	1130	,,	1007·3	1006·2	..	29·0	26·5	25·5	32·6	81	..	4·1	..	18·4	0	12	18	0	0	0	0	7	21	1	1	0	0
	1730	,,	1003·8	1002·7	..	28·7	26·3	25·3	32·2	83	..	4 5	..	19·9	0	14	16	0	0	0	1	17	12	0	0	0	0
	2330	,,	1005·7	1004·6	..	27·8	25·9	25·1	31·9	85	..	2·2	..	24·0	0	21	9	0	1	0	1	11	14	3	0	0	0
Orissa Baripada	0830	54	1007·6	1001·6	..	29·7	25·1	23·0	28.1	68	..	2·5	..	3·8	0	0	24	2	2	1	1	7	9	1	1	6	3
	1730	,,	1003·2	997·2	..	33·6	25·9	22·4	27·1	55	..	2·7	..	6·0	0	0	30	0	0	6	12	6	3	1	1	0	1

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd*).																											
Jharsuguda	0230	230	1003·7	978·1	..	27·9	19·4	14·3	16·3	47	..	1·7	..	4·5	0	0	19	1	4	5	3	5	1	0	0	11	0
	0530	,,	1001·8	979·0	..	25·1	19·3	15·5	17·6	56	..	2·5	..	3·6	0	0	15	2	3	3	2	5	0	0	0	15	0
	0830	,,	1006·7	981·3	−1·5	30·6	21·2	15·4	17·5	41	+1	1·5	−0·4	6·7	0	0	25	2	1	6	5	4	3	3	1	5	0
	1130	,,	1005·2	980·4	..	36.3	21·9	12·5	14·5	25	..	1·5	..	8·3	0	1	27	0	2	1	0	8	9	5	3	2	0
	1730	,,	1000·7	976·9	..	37·7	21·8	11·0	13·1	22	..	3·6	..	13·0	1	1	27	1	0	1	4	6	6	9	2	1	0
	2330	,,	1004·2	978.8	..	29·6	19·8	13·1	15·1	39	..	2·2	..	8·6	0	3	20	3	3	4	4	5	2	1	1	7	0
Keonjhargarh	0830	463	1004·5	954·0	..	29·0	21·3	16·7	19·0	51	..	1·5	..	2·1	0	0	29	3	2	5	4	4	0	6	5	1	0
	1730	,,	998·8	949·4	..	33·2	21·2	13·4	15·4	35	..	2·4	..	2·0	0	0	30	3	1	6	3	4	1	12	0	0	0
Balasore	0830	20	1006·9	1004·6	−1·5	29·4	26·3	24·9	31·5	78	+9	3·9	+1.3	(c) 15·3	0	10	17	0	0	0	0	10	16	0	1	1	0
	1730	,,	1002·7	1000·5	..	30·6	27·3	25·9	33.4	78	..	3·9	..	(c) 18·8	0	16	11	0	0	1	4	20	2	0	0	1	0
Sambalpur	0530	148	1001·9	988·5	−3·2	32·1	22·1	16·7	19·0	38	−10	0·9	−1·0	2·5	0	0	22	1	4	0	2	11	4	0	0	8	0
	1730	,,	1001·1	985·4	..	37·6	22·4	12·7	14·7	22	..	1·2	..	3.2	0	1	13	1	1	2	0	3	5	1	1	16	0
Angul	0830	130	1005·9	991·6	−1·4	30·0	25·3	24·0	29·8	70	+9	3·1	+0·3	3·1	0	0	26	3	3	6	4	3	1	6	0	4	0
	1730	,,	1003·3	988·2	..	36·0	26·2	21·7	25·9	41	.	2·8	..	3·8	0	0	30	2	6	4	8	1	2	6	1	0	0
Cuttack	0830	27	1007·6	1004·6	−1·4	29·1	25·4	23·7	29·3	73	+3	4·3	+1·2	8·5	0	1	27	1	0	0	0	6	16	5	0	2	0
	1730	,,	1003·1	1000·1	..	32·7	25·8	22·7	27·6	56	..	3·2	..	13·8	0	2	28	0	0	0	0	23	7	0	0	0	0
Chandbali	0830	6	1007·8	1007·1	−1·2	28·9	25·5	24·0	29·8	75	+3	4·2	+1·0	9·9	0	3	26	1	0	2	5	4	16	1	0	1	0
	1730	,,	1004·5	1003·8	..	30·3	25·4	23·1	28·3	66	..	3·7	.	19·1	0	15	15	0	0	10	13	4	3	0	0	0	0
Bolangir	0830	190	1005·8	985·8	..	32·3	25·1	22·3	25·9	56	..	1·8	..	(b) 6·2	0	0	29	2	2	0	4	12	8	0	1	0	0
	1730	,,	1001·3	980·7	..	37·9	26·1	20·5	24·1	39	..	2·6	.	(b) 4·4	0	0	29	5	3	1	1	7	5	2	5	0	0
Phulbani	0830	467	1005·3	954·7	..	28·7	22·9	18·3	21·[illegible]	54	..	0·7	..	0·1	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	,,	999·5	950·1	..	34·8	22·5	15·1	17·1	32	..	1·3	..	0·8	0	0	4	0	0	0	1	0	3	0	0	26	0
Titlagarh	0530	211	1007·1	983.9	..	32·2	23·4	18·7	21·6	45	..	0·6	..	4·2	0	0	30	0	3	0	5	0	19	0	3	0	0
	1730	,,	1004·5	978·9	..	38·1	24·3	16·7	19·0	30	..	2·0	..	4·1	0	0	30	1	5	0	2	0	10	0	12	0	0
Bhubaneswar	0230	46	1005.1	999·3	.	26·5	24·7	23·9	29·7	86	..	3·3	..	25·9	0	20	10	0	0	0	0	7	23	0	0	0	0
	0530	,,	1005·9	1000·7	..	27·3	24·5	23·7	29·3	83	..	5·2	..	20·1	0	17	2	0	0	1	0	11	15	1	1	1	0
	0830	,,	1007·6	1002·5	−1·3	29·5	25·3	23·4	28·8	71	+3	4·0	+1·0	26·3	0	22	8	0	0	0	0	4	25	1	0	0	0
	1130	,,	1006·9	1001·8	..	33·6	25·4	22·1	26·6	51	..	2·2	..	27·8	0	22	8	0	1	0	0	6	21	1	1	0	0
	1430	,,	1003·7	998·7	..	35·6	26·0	21·6	25·8	45	..	1·7	.	30·7	0	26	4	0	0	0	0	10	19	1	0	0	0
	1730	,,	1001·7	996·3	..	38·5	25·4	23·1	28·3	65		2·9	.	34·6	0	29	1	0	0	0	0	13	17	0	0	0	0
	2330	,,	1005·2	1001·0	..	27·0	25·0	24·1	30·9	84	..	3·4	..	27·9	0	24	6	0	1	0	0	8	20	1	0	0	0
Puri	0830	6	1008·0	1007·3	−1·0	28·1	25·9	25·0	31·7	82	+2	3·9	+0·7	16·5	0	7	23	0	0	0	1	1	27	1	0	0	0
	1730	,,	1004·2	1003·5	..	28·0	26·1	25·3	32·2	81	.	3·1	..	19·9	0	18	12	0	0	0	0	10	19	0	1	0	0
Gopalpur	0530	17	1006·0	1004·1	..	25·2	24·2	25·7	29·3	92	..	3·6	..	21·1	0	19	9	0	0	0	1	15	12	0	0	2	0
	0830	,,	1003·9	1005·1	−0·8	26·6	24·9	22·1	26·6	86	+8	2·7	+1·1	22·8	0	21	8	0	0	1	0	13	15	0	0	1	0
	1130	,,	1007·5	1005·6	..	29·0	25·6	24·1	30·0	76	..	1·7	..	26·9	0	26	4	0	0	0	1	17	12	0	0	0	0
	1730	,,	1004·1	1002·2	..	27·1	25·3	24·5	30·7	86	..	4·6	..	31·5	0	29	1	0	0	0	0	16	14	0	0	0	0
	2330	,,	1006·2	1001·3	..	25·7	24·5	21·0	29·8	90	..	2·7	.	28·7	0	25	4	0	0	0	2	14	13	0	0	1	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1006·9	993·3	−0·8	29·5	24·1	21.5	25·6	64	+17	1·1	−0·5	3·9	0	0	17	0	0	2	13	0	1	1	0	13	0
	1730	,,	1002·1	985·8	..	33.7	24·3	19·5	22·7	47	..	1·2	..	6·2	0	0	24	0	1	3	9	0	6	3	2	6	0
Daltonganj (R)	0830	221																									
(R)	1730	,,																									
Hazaribagh	0830	611	1005·7	939·6	−1·4	29·6	19·8	13·1	15·1	40	+12	2·5	+0·7	9·7	0	2	26	0	2	0	2	6	7	3	8	2	0
	1730	,,	1001·0	935.9	..	32·7	19·5	9·6	11·9	28	..	2·1	..	12·1	0	1	29	1	3	2	1	2	1	1	19	0	0
Dhanbad	0830	257	1008·3	980.1	..	28·2	20·9	16·5	18·8	52	..	0·5	..	2·9	0	0	24	1	0	0	11	2	3	5	2	6	0
	1730	,,	1001·5	973·6	..	33·7	21.0	12·5	14·6	30	..	1·9	..	3·1	0	0	15	0	0	4	6	1	1	0	2	15	1
Ranchi	0830	655	1006·7	935·4	−0·6	28·5	20·8	16·1	18·3	51	+15	1·0	−0·8	2·5	0	0	20	0	1	0	2	5	5	0	7	10	0
	1730	,,	1001·9	931·8	..	32·0	21·0	13·9	15·9	38	..	2·3	..	2·5	0	0	23	0	2	1	1	1	4	0	14	7	0
Ranchi Aerodrome	0530	652	1005·1	935·3	..	23·9	16·9	12·3	14·3	53	..	2·4	..	6·4	0	0	24	2	1	0	4	0	8	5	4	6	0
	0830	,,	1005·8	935·2	..	28·1	18·9	12·3	14·3	40	..	1·7	..	10·3	0	2	24	1	1	1	3	6	7	3	4	4	0
	1130	,,	1004·1	934·7	..	33·0	19·9	10·3	12·5	28	..	2·0	..	13·7	0	6	24	2	2	2	1	3	6	5	9	0	0
	1430	,,	1000·8	931.9	..	34·5	20·3	10·0	12·3	25	..	3·5	..	18·8	0	14	15	3	2	1	3	1	4	2	8	1	1
	1730	,,	1000·4	931·2	..	33·2	19·4	8·8	11·3	26	..	2·6	..	13·9	0	4	26	5	3	2	3	0	4	6	11	0	0
Jamshedpur	0830	129	1006.6	992 3	−1·5	29·9	22·3	18·1	20·8	50	+4	1·7	−0·1	3·7	0	0	24	0	0	4	1	0	3	12	4	6	0
	1730	,,	1001·0	987 0	..	36·8	22·2	12·9	14·9	26	..	3.0	..	5·3	0	1	25	2	1	5	1	1	1	10	5	4	0

(c) Mean of 28 days. (R) Register not received. (b) Mean of 29 days.

Sub Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Jamshedpur (P.B.O.)	0530	142	1004·9	989·0	..	25·5	20·6	17·7	20·2	63	..	2·0	..	1·8	0	0	11	0	3	0	0	3	1	2	2	19	0
	0830	"	1006·7	991·0	..	30·6	22·5	18·0	20·6	48	..	1·9	..	3·3	0	0	17	1	2	1	2	3	5	3	0	13	0
	1130	,,	1005·1	989·7	..	36·1	22·9	15·1	17·1	30	..	1·4	..	5·7	0	0	25	2	1	0	3	4	5	6	4	5	0
	1430	,,	1001·5	986·3	..	38·5	22·5	12·1	14·1	22	..	2·8	..	8·1	0	0	27	0	6	2	0	4	1	8	6	3	0
	1730	,,	1001·1	985·7	..	36·1	21·7	12·2	14·2	26	..	3·7	..	7·4	0	4	21	1	5	2	1	0	2	4	10	5	0
	2330	,,	1005·0	988·9	..	28·8	21·5	17·3	19·7	51	..	1·7	..	4·0	0	0	18	1	6	7	1	2	0	0	1	12	0
Chaibasa	0830	226	1006·2	981·1	—1·6	30·6	23·0	18·9	21·8	52	—1	1·3	—0·5	3·4	0	0	25	0	2	0	2	0	21	0	0	5	0
	1730	,,	1001[illegible]	976·7	..	36·3	24·0	17·3	19·7	34	..	3·3	..	3·5	0	0	23	0	6	0	3	0	7	2	5	7	0
Bihar Plains Motihari	0830	66	1006·6	999·1	—0·5	26·8	22·4	20·1	23·5	67	+23	(d) 1·2	+0·1	(d) 3·4	0	0	23	0	0	11	11	0	0	1	0	4	0
	1730	"	1002·2	994·8	..	31·5	23·7	20·2	23·7	51	..	(b) 0·4	..	(b) 0·4	0	0	4	0	0	3	0	0	0	1	0	25	0
Forbesganj	0830	61	1007·9	1001·1	..	26·3	22·0	19·6	22·8	67	..	3·3	..	12·0	0	3	27	0	2	24	3	0	0	1	0	0	0
	1730	"	1002·8	996·0	..	31·0	22·5	17·0	20·5	46	..	2·3	..	6·7	0	1	28	0	2	12	7	1	0	7	0	1	0
Darbhanga	0830	49	1007·4	1001·9	—0·2	27·8	24·3	22·7	27·6	74	+18	1·3	—0·1	6·5	0	0	28	1	7	15	4	0	0	0	1	2	0
	1730	"	1003·0	997·5	..	33·5	29·7	28·3	38·5	75	..	0·8	..	3·9	0	0	22	0	4	8	2	1	0	0	7	8	0
Chapra	0830	58	1006·6	1000·2	..	29·8	23·2	19·8	23·1	56	..	0·2	..	4·4	0	0	29	2	11	0	3	0	12	1	0	1	0
	1730		1003·5	997·3	..	35·3	23·8	17·5	20·0	36	..	0·2	..	3·4	0	0	28	2	11	0	1	0	14	0	0	2	0
Purnea	0830	38	1007·9	1003·6	—0·2	26·6	22·6	20·5	24·1	70	+10	2·3	+0·1	5·3	0	0	30	0	4	25	0	0	0	1	0	0	0
	1730	,,	1002·5	998·3	..	31·8	23·2	18·6	21·4	49	..	1·4	..	5·1	0	0	29	3	4	13	0	0	4	4	1	1	0
Patna	0830	53	1006·7	1000·8	—0·7	28·2	21·5	17·7	20·2	54	+10	1·4	+0·1	9·9	0	1	29	0	15	6	2	1	2	3	1	0	0
	1730	,,	1001·9	996·1	..	35·2	22·4	14·6	16·6	31	..	1·2	..	8·9	0	1	29	0	15	2	0	0	0	7	6	0	0
Patna Aerodrome	0530	60	1004·2	997·4	..	23·6	19·7	17·4	19·9	69	..	1·6	..	6·9	0	1	22	2	5	8	3	1	2	1	1	7	0
	0830	"	1006·2	999·5	..	28·4	21·3	17·1	19·5	52	..	1·7	..	13·5	0	5	24	1	2	13	5	0	3	4	1	1	0
	1130	,,	1005·5	998·9	..	33·7	22·2	15·3	17·4	35	..	1·8	..	14·3	0	12	18	1	8	9	1	0	3	6	2	0	0
	1430	,,	1002·5	995·9	..	36·3	22·0	12·8	14·8	26	..	2·0	..	17·1	1	9	20	0	6	7	1	0	1	3	12	0	0
	1730	,,	1001·4	994·8	..	35·0	21·6	12·9	14·9	28	..	1·5	..	10·8	0	4	25	0	6	8	0	0	0	2	13	1	0
	2330	"	1004·0	997·2	..	27·2	20·5	16·4	18·6	53	..	0·8	..	11·5	0	5	18	1	2	12	4	1	0	2	1	7	0
Bhagalpur	0530	49	1005·4	999·8	..	23·4	21·0	19·7	22·9	80	..	2·1	..	5·7	0	0	27	0	4	15	6	1	1	0	0	3	0
	0830	,,	1007·3	1001·8	—0·6	27·7	22·8	20·3	23·8	65	+18	2·9	+1·4	9·1	0	1	28	0	3	17	6	0	0	2	1	1	0
	1130	"	1006·7	1001·3	..	33·1	23·9	19·1	22·1	45	..	2·7	..	10·1	0	3	27	3	4	11	7	1	0	3	1	0	0
	1730	,,	1002·3	996·9	..	33·1	22·2	15·7	17·8	37	..	2·5	..	10·0	0	3	26	0	1	10	5	0	0	8	5	1	0
	2330	"	1005·4	999·9	..	26·8	22·1	19·5	22·7	66	..	1·5	..	6.2	0	0	25	0	1	10	11	2	1	0	0	5	0
Sabaur	0830	37	1007·2	1002·9	—0·6	27·5	23·1	20·9	24·7	68	+24	2.2	+0·3	8·4	0	0	29	3	4	15	3	2	0	1	1	1	0
	1730	,,	1002·1	997·9	..	33·0	23·5	18·4	21·1	44	..	1.9	..	6·5	0	0	26	2	4	11	0	1	0	3	5	4	0
Jamui	0830	82	1007·0	998·0	..	31·2	23·9	20·2	23·7	55	..	0·3	..	3·8	0	0	29	0	2	19	1	0	0	3	4	1	0
	1730	,,	1002·5	993·6	..	34·2	23·5	17·7	20·2	42	..	0·5	..	3·6	0	0	27	2	2	7	0	1	1	6	8	3	0
Dehri	0830	107	1005·7	993·9	..	31·7	21·0	14·1	16·1	35	..	1.0	..	3·9	0	0	30	0	2	3	8	6	5	3	3	0	0
	1730	,,	1000·9	989·2	..	37·3	21·4	10·3	12·5	21	..	1·2	..	5·8	0	0	30	3	1	4	1	0	1	18	2	0	0
Gaya	0230	116	1004·1	990·9	..	25·6	18·6	13·8	15·8	48	..	0·3	..	3.8	0	0	15	0	0	3	6	3	3	0	0	15	0
	0530	,,	1004.5	991·3	..	23·9	17·9	13.7	15·7	53	..	0·9	..	4.7	0	0	20	0	2	4	3	2	7	1	1	10	0
	0830	,,	1006·3	993·3	—1.0	30·8	20·9	14·6	16·6	38	+16	1·2	—0·1	9·0	0	0	25	0	0	4	6	2	3	8	2	5	0
	1130	,,	1005·5	992·8	..	36·5	21·8	12·1	14·1	25	..	1·3	..	14·5	0	11	16	3	1	6	2	1	1	2	10	3	1
	1730	"	1001·5	998·8	..	36·6	21·4	11·0	13.1	23	..	1·3	..	15.3	0	8	22	2	6	3	1	1	0	3	14	0	0
	2330	,,	1004·6	991·5	..	27·7	19·4	13·8	15·8	43	..	0·4	..	7·9	0	4	16	0	1	7	7	0	3	1	1	10	0
Uttar Pradesh (East) Kheri	0830	147	1005·2	988·7	—2·0	27·7	19·5	13·8	15·8	43	—1	1·0	+0.2	4·3	0	0	29	0	0	8	4	0	1	15	1	1	0
	1730	,,	1000·7	984·6	..	35·2	21·4	11·6	13·7	27	..	2·7	..	4·4	0	0	27	0	1	7	0	0	0	17	2	3	0
Baharaich	0830	124	1006·3	992·4	—0.6	27·9	20·5	15·6	17·7	49	+4	1.3	+0·3	11·0	0	4	23	1	0	14	2	0	3	6	1	3	0
	1730	"	1002·0	988·2	..	35·5	22·5	14·3	16·3	29	..	1·6	..	7·9	0	2	25	1	0	3	3	0	1	15	4	3	0
Nautanwa	0830	99	1006·1	994·9	..	26·9	21·2	17·0	19·4	54	..	1·2	..	7·6	0	0	28	0	4	14	7	1	0	1	1	2	0
	1730	"	1001·9	991·2	..	34·2	21·2	11·9	13·9	29	..	1·3	..	4·9	0	0	28	0	3	8	3	0	10	0	4	2	0
Hardoi (R)	0830	142																									
(R)	1730	"																									
Gonda	0830	110	1005.8	994·1	..	29·5	21·9	17·5	20·0	51	+19	0·9	—0·5	4·3	0	0	23	0	0	17	0	0	0	3	3	7	0
	1730	"	1001·5	989·9	..	34·0	23·8	17·2	19·6	38	..	1·0	..	2·4	0	0	21	0	0	9	0	0	0	0	12	9	0
Lucknow.	0830	111	1005·9	993·3	—1.3	27·2	19·5	14·4	16·4	46	+10	0·5	—0.7	2·7	0	0	24	1	2	7	2	1	1	10	0	6	0
	1730	,,	1001·6	989·6	..	36·9	21·7	11·1	13·2	24	..	1·2	..	3·6	0	0	24	0	4	0	2	0	0	18	0	6	0
Lucknow (Amausi)	0230	128	1003.4	988·9	..	24·4	17·2	11·2	13.3	45	..	0·3	..	7·6	0	0	23	3	1	8	2	0	0	3	6	7	0
	0530	"	1004·0	989.4	..	22.2	16·5	12·2	14·2	53	..	0.9	..	7·3	0	1	20	1	0	9	1	0	2	6	2	9	0

(R) Register not received. (b) Mean of 29 days. (d) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Lucknow (Amausi) —contd.	0830	128	1005·8	991·5	−1·3	29·1	19·7	12·5	14·5	39	+14	0·7	−0·5	15·1	0	13	16	1	0	9	4	2	2	8	3	1	0
	1130	,,	1005·2	991·2	..	35·7	21·5	10·6	12·8	25	..	0·6	..	18·9	0	14	15	1	1	2	8	0	3	9	5	1	0
	1430	,,	1002·3	988·5	.	37·9	21·5	8·3	10·9	19	..	1·6	..	20·0	0	17	13	1	0	4	4	2	0	8	11	0	0
	1730	,,	1001.1	987.2	..	37.1	20.7	6·8	11·0	19	..	1.2	..	18·9	0	17	12	1	1	3	4	0	0	8	2	1	0
	2030	,,	1003·1	988·9	..	30·4	19·3	9.9	12·2	32	..	0·6	..	6·9	0	1	18	2	0	4	1	0	0	6	6	10	0
	2330	,,	1004·8	989·8	..	26·9	18·3	11·5	13·2	40	..	0·3	..	0·7	0	0	22	1	1	9	0	0	0	6	5	8	0
Faizabad	0830	102	1005·7	994·3	..	28·3	20·4	15·1	17·1	46	..	1·3	..	4·9	0	0	27	1	1	7	7	0	1	6	3	3	0
	1730	,,	1001·4	990·3	..	34·7	22·3	14·5	16·5	31	..	1·7	..	4·2	0	0	27	1	3	4	3	0	0	9	7	3	0
Gorakhpur	0830	77	1006·2	997·5	−1·1	28·9	21·4	16·7	19·0	50	+4	1·3	+0·2	5·0	0	0	30	1	1	16	4	1	0	6	0	0	1
	1730	,,	1000·9	992·5	..	35·8	22·6	14·3	16·3	30	..	0·9	..	3·3	0	0	28	2	1	7	1	0	2	14	1	2	0
Gorakhpur (P.B.O.).	0230	78	1003·6	994·7	..	26·6	19·1	14·6	16·6	50	..	1·1	..	7·8	0	1	23	0	8	7	0	1	2	2	4	6	0
	0530	,,	1004·4	995·5	..	24·3	18·8	15·5	17·2	60	..	1·3	..	6·9	0	1	22	0	10	7	1	1	0	3	1	7	0
	1130	,,	1005·8	997·1	..	33·5	22·0	16·1	18·3	38	..	1·4	..	10·8	0	3	26	1	2	6	5	7	2	6	0	1	0
	1430	,,	1002·5	994.3	..	36·0	21·8	14·1	16·1	28	..	1·6	..	11·0	0	1	29	2	3	5	5	2	1	9	3	0	0
	2030	,,	1003·5	994·8	..	29·8	20·6	14·7	16.7	44	..	0·3	..	8·0	0	1	23	2	5	7	2	1	1	6	0	6	0
	2330	,,	1004·2	995·8	..	28·0	20·1	15·7	17·8	49	..	0·6	..	8·2	0	0	28	1	7	8	3	0	3	5	1	2	0
Kanpur	0830	126	1006·0	991.9	−1·2	28·4	19·8	13·8	16·1	39	+6	0·3	−0·3	5·5	0	0	26	0	2	8	2	0	6	6	2	4	0
	1730	,,	1001·6	987·9	..	37·5	22·8	13·4	15·4	25	..	0·6	..	11·9	0	0	29	2	2	5	0	0	2	8	10	1	0
Kanpur (Aerodrome)	0530	126	1004.2	990·0	..	24·0	16·4	9·8	12·1	42	..	0·9	..	8·2	0	1	22	2	1	7	1	1	0	9	2	7	0
	0830	,,	1006·0	992·0	..	30·0	18·9	9·8	12·1	31	..	0·8	..	13·4	0	3	26	0	0	8	4	1	3	11	2	1	0
	1130	,,	1005.5	991·8	..	36·9	20.6	7·0	10·0	18	..	1·0	..	19·5	0	12	18	0	2	5	4	2	2	10	5	0	0
	1730	,,	1001·5	987·9	..	37·7	19·8	3·3	7·7	14	..	1·1	..	16·9	0	9	21	1	6	2	1	0	0	12	8	0	0
	2330	,,	1004·2	990·2	..	28·7	17·8	8·3	10·9	30	..	0·6	..	8·4	0	2	17	2	1	7	0	0	0	4	5	11	0
Sultanpur	0830	97	1006.2	995·7	..	29·9	20·1	13·3	15·3	37	..	1·2	..	2·1	0	0	18	0	1	7	4	0	1	5	0	12	0
	1730	,,	1001·6	991·1	..	36·3	22·7	14·0	16·0	27	..	1·3	..	2·8	0	0	28	0	1	7	1	0	1	17	1	2	0
Azamgarh	0830	78	1005·8	997·1	..	29·0	24·2	21·9	26·3	66	..	0·9	..	7·4	0	0	30	0	0	15	0	0	0	15	0	0	0
	1730	,,	1001·6	993.1	..	35·9	28·5	25·3	32·2	56	..	1·1	..	6·9	0	0	30	0	0	10	0	0	0	20	0	0	0
Fatehpur	0830	114	1006·1	993·4	..	30·0	20·0	12·3	14·3	34	−3	0·6	−0·7	6·9	0	0	28	0	0	8	2	1	6	7	4	2	0
	1730	,,	1001·4	989·0	..	38·0	21·7	10·1	12·3	19	..	1·0	..	14·1	0	9	20	1	3	4	1	0	1	2	17	1	0
Ballia	0830	64	1006·6	999·5	..	29·4	24·2	21·7	25·9	63	..	0.6	..	3·6	0	0	28	0	4	10	6	0	0	5	3	2	0
	1730	,,	1002·4	995·6	..	35·2	26·0	22·0	26·4	43	..	0·6	..	2·9	0	0	24	0	3	8	2	0	0	8	3	6	0
Banda	0830	121	1006·6	992·9	..	33·0	20·3	10·9	13·0	27	..	0·7	..	2·4	0	0	30	0	3	0	8	0	17	0	2	0	1
	1730	,,	1002·6	989·5	..	39·3	22·8	11·6	13·7	20	..	0·7	..	2·9	0	0	30	0	8	0	2	0	20	0	0	0	0
Allahabad (Bamhrauli)	0230	98	1003.5	992·4	..	26·1	18·1	12·2	14·2	43	..	0·5	..	3·3	0	0	23	1	5	5	1	1	2	6	2	7	0
	0530	,,	1004·1	993·0	..	24·3	17·2	11·4	13·5	47	.	0·9	..	2·9	0	0	23	1	3	5	2	2	2	6	2	7	0
	0830	,,	1006·0	995·0	−1·5	30·1	19·2	10·3	12·5	33	+1	0·9	−0·5	4·7	0	0	27	1	1	7	1	3	5	9	0	3	0
	1130	,,	1005·4	994·9	..	37·1	20·8	8·3	11·0	20	..	0·8	..	7·5	0	0	30	4	3	5	1	1	2	10	4	0	0
	1430	,,	1002·7	992·1	..	39·3	21·1	5·6	9·1	12	..	1·1	..	10·5	0	3	27	5	3	3	0	0	0	16	3	0	0
	1730	,,	1001·4	990·8	..	37·5	20·5	5·6	9·1	18	..	1·5	..	8·2	0	0	30	5	5	1	0	0	0	8	11	0	0
	2030	,,	1003·1	992·2	..	31·7	20·0	11·1	13·8	31	..	0·7	..	2·5	0	0	17	1	3	1	0	1	0	5	6	13	0
	2330	,,	1004·1	993·0	..	28·9	18·7	10·6	12·3	35	..	0·5	..	3·3	0	0	21	0	9	1	0	1	0	3	7	9	0
Varanasi (Babatpur)	0530	85	1005·8	995·2	..	24·5	17·3	11·1	13·2	45	..	0·5	..	4·5	0	0	21	0	3	5	2	1	5	5	0	9	0
	0830	,,	1006·5	996·9	−1·5	30·4	20·3	12·8	14.8	36	+5	0·5	−0·5	10·9	0	0	29	0	1	7	4	0	5	8	2	1	2
	1130	,,	1006·2	996·8	..	35·7	21.3	10.8	12·9	24	..	0·5	..	13·0	0	8	20	0	1	4	2	0	2	8	7	2	4
	1730	,,	1002·2	992·9	..	37·5	22·3	12·2	14·2	23	..	0·8	..	79·2	0	15	16	1	3	5	0	0	2	11	8	0	0
	2330	,,	1004·9	994·9	..	28·5	18·7	10·9	13·0	39	..	0·2	..	6·0	0	1	19	0	1	9	0	0	2	8	0	10	0
Varanasi	0830	76	1005·2	997·2	−1.6	29·3	19·9	13·4	15·4	39	0	0·9	−0·4	2·9	0	0	29	1	2	5	3	3	6	8	1	1	0
	1730	,,	1001·2	992·6	..	37·5	21·5	10·0	12·3	21	..	1·2	..	3·2	0	0	30	2	9	1	0	1	0	13	4	0	0
Uttar Pradesh (West) Mukhim	0830	..	..	..	..	17·4	10·8	4·7	8·5	45	..	2·7	..	5.6	0	1	25	2	1	10	4	3	2	2	2	4	0
	1730	..	..	..	..	19·2	11·3	3·9	8·1	39	..	4·5	..	7·5	0	0	25	2	2	4	1	1	5	8	2	5	0
Tehri	0830	..	..	..	..	20·3	14·9	11·5	13·5	58	..	1·5	..	0·7	0	0	7	5	0	1	0	1	0	0	0	23	0
	1130	..	..	..	..	28.3	17·3	9.8	12.2	35	..	2.8	..	2.0	0	0	18	8	3	1	1	1	0	1	3	12	0
	1730	..	..	..	..	30.8	17.7	9.5	11.7	30	..	3.4	..	4.2	0	0	20	1	0	2	0	4	5	7	1	10	0
Dehra Dun	0530	682	1005·7	929·7	..	19·3	14 0	9·8	12·1	55	..	3.6	..	1·3	0	0	11	5	2	0	0	0	1	2	1	19	0
	0830	,,	1006·1	931·6	−0·4	25·0	16·7	10·7	12·9	42	−2	1·9	−0·4	1·1	0	0	13	3	2	0	1	2	2	3	0	17	0
	1130	,,	1005·5	931·6	..	30·9	18·3	9·1	11·5	27	..	2·5	..	3·8	0	0	25	0	1	1	5	4	6	7	1	5	0
	1730	,,	1001·2	928·5	..	31·8	18·5	8·5	11.1	25	..	3·1	..	3·0	0	0	28	3	0	0	2	1	5	15	2	2	0
	2330	,,	1006·6	934·1	..	23·2	15.7	9·9	12·2	43	..	1·4	..	2·7	0	0	19	9	4	1	1	0	1	1	2	11	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Uttar Pradesh (West)—*Contd.*																											
Mansiari	0830	..	..	..	..	15·3	9·0	2·8	7·5	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·4	9·9	3·9	8·1	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	247	1006·9	976·2	−0·3	25·5	17·4	11·0	13·1	41	0	2·6	+1·1	2·0	0	0	24	0	1	0	5	0	0	0	18	6	0
	1730	"	1003·0	973·2	..	33·9	20·3	10·0	12·3	25	..	2·5	..	2·0	0	0	24	0	1	0	4	0	0	0	19	6	0
Najibabad	0830	270	1006·4	976·1	..	25·6	17·8	12·0	14·0	43	..	2·3	..	4·8	0	0	27	2	0	9	3	0	1	8	4	3	0
	1730	"	1003·8	974·3	..	33·1	20·2	10·7	12·9	26	..	2.5	..	6·7	0	0	29	0	0	6	3	0	0	.3	7	1	0
Meerut	0830	222	1006·1	984·1	−0·9	26·9	..	..	..	..	..	0·8	−0·7	7·8	0	0	30	5	2	3	3	3	0	1	11	0	2
Bareilly	0830	173	1005·7	986·3	−1·2	28·8	19·9	13·8	15·8	41	−3	1·0	−0·6	10·5	0	1	29	5	1	0	10	3	1	1	9	0	0
	1730	"	1001·7	982·7	..	35·7	21·5	11·2	13·3	24	..	1·8	..	2·9	0	0	26	5	0	3	0	1	0	4	13	4	0
Bareilly P.B.O.	0230	172	1003·1	984·1	..	26·1	17·2	10·9	13·0	39	..	0·4	..	6·1	0	1	26	4	1	7	3	0	0	8	4	3	0
	0530	"	1004·0	984·5	..	24·1	16·5	11·3	13·4	46	..	1·0	..	5·2	0	0	26	1	2	10	1	0	0	8	4	4	0
	1130	"	1005·3	986·4	..	33·7	20·2	11·7	13·7	28	..	1·2	..	11·5	0	3	26	2	0	5	7	0	0	4	11	1	0
	1430	"	1002·7	984·0	..	36·2	20·7	11·1	13·2	23	..	1·9	..	9·9	0	2	28	2	1	3	5	0	0	9	10	0	0
	2030	"	1003·2	984·2	..	31·4	18·9	10·5	12·7	28	..	0·5	..	5·2	0	0	25	0	1	5	1	0	0	12	6	5	0
	2330	"	1003·9	984·4	..	28·5	17·9	10·9	13·0	35	..	0·5	..	5·8	0	0	27	1	2	5	1	0	0	11	7	3	0
Aligarh	0830	187	1006·4	984·9	..	27·4	18·3	11·4	13·5	39	+10	1·8	+0·8	3·2	0	0	28	3	0	0	3	3	3	13	3	2	0
	1730	"	1002·0	981·4	..	36·8	21·5	10·1	12·4	21	..	1·4	..	3·6	0	0	28	3	0	2	0	3	2	12	5	2	1
Mainpuri	0830	157	1005·4	988·0	−1·7	28·4	19·6	13·5	15·4	41	+5	0	−1·4	5·1	0	0	26	1	0	0	8	2	6	2	7	4	0
	1730	"	1001·6	985·7	..	37·7	22·8	12·7	14·8	25	..	0	..	3·0	0	0	30	0	0	0	3	2	5	4	16	0	0
Agra	0830	169	1006·4	987·6	−1·1	29·3	20·5	14·7	16·9	41	+13	0·3	−1·0	0·2	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	"	1001·7	983·5	..	38·0	24·6	17·3	20·0	30	..	0·9	..	1·0	0	0	3	0	0	0	0	0	0	0	3	27	0
Agra (Aerodrome)	0530	169	1004·5	985·4	..	22·2	16·7	12·4	14·4	55	..	1·1	..	8·3	0	1	23	1	0	4	4	0	1	6	8	6	0
	0830	"	1005·9	987·4	..	28·5	19·3	12·8	14·8	39	..	1·3	..	13·9	0	7	21	4	1	1	5	2	0	4	11	2	0
	1130	"	1005·7	987·3	..	35·9	21·9	12·9	14·9	26	..	1·4	..	15·8	0	8	21	2	2	0	5	2	3	5	10	1	0
	1730	"	1001·7	983·4	..	37·2	20·7	10·8	12·9	31	..	1·5	..	14·7	0	8	20	5	2	0	1	0	1	4	15	2	0
	2330	"	1004·3	085·4	..	27.3	18·9	13·1	15·1	42	..	0·7	..	7·9	0	2	20	3	3	4	5	0	0	3	3	8	1
Orai	0830	141	1008·5	993·0	..	31·5	24·1	20.1	23·5	52	..	0·4	..	0·3	0	0	30	0	9	1	3	0	4	0	13	0	0
	1730	"	1002·6	987·5	..	37·3	22·3	12·2	13·7	23	..	0	..	2·4	0	0	30	0	5	0	1	0	0	0	24	0	0
Jhansi	0830	251	1007·1	979·3	−0·9	30·4	18·4	9·3	11·7	28	−1	0·3	−0·8	0·9	0	0	23	15	0	2	0	0	0	1	5	7	0
	1730	"	1001·7	975·0	..	40·1	21·1	7.0	10·0	14	..	1·3	..	2·5	0	0	21	10	0	9	0	0	0	1	1	9	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1005·4	970·1	..	21·8	15·7	9·3	12·0	49	..	3·2	..	8·2	0	0	16	1	11	1	1	1	0	1	0	14	0
	0830	"	1006·4	971·7	−1·3	25·8	16·9	9·6	12.0	37	+3	3·4	+0·5	8·0	0	0	23	5	7	5	2	1	0	1	2	7	0
	1130	"	1006·2	972·0	..	31·2	18·7	8·6	11·2	27	..	4·0	..	11·1	0	0	26	2	5	4	2	5	2	5	1	4	0
	1730	"	1003·1	969·1	..	32·5	18.5	6·3	9·5	21	..	4·5	..	17·2	0	8	19	2	4	0	0	1	2	13	5	3	0
	2330	"	1005·9	970·5	..	24·3	16·7	10·4	12·6	45	..	3·3	..	8·8	0	0	15	3	6	2	1	0	1	0	2	15	0
Amritsar (Rajasansi)	0530	234	1005·5	978·6	..	18·5	15·1	12·4	14.4	69	..	3·6	..	7·7	0	2	18	4	2	7	1	1	0	0	5	10	0
	0830	"	1006·6	980·1	−1·3	23.8	17.6	13·2	15.1	53	+4	3·4	+1.3	8.6	0	1	25	2	5	9	2	0	0	0	8	4	0
	1130	"	1006·6	980·6	..	30·6	19.8	12.1	14.3	34	..	3·5	..	12.0	0	5	25	3	2	4	4	4	2	1	10	0	0
	1430	"	1004·6	979·0	..	33·7	19.9	9.6	11·9	24	..	4·1	..	14·3	0	10	18	2	1	4	5	0	5	3	8	2	0
	1730	"	1003·2	977·5	..	32·7	19·6	9·4	12·2	26	..	4·3	..	13.4	0	7	21	6	1	2	6	0	0	4	9	2	0
	2030	"	1004·8	978·5	..	25.3	17·9	12.4	14·6	47	..	2·9	..	8·8	0	3	21	2	1	7	1	0	2	5	6	6	0
Adampur (Aerodrome)	0830	249	1006·3	978·1	..	24·8	18.1	14·4	16·4	54	..	3·0	..	13·9	0	8	14	4	3	3	5	1	0	1	5	8	0
	1730	"	1003·3	976·1	..	32·6	19.8	12·4	14·4	31	..	4·1	..	22·1	0	11	16	2	0	1	2	5	2	6	9	3	0
Ludhiana	0830	247	1005·4	977.8	−1·7	23·9	17·0	11·8	13·8	49	+3	1·7	−0·1	2·1	0	0	13	0	4	1	5	0	0	1	2	17	0
	1730	"	1003·1	976·0	..	34.2	20·4	10·3	12·7	25	..	3·6	..	2·4	0	0	29	6	1	5	1	2	1	3	10	1	0
Ferozepore	0830	200	1006·9	984·3	..	23·6	18·1	14·1	16·1	58	..	1·6	..	1.8	0	0	18	0	9	0	3	0	0	0	6	12	0
	1730	"	1004·3	982·3	..	32·6	20·8	12.7	14·7	31	..	1·3	..	1.4	0	0	17	2	5	0	1	0	0	0	9	13	0
Halwara (Aerodrome)	0830	242	1007.1	979.9	..	26·1	18·7	13·4	15·4	47	..	2·5	..	16.0	0	6	23	2	4	3	8	1	0	0	11	1	0
	1730	"	1004·4	977.5	..	34·1	20·7	11.8	13.8	26	..	3.6	..	17·0	0	9	21	5	1	1	3	3	0	3	14	0	0
Chandigarh	0830	347	1005·5	966·4	−1·9	28·6	17·4	8.0	10.7	30	−8	1.6	+0·5	4·7	0	0	17	0	2	0	5	0	0	0	10	13	0
	1730	"	1002·4	964.5	..	33·8	19.5	7.8	10.6	22	..	2·7	..	3·2	0	0	18	0	5	0	5	0	0	0	8	12	0
Ambala	0830	272	1005·7	975.3	−1·2	26.9	18.6	12·5	14·7	43	+6	0·5	−1·3	7·1	0	2	26	0	4	0	14	0	5	0	5	2	0
	1730	"	1002·6	973·0	..	34·1	20.4	10·8	12·8	25	..	0·1	.	4.7	0	0	16	0	4	0	2	0	3	0	7	14	0
Ambala (P.B.O.)	0230	278	1003·9	972·7	..	24·8	16.9	12·0	14·0	46	..	1·7	..	8·3	0	0	23	4	2	0	6	1	0	0	10	7	0
	0530	"	1004.1	972·7	..	23·0	16·3	12·0	14·0	51	..	2·4	..	10.1	0	0	22	4	1	1	5	0	1	2	8	8	0
	1130	"	1005·3	974·8	..	32·6	20·5	13·9	15.9	34	..	3·0	..	14.0	0	0	25	4	1	1	10	0	0	1	8	5	0
	1430	"	1003·2	972·9	..	34.5	20·2	11.9	13·9	26	..	3·3	..	12.8	0	0	27	3	2	0	7	0	1	5	9	3	0
	2030	"	1003·3	972·6	..	30.0	19.1	12.6	14.6	35	..	1.3	..	8.2	0	0	26	4	1	2	4	0	0	5	12	4	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
	0230	278	1004·2	973·3	..	27·1	17·9	12·1	14·1	41	..	0·8	..	9.5	0	0	27	5	2	3	3	1	0	1	12	3	0
Ambala (Aerodrome)	0530	274	1004.4	973·1	..	21·3	16·0	11·5	13·6	55	..	2·3	..	12·0	0	0	22	1	0	3	3	1	0	4	10	7	1
	0830	"	1005.8	974·8	..	26.2	18·1	12·1	14·1	42	..	2·4	..	16·2	0	0	28	2	0	7	4	0	2	1	11	2	1
	1130	,,	1005.2	975·2	..	32·9	20·6	11·4	13·5	29	..	3·0	..	21·0	0	0	27	2	0	2	9	1	1	3	9	3	0
	1730	,,	1001.7	971·9	..	34.3	20·1	9·4	10.9	23	..	3·3	..	2·0	0	0	27	0	0	1	3	2	1	10	10	3	0
	2330	"	1004·5	973·7	..	25.0	17·2	11.0	13·1	43	..	1·4	..	9·0	0	0	21	1	1	2	4	0	0	4	9	9	0
Patiala . . .	0830	251	1006.0	978·0	..	27·0	18·8	13·0	15·0	43	..	2·1	..	9·2	0	3	19	0	2	0	6	0	0	0	14	8	0
	1730	,,	1002·9	975·6	..	34·0	20·1	9·9	12·2	23	..	3·2	..	11·4	0	2	23	3	0	0	5	0	0	0	17	5	0
Bhatinda . .	0830	211	1006.0	982·5	..	29·4	23·9	20·8	24·6	58	..	1·4	..	4·3	0	1	20	0	5	0	8	0	0	0	8	9	0
	1730	,,	1004·0	980·7	..	35·4	27·4	23·1	28·3	50	..	0·5	..	3·2	0	0	23	2	4	1	3	0	0	0	13	7	0
Karnal . .	0830	249	1005·0	977·8	..	29·0	19·4	12·7	14·7	37	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1000.9	973.5	..	33.8	20.8	11·7	13·7	27	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar . . .	0530	221	1005.1	979.9	..	21.7	17.2	13.9	15·9	62	..	1.2	..	3.9	0	0	23	4	0	7	0	3	2	6	1	7	0
	0830	,,	1006.6	981.8	—1.1	26.2	20.1	16.2	18.5	55	+14	1.5	+0·1	5.8	0	0	24	3	2	3	4	3	4	3	2	6	0
	1130	,,	1005.9	981·8	..	34.6	23.6	17·2	20·1	36	..	2·1	..	5·1	0	1	26	4	0	3	5	5	1	4	5	3	0
	1730	,,	1002.8	978.6	..	36.1	24.2	17.3	20.4	35	..	2.5	..	6·1	0	1	24	3	2	2	1	0	3	6	8	5	0
	2330	,,	1005.1	980.3	..	25.9	19.1	14·2	16.6	48	..	0·4	..	3·0	0	0	23	7	1	7	1	2	0	4	1	7	0
New Delhi (Safdarjung)	0230	216	1004.3	980·0	..	25.5	18.3	13·1	15·3	47	..	1·5	..	6·9	0	2	22	1	0	6	1	1	0	5	10	6	0
	0530	,,	1004·7	980.2	..	23·7	17·4	12 7	14·8	52	..	2·1	..	6·9	0	1	23	0	1	4	2	0	3	8	6	6	0
	0830	"	1006·0	982·1	—1·1	27·3	19·2	13 5	15·7	45	+13	1·8	+0·3	2·1	0	6	24	2	0	3	7	0	3	8	7	0	0
	1130	"	1005·6	982·1	..	34.1	21·7	13·7	15·8	31	..	2·4	..	17·7	0	14	16	4	0	2	7	1	0	4	12	0	0
	1430	"	1003.4	979·9	..	37.6	22.2	12·6	14·3	25	..	2·1	..	17·1	0	12	18	2	1	4	1	2	1	7	12	0	0
	1730	,,	1002.2	978·6	..	36.2	21·9	12·3	14·6	25	..	2.1	..	13·9	0	7	23	5	2	3	0	2	1	4	13	0	0
	2030	,,	1003·6	979·2	..	31·1	20·6	13.5	15·7	35	..	1.5	..	7·1	0	1	25	3	3	6	1	0	0	2	11	4	0
	2330	,,	1004·5	980·4	..	28·0	19·3	13·1	15.3	41	..	1·1	..	8·3	0	3	22	5	2	6	0	0	0	3	9	5	0
Palam (Aerodrome) .	0230	233	1004·4	978.2	..	24·9	16·4	9·2	11·6	39	..	1·3	..	9·3	0	2	25	4	2	3	6	1	3	2	6	3	0
	0530	,,	1001·9	974·9	..	22·2	15·5	10·3	12·5	47	..	1·8	..	10.3	0	0	28	3	0	4	6	1	4	9	1	2	0
	0830	,,	1006·3	981·0	..	26·6	18.0	11·5	13·6	39	..	1.9	..	13·5	0	5	24	2	1	1	7	1	2	9	6	1	0
	1130	"	1005·9	983·8	..	34·7	20·8	10·8	12·9	26	..	2.0	..	17·1	0	7	23	5	4	0	4	3	3	5	6	0	0
(R)	1430	,,																									
	1730	,,	1002·2	976·7	..	36·9	20.5	7·1	10·1	18	..	2.3	..	19.5	0	9	21	6	3	0	1	1	0	6	13	0	0
(R)	2030	,,																									
	2330	,,	1004·6	978·6	..	27.8	17·6	8.6	11.2	30	..	1.1	..	11.1	0	3	27	9	3	4	7	0	2	1	4	0	0
Himachal Pradesh Mandi . . .	0830	761	1008·6	924·8	—0·3	19.2	14·8	11.6	13·7	66	—1	2·5	+0·2	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
	1730	,,	1003·1	922·1	..	28·5	17·2	8·4	11·0	31	..	3·8	..	1·3	0	0	5	0	1	0	0	0	2	0	2	25	0
Bilaspur . . .	0830	587	1007·5	942·6	..	22·1	17·3	13·8	15·8	62	..	0	..	0·3	0	0	2	0	0	2	0	0	0	0	0	28	0
	1730	,,	1004·7	941·0	..	30·5	20·2	13·4	15·4	40	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jammu and Kashmir Misgar (R)	0830	..																									
(R)	1730	..																									
Gilgit (R)	0830	..																									
(R)	1730	..																									
Skardu (R)	0830	..																									
(R)	1730	..																									
Leh . . .	0530	3514	3120·3	666·5	..	—1·5	—4·4	-10·3	2·7	51	..	3·5	..	5·3	0	0	24	11	7	0	4	0	1	1	0	6	0
	0830	"	3123·0	668·0	+1·5	5·8	0·8	—6·8	3·5	40	—10	4.1	—0.1	2·3	0	0	14	0	2	0	4	4	3	1	0	16	0
	1730	"	..	..	..	9·6	3·6	—5·0	4·4	41	..	5·0	..	5·7	0	0	29	0	1	0	2	2	14	0	10	1	0
Srinagar . . .	0830	1587	1513·7	842·7	+0·6	11·2	9·7	8·5	11·1	83	—2	4·8	+0·7	2·1	0	0	13	0	2	0	3	0	0	2	6	17	0
	1130	,,	1481·8	842·9	..	14.9	11·4	8·5	11·1	67	..	5·1	..	4·3	0	0	23	3	1	2	5	0	1	0	11	7	0
	1430	"	1497·5	838·0	..	16·9	12·4	8·9	11·4	60	..	5·3	..	5·3	0	0	24	4	0	2	0	3	0	0	15	6	0
	1730	,,	1487·8	840·3	..	16·2	11·9	8·7	11·2	63	..	5·8	..	5·5	0	0	20	4	1	1	0	1	0	0	13	10	0
	2030	,,	1496·0	840·9	..	13·2	10·8	9·0	11·5	76	..	4·2	..	2·3	0	0	8	0	2	0	0	1	0	0	5	22	0
Srinagar (Aerodrome)	0530	1666	1497·4	833·3	..	9·0	7·7	6·4	9·6	84	..	5·5	..	2.0	0	0	7	0	0	1	0	0	0	0	6	23	0
	0830	,,	1506.4	834·3	..	11·2	9·2	7·3	10·2	72	..	5·7	..	3.2	0	0	19	2	4	1	1	1	0	2	8	11	0
	1130	,,	1502·8	834·7	..	14.5	11·0	8·1	10·8	67	..	5.6	..	4·3	0	0	14	2	3	1	1	2	0	0	5	16	0
	1730	,,	1482·0	832·2	..	15·9	11.2	7·5	10.4	60	..	6·5	..	8·1	0	3	22	1	2	1	0	0	0	2	19	5	0
	2330	,,	1501·8	833·9	..	10·9	9·0	7·4	10·3	80	..	5.0	..	1·3	0	0	6	1	0	0	0	1	0	0	4	24	0
Gulmarg . .	0830	2655						Closed during winter months																			
	1730	,,						Closed during winter months																			

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour.	Wind speed (K m.p.h.): 62 or more	Wind speed (K m.p.h.): 20 to 61	Wind speed (K m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu & Kashmir —*contd.*																											
Quazigund	0830	2655	..	..	..	11·3	9.5	7.9	10·7	80	..	5·8	..	2.3	0	0	22	1	2	2	3	2	0	8	4	8	0
	1730	,,	..	..	..	16·2	12·0	8·7	11·2	63	..	6·3	..	4.4	0	0	27	2	2	2	4	1	1	7	8	3	0
Banihal	0830	..	..	..	..	13·7	9·9	6·6	9.7	64	..	4·4	..	7·4	0	3	9	9	1	0	0	0	0	0	2	18	0
	1730	..	..	..	..	18·4	12·2	7.3	10·2	50	.	5·8	..	7·5	0	1	19	9	0	4	0	2	0	0	5	10	0
Jammu	0830	..	..	..	..	24·8	16·9	10·8	12.9	43	+3	3·6	+1·1	6·6	0	0	29	8	14	2	0	1	0	1	1	1	2
	1730	..	..	..	..	30·8	18·9	10·0	12·3	29	..	3·7	..	5·4	0	0	29	4	6	0	1	3	4	4	5	1	2
Jammu (Aerodrome)	0530	292	1005·5	972·1	..	21·9	15·3	9·1	11·5	48	.	3·3	..	8·4	0	1	25	3	19	2	0	0	1	1	0	4	0
	0830	,,	1006·4	973·4	..	24·7	17·2	11·3	13·6	45	..	3 9	..	9·4	0	2	25	1	15	5	1	0	2	0	3	3	.
	1130	,,	1006·5	974·0	..	30·0	18·4	9 1	11.5	29	..	4.1	..	11·5	0	0	29	1	7	2	4	4	2	4	5	1	0
	1730	,,	1003·5	971·2	..	21·2	18·9	8 8	11·4	28	..	4·5	..	13·1	0	2	26	0	5	0	3	2	2	11	5	2	0
	2330	,,	1005·9	972·8	..	24.0	16·7	10·5	12·7	45	..	3·8	..	9·7	0	3	20	3	12	5	0	0	0	2	1	7	0
Rajasthan (West) Ganganagar	0530	177	1004·6	984·5	..	22·2	17·1	13·3	15·3	59	..	1·8	..	3·5	0	0	19	2	7	6	2	0	0	1	1	11	0
	0830	,,	1005·9	986.0	−1·4	25·4	18·6	13·7	15·7	51	+12	1·5	+0·2	3·9	0	0	25	2	8	3	4	2	0	0	1	5	0
	1130	,,	1005·8	986·4	..	34·5	22·0	13·6	15·6	30	..	2·7	..	7·0	0	0	29	7	2	4	4	4	3	2	3	1	0
	1730	,,	1002·0	983·0	..	36·8	22·0	12·4	14·4	25	..	2·1	..	4·0	0	0	26	6	2	0	2	2	5	2	7	4	0
	2330	,,	1004·9	985·1	..	26.9	19.2	13.7	15.7	46	..	1.0	..	3·9	0	0	22	6	6	7	0	0	2	0	1	8	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	1005.2	984.0	..	28.5	21.5	16.9	19.3	53	..	(c) 0.8	..	(d) 6·0	0	1	26	2	1	6	7	3	5	2	0	1	0
	1730	,,	1000·6	980.1	..	37.7	24.9	17·9	19.6	33	..	(f) 1.3	..	(f) 12·0	0	0	21	2	0	0	1	0	9	4	5	1	0
Churu	0830	291	1006.4	974.0	..	27.6	20·7	16.2	18.4	51	..	1.4	..	6.2	0	1	27	2	0	6	3	7	3	5	3	2	0
	1730	,,	1001·8	970.5	..	37.7	25·7	19.6	22.8	36	..	1.5	..	12·3	0	7	23	8	1	0	0	1	1	13	7	0	0
Bikaner	0830	224	1006·0	980.7	−1·6	27·5	17·8	7·7	10·8	31	+3	0·5	—0·9	4·1	0	0	29	3	3	1	7	2	8	3	3	1	0
	1730	,,	1001·5	977·4	..	38·7	20·5	5·8	9·9	15	..	1·0	..	6·0	0	0	30	4	1	0	0	0	8	4	13	0	0
Bikaner P. B. O.	0530	224	1004·5	979·1	..	23·9	15·3	7·1	10·4	36	..	0·8	..	2·0	0	0	9	0	1	0	0	1	3	3	1	21	0
	1130	,,	1005 6	981·2	..	36·5	20·2	6·3	9·5	17	..	1·4	..	7·1	0	0	28	4	3	0	4	3	5	4	5	2	0
	2330	,,	1004·3	979·4	..	29·4	17·4	6·7	10·1	26	..	0·7	..	2·5	0	0	10	1	2	0	0	0	3	2	2	20	0
Nagaur	0830	298	1006·3	973·4	..	30·2	19·6	12·2	14·2	34	..	1·2	..	8·0	0	0	30	1	1	3	4	6	7	4	4	0	0
	1730	,,	1001·2	969·9	..	37·6	22·2	12·1	14·1	25	..	1·7	..	8·0	0	0	30	3	0	0	1	6	9	5	6	0	0
Phalodi	0830	234	1006·9	980·8	..	28·3	18·9	11·8	13·8	39	..	1.2	..	8·9	0	2	28	1	2	0	0	0	6	15	6	0	0
	1730	,,	1003·4	978·4	..	38·6	23·8	14·3	16·3	25	..	1·6	..	14·2	0	0	29	3	1	1	2	6	10	4	2	1	0
Jaisalmer	0830	242	1006·4	979·4	..	27·5	20·9	16·6	18·9	54	..	1·7	..	10·0	0	1	27	1	1	1	0	13	11	1	0	2	0
	1730	,,	1002·2	976·1	..	38·4	27·1	22·4	27·1	40	..	1·4	..	6·8	0	0	29	5	0	0	0	10	9	0	5	1	0
Jodhpur	0230	224	1004·7	979·8	..	28·7	16·4	5·2	8·7	24	..	0·5	..	7·6	0	1	29	5	5	1	0	1	8	10	0	0	0
	0530	,,	1005·0	979·0	..	25·9	15·8	6·2	9·4	30	..	0·6	..	6·7	0	0	25	3	5	1	0	1	6	8	1	5	0
	0830	,,	1006·8	981·7	0·2	28·6	17·3	6·9	10·1	27	—5	1·3	—0·4	6·7	0	1	22	2	3	0	0	2	10	6	0	7	0
	1130	,,	1006·4	982·1	..	36·8	20·0	6·2	9·7	16	..	0·8	..	8·7	0	0	30	2	1	1	2	2	11	7	4	0	0
	1430	,,	1003·8	979·7	..	39·9	20·4	3·2	8·0	11	..	1·5	..	13·7	0	2	28	4	0	0	1	1	7	9	8	0	0
	1730	,,	1002.3	978.1	..	39·4	20·1	3.1	7·8	11	..	1·5	..	12.4	0	4	25	2	0	0	0	0	6	15	6	1	0
	2030	,,	1003.6	979.1	..	35·0	19.3	5.8	9·5	17	..	0·9	..	6.1	0	0	27	4	0	0	0	1	9	6	7	3	0
	2330	,,	1004·9	980·2	..	31·6	17.7	5·1	9·0	20	..	0.4	..	6·7	0	0	23	4	2	0	0	0	9	7	1	7	0
Barmer	0530	194	1004·2	982·5	..	28·0	20·1	15·0	17·0	47	..	0·5	..	4·7	0	0	24	0	0	0	0	0	4	15	5	6	0
	0830	,,	1006·0	984·3	—2·1	28·9	21·1	16·3	18·5	48	—5	0·8	—0·5	6.1	0	0	25	0	2	0	1	3	5	8	6	5	0
	1130	,,	1005·7	984·8	..	36·8	23·2	14·4	16·4	28	..	0·7	..	4·3	0	0	30	3	3	2	4	4	5	6	3	0	0
	1730	,,	1001.7	980·8	..	40·0	25·6	17·6	20·1	29	..	3·1	..	7·4	0	0	28	1	1	0	1	2	7	11	5	2	0
	2330	,,	1004.5	983·1	..	33·2	22·4	15·7	17·8	36	..	0·1	..	4·8	0	0	27	0	0	1	1	1	7	11	6	3	0
Erinpura (Jawai Dam)	0830	295	1007·1	974·6	..	28·7	21·5	17·3	19 7	51	..	0·9	..	4·7	0	0	23	0	0	0	0	19	2	2	0	7	0
	1730	,,	1003·6	970·6	..	37·6	26·2	20·4	24·0	40	..	0·9	..	7·3	0	0	26	3	0	0	0	0	1	17	5	4	0
Munabao (R)	0830	80																									
(R)	1730	,,																									
Rajasthan (East) Pilani	0830	301	1006·7	973·3	..	27·8	16·7	6·8	9·9	28	..	0·3	..	9·2	0	1	29	0	1	1	7	5	8	7	1	0	0
	1730	,,	1001·8	969·4	..	36·6	18·6	1·5	6·8	11	..	0·4	..	13·1	0	3	27	4	4	0	0	0	3	10	9	0	0
Sikar	0830	433	1006·4	958·8	..	27·6	18·4	11.1	13·2	38	..	0·3	..	0·9	0	0	9	0	0	0	3	0	0	6	0	21	0
	1730	,,	1001·7	955·7	..	36·7	20·7	8·2	10·9	19	..	1·2	..	2·4	0	0	21	1	1	0	0	0	3	9	7	9	0
Alwar	0830	271	1005·3	975·3	..	28·9	21·7	17·3	19·7	51	..	1·2	..	1·5	0	0	17	1	6	3	2	2	3	0	0	13	0
	1730	,,	1001·7	972·7	..	37·0	26·1	18.8	21·7	35	..	2·2	..	1·5	0	0	18	5	3	1	1	0	3	0	4	12	1
Jaipur (Sanganer)	0230	390	1004·1	960·8	..	25·8	15·3	5·1	8·8	28	..	0·7	..	3·9	0	0	19	7	1	5	1	0	0	1	4	11	0

(R) Register not received.

(d) Mean of 27 days. (e) Mean of 26 days. (f) Mean of 22 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour.	Wind speed (Km.p h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan East—*contd.*																											
Jaipur—*contd.*	0530	390	1004·7	961·1	..	24·3	14·9	5.9	9·3	32	..	1·1	..	4·3	0	0	22	6	1	6	1	0	0	2	6	8	0
	0830	,,	1006·0	963·0	—2·0	29·3	17·3	6.8	9.9	25	—5	1.0	—0·4	6·5	0	0	21	1	1	7	2	0	0	2	8	9	0
	1130	,,	1005·1	963·0	..	35·5	19·1	4·8	8·6	15	..	1·2	..	9·6	0	2	25	2	1	1	3	1	4	7	8	3	0
	1430	,,	1002·5	960·8	..	37·9	19·5	3·2	7·7	12	..	1·5	..	12·1	0	2	28	1	1	1	0	1	5	14	6	0	1
	1730	,,	1001·1	959·4	..	37·2	19·2	2·7	7·4	12	..	1·7	..	9·3	0	0	25	1	0	0	0	0	2	9	13	5	0
	2030	,,	1003·3	960·7	..	30·8	17·9	6·7	9·8	23	..	0·8	..	2·6	0	0	15	4	2	0	1	0	0	0	8	15	0
Dholpur	0230	,,	1004·5	961·4	..	27·9	16·1	4·9	8·7	24	..	0·1	..	2·8	0	0	15	6	1	1	1	0	0	1	5	15	0
	2330	176	1006·2	986·6	..	29·1	18·3	9·6	11·5	30	..	0·7	..	6·2	0	1	23	2	0	1	7	1	0	4	9	6	0
	1730	,,	1001·1	982·1	..	38·1	20·7	6·7	9·8	15	..	1·3	..	5·8	0	1	23	4	3	0	0	1	1	6	9	6	0
Ajmer	0830	486	1006·4	953·3	—1·6	29·1	16·5	6·3	9·5	25	—5	1·5	+0·1	7·4	0	2	19	1	1	1	0	1	9	6	2	9	0
	1730	,,	1001·4	949·9	..	37·0	17·8	0·3	6·2	11	..	2·2	..	12·1	0	2	28	3	0	0	0	0	8	12	7	0	0
Tonk	0830	272	1005·4	975·3	.	29·0	20·4	14·1	16·1	43	..	0·9	..	7·6	0	0	29	1	0	5	5	0	3	8	7	1	0
	1730	,,	1000·6	971·1	..	38·7	25·1	16·3	18·5	29	..	1·1	..	5·4	0	0	30	0	1	0	0	0	7	8	14	0	0
Bhilwara	0830	425	1006·7	960·1	..	29·7	17·2	5·5	9·0	23	..	1·5	..	7·0	0	0	28	6	2	0	2	2	6	5	5	2	0
	1730	,,	1001·9	956·7	..	37·7	18·6	—0·6	5·8	9	..	1·7	..	5·6	0	0	26	5	1	0	0	2	0	9	9	4	0
Kota (Aerodrome)	0530	274	1004·7	974·2	..	27·0	15·2	2·9	7·5	22	..	0·7	..	10·0	0	0	30	0	1	0	1	0	5	19	4	0	0
	0830	,,	1006·4	976·3	..	31·7	17·4	3·4	7·8	18	..	1·1	..	13·9	0	5	25	2	0	4	3	0	1	13	7	0	0
	1130	,,	1006·1	976·5	..	36·7	19·1	2·3	7·2	13	..	1·3	..	15·7	0	10	20	6	5	5	0	1	0	6	7	0	0
	1730	,,	1001·7	972·4	..	39·4	19·4	—0.7	5·8	9	..	1·6	..	16·3	0	10	20	5	3	2	0	0	1	7	12	0	0
	2330	,,	1004·6	974·5	..	31·5	16·6	0 9	6·5	15	..	0·1	..	9·7	0	3	27	0	0	1	1	2	6	16	4	0	0
Kota	0830	257	1006·2	978·0	—1·6	32·8	18·6	6·8	9·9	20	—5	1·2	—0 2	10·1	0	3	19	1	0	3	2	0	0	9	7	8	0
	1730	,,	1001 6	974·1	.	38·7	20·4	5·1	9 0	13	..	1 6	..	8·7	0	6	17	4	4	0	0	0	0	6	9	7	0
Chambal (Rawat Bhatta Dam)	0830	351	1006·6	967·9	..	29·7	17·4	6 3	9·5	24	..	0·6	..	1·7	0	0	9	0	3	0	.	0	1	1	4	21	0
	1730	,,	1001·4	964·4	..	38·9	19·3	—0·9	5·6	9	..	0·9	..	10·6	0	1	29	5	1	0	0	1	2	4	17	0	0
Udaipur	0230	582	1006·1	942·1	..	25·3	15·7	8·0	10·7	34	..	0	..	0·4	0	0	2	0	0	0	0	1	1	0	0	28	0
	0530	,,	1006·5	942·1	..	23.1	15·1	8·7	11·2	41	..	0·6	..	0·8	0	0	4	1	0	0	0	0	2	1	0	26	0
	0830	,,	1006·9	943·7	—0·9	29·3	18·1	9·6	11·9	30	—10	1·4	+0·4	2·3	0	0	12	2	1	0	0	1	1	3	4	18	0
	1130	,,	1005·8	943·9	..	35·7	18·7	5·6	9 0	16	..	1·0	..	3·3	0	0	18	2	1	1	0	3	3	7	1	12	0
	1730	,,	1002·1	940·6	..	36·7	18·9	4·9	8·7	15	..	1·0	..	5·8	0	0	23	1	1	0	0	3	5	4	9	7	0
	2330	,,	1006·9	942·9	..	28·0	17·0	7·9	10·7	29	..	0·1	..	1·5	0	0	8	1	0	0	0	0	2	3	2	22	0
Jhalawar	0830	321	1006·3	970·8	—2·2	29·8	17·5	6·5	9·7	25	—4	0·6	—0.5	4·3	0	0	27	4	2	1	5	2	4	3	6	3	0
	1730	,,	1001·1	967·1	..	39·9	19·3	—1·7	5·3	8	..	0·5	..	7·3	0	0	30	3	3	0	0	0	7	10	7	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1003·9	980·7	..	25·1	16·4	8·1	11·6	33	..	(b) 0·5	..	3·4	0	0	17	1	1	0	4	3	3	3	2	13	0
	0530	,,	1004·6	981·1	..	24·3	15·8	8·1	11·1	37	..	1·2	..	3·6	0	0	20	0	1	2	4	6	2	2	3	10	0
	0830	,,	1006·1	983·1	—1·4	31·6	18·9	9·1	11·5	27	+1	(c) 1·1	—0·1	5·3	0	0	23	1	1	1	4	3	0	4	9	7	0
	1130	,,	1005·6	983·1	..	36·9	20·5	7·4	10·8	18	..	(c) 1·3	..	10·0	0	3	26	4	2	3	3	5	1	5	6	1	0
	1430	,,	1002·9	980·6	..	39·1	20·7	5·5	9·4	14	..	(c) 1·7	..	12·3	0	6	24	5	0	2	1	2	1	3	15	0	1
	1730	,,	1001·5	979·2	..	38·5	20·5	5·4	9·4	14	..	(c) 1·7	..	11·7	0	7	23	4	4	1	1	0	0	4	16	0	0
	2030	,,	1003·2	980·5	..	32·2	18·6	7·2	10·4	22	..	(b) 0·7	..	3·3	0	0	17	2	1	2	0	0	0	5	7	13	0
	2330	,,	1004·4	981·4	..	28·1	17·1	7·5	10·6	28	..	(b) 0·3	..	2·7	0	0	18	2	0	2	2	2	4	5	1	12	0
Sheopur	0830	235	1006·4	980·4	—2·0	29·7	17·1	6·1	9·3	23	—4	0·9	—1·0	5·3	0	0	26	2	2	2	3	7	6	3	1	4	0
	1730	,,	1001·5	976·2	..	38·7	19·6	2·1	7·3	10	..	1·6	..	13·2	0	5	25	4	1	0	0	1	5	8	11	0	0
Shivpuri	0830	464	1005·9	955·2	..	30·0	16·6	4·7	9·1	22	..	(b) 1·1	..	6·0	0	1	22	1	2	2	4	0	5	6	2	7	1
	1730	,,	1000·9	951·4	..	37·1	17·6	1·1	5·7	9	..	1·3	..	7·3	0	0	30	0	0	1	0	0	2	8	19	0	0
Nowgong	0830	229	1006·1	980·6	—1·8	28·8	18·2	9·9	12·3	31	—3	(b) 1·4	—0·3	(b) 1·9	0	0	11	1	1	2	1	1	4	1	0	18	0
	1730	,,	1001·4	976·8	..	38·8	20·2	3·9	8·5	13	..	(b) 1·1	..	2·7	0	0	20	1	1	0	0	0	2	6	10	10	0
Guna	0530	478	1005·8	952·1	..	22·9	13·8	5·6	9·1	33	..	1·8	..	4·1	0	1	22	1	2	1	9	1	1	7	1	7	0
	0830	,,	1006·3	954·2	—1·6	30.9	17·2	5·8	9·6	22	—4	1·6	+0·8	5·5	0	1	29	4	2	2	3	8	0	11	0	0	0
	1130	,,	1005·0	954·0	..	37·2	19·1	4·7	8·8	14	..	1·8	..	11·3	0	5	25	3	0	3	3	1	0	8	12	0	0
	1730	,,	1000·9	950·3	..	38·1	18·7	2·2	7·4	11	..	2·3	..	18·9	0	13	17	4	0	0	0	0	0	8	18	0	0
	2330	,,	1005·3	952·6	..	26·7	15·1	5·0	8·7	25	..	0·2	..	3·7	0	0	23	4	1	2	4	1	·2	6	3	7	0
Nimach	0830	496	1007·1	952·9	—1·2	29·2	16·3	4·7	9·1	24	—10	1·2	+0·1	9·3	0	1	26	0	4	2	0	0	1	10	1	3	9
	1730	,,	1001·8	949·4	..	37·9	17·9	—0·9	5·7	9	..	1·3	..	11·6	0	2	26	0	1	0	0	1	·2	14	5	2	5
Rajgarh	0830	382	1006·6	964.4	..	27·5	16.7	7·2	10·2	29	..	0·5	..	5·3	0	2	19	4	0	4	0	5	0	8	0	9	0
	1730	,,	1001·4	960·9	..	38·8	20·3	3·9	8·2	13	..	0·3	..	7·9	0	3	23	14	0	1	0	0	·0	10	1	4	0
Sagar	0830	551	1005·9	946·0	—1·5	29·8	16·2	4·3	8·5	21	—5	1·8	+0·4	3·5	0	0	24	0	1	6	7	0	1	6	3	6	0
	1730	,,	1000·3	942·1	..	36·9	18·2	2·2	7·2	11	..	2·3	..	4·3	0	0	28	0	2	3	1	0	·2	11	9	2	0

(c) Mean of 28 days. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Ratlam	0830	486	1007.2	953.9	—1.5	28.6	20.5	15.5	18.2	48	+11	1.4	—0.2	10.1	0	3	25	2	3	1	1	1	6	11	3	2	0
	1730	"	1002.0	950.5	..	38.3	24.4	17.0	20.2	32	..	1.8	..	12.5	0	2	28	3	1	1	0	0	7	9	9	0	0
Phopal (Bairagarh)	0230	523	1004.4	947.0	..	26.7	15.8	6.7	10.0	29	..	1.0	..	10.3	0	2	25	4	1	2	2	1	0	7	10	3	0
	0530	"	1005.3	947.4	..	24.6	15.0	6.7	10.1	33	..	1.5	..	7.9	0	1	26	2	2	2	3	0	3	7	8	3	0
	0830	"	1006.4	949.6	—1.4	30.5	17.9	8.4	11.2	27	+3	1.3	—0.1	12.7	0	8	20	2	2	1	4	2	3	6	8	2	0
	1130	"	1005.1	949.4	..	36.8	20.6	9.6	12.4	20	..	1.2	..	15.1	0	8	22	4	3	2	4	1	3	5	8	0	0
	1430	"	1001.8	946.7	..	39.0	20.9	8.4	11.4	17	..	2.1	..	17.7	0	12	18	1	3	0	1	0	1	12	12	0	0
	1730	"	1008.7	945.6	..	38.3	20.3	7.1	10.6	16	..	2.2	..	15.8	0	8	21	4	1	0	0	0	1	10	13	1	0
	2030	"	1003.6	947.2	..	31.9	17.9	7.0	10.5	22	..	1.4	..	7.7	0	0	29	4	2	0	1	1	1	7	13	1	0
	2330	"	1004.9	947.9	..	29.0	16.7	6.8	10.1	25	..	0.9	..	9.1	0	1	27	5	5	1	1	0	1	8	7	2	0
Ujjain	0830	489	1006.7	953.0	..	28.4	19.0	12.6	15.1	40	..	2.0	..	11.0	0	6	21	2	1	2	2	2	1	7	10	3	0
	1730	"	1001.2	949.4	..	37.8	22.0	12.1	14.8	23	..	1.4	..	15.9	0	9	19	6	0	0	0	0	1	11	10	2	0
Narsighpur	0830	356	1006.1	966.9	..	29.8	18.8	10.6	12.8	31	..	1.5	..	6.1	0	1	28	3	4	5	0	1	4	8	3	1	1
	1730	"	1000.7	962.8	..	39.8	23.3	13.2	15.1	21	.	2.0	..	3.9	0	0	30	3	3	1	1	1	2	16	3	0	0
Honangabad	0830	302	1007.0	973.6	—1.5	29.8	21.4	16.3	18.6	45	+17	0.9	—0.4	5.1	0	0	29	1	1	4	3	2	11	4	3	1	0
	1730	"	1000.7	968.7	..	39.9	26.3	18.8	22.9	32	..	2.0	..	5.5	0	2	26	5	1	0	0	1	8	6	7	2	0
Indore	0530	567	1006.0	943.4	..	23.8	13.2	2.7	7.5	26	..	0.8	..	9.9	0	2	21	2	0	0	0	0	8	8	5	7	0
	0830	"	1006.9	945.2	—1.4	29.3	16.9	6.5	10.2	26	—11	0.9	—0.5	14.4	0	10	16	3	2	0	0	1	6	10	4	4	0
	1130	"	1005.6	945.2	..	35.8	18.7	4.9	9.0	16	.	0.9	..	15.7	0	12	17	3	5	3	0	0	5	8	5	1	0
	1730	"	1001.0	941.3	..	37.8	18.8	3.1	7.8	12		1.2	..	17.9	0	13	17	5	1	0	0	1	4	11	8	0	0
	2330	"	1005.6	943.9	..	28.5	15.4	3.3	8.0	20		(b) 0.7	..	(b) 15.3	0	8	18	1	1	0	0	0	3	15	6	3	0
Rajpur (Jhabua)	0830	293	1008.3	975.7	..	27.4	21.0	16.8	19.6	54	.	1.4	..	10.7	0	3	24	0	0	0	0	0	2	25	0	3	0
	1730	"	1003.1	971.7	..	38.5	22.6	10.8	14.4	22	..	1.1	..	16.0	0	10	20	0	0	0	0	0	0	28	2	0	0
Chhindwara	0830	685	1005.9	932.1	—1.9	29.6	18.9	11.7	13.1	35	+2	0.9	—1.0	4.6	0	1	21	3	3	2	1	2	3	4	4	8	0
	1730	"	999.7	927.8	..	37.0	21.4	11.1	14.1	22	.	1.8	..	10.0	0	1	29	6	1	0	0	1	3	6	13	0	0
Seoni	0830	619	1006.2	939.4	—1.1	30.4	18.5	10.0	12.5	29	—1	0.9	—0.6	6.1	0	0	29	5	2	5	3	3	4	2	5	1	0
	1730	"	1000.7	935.6	.	36.9	20.3	9.1	11.6	19	..	3.3	..	7.3	0	0	27	4	4	1	1	1	2	1	13	3	0
Betul	0830	653	1006.9	936.1	—1.3	28.7	16.4	6.2	9.7	25	—6	1.3	—0.5	3.6	0	0	27	1	1	3	7	1	1	5	8	3	0
	1730	"	1000.4	932.0	..	37.3	18.3	1.7	7.2	11	.	1.7	..	6.5	0	0	30	8	3	0	0	0	1	8	10	0	0
Khandwa	0830	318	1007.2	972.2	—1.1	30.8	18.6	8.8	11.5	27	—1	1.2	0	3.6	0	0	28	0	0	0	0	0	6	11	11	2	0
	1730	"	1001.2	967.4	..	40.3	21.5	6.8	9.7	13	..	2.3	..	4.1	0	0	30	0	1	0	3	0	4	2	20	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1004.9	969.2	.	24.0	15.6	8.1	10.7	37	..	(c) 0.5	..	(c) 1.1	0	0	10	1	1	3	0	0	0	4	1	18	0
	0830	"	1005.5	970.9	—1.4	30.4	18.3	8.0	11.2	26	—3	1.2	—0.3	2.3	0	0	23	2	0	6	0	2	3	8	2	7	0
	1130	"	1004.8	970.6	..	36.6	19.9	5.5	9.1	16	..	(b) 0.7	..	(b) 3.2	0	0	24	4	0	3	1	2	5	7	2	5	0
	1730	"	1000.7	966.8	..	38.2	19.8	4.2	8.1	13	..	(b) 0.2	..	(b) 5.7	0	0	29	3	4	2	0	0	4	6	10	0	0
	2330	"	1003.5	968.6	.	29.8	18.1	8.2	10.8	26	..	(c) 0.0	..	(c) 2.7	0	0	23	2	3	3	0	0	5	8	2	5	0
Sidhi	0830	272	..	..	.	29.6	20.0	13.4	15.6	38	..	0.5	..	1.7	0	0	25	0	2	6	0	0	9	7	1	5	0
	1730	"	..	..	..	37.9	22.1	11.3	13.7	21	..	0.5	..	2.5	0	0	29	6	7	1	0	0	1	6	8	1	0
Umaria	0830	459	1006.0	956.0	..	30.5	20.1	13.5	15.8	37	+9	0.6	—1.3	2.3	0	0	15	2	0	0	6	0	6	0	1	15	0
	1730	"	1000.5	951.8	..	37.9	22.6	12.5	16.0	26	..	1.0	..	7.1	0	0	28	6	5	0	0	0	1	4	12	2	0
Jabalpur	0530	393	1005.4	961.4	..	23.3	15.8	9.3	11.9	42	..	1.2	..	1.1	0	0	8	1	0	0	1	3	2	1	0	22	0
	0830	"	1006.4	963.5	—1.0	31.0	18.5	8.2	11.2	25	—6	1.5	+0.2	3.0	0	0	24	3	0	0	5	6	4	6	0	6	0
	1130	"	1004.7	962.8	..	38.1	20.5	6.5	9.8	15	..	1.2	..	4.8	0	0	28	4	4	0	2	6	5	5	2	2	0
	1430	"	1001.4	959.9	..	40.1	20.7	4.3	8.6	11	..	2.0	..	7.0	0	0	29	7	1	1	0	0	2	12	6	1	0
	1730	"	1000.5	958.8	..	38.4	20.2	5.1	8.8	14	..	2.1	..	6.5	0	0	29	11	1	0	0	1	3	7	6	1	0
	2330	"	1004.7	961.4	..	27.7	17.8	9.8	12.3	34	..	0.7	..	1.7	0	0	11	2	4	1	0	0	1	3	0	19	0
Ambikapur	0830	611	1006.4	940.2	—1.5	29.1	19.1	12.2	14.8	37	+3	1.3	+0.1	4.3	0	0	21	1	3	1	1	3	9	3	0	9	0
	1730	"	1000.4	935.8	..	35.1	19.4	7.8	11.0	20	..	2.5	..	10.3	0	3	25	11	5	0	0	0	4	2	6	2	0
Pendra	0530	625	1005.2	936.7	..	24.7	15.5	7.6	10.9	36	..	1.5	..	6.6	0	2	22	6	1	0	1	5	3	3	5	6	0
	0830	"	1006.2	938.8	—1.2	30.2	17.9	8.3	10.7	28	—3	1.4	—0.6	8.7	0	2	24	7	1	0	0	9	3	2	3	4	1
	1130	"	1004.3	938.3	..	35.1	18.8	7.4	9.8	19	..	1.4	..	9.8	0	2	27	8	3	0	0	8	3	3	3	1	1
	1430	"	1001.1	935.4	..	37.1	19.2	5.6	9.1	14	..	2.6	..	15.4	0	7	23	13	1	1	1	2	4	3	5	0	0
	1730	"	1000.5	934.6	..	35.3	18.3	4.0	8.7	16	..	1.8	..	11.4	0	2	28	15	3	0	2	0	2	4	4	0	0
	2330	"	1005.0	937.1	..	27.5	16.5	7.7	10.8	30	..	0.5	..	4.5	0	0	26	6	0	0	0	2	4	7	7	4	0
Mandla	0830	443	1006.6	958.0	—1.9	28.4	17.8	9.2	11.8	30	—13	0.9	—1.2	0.9	0	0	6	1	0	0	0	5	0	0	0	24	0
	1730	"	1000.1	953.2	..	37.4	19.6	3.2	8.3	13	..	2.4	..	5.3	0	1	20	11	0	0	0	2	1	1	6	9	0

(b) Mean of 29 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapure pressure in mts.	Relative humidity %	Departure from normal	Clount amount (Oktas): Mean amount	Clount amount (Oktas): Departure from normal.	Mean wind speed in Km. per hour.	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Champa	0830	245	1006·7	979·6	—1·7	30·6	20·3	12·9	15·5	36	—2	1·5	—0·4	5·0	0	2	22	4	4	4	3	0	1	3	5	6	0
	1730	,,	1000·7	974·5	..	38·7	21·5	8·7		17	..	2·2	..	7·5	0	2	27	8	1	1	0	1	3	6	9	1	0
Raigarh	0830	220	1006·7	982·3	—1·6	31·3	20·8	13·3	16·0	36	—2	1·7	—0.6	2·9	0	0	28	1	11	3	6	2	3	1	1	2	0
	1730	,,	1000·2	976·7	..	38·9	21·0	7·1	11·8	16	..	3·7	..	2·7	0	0	21	6	6	0	1	1	1	4	1	9	1
Raipur	0530	298	1004·8	971·7	..	27·2	18·5	11·9	14·2	40	..	1·6	..	6·0	0	1	22	0	3	0	2	4	4	7	3	7	0
	0830	,,	1006·6	973·9	—1.3	32·1	20·6	12·3	14·9	32	—2	0·7	—1·0	8·2	0	0	27	0	1	0	4	1	10	8	3	3	0
	1130	,,	1005·3	973·3	..	37·6	21·8	10·4	13·2	21	..	0·9	..	9·6	0	1	27	2	2	0	0	2	6	8	6	2	2
	1430	,,	1001·6	969·9	..	40·2	21·6	7·2	10·7	14	..	2.5	..	10·0	0	2	28	5	2	1	1	1	5	10	5	0	0
	1730	,,	1000·6	968·8	..	38·9	21·4	7·8	11·2	16	..	2·9	..	9·1	0	1	25	3	2	0	3	1	2	9	6	4	0
	2330	,,	1004·0	971·3	..	31·4	19·3	9·8	12·5	28	..	1·5	..	8·7	0	2	26	2	0	3	4	10	7	2	0	2	0
Kanker	0830	402	1006·7	963·1	—1·1	31·8	22·9	17·7	19·4	45	+1	0·7	—1·7	2·1	0	0	15	0	0	0	0	0	11	4	0	15	0
	1730	,,	1001.1	958·4	..	37·2	24·6	17·6	20·6	33	..	2·0	..	2·0	0	0	24	1	3	0	0	0	6	6	8	6	0
Jagdalpur	0530	553	1006·2	945·2	..	24.1	20·2	18·1	20·8	70	..	1·6	..	2.1	0	1	12	0	1	1	4	4	2	0	1	17	0
	0830	,,	1007·6	947·4	—1·2	28·4	21·3	17·5	20·1	53	—3	1·3	—0·5	7.6	0	1	27	0	1	0	0	9	15	2	1	2	0
	1130	,,	1005.5	946·7	..	34·5	22·1	15·3	17·5	34	..	1·0	..	9·8	0	1	27	0	1	0	0	3	22	1	1	2	0
	1730	,,	1001·6	942·8	..	33·9	21·7	14·6	16·9	35	..	4.5	..	7·5	0	1	24	1	1	1	1	6	13	2	0	5	[illegible]
	2330	,,	1005·6	945·3	..	27·4	21·1	17·7	20·4	57	.	1·1	..	5·4	0	0	18	0	0	0	2	8	8	0	0	12	[illegible]
Gujarat Region																											
Deesa	0830	136	1008·1	992·8	1·1	27·6	19·1	13·0	15·3	41	..	0	..	3·2	0	0	30	0	3	1	6	3	2	4	11	0	[illegible]
	1730	,,	1003·7	988·9	..	38·9	20·3	5·1	8·7	13	.	0	..	4·1	0	0	30	0	0	0	0	0	6	18	6	0	0
Radhanpur	0830	30	1008·4	1005·0	..	27·2	23·1	20·8	25.0	69	.	0	..	6·9	0	0	29	1	1	0	2	1	11	2	11	1	0
	1730	,,	1003·9	1000·7	..	39·4	28·0	22·6	28·4	40	.	0	..	7·7	0	1	29	2	0	0	0	0	10	11	7	0	0
Idar	0830	219	1007·7	983·3	..	29·1	19·3	11·8	14·4	38	..	1·2	..	2·7	0	0	20	5	2	0	1	0	1	9	2	10	0
	1730	,,	1003·0	979·4	..	38·7	20·8	6·5	9·9	14	..	0·8	..	6·3	0	0	30	0	0	0	0	0	6	24	0	0	0
Ahmadabad	0230	55	1005·8	999·6	..	27·7	19·4	13·0	15·8	43	..	0.3	..	10·0	0	0	26	1	0	0	0	0	3	13	9	4	0
	0530	,,	1006·1	999·8	..	25·1	19·2	15·0	17·4	55	..	0·6	..	10·0	0	1	24	2	0	0	0	1	1	4	17	5	0
	0830	,,	1008·1	1001·9	—1.6	27·7	20·8	16·2	19·0	52	+4	1·5	+0·4	13·9	0	8	18	3	0	0	0	1	3	4	15	4	0
	1130	,,	1008·2	1002·1	..	35·4	21·8	12·4	15·0	27	.	1·3	..	15·5	0	11	19	6	0	1	0	2	3	4	14	0	0
	1430	,,	1005·3	999·3	..	39·7	21·9	8·5	11·7	17	.	1·0	..	16·5	0	10	20	3	1	1	1	0	5	11	7	0	1
	1730	,,	1003·5	997·5	..	40·0	21·7	7·5	11·0	16	.	1·1	..	17·0	0	13	17	5	0	0	0	0	7	6	12	0	0
	2030	,,	1005·1	999·0	..	33·5	20·8	11·5	14·2	29	..	0·6	..	9·6	0	4	21	2	0	0	0	1	6	11	5	5	0
	2330	,,	1006·4	1000.2	..	30·0	19·9	12·1	15.1	37	.	0·1	..	11·8	0	4	24	1	0	0	0	1	8	12	6	2	0
Dohad	0830	333	1007·2	970·5	—1·9	29·4	19·1	10·8	13·7	35	.5	1·1	—0·2	14·3	0	10	17	2	0	1	0	0	5	13	6	3	0
	1730	,,	1002·6	967·1	..	38·7	19·7	1·7	7·5	11	.	0·5	..	11·7	0	11	19	1	0	0	0	0	16	9	4	0	0
Vallabh-Vidyanagar	0830	44	1008·3	1003·3	..	26·6	21·2	17·7	20·8	60	..	1·7	..	8·0	0	0	28	3	1	0	0	5	7	5	7	2	0
	1730	,,	1003·7	999·0	..	39·1	23·0	12·3	14·9	23	..	1·3	..	8·2	0	1	29	3	1	0	0	2	9	8	7	0	0
Baroda Aerodrome	0830	38	1008·6	1004·3	..	27·9	21·3	17·3	20·0	54	..	1·2	..	9·5	0	3	26	2	0	0	0	5	9	4	8	1	1
	1130	,,	1008·3	1004·2	..	34·8	22·1	14·5	16·3	31	..	1·2	..	10·6	0	1	28	5	0	0	0	3	5	3	11	1	2
	1730	,,	1003·9	999·7	..	38·8	21·9	9·3	12·5	19	..	0·9	..	12·7	0	2	28	1	0	0	0	0	5	11	13	0	0
Baroda	0530	34	1006·6	1002·6	..	24·7	19·9	16·7	19·4	64	..	0·3	..	0.3	0	0	5	0	0	0	0	0	3	1	1	25	0
	0830	,,	1008·7	1004·8	—1·1	27·4	21·5	18·0	20·8	58	+4	1·1	+0·1	0·8	0	0	10	0	0	0	0	1	5	4	0	20	0
	1130	,,	1008·5	1004·6	..	35·8	22·9	14·9	17·4	30	..	0·9	..	1·5	0	0	18	0	0	0	0	0	6	5	7	12	0
	1730	,,	1004·1	1000·3	..	39·8	23·9	14·2	16·7	23	..	0·9	..	3·4	0	0	24	0	0	0	0	0	4	13	7	6	0
	2330	,,	1006·8	1002·9	..	28·7	21·1	16·3	18·8	49	..	0·3	..	1·7	0	0	13	0	0	0	0	0	6	7	0	17	0
Broach	0830	17	1008·1	1006·1	—1·5	26·3	21·6	18·6	22·0	65	+6	1·4	0	5·2	0	0	30	1	2	0	3	2	18	0	4	0	0
	1730	,,	1003.8	1001·9	..	38·7	22.9	11·6	15·1	23	..	0·4	..	7·1	0	0	30	0	2	0	1	0	16	4	7	0	0
Surat	0530	12	1006·9	1005·6	..	25.0	22·4	20·9	25·0	79	..	1·5	..	9·2	0	2	27	4	3	0	14	6	0	1	1	1	0
	0830	,,	1008·9	1007·6	—0·9	27·8	23·3	20·9	25·0	68	+6	2·0	+0·5	8·5	0	0	28	3	5	0	6	7	3	1	3	2	0
	1130	,,	1009.0	1007·7	..	34·3	24·2	18·6	21·8	41	..	1·5	..	9·1	0	2	28	9	2	0	0	2	9	4	4	0	0
	1730	,,	1004·9	1003·6	..	35·2	24·3	18·2	21·4	40	..	1·7	..	3·0	0	2	28	1	0	0	0	1	13	3	12	0	0
	2330		1007·3	1006·0	..	27·5	24·1	22·3	27·3	74	..	0·6	..	9·9	0	3	25	0	0	1	0	7	11	5	4	2	0
Saurashtra and Kutch																											
Bhotakia Bhimasar*	0830	47																									
	1730	,																									
Naliya	0830	21	1008·1	1005·7	..	25·3	23·6	22·8	27·7	86	..	1·6	..	7·6	0	1	26	2	1	0	0	4	10	8	2	3	0
	1730	,,	1005·6	1003·2	..	31·8	24·5	20·8	24·7	53	..	0·8	..	15·6	0	9	21	0	0	0	0	1	15	13	1	0	0
Bhuj (Rudramata)	0230	80	1006·7	997·5	..	25·2	21·4	19·0	22·4	70	..	0·3	..	7·4	0	1	18	0	0	0	0	0	8	10	1	11	[illegible]
	0530	,,	1006·5	997·8	..	23.6	20·9	19·2	22·5	78	..	0·5	..	6·6	0	0	21	1	0	0	0	0	8	10	2	9	0

*Observatory closed from 1-4-1964

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature in °C Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Departure from normal	Mean wind speed in Km. per hour.	Wind speed, (Km. p.h.) 62 or more	20 to 61	1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Bhuj (Rudramata) *Contd.*	0830	80	1008·2	999·1	−1·0	26·3	21·8	19·0	22·4	65	+15	1·1	+0.1	10·0	0	2	19	1	0	0	0	0	4	14	2	9	0
	1130	"	1008·2	999·3	..	35·0	21·9	13·0	15·6	29	..	0·8	..	15·1	0	3	25	3	0	0	0	0	1	9	15	2	0
	1430	"	1005·7	996·9	..	38·8	21·7	8·8	12·0	18	..	0·8	..	15·7	0	9	18	2	2	1	0	0	4	13	5	3	0
	1730	"	1004·3	995·5	..	38·1	22·1	10·8	13·6	21	..	1·1	..	19·7	0	14	14	2	0	0	0	0	4	14	8	2	0
	2030	"	1006·1	997·2	..	31·6	21·9	15·8	18·3	41	..	0·5	..	17·1	0	10	19	1	0	0	0	0	4	21	3	1	0
	2330	"	1007·4	998·3	..	27·4	21·8	18·4	21·6	60	..	0·2	..	12·1	0	4	21	0	0	0	0	0	8	16	1	5	0
Kandla Aerodrome	0830	35	1008·5	1004·6	..	27·4	21·7	18·2	21·3	59	..	0·7	..	18·2	0	15	11	0	0	0	0	1	11	7	7	4	0
	1130	"	1008·5	1004·7	..	35·9	22·3	13·2	15·9	28	..	0.6	..	18·9	0	13	15	1	0	1	1	1	8	11	5	2	0
	1730	"	1004·5	1000·7	..	38·1	23·3	13·6	16·5	26	..	0·7	..	30·7	0	28	2	0	1	0	2	5	11	8	3	0	0
New Kandla	0830	14	1008·7	1007·1	..	26·0	22·1	19·7	23·5	70	..	2·0	..	12·8	0	4	25	1	0	0	0	1	10	13	4	1	0
	1730	"	1005·3	1003·7	..	33·5	24·0	18·6	22·1	44	..	1·2	..	29·4	0	23	7	0	0	0	1	2	18	9	0	0	0
Mandvi	0830	9	1008·8	1007·7	−1·6	25·4	24·0	23·3	28·6	88	+9	2·7	+1·1	15·4	0	7	23	0	1	0	0	0	4	8	17	0	0
	1730	"	1006·2	1005·1	..	29·4	26·0	24·6	30·7	76	..	1·2	..	36·1	0	0	30	0	0	0	0	0	10	18	0	0	2
Surendranagar	0830	74	1008·4	1000·0	−1·4	28·5	22·0	18·1	21·0	55	−3	1·2	−0·1	17.5	0	10	19	1	0	0	0	2	2	14	10	1	0
	1730	"	1003·9	995·8	..	39·8	22·7	11·1	13·6	19	..	1·1	..	14·0	0	3	27	1	0	0	0	0	2	21	6	0	0
Okha	0530	7	1007·3	1006·5	..	25·1	24·6	24·3	30·4	97	..	2·3	..	21·5	0	19	11	0	0	0	0	0	5	12	13	0	0
	0830	"	1009·1	1008·3	..	26·1	25·1	24·5	31·1	91	..	1·7	..	18·7	0	14	16	1	0	0	0	0	4	11	14	0	0
	1130	"	1009·9	1009·1	..	28·1	25·9	24·9	31·7	83	..	1.0	..	21·3	0	19	11	1	0	0	0	0	3	10	16	0	0
	1730	"	1006·9	1006·1	..	28·3	26·2	25·3	32·2	85	..	1.1	..	25·7	0	27	3	0	0	0	0	0	3	17	10	0	0
	2330	"	1008.6	1007·8	..	25·9	25·1	24·8	31·1	94	..	1·0	..	20·4	0	13	17	0	0	0	0	0	5	17	8	0	
Jamnagar(Aerodrome)	0530	23	1007·0	1004·4	.	22·9	21·7	21·0	25·0	90	..	1·8	..	10·8	0	1	26	0	0	0	0	0	15	11	1	3	
	0830	"	1008·6	1006·0	−1·5	26·0	23·5	22·3	26·9	81	+15	1·9	+0·6	13.9	0	6	22	0	0	0	0	0	7	19	2	2	0
	1130	"	1008·9	1006·4	..	32·2	23·8	19·3	22·7	47	..	0·8	..	18·5	0	12	17	0	0	0	0	0	1	21	7	1	0
	1730	"	1005·5	1003·0	..	32·4	22·9	17·3	20·1	43	..	1·0	..	27·7	0	27	3	1	0	0	0	0	0	26	3	0	0
	2330	"	1008·0	1005·4	..	25·9	23·4	22·2	26·6	80	..	0·5	..	18·9	0	16	14	0	0	0	0	0	3	25	2	0	0
Dwarka	0830	11	1008·8	1007·5	−1.4	26·1	24·5	23.8	29·5	87	+4	1·3	−0.6	12·3	0	4	26	3	0	0	0	0	2	18	7	0	0
	1730	"	1006·7	1005·4	..	28·5	25.4	24·0	30·0	77	..	0·5	..	16·9	0	10	20	0	0	0	0	0	4	20	6	0	0
Rajkot	0530	138	1007·0	991·3	..	22·2	20·4	19·4	22·5	85	..	1·1	..	11·1	0	6	23	0	0	0	0	1	15	12	1	1	0
	0830	"	1008·6	993·0	−1·7	26·1	22·7	20·9	24·7	74	+8	1·1	0	16·1	0	10	20	0	0	0	0	0	9	11	10	0	0
	1130	"	1008·3	993·1	..	34·6	23·8	17·9	20·6	38	..	0·6	..	20·5	0	16	13	1	0	0	0	1	4	3	20	1	0
	1730	"	1004.1	989·2	..	38·4	24·8	17·4	20·1	30	..	0·5	..	29·7	0	23	7	0	0	0	0	0	3	8	19	0	0
Bhavnagar (Aerodrome)	0830	11	1008·7	1007·5	−1.1	29·1	21·0	15·6	18·3	47	+2	0·7	−0.6	15·1	0	9	20	4	1	0	0	2	6	5	11	1	0
	1130	"	1008·9	1007·7	..	34·2	23·0	16·4	18·9	36	..	1·0	..	17.5	0	13	17	1	7	11	4	0	2	2	2	0	1
	1730	"	1004·3	1003·1	..	37·1	23·4	14·9	17·6	29	..	1·0	..	28.1	1	23	6	0	2	7	7	11	2	0	1	0	0
Porbander (Aerodrome)	0830	7	1009·0	1008.2	−1·3	26·2	23·5	22·1	26·6	79	0	1·8	+0·7	15·8	0	13	17	6	2	0	0	0	2	5	15	0	0
	1130	"	1009·3	1008·5	..	32·2	24·2	19.7	23·7	51	..	0·9	..	19·5	0	15	15	3	0	0	0	0	7	12	8	0	0
	1730	"	1006·3	1005·5	.	30·8	24·0	20·2	24·3	57	..	1·2	..	26·7	0	30	0	0	0	0	0	0	6	23	1	0	0
Keshod	0830	51	1009·1	1003·3	..	24·4	21·3	19·4	22·8	75	..	1·4	..	8.9	0	0	28	9	7	0	0	1	5	3	3	2	0
	1130	"	1009·3	1003·6	..	33·7	21·6	14·0	15·9	31	..	0·7	..	16.5	0	10	20	12	0	0	0	0	4	4	10	0	0
	1730	"	1005·6	999·9	..	35·8	22·3	12·8	15·9	29	..	0·6	..	39·6	0	29	1	0	0	0	0	0	4	25	1	0	0
Mahuva	0830	9	1008·6	1007·6	..	26·9	22·6	20·2	23·8	68	..	2·9	.	3·5	0	0	27	5	0	0	0	0	4	1	17	3	0
	1730	"	1005·9	1004·8	..	30·7	26·1	24·0	30·0	69	.	3·2	..	7·1	0	0	30	0	0	0	0	6	24	0	0	0	0
Veraval	0230	8	1007.1	1006·2	..	24·3	22·8	22·1	26·6	88	..	2·3	..	16·1	0	11	19	8	0	0	0	0	0	4	18	0	0
	0530	"	1007·0	1006·1	..	23·0	21·7	20.9	25·0	89	..	1·8	..	14·5	0	9	20	13	0	0	0	0	1	3	12	1	0
	0830	"	1008·9	1008·0	−1·2	25·4	22·5	20·6	24·9	75	+1	1·7	0	13·3	0	9	20	13	1	0	0	1	3	0	11	1	0
	1130	"	1009·4	1008·5	..	29·7	24·9	22.3	27·6	69	..	1·7	..	21·1	0	15	15	3	0	0	0	2	4	12	9	0	0
	1430	"	1007·3	1006·4	..	29·2	25·8	24·0	30·4	75	..	1·4	..	25·7	0	27	3	0	0	0	0	2	5	16	7	0	0
	1730	"	1006·1	1005·2	..	28·3	25·5	24·2	30·4	79	..	2·3	..	25·9	0	26	4	0	0	0	0	0	5	14	11	0	0
	2030	"	1007·4	1006·5	..	26·5	24·5	23·5	29·1	84	..	0·9	..	22.3	0	24	6	0	0	0	0	0	3	7	20	0	0
	2330	"	1008·3	1007·4	..	25·4	23·6	22·8	27·6	86	..	1·2	..	16·3	0	8	22	5	1	0	0	0	2	5	17	0	0
Konkan Dahanu	0830	5	1008·5	1008·0	−1·3	26·9	23·5	21·8	26·3	74	−1	2·5	+0·1	5·6	0	0	29	2	4	13	6	3	0	0	1	1	0
	1730	"	1005·1	1004·6	..	30·8	25·3	22·8	27.6	62	..	1·6	..	14·6	0	7	23	3	0	0	1	0	4	14	8	0	0
Bombay (Santa Cruz)	0230	14	1007·1	1005·4	..	25·7	23·6	22·5	27·3	83	..	1·2	..	3·3	0	0	16	5	1	1	1	0	4	2	2	14	0
	0530	"	1007·1	1005·4	..	24·7	23·0	22·1	26.6	86	..	1·5	..	2·9	0	0	15	3	6	2	2	1	1	0	0	15	0
	0830	"	1008·9	1007·3	−1·5	28·6	24·4	22·5	27·1	70	0	2·9	+0·6	6·4	0	0	26	4	3	3	4	4	2	1	5	4	0
	1130	"	1009·0	1007·4	..	32·1	25·5	22·3	27·3	57	..	1·5	..	16·5	0	6	24	0	0	0	0	1	5	15	9	0	0
	1430	"	1006·6	1005·0	..	32·2	25·5	22·3	27·3	57	..	1·1	..	19·5	0	18	12	1	0	0	0	0	1	16	12	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(*Contd.*)																											
Bombay (Santa Cruz) —contd	1730	15	1005·4	1003·8	..	31·0	24·8	21·7	26·3	60	..	1·5	..	18·7	0	14	16	5	0	0	0	0	0	13	12	0	0
	2030	,,	1007·1	1005·4	..	28·3	24·3	22·5	27·3	72	..	1·0	..	9·3	0	1	26	1	0	0	0	0	3	8	15	3	0
	2330	,,	1008·1	1006·4	..	26·9	24·3	23·0	28·3	79	..	0·9	..	6·6	0	1	21	4	0	0	0	1	4	6	7	8	0
Bombay	0830	11	1009·1	1007·9	−1·3	28·5	25·2	23·6	29·3	75	0	2·6	+0·3	3·1	0	0	21	3	3	1	6	1	3	1	2	9	1
	1130	,,	1009·3	1008·1	..	31·0	26·1	23·9	29·7	66	..	1·4	..	5·4	0	0	30	1	0	0	0	5	6	7	10	0	1
	1730	,,	1005·7	1004·5	..	30·4	25·7	23·7	29·3	68	..	1·4	..	10·3	0	4	26	2	0	0	0	0	3	10	15	0	0
Alibag	0830	7	1009·1	1008·3	−1·5	27·8	24·7	23·2	28·6	76	+7	1·4	−0·9	7·8	0	1	29	8	3	3	4	4	3	1	4	0	0
Bhira	0830	96	1003·6	997·8	..	27·5	23·6	21·6	25·9	71	..	1·5	..	1·9	0	0	20	0	1	0	1	0	5	3	10	10	0
	1730	,,	1003·9	993·4	..	36·5	25·3	19·5	22·9	38	..	0·7	..	6·9	0	0	30	0	0	0	1	1	20	3	5	0	0
Harnai	0830	20	1009·0	1006·7	−0·8	28·2	24·8	23·3	28·4	75	0	3·3	+0·9	8·8	0	3	22	9	1	6	2	6	0	0	1	5	0
	1730	,,	1005·9	1003·6	..	29·1	26·0	24·7	31·1	77	..	3·2	..	23.4	0	17	13	1	0	0	0	0	6	11	12	0	0
Ratnagiri	0830	35	1008·9	1005·0	−1·2	28·2	24·7	22·9	28·3	74	..	2·5	..	5·1	0	0	30	0	3	4	12	2	1	5	3	0	0
	1730	,,	1005·9	1002·0	..	30·7	25·9	23·8	29·5	67	..	2·9	..	15·9	0	5	25	2	0	0	0	0	7	10	11	0	0
Devgarh	0830	35	1008.8	1004·8	−1·3	27·5	25·3	24·1	30·4	80	+4	3·0	−0·6	7·5	0	1	29	1	6	7	4	2	2	5	3	0	0
	1730	,,	1006·0	1002·0	..	30.7	27·1	25·6	32·8	75	..	2·5	..	26·5	0	23	7	1	0	0	0	0	3	5	21	0	0
Vengurla	0230	9	1007·1	1006·1	..	26·9	24·6	23·5	28·9	82	..	2·2	..	0·5	0	0	3	0	0	0	0	0	0	1	2	27	0
	0530	,,	1007·4	1006·4	..	25·9	24·1	23·3	28·6	86	..	2·9	..	1·8	0	0	8	4	0	2	1	0	0	0	1	22	0
	0830	,,	1009·5	1008·5	−0·9	28·6	25·0	23·4	28·8	73	+2	2·7	−0·2	2·5	0	0	16	4	1	0	6	2	2	1	0	14	0
	1130	,,	1009·5	1008·5	..	31·8	26·0	23·4	28·8	61	..	1·5	..	7·8	0	0	30	0	0	0	0	0	20	10	0	0	0
	1730	,,	1006·0	1005·0	..	30·9	26·1	23·9	29·8	67	..	2·6	..	8·4	0	1	29	1	0	0	0	0	10	12	7	0	0
	2330	,,	1008·6	1007·6	..	27·9	25·1	23·9	29·5	79	..	2·5	..	2·1	0	0	8	2	0	0	0	0	0	2	4	22	0
Panjim	0830	57	1009·2	1002·9	..	28·9	24·9	23·1	28·3	71	..	3·3	..	5·4	0	0	22	7	3	2	0	6	2	1	1	8	0
	1130	,,	1009·0	1002·8	..	32·3	25·7	22·6	27·6	57	..	2·4	.	15·1	0	2	28	1	0	0	0	2	6	12	9	0	0
	1430	,,	1006·3	1000·1	..	32·7	26·0	23·0	28·3	57	..	1·9	..	19·1	0	16	14	8	0	0	0	2	1	15	4	0	0
	1730	,,	1005·7	999·3	..	30·8	25·6	23·3	28·6	65	..	2·9	..	17·4	0	8	22	8	0	0	0	2	2	12	6	0	0
	2030	,,	1007·6	1001·3	..	28·8	25·0	23·4	28·6	73	..	3·0	..	12.1	0	2	28	9	1	0	0	2	3	6	9	0	0
Mormugao	0530	62	1006·8	999·9	..	27.5	24·8	23·5	28·9	79	..	3·2	..	9·3	0	0	27	6	5	2	1	2	5	4	2	3	0
	0830	,,	1009·0	1002·1	..	28·7	25·2	23·5	29·3	74	..	3·7	..	9·2	0	0	28	4	3	3	0	5	7	4	2	2	0
	1130	,,	1009·1	1002·2	..	30·7	25·7	23·5	28·9	66	..	2·2	..	14·7	0	3	27	1	0	0	0	2	10	11	6	0	0
	1730	,,	1005·6	998·7	..	30·2	26·0	24·1	30·2	70	..	2·8	..	21·3	0	18	12	2	0	0	0	0	8	11	9	0	0
Madhya Maharastra																											
Nandurbar	0830	206	1008·1	985·1	..	29·6	22·5	18·4	21·4	52	..	0·5	..	9·4	0	1	29	1	0	0	0	4	6	19	0	0	0
	1730	,,	1002·8	980·8	..	39·6	24·9	16·0	19·5	27	..	0·5	..	4.7	0	0	28	3	0	0	0	3	2	19	1	2	0
Jalgaon	0830	201	1007·5	985·1	−1·3	28·9	18·2	9·0	12·2	31	−8	1·5	+0·1	18·1	0	13	14	1	0	0	0	0	6	15	5	3	0
	1730	,,	1001·7	980·2	..	41·6	20·4	0·1	6·7	8	..	2·2	..	17·5	0	13	16	9	0	1	0	0	0	8	11	1	0
Malegaon	0830	437	1007·8	959·8	1·2	29·3	18·7	10.4	12.8	33	−5	1·7	+0·6	9·0	0	2	27	1	0	1	0	0	3	11	13	1	0
	1730	,,	1001·6	955·1	..	39·0	20.3	4.4	8·6	13	..	2·3	..	15·2	0	8	22	8	4	1	1	0	0	6	10	0	1
Deolali (Aerodrome)	0830	571	1009·2	946·4	..	26·7	19·4	12·7	15·1	44	..	1·6	..	9·9	0	3	26	0	1	1	1	3	17	6	0	1	0
	1730	,,	1003·2	942·7	..	36·5	20·2	9·1	11·7	20	..	2·1	..	22·0	0	15	15	1	0	0	0	2	5	12	10	0	0
Ahmadnagar	0830	657	1007·3	936·4	1·2	29·5	17·6	8·7	11·4	28	−3	2·0	+0·8	7·3	0	1	27	2	0	0	0	1	5	0	20	2	0
	1730	,,	1000·4	931·9	..	38·7	19·9	6·5	9·5	15	..	2·9	..	10·7	0	4	26	2	10	1	2	0	3	0	12	0	0
Poona (Aerodrome)	0230	593	1006·8	941·4	..	24·4	18·7	14·9	17·4	57	..	0·8	..	13·2	0	5	20	0	1	0	0	0	6	16	2	5	0
	0530	,,	1007·2	941·4	..	22·8	17·9	14·7	16·9	62	..	1·3	..	11·4	0	3	26	1	0	0	0	1	5	18	4	1	0
	0830	,,	1008·3	943·2	..	26·7	18·9	13·9	16·1	47	..	1·8	..	14·3	0	7	22	1	1	0	0	0	11	14	2	1	0
	1130	,,	1006·3	943·1	..	35·0	18·9	6·8	10·1	18	..	1·4	..	17.2	0	11	19	2	7	3	1	2	4	7	4	0	0
	1730	,,	1001·8	939·1	..	36·7	20·7	9·9	12·7	21	..	2·5	..	29·3	0	23	6	1	2	2	0	0	3	16	5	1	0
	2330	,,	1007·3	942·3	..	26·7	19·8	15·7	18·1	52	..	0·7	..	17·0	0	9	21	0	0	0	0	0	7	21	2	0	0
Poona	0530	559	1007·4	945·2	..	22·5	17·8	14·6	16·9	63	..	1.6	..	1·0	0	0	4	0	0	0	0	0	1	2	1	26	0
	0830	,,	1008·5	947·1	−1·1	26·9	19·6	15·1	17·4	50	+7	1·4	0	1·3	0	0	8	1	0	1	0	0	0	5	1	22	0
	1130	,,	1006·2	946·6	..	35·5	20·1	9·7	12.2	22	..	1.4	..	5·0	0	0	21	4	4	4	2	0	1	3	3	9	0
	1430	,,	1002·5	943·7	..	38·5	21·0	9·4	12·0	19	..	2·2	..	8·3	0	1	25	1	4	3	0	0	0	8	10	4	0
	1730	,,	1002·0	942·8	..	36·6	21·7	12·5	15·1	25	..	2·3	..	12·8	0	4	25	3	1	0	1	0	1	16	7	1	0
	2030	,,	1005·6	945·1	..	30·4	21·5	16·2	19·1	45	..	0·1	..	8·3	0	1	28	0	0	0	0	0	2	23	4	1	0
	2330	,,	1007·3	946·0	..	27·3	20.1	15·8	18·3	52	..	0·6	..	4·3	0	0	18	0	0	0	0	0	2	15	1	12	0
Jeur	0830	521	1007·5	950·5	−1·3	28·8	19·0	12·1	14·8	38	−7	1·6	−0·7	9·7	0	3	25	5	3	1	2	1	0	6	10	2	0
	1730	,,	1000·1	945·5	..	39·7	20·4	6·2	9·8	14	..	3·3	..	11·4	0	2	27	6	6	5	2	1	1	9	6	1	0
Baramati	0830	551	1007·6	947·7	−1·0	29·2	21·0	16·3	18·9	47	+2	0·4	−1·5	9·5	0	4	24	2	1	0	3	11	6	8	7	2	0
	1730	,,	1000·6	942·8	..	38.4	23·1	14·4	16·9	25	..	2·0	..	18·1	0	13	16	6	3	3	3	1	1	6	6	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—(*Contd.*)																											
Sholapur—	0530	479	1006.1	953·3	..	26·3	19·4	15·0	17.4	51	..	1·4	..	6·7	0	0	25	3	3	2	3	1	6	5	2	5	0
	0830	,,	1007·7	955·5	−0.9	30·1	21·8	17·2	20·0	47	+9	0·6	−1.0	7·7	0	0	30	2	8	0	5	1	6	3	5	0	0
	1130	,,	1005·8	954·8	..	37·2	22·9	14·8	17·4	28	..	1·2	..	9·9	0	0	30	5	2	2	5	2	4	3	7	0	0
	1730	,,	1000·6	950·2	..	38·9	23.5	14·8	17·6	27	..	2·8	..	9·8	0	1	28	5	3	2	9	2	2	1	5	1	0
	2330	,,	1005·4	953·4	..	31·4	20·7	14·1	16.5	37	..	2.4	..	10·7	0	2	27	4	4	1	6	2	5	3	4	1	0
Miraj	0830	554	1009·0	948·0	−0.8	25·4	22·3	20·8	24·7	76	+14	2·3	+0.5	..	0	0	7	0	0	0	0	0	3	4	0	23	0
	1730	,,	1001·5	943·2	..	37·7	25·5	19·9	23·7	37	..	4·4	..	..	0	0	24	0	2	3	0	0	3	15	1	6	0
Kolhapur	0530	570	1007.1	943.9	..	22.7	20·1	18.6	21·8	79	..	1·4	..	9·0	0	3	20	0	0	3	0	0	2	18	0	7	0
	0830	,,	1008·6	945·9	−1.1	25·4	21·3	19·0	22·4	69	−3	1·6	−0·2	7·6	0	1	22	0	0	1	1	0	3	16	2	7	0
	1130	,,	1006.6	945·7	..	33·9	21·7	14·7	16·9	33	..	1·1	..	9·9	0	3	25	2	3	6	1	0	2	10	4	2	0
	1730	,,	1002·3	941·6	..	34·1	23·3	17.5	20·6	40	..	2·5	..	21·6	0	20	9	0	1	2	0	0	0	26	0	1	0
	2330	,,	1007·6	944·9	..	25·1	22.0	20·4	24·1	76	..	1·6	..	16·5	0	13	14	0	0	0	0	0	0	25	2	3	0
Marathwada																											
Aurangabad	0830	581	1007·6	994.7	−1.2	30·2	17·7	8·0	11·1	27	−4	2.2	+0·8	7·4	0	3	20	8	3	0	0	0	1	10	1	7	0
	1730	,,	1001·3	940·3	..	38·5	19·2	3·4	8·1	12	..	2·9	..	12·9	0	8	20	9	1	1	1	0	1	8	7	2	0
Aurangabad (Chikalthan)	0230	579	1005·5	942·0	..	26·3	17·2	10·5	13·0	58	..	0·7	..	13·8	0	5	22	7	1	0	0	0	0	10	9	3	0
	0530	,,	1006.1	942.3	..	24.7	16.8	11.1	13.4	44	..	1.5	..	10.0	0	1	23	4	1	0	0	0	2	6	11	6	0
	0830	,,	1007.0	944.4	..	31·0	19.6	12.1	15.5	33	..	1.7	..	14·5	0	4	25	8	0	1	1	0	0	11	8	1	0
	1130	,,	1005·5	944·1	..	37·0	21.3	11·1	13·7	22	..	1·4	..	18·5	0	11	19	11	8	3	0	0	0	3	5	0	0
	1430	,,	1002.1	941·4	..	39·1	22·1	11·4	14·1	20	..	1·9	..	17·5	0	8	22	10	5	4	1	0	0	4	6	0	0
	1730	,,	1000·9	940·1	..	38·3	21·7	11·0	13·7	21	..	2·5	..	17.5	0	11	16	13	1	0	0	1	2	2	8	3	0
	2030	,,	1004·1	941·8	..	31·8	19.1	10·4	12·9	27	..	0·9	..	13·5	0	4	23	14	0	0	0	0	0	3	10	3	0
	2330	,,	1005·8	942·9	..	28·9	18·3	10·8	13·3	34	..	0·8	..	14.7	0	5	24	11	0	0	0	0	0	6	12	1	0
Parbhani	0830	423	1007.8	961·5	−0·5	30·4	18·1	7·3	10·8	25	−16	1·3	−0.4	8·7	0	1	29	2	0	0	3	1	5	9	10	0	0
	1730	,,	1000·8	956·2	..	40·4	20·0	0·8	6·8	9	..	2·7	..	10·2	0	4	25	3	8	0	3	2	2	8	3	1	0
Nander	0830	358	1007·2	968·0	..	32·0	20·5	12·2	14·7	32	..	1·3	..	4·4	0	0	17	0	1	1	2	0	5	6	2	13	0
	1730	,,	1002.1	964·1	..	40.0	22·9	11·4	13·8	20	..	1·5	..	5.0	0	0	21	0	2	0	7	0	7	2	3	9	0
Bir	0830	519	1007·7	951·3	..	30·7	21·2	15·3	18·3	42	..	0·7	..	5·8	0	0	27	2	0	0	2	0	2	5	16	3	0
	1730	,,	1001·9	947·3	..	39·3	24·5	17·0	19·7	29	..	0	..	7·4	0	0	29	0	10	0	2	0	4	1	12	1	0
Vidarbha																											
Gondia	0830	313	1006·9	972.6	−1.4	31·4	19·9	11·2	13·9	31	−8	1·2	−0.6	4.6	0	0	28	2	3	2	3	7	9	0	2	2	0
	1730	,,	1000·7	967·5	..	39·5	20·5	4·0	8·7	12	..	2·2	..	6·0	0	0	28	11	0	1	0	3	4	6	3	2	0
Nagpur—(Sonegaon)	0230	310	1003·6	969·4	..	28·4	17·0	6·5	10·1	26	..	1·0	..	4·9	0	0	24	3	2	1	1	1	7	4	5	6	0
	0530	,,	1004·8	970·3	..	26.7	16·0	5·4	9·5	28	..	1·5	..	7.1	0	1	25	1	2	1	3	2	4	6	7	4	0
	0830	,,	1006·4	972·5	−1.5	32·5	18·8	7·1	10·6	22	−11	1·6	−0.2	9·5	0	4	25	2	3	3	2	4	6	2	7	1	0
	1130	,,	1004·9	971.7	..	38·5	20·8	6·5	10·1	15	..	1·4	..	8·9	0	5	20	4	2	1	2	6	6	0	4	5	0
	1430	,,	1001·4	968·6	..	41·0	20·1	2·9	6·5	10	..	2·8	..	13·7	0	8	21	2	6	2	0	4	2	7	6	1	0
	1730	,,	1000·1	967·2	..	40·1	20·3	2·5	7·7	10	..	3·0	..	12·3	0	8	22	1	5	1	3	3	5	5	7	0	0
	2030	,,	1002.8	969.3	..	34.1	18·9	5·6	9·3	18	..	1·2	..	6·8	0	0	29	3	2	3	7	2	4	4	4	1	0
	2330	,,	1004.1	970·1	..	30·9	17·5	5·0	8·9	20	..	1·1	..	6.5	0	0	28	3	1	2	2	0	5	5	10	2	0
Amraoti	0830	370	1006·7	966.2	−1·2	31·0	17·3	5·5	8·7	21	−7	1·7	+0.2	3·4	0	0	26	2	1	0	3	5	10	3	2	4	0
	1730	,,	1000·3	961·2	..	40·5	20·1	0·9	6·9	9	..	2·1	..	6·2	0	2	28	6	1	0	0	1	5	7	10	0	0
Akola (Aerodrome)	0530	309	1004·5	970·1	..	26·6	17·6	10·1	12·9	36	..	2·3	..	8·2	0	1	26	0	0	2	0	1	6	12	6	3	0
	0830	,,	1006·2	972·2	..	31·0	20.4	12·7	15·4	35	..	1·9	.	9·7	0	1	29	0	0	0	1	2	2	10	15	0	0
	1130	,,	1005·0	971·8	..	38·1	22·9	12.6	15·6	24	..	1·9	..	10·8	0	3	26	4	2	0	2	1	0	7	13	1	0
	1730	,,	1000·0	967·3	..	40.8	24·8	15·3	18·2	24	..	3·0	..	11·1	0	1	29	3	3	3	0	0	2	6	13	0	0
	2330	,,	1003·7	970·5	..	31·5	19·2	9·6	12·3	27	..	1·0	..	8·6	0	0	30	4	1	1	1	1	2	10	10	0	0
Akola	0830	282	1006·8	975·7	−1·5	31·0	20·5	13·2	15·6	35	+7	1·3	−0.2	1·1	0	0	13	0	0	0	0	0	2	6	5	17	0
	1730	,,	1000·6	970·7	..	41·2	24·4	14·2	16·8	22	..	2·1	..	1·5	0	0	19	1	0	0	0	0	0	6	12	11	0
Bramhapuri	0830	229	1007·4	982·1	..	31·6	21·4	14·5	16·5	37	..	1·3	..	5·1	0	0	23	2	0	0	5	16	2	1	2	2	0
	1730	,,	1001.2	976.9	..	40.1	21.5	7.0	10·5	14	..	2.1	..	3.7	0	0	30	4	1	0	5	7	4	6	3	0	0
Buldana	0830	650	1007.0	936.6	−0.9	29.2	17.6	8.7	11.2	29	−9	1.3	−0.8	9.3	0	1	25	9	0	0	1	0	1	0	15	4	0
	1730	,,	1000.9	932.8	..	37.8	19.3	4.9	8.9	13	..	1.7	..	5.2	0	0	23	7	4	0	0	1	0	1	10	7	0
Yeotmal	0830	451	1006.1	957.2	−1.6	32.4	18.3	6.3	9.5	20	−14	1.6	−1.1	9.1	0	1	29	4	1	4	1	6	2	9	3	0	0
	1730	,,	999·9	952·4	..	40·1	20·3	2·3	7·7	9	..	3·1	..	6.5	0	0	30	6	1	3	1	1	2	10	6	0	0
Chanda	0830	193	1007·0	985·6	−1.5	31·2	22·2	16·4	19·4	42	+5	1·6	−0.1	8·5	0	1	27	1	2	3	7	10	1	2	2	2	0
	1730	,,	1000·8	980·1	..	40·2	23.0	11·0	14·0	19	..	2.8	..	10·5	0	2	26	4	5	4	2	4	3	2	4	2	0
Pusad	0830	334	1007·0	970·9	..	31·8	20·1	11·1	13·9	29	..	1·1	..	9·2	0	3	26	3	2	0	3	1	4	4	12	1	0
	1730	,,	1001·3	965·5	..	41·1	22·5	8·6	12·0	15	..	3·1	..	9.5	0	0	30	5	4	0	6	1	6	2	6	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Sironcha	0830	123	1008·5	994.8	−1·1	30·4	24·1	20·9	24·9	57	+4	1·2	−1·4	5·0	0	0	30	0	0	0	28	2	0	0	0	0	0
	1730	"	1001·9	988·6	..	40·5	24·4	14·9	17·4	23	..	1·1	..	4·3	0	0	30	2	2	1	7	4	6	4	4	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1009·0	1008·3	−0·5	28·5	26·4	25·3	32 6	81	+9	1·6	−1·0	3·2	0	0	30	4	0	1	0	10	10	3	3	0	0
	1730	,,	1004·9	1004·3	..	29·1	26·4	25·2	32·2	79	..	0·9	..	15·7	0	9	21	1	0	0	0	15	14	0	0	0	0
Vishakhapatnam	0230	3	1006·4	1006·0	..	27·3	25·1	24·1	30·0	83	..	2·6	..	6·9	0	0	21	0	0	1	0	0	9	10	1	9	0
	0530	,,	1007·1	1006·7	..	26·8	24·6	23·5	29·1	82	..	3·0	..	4·1	0	0	14	0	0	0	0	0	9	5	0	16	0
	0830	,,	1009.1	1008·7	−0·7	30·3	25·2	22·9	27·9	65	−7	2·4	−1·1	14·7	0	6	22	0	0	0	1	0	15	12	0	2	0
	1130	,,	1008·5	1008·1	..	33·7	25 8	22·1	26·6	51	..	1·7	..	21·0	0	22	7	0	0	0	0	3	22	4	0	1	0
	1430	,,	1005·7	1005·3	..	33·4	26·2	23·0	28·1	55	..	2·0	..	24·1	0	29	1	0	0	0	0	3	26	1	0	0	0
	1730	,,	1005·4	1005 0	..	30·1	25·8	24·0	29·7	70	..	3·7	..	17·4	0	8	22	0	0	0	0	5	23	2	0	0	0
	2030	,,	1007·3	1006·9	..	28·6	25·6	24·2	30·4	78	..	2·6	..	11·6	0	4	24	0	0	0	0	2	20	5	1	2	0
	2330	,,	1007·7	1007·3	..	28·0	25·6	24·6	30·9	32	..	2·4	..	10·7	0	1	25	1	0	0	0	2	15	7	1	4	0
Kakinada	0830	8	1009·6	1008·7	−0·5	28·9	25·9	24·3	30·9	78	+5	4·4	+0·3	11·6	0	0	30	0	0	0	5	0	25	0	0	0	0
	1730	,,	1005·2	1004·3	..	32·6	25·2	22·3	25·9	55	..	1·5	..	17·0	0	0	30	0	0	0	27	0	1	0	2	0	0
Nidadavole	0830	12	1009·4	1008·0	..	28·6	25·6	24·2	30 4	75	..	6·1	..	2·5	0	0	19	2	0	5	3	3	3	2	1	11	0
	1730	,,	1005·1	1003·7	..	32·7	26·3	23·5	28·9	55	..	4·1	..	4·7	0	0	30	0	0	2	3	11	12	2	0	0	0
Rentachintala	0830	106	1008.1	996·3	..	30·8	25·4	22·8	27·9	64	+7	1·9	−2·5	2·5	0	0	28	2	0	1	5	17	1	2	0	2	0
	1730	,,	1002·5	991·4	..	38·7	25·6	18·8	22·1	33	..	2·4	..	2.6	0	0	28	1	0	1	13	8	4	1	0	2	0
Gannavaram	0230	24	1006·3	1003·6	..	27·0	25·4	24·7	31·1	87	..	1·7	..	6·5	0	1	23	1	0	7	4	11	1	0	0	6	0
	0530	,,	1007·0	1004·3	..	26·3	25·2	24·7	31·1	91	..	2·9	..	5.9	0	1	23	1	0	11	8	3	1	0	0	6	0
	0830	,,	1009·1	1006·4	−0·5	29·7	26·3	24·9	31·5	75	+3	4·2	+0·3	13 7	0	6	24	0	0	2	6	21	1	0	0	0	0
	1130	,,	1008·3	1005·7	..	34·7	26·4	22·6	27·6	50	..	2·5	..	16·7	0	9	21	0	0	0	5	21	4	0	0	0	0
	1430	,,	1005.3	1002·7	..	36·5	25·9	20·7	24·7	40	..	1·8	..	18·9	0	13	17	0	0	0	6	22	2	0	0	0	0
	1730	,,	1004·6	1001·9	..	34·2	25.8	21·8	26·3	49	..	1·3	..	19·5	0	14	16	0	0	1	4	25	0	0	0	0	0
	2030	,,	1006·9	1004·2	..	29·1	25·5	23·9	29·7	70	..	1·1	..	12·3	0	2	28	0	0	2	6	22	0	0	0	0	0
	2330	,,	1007·5	1004·8	..	27·7	25·6	24·7	31·1	84	..	1·2	..	8.4	0	2	28	0	0	1	5	22	2	0	0	0	0
Nagarjunakonda (R)	0830	"																									
(R)	1730	,,																									
Masulipatam	0830	3	1009.1	1008·8	−1.1	29·7	26·1	24·6	30·9	75	−1	6·0	+2·6	4·5	0	0	29	0	0	1	0	20	3	0	0	1	5
	1730	,,	1005·2	1004 9	..	30·7	26·2	24·3	30·4	69	..	2·4	..	5·9	0	0	30	0	0	3	7	9	0	0	0	0	11
Ongole	0530	12	1008·5	1007 3	..	29·7	27·4	26·0	34·6	80	..	2·9	..	4·1	0	0	28	1	0	3	22	3	0	0	0	1	0
	1730	,,	1004·4	1003·1	..	32·0	28·3	26·9	35·4	75	..	2·8	..	8·2	0	0	30	0	0	0	28	1	1	0	0	0	0
Nellore	0530	20	1006 6	1004·4	..	26·4	24·7	24·0	29·7	87	..	3·4	..	6·0	0	0	28	0	0	4	23	0	0	0	1	2	0
	0830	,,	1008·4	1006·2	−1·0	30·1	25·7	23·7	29·7	69	−2	3·7	+0·7	6·3	0	1	29	0	0	0	27	3	0	0	0	0	0
	1130	,,	1008·0	1005·8	..	36·2	26·0	21·3	25·2	43	..	7·3	..	8·5	0	1	29	0	0	3	23	2	0	1	1	0	0
	1730	,,	1004·0	1002·3	..	32·4	26·6	24·1	30.0	62	..	2·8	..	8·1	0	1	29	0	0	1	29	0	0	0	0	0	0
	2330	,,	1007·5	1005·3	..	28·2	25·7	24·6	31·1	81	..	1·7	..	6·9	0	0	28	0	0	3	22	3	0	0	0	2	0
Telangana																											
Ramgundam	0830	156	1007 0	989·9	−1·8	29·2	23·4	20·1	24·0	58	+8	0·7	−0·2	6·7	0	2	23	1	0	2	13	9	0	0	0	5	0
	1730	,,	1001·7	985 0	..	40·5	24·0	14·0	16·3	22	..	2·1	..	4·6	0	0	27	3	3	1	13	3	2	0	2	3	0
Nizamabad	0830	381	1007·2	965.4	−1·3	30·9	20·8	14·0	16·3	37	−5	0·9	−1·0	0·9	0	0	11	1	2	0	1	0	4	1	2	19	0
	1730	,,	1001·2	960·8	..	40.2	22·8	11·1	13·6	18	..	1·7	..	1·0	0	0	15	0	7	0	3	0	5	0	0	15	0
Hanamkonda	0830	269	1007·6	978.0	−1·4	28·4	23·9	21·9	25.9	67	+9	0·9	−1·7	2·3	0	0	29	0	0	0	10	19	0	0	0	1	0
	1730	,,	1003·5	974·7	..	38·7	23·8	15·3	17·3	25	..	1·5	..	2.1	0	0	30	2	2	1	10	8	1	5	1	0	0
Hakimpet (Aerodrome)	0530	613	1006·2	939·0	..	25·1	20·8	18·3	21·3	66	..	2·5	..	11·2	0	3	22	1	2	0	10	4	3	3	2	5	0
	0830	,,	1007·1	940·7	..	28·9	21·7	17·7	20·6	53	..	1·8	..	15·0	0	7	23	2	1	2	5	8	5	3	4	0	0
	1130	,,	1005·7	940·5	..	35 0	22·1	14·4	17·1	31	..	1·6	..	16·4	0	7	23	4	2	0	5	6	8	2	2	0	1
	1730	,,	1002·0	937·4	..	36·2	21·5	12·4	14·9	25	..	3·4	..	15·0	0	5	22	4	6	3	7	2	1	2	2	3	0
Bhadrachalam	0830	111	1008·9	996·5	−1·3	29·3	25·5	23·9	29·7	74	+6	6·3	+2·7	6·4	0	0	30	0	5	4	7	3	10	1	0	0	0
	1730	,,	1002·9	990·8	..	37·1	24·9	18·6	21·6	37	..	3·0	..	4·7	0	0	30	0	3	0	12	2	13	0	0	0	0
Hyderabad (Begampet)	0230	545	1004.9	945·4	..	27·3	21·0	17·5	20·2	57	..	1·6	..	5·4	0	0	23	2	0	1	11	4	3	1	1	7	0
	0530	,,	1006·1	946·1	..	25·1	20·8	18·4	21·3	67	..	2·4	..	4·3	0	1	13	2	0	1	6	2	1	0	2	16	0
	0830	,,	1007·7	948·4	−0·4	28·9	21·2	16·9	19·5	50	−5	1·9	−0·2	7·9	0	1	23	0	0	1	7	6	3	1	6	6	0
	1130	,,	1005·9	947·9	..	35·2	21·6	13·4	15·8	29	..	1·5	..	10·5	0	1	27	0	2	0	6	6	10	0	4	2	0
	1730	,,	1001·4	943·9	..	36·8	21·1	11·0	13·6	22	..	3·9	..	3·2	0	1	26	3	2	4	11	2	2	2	1	3	0
	2330	,,	1005·7	946·6	..	29·2	21·0	16·4	18·9	47	..	1·5	..	8·7	0	2	24	0	2	1	20	2	1	0	0	4	0
Khammam	0830	112	1008·7	996·1	..	29·3	26·4	25·2	31·9	79	..	3·3	..	5·3	0	0	30	0	0	5	17	8	0	0	0	0	0
	1730	,,	1003·0	991·3	..	37·3	26·5	21·1	25·6	42	..	3·3	..	4.5	0	0	24	1	0	12	5	5	0	1	0	6	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana —(*contd.*)																											
Mahbubnagar	0830	505	1007·2	952·5	..	30·5	21·9	17·2	19·3	47	..	1·7	..	10·5	0	1	28	1	2	7	3	1	7	5	3	1	0
	1730	,,	1001·5	937·9	..	36·7	21·3	11·7	14·0	20	..	3·5	..	4·6	0	0	30	0	1	11	6	5	3	2	2	0	0
Rayalaseema Kurnool	0830	281	1007·5	976·5	—1·1	30·6	22·9	18·7	21·6	50	—1	1·3	—0·6	11·1	0	2	28	0	0	0	24	0	4	0	2	0	0
	1730	,,	1001·9	971·7	..	38·6	23·3	13·8	16·1	25	..	3·2	..	7·9	0	1	27	0	6	0	21	0	0	0	1	2	0
Nandyal (R)	0830	212																									
(R)	1730	,,																									
Anantapur	0530	350	1006·1	967·3	..	26·8	21·9	19·0	22·2	63	..	2·4	..	8·0	0	2	18	0	0	0	3	3	10	3	1	10	0
	0830	,,	1007·8	969·3	—0·8	29·8	23·7	20·6	24·4	58	+5	1·3	—1·0	12·5	0	2	26	0	0	1	2	3	14	8	0	2	0
	1130	,,	1006·4	968·7	..	35·3	24·0	17·8	20·5	36	..	1·3	..	11·5	0	1	29	0	1	2	8	2	11	3	3	0	0
	1430	,,	1002·4	965·1	..	38·5	23·7	14·8	17·1	25	..	2·8	..	8.5	0	1	21	2	7	4	4	1	3	0	1	8	0
	1730	,,	1001·3	964·1	..	38·0	23·1	13·8	16·1	25	..	3·7	..	9·9	0	1	24	3	6	5	4	0	2	1	4	5	0
	2030	,,	1004·0	966·1	..	33·9	22·0	14·1	16·7	32	..	2·5	..	10·9	0	2	23	1	1	6	10	0	4	2	1	5	0
	2330	,,	1005·5	967·3	..	31·3	21·6	15·4	17·8	40	..	2·1	..	12·4	0	2	26	1	0	9	8	3	3	2	2	2	0
Cuddapah	0830	130	1008·3	993·9	—0·8	32·2	26·7	24·4	30·4	64	+9	1·0	—1·2	0·5	0	0	4	0	0	2	0	0	0	2	0	26	0
	1730	,,	1002·4	988·4	..	39·3	28·2	23·5	28·9	41	..	3·0	..	3·1	0	0	20	0	1	18	0	0	0	0	1	10	0
Arogyavaram	0830	701	1008·3	932·3	..	26·8	21·1	18·1	20·9	59	..	0·9	..	5·5	0	0	28	2	0	0	5	17	1	1	2	2	0
	1730	,,	1002·2	928·2	..	34·0	20·0	10·9	13·1	26	..	3·3	..	7·7	0	0	29	3	3	16	5	2	0	0	0	1	0
Madras State Madras	0830	6	1009·5	1008·8	..	29·9	26·0	24·3	30·4	72	..	4·3	..	9·8	0	1	29	0	0	0	1	13	15	1	0	0	0
Madras (Minambakkam)	0230	16	1007·0	1005·3	..	27·5	25·5	24·6	30·9	84	..	1·7	..	4·2	0	0	20	0	0	0	3	13	1	3	0	10	0
	0530	,,	1007·6	1005·8	..	26·9	25·3	24·6	30·9	87	..	3·3	..	4·7	0	0	22	0	0	0	2	13	5	2	0	8	0
	0830	,,	1009·6	1007·9	—0·2	30·2	25·9	24·0	30·0	70	—1	4·4	+1·0	13·4	0	4	26	0	0	0	6	18	6	0	0	0	0
	1130	,,	1008·7	1007·0	..	31·6	25·9	21·8	26·3	48	..	3·4	..	12·7	0	6	24	0	0	2	15	16	6	0	0	0	1
	1430	,,	1005·9	1004·3	..	34·9	26·5	22·8	27·7	50	..	1·9	..	20·0	0	18	12	0	0	2	15	12	1	0	0	0	0
	1730	,,	1005·5	1003·8	..	31·8	26·2	23·7	29·5	63	..	2·0	..	19·6	0	17	13	0	0	0	17	11	0	0	0	0	0
	2030	,,	1007·6	1005·9	..	29·1	25·7	24·5	30·2	76	..	0·7	..	14·0	0	3	27	0	0	2	17	13	0	0	0	0	0
	2330	,,	1008·4	1006·7	..	28·3	25·8	24·7	31·1	81	..	1·1	..	11·8	0	3	25	0	0	0	15	12	1	0	0	2	0
Vellore	0530	214	1007·8	983·6	..	25·3	22·9	21·7	25·9	81	..	1·5	..	2·7	0	0	17	0	0	1	5	11	0	0	0	13	0
	0830	,,	1009·3	985·4	—0·3	28·4	24·0	21·9	26·3	68	—2	2·0	—0·2	4·9	0	0	24	1	0	0	3	10	6	3	1	6	0
	1130	,,	1008·3	984·9	..	33.7	24·7	20·3	23·8	46	..	1·8	..	5·3	0	0	28	1	0	2	5	9	6	4	1	2	0
	1730	,,	1003·9	980·7	..	35·6	23·0	15·6	17·8	31	.	2·0	..	7·0	0	0	29	0	0	7	16	6	0	0	0	1	0
	2330	,,	1008·6	984·7	..	28·4	23·9	21·7	25·9	67	..	0·5	..	4·9	0	0	25	0	0	1	21	3	0	0	0	5	0
Tambaram (Aerodrome)	0830	29	1009·1	1005·9	..	30·1	27·0	25·6	33·0	77	..	4·4	..	17·6	0	17	12	0	0	0	2	15	11	1	0	1	0
	1730	,,	1005·4	1002.2	..	32·0	27·1	25·0	31·9	67	..	1·9	..	25·2	0	30	0	0	0	5	22	3	0	0	0	0	0
Tiruppattur	0830	390	1009·4	966·2	..	26·9	24·0	22·5	27·6	77	..	6·2	..	2·8	0	0	27	22	3	0	0	2	0	0	0	3	0
	1730	,,	1003·4	961·5	..	34·7	24·7	19·7	22·9	42	..	6·8	..	7·9	0	0	30	18	9	2	0	1	0	0	0	0	0
Mettur Dam R.S.	0830	..	..	..	..	30·2	26·5	24·9	31·5	74	..	2·1	..	6·1	0	0	30	0	2	0	18	0	10	0	0	0	0
	1730	..	..	..	..	32·7	29·0	27·6	37·1	75	..	5·4	..	6·5	0	0	30	0	1	0	15	0	11	0	3	0	0
Cuddalore	0530	12	1007·3	1006·0	..	26·3	25·2	24·7	31·1	91	..	3·5	..	5·5	0	0	30	1	4	0	7	9	4	3	2	0	0
	0830	,,	1009·5	1008·2	—0·6	29·9	26·3	24·7	31·3	74	—1	4·8	+1·4	6·9	0	0	29	0	2	0	12	6	7	1	1	1	0
	1130	,,	1009·1	1007·8	..	32·1	26·9	24·6	31·1	63	..	4·3	..	10·1	0	0	30	0	0	1	28	1	0	0	0	0	0
	1730	,,	1005·4	1004·1	..	30·5	26·7	25·2	31·9	73	..	2·7	..	17·4	0	16	14	0	0	3	26	1	0	0	0	0	0
	2330	,,	1008·3	1007·0	..	28·7	26·4	25·5	32·6	83	..	1·1	..	10·3	0	0	30	0	1	2	19	4	0	2	2	0	0
Kallakkurichichi	0830	127	1009·0	994·9	..	29·4	26·6	25·5	32·4	80	..	2·8	..	7·5	0	0	30	0	0	1	25	0	3	0	1	0	0
	1730	,,	1003·6	989·8	..	36·5	27·3	23·2	28·6	47	..	2·6	..	11·2	0	0	27	0	1	10	17	0	0	1	0	1	0
Salem	0530	278	1007·4	976·3	..	26·4	23·0	21·3	25·3	73	..	3·7	..	2·3	0	0	16	0	4	8	3	1	0	0	0	14	0
	0830	,,	1009·1	978·3	—0·6	29·6	23·8	21·0	24·7	60	—11	3·7	+1·0	3·0	0	0	20	0	2	9	4	4	0	0	1	10	0
	1130	,,	1007·7	977·4	..	33·7	24·2	19·3	22·4	43	..	4·2	..	4·9	0	0	28	0	2	3	7	7	3	6	0	2	0
	1730	,,	1002·7	972·8	..	36.2	23·1	15·3	17·6	30	..	4·1	..	6·6	0	0	24	0	4	14	3	0	0	3	0	6	0
	2330	,,	1007·5	976·6	..	29·3	23·6	20·7	24·4	60	..	2·4	..	8·3	0	0	28	0	4	16	6	1	1	0	0	2	0
Coimbatore (Pilamedu)	0530	399	1007·7	963·2	..	24·6	23·0	22·1	26·7	86	..	3·0	..	8·9	0	1	22	3	3	0	0	7	10	0	0	7	0
	0830	..	1009·5	965·4	..	27·4	23·9	22·2	26·9	73	..	2·8	..	8·2	0	2	19	4	4	2	0	4	5	0	2	9	0
	1130	,,	1007·8	964·5	..	32·6	24·1	19·8	22·8	47	+8	3·0	..	10·3	0	2	24	0	4	6	2	5	6	0	1	4	2
	1730	,,	1005·0	960·3	..	34·6	22·5	14·7	17·4	33	..	3·2	..	16·6	0	9	20	1	3	13	3	2	6	0	0	1	1
	2330	,,	1007·9	963·7	..	26·8	23·6	22·0	26·4	76	..	2·1	..	13·7	0	2	27	0	0	2	1	14	12	0	0	1	0
Coimbatore	0830	409	1009·4	964·5	0	27·9	23·9	21·6	26·4	70	—7	2·9	—0·2	17·1	0	9	21	0	3	12	9	3	3	0	0	0	0
Nagapattinam	0830	9	1009·8	1008·7	—0·3	30·9	26·5	24·6	30·9	69	—4	3·5	—0·3	14·3	0	8	20	0	0	5	16	2	3	2	0	2	0
	1730	,,	1005·6	1004·5	..	30·7	26·5	25·0	31·1	72	..	2·5	..	22·3	0	26	4	0	0	6	24	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cold amount (Oktas): Mean amount	Cold amount (Oktas): Departure from normal	Mean wind speed, in Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State— (*Contd.*)																											
Tiruchirappalli	0230	88	1006·9	997·0	..	27·9	24·8	23·3	28·6	76	..	2·8	..	6·9	0	0	24	1	4	2	3	12	1	0	1	6	0
	0530	,,	1007·3	997·3	..	26·9	24·6	23·6	28·9	82	..	3·0	..	3·3	0	0	16	1	4	1	1	7	0	1	1	14	0
	0830	,,	1009·1	999·3	−1·1	30·2	25·6	23·6	29·1	68	−5	3·2	+0·2	8·3	0	0	29	0	3	2		11	3	1	0	1	0
	1130	,,	1008·2	998·5	..	34·6	25·3	20·9	21·6	45	..	3·8	..	10·3	0	0	30	0	2	4	11	4	5	2	2	0	0
	1430	,,	1004·6	995·0	..	37·4	25·1	18·7	21·8	34	..	3·7	..	10·2	0	1	27	0	4	8	10	3	2	0	1	2	0
	1730	,,	1003·7	994·1	..	36·4	25·1	19·4	22·7	38	..	3·2	..	17·1	0	11	19	0	3	8	16	3	0	0	0	0	0
	2030	,,	1006·6	996·9	..	31·6	24·8	21·5	25·8	56	..	2·3	..	19·9	0	13	17	0	0	3	21	5	1	0	0	0	0
	2330	,,	1008·1	998·2	..	29·1	25·0	23·1	28·3	70	..	1·6	..	12·9	0	2	27	0	0		18	4	1	1	0	1	0
Vedaranniyam	0830	4	1009·6	1009·1	..	31·2	26·7	24·9	31·5	69	..	3·1	..	8·7	0	0	30	0	1	0	21	5	3	0	0	0	0
	1730	,,	1005·7	1005·2	..	31·8	27·0	25·1	31·7	68	..	0·8	..	7·2	0	0	30	0	2	0	21	4	3	0	0	0	0
Adirampattinam	0830	6	1009·2	1008·5	..	30·7	26·4	24·5	30·7	70	..	4·7	..	8·7	0	0	30	4	2	2	7	12	2	1	0	0	0
	1730	,,	1005·2	1004·5	..	31·8	26·2	23·8	29·5	63	..	2·8	..	18·3 (b)	0	12	18	0	0	1	11	17	1	0	0	0	0
Madurai	0830	133	1009·4	994·5	−0·6	30·0	25·5	23·5	28·9	68	0	3·1	−1·0	3·3	0	0	24	6	5	6	2	2	0	1	2	5	0
Madurai Aerodrome	0530	131	1007·5	992·7	..	26·0	24·5	23·9	29·7	88	..	2·7	..	2·8	0	0	15	0	8	2	1	4	0	0	0	15	0
	0830	,,	1009·3	994·6	..	30·1	25·9	24·0	30·0	70	..	3·1	..	6.1	0	0	23	5	12	4	1	0	1	0	0	7	0
	1130	,,	1008·2	993·8	..	34·4	26·1	22·1	26·9	50	..	3·6	..	8.5	0	0	29	3	7	5	5	4	1	2	2	1	0
	1730	,,	1004·2	989·9	..	35·2	26·0	21·9	26·1	47	..	4·1	..	15·9	0	13	17	0	2	8	11	8	1	0	0	0	0
Tondi	0830	5	1009·3	1008·7	..	30·5	27·8	26·7	35·7	80	..	1·3	..	8·2	0	0	29	1	2	5	6	10	4	0	1	1	0
	1730	,,	1005.7	1005·1	..	31·2	28·4	27·3	36·3	80	..	2·9	..	19·3	0	13	17	0	0	7	14	9	0	0	0	0	0
Pamban	0830	11	1009·4	1008·1	−0·4	30·1	26·9	25·6	32·8	77	+1	3·7	−0·9	6·0	0	0	27	0	1	0	9	9	8	0	0	3	0
	1730	,,	1005·6	1004·3	..	31·1	27·2	25·6	33·0	73	..	2·0	..	3·9	0	0	29	1	2	1	2	16	7	0	0	1	0
Tuticorin	0830	4	1009·5	1009·1	−0·8	30·4	26·3	24·5	30·7	71	−3	2·2	−1·2	6·5	0	1	27	6	4	3	1	3	2	0	3	2	0
	1730	,,	1005·5	1005·1	..	31·4	27·1	25·3	32·2	70	..	2·9	..	22·0	0	21	9	0	0	3	13	13	1	0	0	0	0
Palayakottai	0830	51	1009·2	1003·5	−0·8	29·9	25·3	23·3	28·4	68	−1	2.8	−1·0	0·3	0	0	4	2	0	0	0	0	0	1	1	26	0
	1730	,,	1004·8	999·2	..	33·3	25·7	22·2	26·7	53	..	4·2	..	8·9	0	3	23	0	0	5	9	10	0	1	1	4	0
Kanniyakumari	0830	37	1007·3	1004.8	..	29·8	25·6	23·7	29·3	70	..	3·0	..	9·1	0	2	28	4	3	0	1	1	2	11	8	0	0
	1730	,,	1006·0	1001·9	..	30·8	26·5	24·2	31·1	70	..	3·6	..	13·1	0	5	25	0	2	2	3	1	8	14	0	0	0
Coastal Mysore																											
Karwar	0830	4	1009·4	1008·9	−0·8	28·6	25·8	24·6	30·9	79	+3	3·3	0	5·4	0	0	28	3	8	9	0	1	1	1	3	2	2
	1730	,,	1006·1	1005·6	..	30·9	27·2	25.6	32·6	74	..	4·4	..	16·5	0	7	23	0	0	0	0	0	0	8	14	0	8
Honavar	0830	26	1009·5	1006·6	−1·6	28·1	25·1	23·7	29·5	77	+1	5·3	+1·1	5·3	0	0	30	1	5	20	1	1	0	1	1	0	0
	1730	,,	1006·0	1003·1	..	31.4	26·4	24·3	30·4	66	..	5·6	..	11·2	0	2	28	0	0	0	0	0	4	19	7	0	0
Mangalore (Bajpe)	0230	102	1007·3	995·8	..	27·0	24·5	23·4	28·6	81	..	3·1	..	1·9	0	0	10	0	1	7	0	0	0	0	1	20	1
	0530	,,	1007·5	996·0	..	26·1	24·2	23·3	28·6	84	..	4·0	..	3·3	0	0	21	0	3	18	0	0	0	0	0	9	0
	0830	,,	1009·3	998·0	..	29.3	25·3	23·5	28.9	71	..	2·7	..	5·1	0	0	28	1	6	18	1	0	0	0	1	2	1
	1130	,,	1008·8	997·6	..	33·3	26·0	22·7	27.6	54	..	4·0	..	8·9	0	0	28	1	0	0	1	1	6	14	3	2	2
	1430	,,	1006·1	994·9	..	33·4	26·1	22·9	27·9	54	..	3·6	..	16·6	0	4	26	0	0	0	0	0	3	22	5	0	0
	1730	,,	1005·7	994·4	..	30·9	25·8	23·5	28·9	65	..	4·2	..	15·3	0	3	27	0	0	0	0	0	0	19	11	0	0
	2030	,,	1007·9	996·5	..	28·7	25·3	23·7	29·3	74	..	3·5	..	6·4	0	0	26	0	0	1	0	0	0	13	12	4	0
	2330	,,	1008·8	997·4	..	27·9	24·9	23.5	28·9	78	..	3·6	..	3·6	0	0	18	4	0	2	1	0	1	3	7	12	0
Mangalore	0830	22	1009·2	1006·7	−1·2	30·1	25·8	23·8	29·7	69	−2	3·8	+0·3	3·3	0	0	30	1	8	15	3	1	0	1	1	0	0
	1730	,,	1005·9	1003·5	..	31·4	26·3	24.3	30·0	66	..	4·4	..	7·3	0	0	30	0	0	0	0	0	5	13	8	0	4
Interior Mysore North																											
Bidar	0830	664	1007·2	935·6	..	29·7	19·5	12·8	15·2	37	−8	0·5	−1·3	14·7	0	10	20	2	1	1	1	5	11	2	7	0	0
	1730	,,	1000·5	930·9	..	36·8	19·9	7·5	10·9	18	..	2·1	..	9·7	0	2	24	1	9	4	6	0	1	1	4	4	0
Gulbarga	0830	458	1007·4	957·5	−0·7	30·7	20·3	13·4	16·2	37	−8	1·2	−0·2	9·4	0	1	24	6	1	2	3	3	4	3	3	5	0
	1730	,,	1000·6	952·3	..	38·7	20·6	7·7	11·0	17	..	4·0	..	14·5	0	6	24	9	1	2	6	4	2	1	5	0	0
Bijapur	0830	594	1007.8	942.9	−1·1	27·1	20·9	17·5	20·2	57	+6	0·5	−1·1	1·9	0	0	22	2	1	0	0	1	7	4	7	8	0
	1730	,,	1000·4	938.2	..	38·1	22·5	13·6	16·0	24	..	1·5	..	1·1	0	0	15	2	3	0	4	0	1	1	4	15	0
Raichur	0830	400	1007·7	963·9	−0·8	30·5	24·4	21·3	25·6	57	+6	2·9	+1·2	6·1	0	1	26	4	1	1	3	3	9	2	2	3	2
	1730	,,	1001.4	959.1	..	38·5	26·0	19·9	23·2	34	..	4·1	..	6·0	0	0	30	0	10	2	16	0	1	1	0	0	0
Belgaum	0830	753	1008.3	926.1	−1·5	24·1	20·7	18·6	22·0	73	+6	1·5	−0·3	2·6	0	0	15	0	0	4	0	1	0	8	2	15	0
	1730	,,	1002·7	922·7	..	31·1	22·7	18·2	21·4	50	..	3·9	..	6·9	0	0	30	0	0	1	2	0	1	20	5	0	1
Belgaum (Samra)	0530	747	1007·3	925·3	..	21·9	19·2	17·4	20·2	79	..	2·5	..	3·9	0	0	17	0	2	0	2	2	10	1	0	13	0
	0830	,,	1008·7	927·3	..	25·1	20·3	17·4	20·2	65	..	2·7	..	7·1	0	3	18	1	4	1	0	0	6	8	1	9	0
	1130	,,	1006·5	927·1	..	32·3	20·2	11·7	14·9	32	..	2·0	..	9·9	0	2	28	4	7	2	5	1	4	3	4	0	0
	1430	,,	1002·7	924·3	..	35·3	20·3	9·9	12·9	23	..	3·7	..	9·1	0	2	27	3	2	3	4	1	5	6	5	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North—*Contd.*																											
Belgaum (Samra)	1730	747	1002·5	923·4	..	32·5	21·7	14·8	18·1	40	..	4·5	..	15·8	0	8	22	2	2	1	2	0	5	15	3	0	0
	2030	,,	1006·5	925·6	..	26·4	22·0	19·8	23·2	69	.	2·7	..	12·6	0	3	27	0	0	1	0	0	10	15	4	0	0
Gadag	0530	650	1007·3	935·9	..	23·7	21·6	20·5	24·4	85	..	1·9	..	6·3	0	0	22	0	0	0	0	1	7	14	0	8	0
	0830	,,	1008·7	937·7	−0·9	26·4	22·3	20·1	23·6	70	0	1·5	−0·3	6·9	0	0	27	1	0	2	0	0	7	17	0	3	0
	1130	,,	1006·4	937·3	..	34·1	23·5	18·1	21·1	40	..	2·2	..	6·5	0	0	26	1	0	3	3	0	2	11	6	4	0
	1430	,,	1002·5	934·4	..	37·6	24·1	17·3	20·1	31	..	2·6		5·7	0	0	26	2	6	4	1	1	3	5	4	4	0
	1730	,,	1001·2	933·1	..	36·4	23·0	15·5	18·2	31	.	4·4	..	5·2	0	0	27	3	5	9	1	1	3	3	2	3	0
	2030	,,	1004·8	935·2	..	30·7	22·9	18·8	22·1	52	..	1·5	..	7·7	0	0	27	2	2	3	2	2	4	11	0	3	1
	2330	,,	1007·3	936·6	..	27·0	22·4	19·9	23·7	68	.	1·5	..	8·9	0	0	30	0	0	3	1	0	7	19	0	0	0
Interior Mysore South																											
Bellary	0830	449	1007·5	958·6	−0·8	29·0	23·2	20·1	23·7	66	+1·0	1·9	−0·2	4·1	0	0	20	0	9	0	11	0	0	0	0	10	0
	1730	,,	1001·5	953·7	..	37·7	25·5	19·2	22·7	36	..	5·1	.	6·4	0	0	26	0	13	0	12	0	1	0	0	4	0
Chitradurga	0830	733	1008·6	928·9	−0·6	25·6	22·5	21·0	25·0	76	+1·4	2·2	−0·2	5·1	0	0	28	0	0	0	0	0	11	16	1	2	0
	1730	,,	1004·2	924·3	..	35·3	24·0	18·1	21·6	37	..	4·1	.	4·1	0	0	26	3	5	8	2	0	3	2	3	4	0
Shimoga (R)	0830	571																									
(R)	1730	,,																									
Agumbe	0830	..	..	..	..	24·4	22·6	21·7	26·1	85	.		..	4·6	0	0	30	1	2	1	8	1	8	4	5	0	0
Balehonnur	0830	..	.		..	23·5	1·6	20·7	24·4	85	−1	.		.	..	..	.	..	..	..	.	..	..	..	..	..	..
Hassan	0830	960	1507·0	905·4	..	25·0	0·5	19·3	22·5	80	−9	1·3	−1·1	2·5	0	0	27	2	0	1	3	2	1	20	0	3	0
	1730	,,	1485·2	901·5	..	31·8	21·2	14·9	17·4	39	..	3·1		3·7	0	0	30	2	0	12		2	2	10	2	0	0
Bangalore	0230	921	1488·5	907·4	..	24·1	20·6	18·7	21·7	73	.	1·2	.	3·7	0	0	18	0	0	4	4	3	4	2	1	12	0
	0830	,,	1509·6	909·4	−0·6	25·0	21·3	19·4	22·7	71	+2	2·0	−0·6	4·2	0	0	21	0	0	0	3	2	10	5	1	9	0
	1130	,,	1517·8	909·0	..	30·9	21·7	16·7	19·3	43		2·3	..	5·8	0	1	23	1	0	2	2	4	10	4	1	6	0
	1430	,,	1496·7	906·3	..	33·9	21·4	14·6	16·3	31	..	(b) 3·9	.	(b) 5·3	0	0	24	0	3	2	2	1	1	5	0	5	0
	1730	,,	1484·9	905·4	..	32·5	21·1	13·6	16·7	33	..	4·4	..	6·0	0	1	2	1	2	13	4	1	6	2	1	6	0
	2030	,,	1497·1	907·5	..	28·0	20·0	14·9	17·5	47	..	3·4	.	4·6	3	6	15	1	1	8	6	1	2	1	0	11	0
Bangalore (Aerodrome)	0530	897	1485·4	910·1	..	22·1	20·3	19·3	22·5	84	..	2·5	..	2·8	0	0	15	1	0	3	3	1	3	4	0	15	0
	0830	,,	1509·5	911·9	..	25·0	21·6	19·9	23·2	74	..	2·4	..	6·7	0	0	25	0	0	1	2	3	8	11	0	5	0
	1130	,,	1516·8	911·5	..	30·4	21·3	16·3	18·5	45	..	2·4	..	9·5	0	1	22	0	1	2	3	3	3	10	1	7	0
	1430	,,	1495·6	908·7	..	33·4	20·5	12·5	14·7	29	.	3·7	..	7·9	0	0	26	2	0	10	6	1	2	3	1	4	0
	1730	,,	1483·9	907·8	..	32·0	20·4	13·1	15·5	34	..	4·2	.	10·8	0	3	24	4	0	11	8	3	1	0	0	3	0
	2030	,,	1497·1	910·0	..	28·3	20·0	14·9	17·4	46	..	2·5	..	7·4	0	0	27	2	0	10	9	3	1	1	1	3	0
	2330	,,	1502·1	911·0	..	25·8	20·1	16·8	19·4	59	..	1·8	..	6·6	0	0	24	0	0	6	11	2	2	2	1	6	0
Mysore	0830	767	1009·6	926·0	−0·4	24·8	21·2	19·4	22·5	72	0	1·6	−1·8	6·0	0	0	29	1	1	0	2	4	8	8	5	1	0
	1730	,,	1002·3	921·6	..	34·0	20·4	11·9	14·0	29	..	4·4	..	5·6	0	0	29	5	5	7	3	0	5	2	2	1	0
Kerala																											
Calicut	0530	5	1007·8	1007·2	..	27·0	25·2	24·4	30·5	86	..	2·7	..	5·9	0	0	24	1	7	12	1	0	0	2	1	6	0
	0830	,,	1009·5	1008·9	−0·8	29·7	26·2	24·7	31·1	75	−2	2·3	−1·6	6·0	0	1	27	5	9	10	0	0	0	2	2	2	0
	1130	,,	1009·6	1009·0	..	32·4	27·2	25·1	31·9	66	..	2·3	..	15·4	0	7	23	0	0	0	0	0	8	17	5	0	0
	1730	,,	1006·2	1005·6	..	31·6	27·5	25·0	33·4	72	..	3·3	..	18·3	0	15	15	0	1	0	0	0	1	23	5	0	0
Palghat	2330	,,	1009·1	1008·5	..	28·9	26·0	24·8	31·1	79	..	2·8	.	9·7	0	6	18	2	5	2	0	0	0	4	11	6	0
	0830	97	1009.5	998·3	..	29·8	25·9	24·2	30·7	72	.	3·4	..	7·6	0	0	26	0	0	6	2	0	1	16	1	4	0
Fort Cochin	1730	,,	1004·5	993·8	..	33·7	26·2	22·7	27·6	54	..	3·4	..	14·1	0	3	27	0	0	3	0	0	1	24	2	0	0
	0830	3	1009·3	1009·0	−1·1	29·1	26·5	25·5	32·4	80	+5	6·2	+2·4	2·2	0	0	11	2	5	2	0	0	0	0	2	19	0
	1730	,,	1005·6	1005·3	..	30·9	27·4	26·0	33·6	76	..	6·6	..	10·7	0		28	1	0	0	0	0	2	14	12	1	0
Cochin (Naval Air Station)	0230	3	1007·6	1007·3	.	27·5	25·9	25·2	32·1	88	..	5·1	..	0·7	0	0	2	0	0	0	0	0	0	2	0	28	0
	0530	,,	1007·7	1007·4	..	26·9	25·7	25·3	32·2	91	..	4·7	..	0·7	0	0	2	0	0	0	0	0	0	1	1	28	0
	0830	,,	1009·5	1009·2	..	29·6	26·7	25·4	32·6	78	..	3·8	..	1·7	0	0	9	3	1	3	1	0	0	0	1	21	0
	1130	,,	1009·3	1009·0	..	32·3	27·3	25·2	32·1	67	..	4·4	..	11·2	0	0	28	0	0	0	1	0	7	9	11	2	0
	1730	,,	1006·1	1005·8	..	31·2	27·4	25·8	33·4	73	..	5·3	..	15·7	0	0	30	0	0	0	0	0	5	18	7	0	0
	2330	,,	1009·1	1008·8	..	28·0	26·0	25·2	32·1	85	..	6·1	..	5·6	0	2	11	0	0	1	1	2	3	2	4	17	0
Alleppey	0830	4	1009·4	1009·0	−0·9	29·8	27·1	26·0	33·8	81	+3	4·9	−0·5	3·4	0	0	27	0	11	6	8	0	0	0	2	3	0
	1730	,,	1005·8	1005·4	..	31·7	27·3	25·4	32·6	69	..	4·7	..	20·5	0	22	8	0	0	0	0	0	2	11	17	0	0
Punalur	0830	34	1009·5	1005·6	..	27·0	25·4	24·9	31·1	85	..	4·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1007·9	1004·1	..	30·2	26·2	24·5	30·7	72	..	7·3	..	4·7	0	0	30	1	0	0	0	1	7	12	9	0	0
Trivendrum	0230	64	1067·3	1000·1	..	26·7	25·0	24·7	30·4	89	..	3·6	..	2·6	0	0	17	0	9	2	0	0	1	1	4	13	0
	0530	,,	1007·6	1000·2	..	26·1	25·0	24·5	30·7	91	..	3·2	..	4·5	0	0	19	3	9	1	0	0	0	1	5	11	0

(b) Mean of 29 days.

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Trivendrum	0830	64	1009·4	1002·2	—0·7	28·3	25·8	24·8	31·1	81	+2	2·8	—1·1	6·0	0	1	25	5	10	2	2	0	0	9	7	4	0
	1130	,,	1008·9	1001·8	..	31·9	26·2	23·7	29·3	62	..	5·0	..	9·5	0	0	30	2	2	0	0	0	7	9	10	0	0
	1430	,,	1006·3	999·2	..	31·9	26·5	24·1	29·7	61	..	3·9	..	13·0	0	6	24	0	0	0	2	2	9	12	5	0	0
	1730	,,	1006·1	998·9	..	30·0	26·1	24·4	30·5	72	..	5·4	..	10·1	0	1	29	1	1	0	1	1	9	10	7	0	0
	2030	,,	1008·3	1001·0	..	28·2	25·8	24·7	31·3	82	..	4·2	..	5·4	0	1	22	0	6	0	1	0	2	1	13	7	0
	2330	,,	1009·0	1002·3	..	27·5	25·6	24·8	31·1	85	..	4·7	..	4·7	0	0	23	5	8	1	1	0	0	2	6	7	0
Trivendrum (Aerodrome)	0830	8	1009·7	1008·8	..	29·7	26·0	24·4	30·4	73	..	2·9	..	12·6	0	6	23	15	8	4	0	0	1	0	1	1	0
Arabian Sea Islands																											
Amini*	0530	4	..			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1430	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations (excluding Kashmir)																											
Dalhousie	0830	1959	1441·0	800·0	+0·4	16·0	9·8	3·9	8·1	47	—8	1·9	+0·4	1·8	0	0	14	0	5	0	3	0	1	1	1	16	3
	1730	,,	1423·8	799·0	..	18·3	12·5	8·0	10·7	52	..	2·5	..	1·7	0	0	13	1	4	0	0	0	1	1	1	17	5
Dharmsala	0830	1211	1526·3	882·0	—0·7	21·4	14·7	7·8	10·6	43	+4	3·9	+1·4	2·5	0	0	21	1	15	0	1	0	1	0	3	9	0
	1730	,,	1523·4	881·4	..	24·3	15·5	8·5	11·1	38	..	5·2	..	1·0	0	0	30	1	1	0	1	0	27	0	0	0	0
Simla	0830	2202	1475·8	783·3	+2·0	16·8	9·8	3·6	7·9	42	+9	2·8	+0·1	1·4	0	0	21	3	7	0	2	4	3	1	0	9	1
	1730	,,	1472·2	781·3	..	17·7	12·6	8·6	10·2	56	..	4·3	..	1·5	0	0	22	0	4	0	0	2	13	1	2	8	0
Lokpal	0830	..	..	..	..	—8·0	—9·8	—10·9	2·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830						Closed winter months																				
Joshimath	0830	..	..	..	..	15·9	9·8	4·1	8·2	45	..	3·2	..	6·1	0	0	25	0	5	12	4	2	0	0	0	5	2
	1730	..	..	..		19·7	11·1	3·0	7·6	35	..	5·4	..	6·7	0	2	22	3	3	6	0	0	1	1	0	6	10
Mussoorie	0830	2042	..	..	..	17·2	10·6	4·1	8·2	45	+1	2·3	0	1·6	0	0	18	5	1	0	3	4	1	0	4	12	0
	1730	,,	..	..	..	19·3	12·0	5·8	9·2	44	..	4·0	..	2·9	0	0	25	5	2	0	3	7	4	0	4	5	0
Mukteswar (Kumaun)	0830	2311	3131·7	771·9	—0·8	15·2	7·7	—0·4	5·6	38	+1	1·9	—0·3	9·0	0	1	29	0	2	1	1	0	1	15	10	0	0
	1730	,,	3125·9	771·1	..	17·9	10·1	2·9	7·5	41	..	3·0	..	15·5	0	6	24	0	1	1	0	1	5	14	8	0	0
Nainital	0830	1953	1469·9	803·7	—1·2	..	..	..	..	..	..	2·1	+0·2	7·4	0	0	24	3	1	9	5	0	0	3	3	6	0
	1730	,,	1455·8	803·2	..	..	..	..	..	..	.	1·7	..	8·5	0	0	30	4	1	5	4	2	1	11	2	0	0
Kalimpong	0830		..	..	..	19·4	17·5	16·3	18·5	83	+18	2·8	+0·3	4·9	0	0	30	1	0	1	0	0	1	1	26	0	0
	1730		..	..	..	19·7	17·5	16·0	18·2	81	..	2·4	..	5·0	0	1	29	0	0	0	26	0	1	0	3	0	0
Darjeeling	0830		1461·5	786·4	—1·9	14·1	11·9	10·3	12·5	79	+14	6·1	+2·2	0·8	0	0	6	2	0	0	1	0	1	1	1	24	0
	1730		1431·7	783·6	..	14·2	12·4	11·1	13·2	83	..	7·1	..	4·8	0	1	17	1	1	2	0	0	5	3	1	12	5
Kohima	0830	2128	1543·8	863·9	..	18·6	16·3	14·8	16·8	82	..	6·3	..	4·4	0	0	30	2	0	0	3	0	2	0	17	0	6
	1730	,,	1515·5	861·1	..	18·8	16·8	15·7	17·8	84	..	6·2	..	2·9	0	0	30	3	2	0	1	0	1	1	18	0	4
Shillong	0830	1406	1495·2	849·7	+0·2	19·8	17·2	15·2	17·3	76	+22	5·0	+1·8	13·1	2	4	5	0	0	0	0	2	8	1	0	19	0
	1730	,,	1473·3	847·5	..	18·2	16·8	15·9	18·1	88	..	6·6	..	1·9	0	1	4	0	0	0	1	1	3	0	0	25	0
Cherrapunji (R)	0830	1500																									
(R)	1730	,,																									
Abu	0830	1313	1512·2	881·5	+0·4	24·4	14·5	5·7	9·1	32	+4	0·2	—1·0	0·9	0	0	9	2	1	0	0	0	1	2	3	21	0
	1730	,,	1490·7	878·8	..	28·9	16·0	3·9	8·1	20	..	0·1	..	2·4	0	0	17	2	1	0	0	3	7	1	3	13	0
Aijal	0830	1195	..	..	..	20·4	17·3	15·4	17·5	75	..	5·0	..	2·6	0	0	30	1	0	9	1	6	5	7	1	0	0
	1730		..	..	..	21·7	18·4	16·5	18·8	73	..	6·6	..	2·6	0	0	30	3	0	6	0	9	1	11	0	0	0
Pachmarhi	0830		1511·7	893·[illegible]	—0·7	28·3	15·4	3·3	8·1	22	—7	1·3	—0·5	2·8	0	0	23	2	2	1	1	6	1	3	7	7	0
	1730	1075	1486·7	889·9	..	33·2	16·2	—0·8	6·2	12	..	2·2	..	3·9	0	0	29	1	0	0	1	0	1	6	20	1	0

*Data given as addenda in December 1964, issue. (R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS – APRIL, 1964 (CHAITRA 12 – VAISAKHA 10, 1886 SAKA)

Sub Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure	Relative humidity %	Departure from normal	Cloud amount (oktas): Amount	Cloud amount (oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. hr.): 62 or more	Wind speed (km. p. hr.): 20 to 61	Wind speed (km. p. hr.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir—*contd.*																											
Mahabaleshwar	0830	1382	1508.3	862.2	—1.1	23.8	14.6	5.9	9.9	32	—4	0.8	—0.9	11.2	0	0	30	3	20	0	0	0	0	0	7	0	0
	1730	„	1486.0	860.3	..	27.8	20.9	16.2	19.6	50	..	1.2	..	10.0	0	0	30	9	17	0	0	0	0	0	13	0	0
Mercara	0830	1152	1501.1	885.1	—0.9	22.0	19.4	18.0	20.6	79	+2	2.1	—1.6	4.5	0	3	27	3	1	4	0	1	0	5	2	10	4
	1730	„	1482.8	882.7	..	26.3	21.6	19.1	22.4	66	..	3.7	..	12.9	0	13	16	0	0	1	1	1	2	16	7	1	1
Ootacamund	0830	2249	1509.1	780.5	+0.3	19.9	11.1	6.4	9.7	51	—6	1.8	—1.3	3.3	0	0	23	1	13	7	0	0	0	0	0	9	0
	1730	„	1484.3	778.7	..	16.4	13.7	9.4	11.9	54	..	4.2	..	3.7	0	0	27	0	1	25	0	0	0	0	0	3	0
Coonoor (R)	0830																										
Kadaikanal	0830	2343	3166.9	771.9	+0.2	17.1	10.4	3.8	8.3	43	—15	2.9	+0.3	8.6	0	10	19	4	13	9	3	0	0	0	0	1	0
	1130	„	3179.1	772.3	..	9.9	13.7	9.1	11.9	51	..	3.4	..	10.9	0	1	29	2	13	10	5	0	0	0	0	0	0
	1730	„	3148.2	770.4	..	56.4	14.1	12.5	15.0	78	..	5.2	..	5.2	0	0	22	2	4	4	14	1	0	0	0	8	0
Nepal																											
Katmandu	0830	1324	1485.1	866.3	..	18.4	14.3	11.5	13.3	64	..	2.5	..	0.5	0	0	2	0	0	0	0	0	0	0	2	28	0
	1130	„	1481.5	865.6	..	24.9	16.0	9.1	11.7	38	..	3.9	..	0.9	0	0	6	0	1	0	0	0	2	2	3	22	0
	1730	„	1457.5	863.3	..	23.8	16.3	10.9	13.0	45	..	4.9	..	8.5	0	0	15	0	1	0	1	0	6	3	4	15	0
Sikkim																											
Lachen	0830	..	..	..	..	11.5	9.1	7.0	10.0	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar catchment																											
Tilaiya	0830	..	..	..	..	30.9	20.6	12.8	14.9	38	..	1.2	..	7.8	0	0	30	2	1	9	5	1	0	10	2	0	0
	1730	..	..	..	..	33.1	20.1	9.4	11.9	28	..	2.1	..	8.7	0	0	29	4	1	10	3	0	0	9	2	1	0
Hazaribag	0830	615	1005.2	938.7	..	29.2	19.6	13.1	15.9	42	..	1.0	..	5.8	0	0	25	2	1	3	2	1	2	7	7	5	0
	1730	„	1000.7	935.0	..	32.0	19.2	9.4	12.9	30	..	1.4	..	6.4	0	0	29	2	0	4	3	0	1	7	12	1	0
Konar	0830	..	..	..	..	30.4	20.9	14.5	16.5	41	..	1.7	..	..	0	2	28	0	0	1	7	0	0	19	3	0	0
	1730	..	..	..	..	31.7	20.9	13.4	15.4	36	..	1.0	..	..	0	0	30	0	0	7	0	0	0	23	0	0	0
Bokaro	0830	242	1009.9	982.3	..	31.5	18.8	9.0	11.5	27	..	1.8	..	4.5	0	0	28	2	0	0	2	2	8	7	5	2	2
	1730	„	1003.7	977.6	..	33.6	19.2	7.8	10.6	14	..	3.1	..	11.4	0	0	30	0	0	2	1	0	0	4	16	0	1
Meithon	0830	..	..	..	..	30.8	23.0	18.3	21.7	52	..	2.3	..	3.3	0	0	30	0	1	1	7	5	9	4	3	0	0
	1730	..	..	..	..	35.0	22.5	14.2	17.0	33	..	3.1	..	4.9	0	0	30	0	2	0	5	5	14	0	4	0	0
Ramgarh	0830	..	..	..	..	29.6	22.2	17.2	19.0	47	..	1.0	..	2.7	0	0	23	0	3	5	0	0	8	5	2	7	0
	1730	..	..	..	..	35.2	22.4	13.7	15.8	32	..	1.9	..	2.9	0	0	28	1	4	2	3	1	4	5	8	2	0
Panchet Hills	0830	..	..	..	..	30.1	22.6	18.5	21.3	51	..	1.1	..	5.9	0	0	27	0	3	0	8	0	13	0	3	3	0
	1730	..	..	..	..	33.9	21.9	14.6	16.6	36	..	2.1	..	5.3	0	0	18	0	2	1	5	0	3	0	7	12	0
Durgapur	0830	..	..	..	..	30.0	27.5	26.4	34.6	82	..	3.3	..	5.5	0	0	30	4	8	3	2	9	1	1	2	0	0
	1730	..	..	..	..	34.2	28.8	26.9	35.4	67	..	3.2	..	6.3	0	0	30	2	4	1	3	11	1	0	8	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	29.9	19.2	10.9	14.4	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1006.7	989.1	..	30.7	22.7	18.3	21.0	49	..	1.0		2.8	0	0	27	1	0	2	8	8	5	2	1	3	0
	1130	„	1005.8	988.5	..	35.3	23.4	16.7	19.0	35	..	1.2	..	3.8	0	0	29	0	0	2	1	6	8	5	7	1	0
	1730	„	1000.9	983.7	..	37.5	22.7	13.5	15.5	25	..	2.7	..	3.0	0	0	24	0	0	1	4	2	7	4	5	6	1
Bhimkund	0830	..	..	..	..	27.6	22.6	20.0	23.4	64	..	3.1	..	1.3 (G)	0	0	9	0	0	1	1	6	1	0	0	21	0
	1730	..	..	..	..	33.2	21.7	14.5	16.5	37	..	3.6	..	4.9	0	1	16	2	1	0	3	6	2	2	1	11	0
Sonepur	0830	..	..	..	..	31.6	24.6	21.2	25.2	57	..	..	..	4.5	0	0	26	6	1	9	3	2	0	7	0	2	0
Khijrawan	0830	..	..	..	..	28.6	21.5	17.7	19.9	49	..	0	..	1.4	0	0	13	1	2	1	0	3	6	0	0	17	0
	1730	..	..	..	..	36.0	20.6	9.9	11.7	21	..	0	..	3.1	0	0	25	1	2	0	5	4	3	3	7	5	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	31.3	17.9	6.2	9.7	22	..	1.0	..	7.6	0	0	28	0	3	1	0	1	14	9	0	2	0
	1730	..	..	..	..	40.0	20.5	4.3	8.2	11	..	1.4	..	7.9	0	0	27	4	1	0	0	1	3	10	8	3	0
Punasa	0830	..	..	..	..	31.3	18.4	7.0	10.7	24	..	1.2	..	9.1	0	1	28	1	1	0	1	1	10	10	5	1	0
	1730	..	..	..	..	40.7	21.6	6.0	10.2	14	..	1.4	..	10.0	0	3	27	3	0	0	0	1	5	11	10	0	0
Thikri	0830	..	..	..	..	31.6	20.7	13.0	15.5	35	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	27.3	20.4	16.0	18.3	51	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	.	..	35.9	24.2	17.7	20.5	35	..	1.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	11.9	7.6	3.8	8.0	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12.5	10.0	8.2	10.9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	23.1	18.0	15.5	17.6	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25.3	19.9	17.5	20.0	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received

(G) Mean of 28 days.

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Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry Bulb	Mean temperature in °C: Wet Bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative Humidity%	Departure from normal	Cloud amount (oktas): Mean Amount	Cloud amount (oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Gandak Catchment—*Contd.*																											
Timure	0830	..	..	..	..	17·1	11·6	7·2	10·1	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	13·4	8·8	11·3	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	22·3	17·1	13·5	15·7	59	..	2·5	..	2·2	0	0	17	7	0	0	6	1	0	0	3	13	0
	1130	..	..	..	..	26·5	18·1	12·3	14·7	43	..	3·0	..	6·4	0	0	23	0	0	3	16	4	0	0	0	7	0
	1730	..	..	..	..	24·9	18·1	13·7	15·9	54	..	5·6	..	3·1	0	0	20	4	2	1	7	1	2	0	3	10	0
Gorkha	0830	..	..	..	..	21·2	16·3	12·6	15·0	61	..	2·2	..	1·0	0	0	2	0	0	1	1	0	0	0	0	28	0
	1130	..	..	..	..	25·4	17·8	12·5	14·9	48	..	2·5	..	0·4	0	0	1	0	0	0	0	1	0	0	0	29	0
	1730	..	..	..	..	23·7	17·0	12·4	14·7	53	..	5·1	..	1·4	0	1	2	0	0	2	0	0	1	0	0	27	0
Nuwakot	0830	..	..	..	..	22·9	17·6	14·3	16·3	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·6	17·9	12·9	14·9	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	21·5	18·1	16·1	18·3	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·8	19·7	17·5	20·0	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	18·1	11·7	6·0	9·7	47	..	2·3	..	2·3	0	0	26	3	1	8	8	1	0	0	4	4	0
	1130	..	..	..	..	21·8	12·9	5·0	9·1	36	..	2·6	..	6·8	0	0	30	9	2	1	1	0	2	0	15	0	0
	1730	..	..	..	..	20·1	12·4	5·6	9·5	43	..	3·7	..	6·4	0	0	29	4	1	0	0	2	13	2	6	1	1
Sailyana	0830	..	..	..	..	23·2	15·6	9·9	12·2	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·1	15·6	10·0	12·3	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·4	21·7	17·9	20·5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	33·1	23·3	17·9	20·5	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chantara	0830	..	..	..	..	18·2	14·3	11·7	13·7	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·7	15·7	11·9	13·9	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	15·2	12·0	10·4	12·6	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·6	12·3	11·1	13·2	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wahungchung Gola	0830	..	..	..	..	9·3	6·2	3·3	7·7	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·6	6·5	5·5	9·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	18·6	15·1	12·6	14·6	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·4	15·7	13·2	15·2	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	18·6	14·4	11·6	13·7	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·3	14·6	12·3	14·3	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	17·0	13·9	11·7	13·7	72	..	(c) 4·7	..	..	0	0	3	1	1	0	0	0	1	0	0	27	0
	1130	..	..	..	..	19·7	15·1	12·0	14·1	63	..	(d) 5·7	..	..	0	0	22	4	2	1	1	3	5	1	5	8	0
	1730	..	..	..	..	17·6	14·0	11·5	13·7	69	..	(d) 6·5	..	..	0	0	22	0	4	1	6	9	2	0	0	8	0
Okhaldhunga	0830	..	..	..	..	17·3	13·1	9·7	12·3	64	..	2·4	..	1·2	0	0	6	0	0	0	0	2	0	4	0	24	0
	1130	..	..	..	..	20·5	14·6	10·2	12·9	55	..	(c) 1·5	..	2·3	0	1	7	1	0	0	0	1	1	4	1	22	0
Chainpur	1730	..	..	..	..	17·6	13·4	10·1	12·7	65	..	(c) 3·3	..	5·2	0	2	14	1	0	2	0	3	0	9	1	14	0
	0830	..	..	..	..	19·5	15·3	12·3	14·3	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	16·6	13·4	15·4	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Aagbung	0830	..	..	..	..	21·2	16·3	13·0	15·0	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	16·7	12·9	14·9	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1008·3	991·8	..	26·2	20·5	16·7	19·5	58	..	3·5	..	4·2	0	0	25	3	0	0	1	3	9	3	6	5	0
	1130	,,	1006·8	990·6	..	30·8	22·2	17·2	19·7	45	..	3·6	..	5·8	0	0	30	0	1	0	0	0	26	1	1	0	1
	1730	,,	1003·2	987·0	..	30·8	21·7	15·8	18·5	43	..	3·2	..	4·0	0	0	26	0	2	1	3	1	11	3	0	4	5
Tista Catchment																											
Gangtok	0830	1812	1487·6	818·5	..	15·1	13·0	11·6	13·6	80	..	5·6	..	0·5	0	0	3	0	3	0	0	0	0	0	0	27	0
	1130	,,	1480·0	818·1	..	18·3	14·9	12·7	14·7	71	..	5·5	..	2·1	0	0	14	1	1	1	1	5	5	0	0	16	0
	1730	,,	1456·3	815·6	..	15·8	14·0	12·6	14·8	80	..	7·2	..	2·3	0	0	11	2	4	0	3	0	2	0	0	19	0
Gezing	0830	..	..	..	..	17·2	15·2	14·0	16·0	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·7	15·5	14·2	16·2	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

†Data included under Nepal.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9 0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

V—represents the mean wind speed in metres per second irrespective of direction ;

v—represents the resultant mean velocity in metres per second ;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a. g., 0.3, 0.6. 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0 and 30.0 km. a. m. s. l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°23′	79°24′	181	12th January, 1943	0530		173	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°08′	88°16′	2115	1st June, 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°48′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°08′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegoan	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	28th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47.	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijayawada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	AGARTALA																AHMADABAD							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	2·2	134	30	2·7	2·1	166	30	3·8	3·1	166	30	3·0	2·1	150	30	2·0	1·8	299	30	3·9	3·2	307
0·15 a.g. .	30	5·8	4·4	149	30	5·2	4·1	165	29	7·7	6·6	172	29	7·0	5·8	168	30	6·8	6·2	307	30	3·9	2·6	312
0·3 a.m.s.l.	30	6·8	5·4	173	30	5·2	4·5	170	29	8·6	7·8	180	29	7·9	7·2	183	30	8·6	8·2	308	30	4·1	3·2	308
0·6 ,, .	30	8·2	6·8	192	30	6·1	5·4	184	29	9·1	8·5	186	29	8·7	8·1	195	30	7·9	7·0	313	30	4·9	3.7	314
0·9 ,, .	28	8·0	7·1	208	30	6·8	6·2	198	29	9·1	8·6	198	29	8·3	7·6	206	30	7·6	6·6	302	30	5·4	4·3	306
1·5 ,, .	22	8·2	6·8	230	22	7·7	6·4	218	27	8·7	7·9	220	27	7·5	6·2	230	30	6·3	5·0	288	30	5·9	4·8	278
2·1 ,, .	19	7.4	5·9	238	10	7·9	6·8	240	21	9·1	7·6	238	23	7·8	6·5	255	30	7·0	5·0	277	30	7·1	5·8	263
3·0 ,, .	14	8·9	6·2	242	5	6·8	4·5	243	16	10·4	8·2	255	18	8·2	6·6	258	30	7·9	5·2	257	30	7·6	6·4	255
3·6 ,, .	11	8·7	5·5	259					7	9·6	7·2	278	3	10·8	10·6	275	30	7.9	5.5	264	26	8·6	7·1	247
4·5 ,, .	5	6·9	5·7	245					6	8.9	4·9	275	2	11·5	10·0	259	30	9·2	6·9	280	25	8·2	6·6	262
5·4 ,, .	2	6·3	4·9	246					1	8.0	8·0	270					30	10·9	8·3	291	23	9·0	7·2	272
6·0 ,, .	1	6·0	6·0	270					1	10·0	10·0	290					30	12·2	10·4	287	22	11·0	8·9	277
7·2 ,, .																	30	16·8	15·2	287	15	14·7	9·3	279
9·0 ,, .																	30	24·1	19·6	282	5	22·0	15·3	266

Station	AHMADABAD								ALLAHABAD/BAMHRAULI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·5	2·9	275	30	3·5	2·6	260	30	0·9	0·1	096	30	1·6	0·6	303	30	2·6	1·9	301	30	0·9	0·3	006
0·15 a.g. .	30	5·1	4·3	280	30	8·2	5·9	276	30	5·8	1·1	329	30	4·8	1·6	308	30	6·9	5·2	324	30	8·2	5·0	358
0·3 a.m.s.l. .	30	5·3	4·3	278	30	8·3	6·2	277	30	5·9	1·3	334	30	4·9	1·6	309	30	6·9	5·2	324	30	9·3	5·1	356
0·6 ,, .	30	4·8	4·1	280	30	8·3	7·2	287	30	6·4	1·8	339	30	4·8	1·6	294	30	6·8	5·3	310	30	9·1	6·1	345
0·9 ,, .	30	4·9	4·4	277	30	7·3	6·5	286	30	5·5	2·4	325	30	5·3	2·1	298	30	7·0	5·7	305	30	8·5	6·1	330
1·5 ,, .	30	5·7	5·2	278	30	5·9	5·3	288	30	6·7	5·2	295	30	7·2	4·9	299	30	7·2	6·4	295	29	8·2	7·1	302
2·1 ,, .	30	6·4	5·9	285	29	6·5	5·1	287	30	9·5	8·8	288	27	9·2	7·7	300	30	8·3	7·8	288	26	10·1	9·0	291
3·0 ,, .	30	7·8	6·7	273	29	7·7	5·1	269	30	13·7	12·6	280	27	12·0	10·9	294	30	11·5	10·7	290	14	11·5	9·9	280
3·6 ,, .	30	8·5	6·6	268	7	7·9	6·6	244	30	14·1	13·0	281	23	12·9	11·9	296	30	13·5	12·3	290	1	8·5	8·5	300
4·5 ,, .	30	8.9	6·6	268	2	5·5	5·3	238	30	14·5	13·3	284	22	15·2	13·6	298	30	14·7	12·8	294				
5·4 ,, .	30	10·6	8·4	279	1	8·0	8·0	235	28	15·7	14·6	284	20	16·8	14·7	296	30	15·7	14·6	295				
6·0 ,, .	30	11.6	9·0	281	1	12·5	12·5	240	28	16·5	15·3	280	16	17·8	15·6	295	30	16·8	15·5	294				
7·2 ,, .	30	15·3	12·9	283					25	18·2	17·0	282	12	20·3	16·7	287	24	18·8	16·8	294				
9·0 ,, .	29	21·4	17·7	285					6	21·3	20·5	269	1	42·0	42·0	270	22	22·1	20·8	285				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	AMBALA																ANANTAPUR							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·5	1·1	358	30	3·7	0·4	019	30	3·4	2·2	322	30	2·4	1·0	344	30	2·4	1·9	236	30	2·7	1·4	064
0·15 a.g. . .	30	7·9	3·3	360	30	6·0	0·8	048	30	6·7	3·9	314	30	9·9	5·8	347	29	5·6	4·7	243	28	4·1	2·7	070
0·3 a.m.s.l. .	30	4·0	1·9	360	30	4·1	0·2	066	30	4·3	2·5	317	30	4·2	2·3	348								
0·6 ,, .	30	8·3	2·9	353	30	6·4	1·0	031	30	7·3	4·7	317	30	9·3	5·4	346	29	6·1	5·2	247	28	3·8	2·3	070
0·9 ,, .	30	8·2	3·3	344	30	6·9	1·0	007	30	8·1	5·3	315	30	8·5	5·0	343	30	5·0	3·1	235	29	3·6	2·1	070
1·5 ,, .	29	7·2	4·3	326	29	7·7	2·1	316	30	7·3	5·4	309	30	7·1	4·5	329	30	4·5	2·1	188	29	3·6	1·9	069
2·1 ,, .	28	7·9	5·7	310	28	7·2	3·8	309	29	7·4	5·5	304	28	7·1	4·7	293	30	4·8	2·6	106	29	4·4	2·6	055
3·0 ,, .	26	9·7	6·3	299	27	8·6	5·9	294	26	8·2	5·7	300	24	8·5	5·7	270	29	7·9	6·6	056	26	6·2	4·8	069
3·6 ,, .	18	9·5	6·7	290	23	9·4	7·2	298	24	9·1	7·4	298	3	12·5	10·4	227	27	10·1	8·3	047	25	7·5	5·9	060
4·5 ,, .	9	12·7	6·4	285	16	10·0	8·7	286	18	10·5	9·4	292					24	11·1	9·6	046	18	8·4	6·3	050
5·4 ,, .	2	10·0	8·7	286	10	12·1	10·8	281	13	13·4	12·6	283					21	10·1	7·6	058	14	9·9	6·9	042
6·0 ,, .	2	11·0	9·8	268	9	14·0	12.9	283	11	14·3	13·6	280					19	11·1	6·7	053	8	7·4	5·5	014
7·2 ,, .					7	18·8	18·1	289	1	21·0	21·0	300					17	10·9	5·4	021	5	10·0	8·6	005
9·0 ,, .					2	17·3	16·6	289									10	8·7	4·6	312	2	7·3	5·7	314

Station	ANANTAPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·6	1·7	125	30	0·9	0·4	142	30	2·7	0·4	267	30	2·3	0·4	282	30	2·1	1·2	160	30	3·8	2·8	301
0·15 a.g. . .	29	7·3	4·8	118	29	4·1	1·3	182	30	4·9	1·4	247	29	5·5	1·5	289	30	6·9	2·9	140	30	7·4	5·9	325
0·3 a.m.s.l. .					29	4·5	1·7	213	30	4.9	1.4	248	29	5·7	1·6	289	30	7·4	3·3	147				
0·6 ,, .	29	7·6	5·3	117	28	6·0	2·6	231	30	3·9	1·0	219	29	6·5	2·0	276	30	8·2	3·3	146				
0·9 ,, .	29	7·3	5·5	116	27	6·0	2·5	269	29	4·4	1·9	244	29	6·3	2·5	279	30	7·5	2·0	179	30	9·1	8·1	345
1·5 ,, .	29	5·0	3·9	106	26	7·1	5·0	298	20	5·5	4·4	268	29	6·6	5·3	278	29	7·1	4·0	284	30	9·5	8·0	351
2·1 ,, .	29	3·8	2·5	039	26	8·7	7·5	287	13	7·5	6·7	282	25	6·5	6·0	282	27	8·5	7·2	285	30	7·7	3·6	345
3·0 ,, .	28	5·5	3·8	066	22	11·1	10·4	236	6	10·5	10·4	266	20	9·0	8·1	286	21	11·4	10·7	296	25	6·3	1·0	253
3·6 ,, .	24	6·6	5·6	048	15	12·8	11·9	289					20	14·4	10·5	289	8	14·7	14·5	309	4	4·3	0.9	082
4·5 ,, .	7	7·8	6.2	047	7	11·4	10·5	314					20	14·5	13·7	299	4	9·1	9·0	316				
5·4 ,, .	1	6·0	6·0	060	7	12·7	12·2	314					15	14·4	13·0	310	1	7·5	7·5	005				
6·0 ,, .					5	12·0	11·1	318					14	14·8	13·2	305	1	9·0	9·0	015				
7·2 ,, .					3	12·0	11·5	304					12	12·9	12·1	301								
9·0 ,, .					3	16·2	14·0	283					6	18·1	16·6	298								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH												BANGALORE			
Time in I. S. T.	1730				2330				0530				1130				1730				0530@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·7	2·6	307	30	4·0	2·0	322	30	1·3	0.9	269	30	1·7	0·7	097	30	1·1	0·6	264	30	1·6	1·2	226
0·15 a.g.	30	4·2	2·7	317	30	7·7	6·7	332	30	8·5	2·4	080	30	5·1	1·1	126	30	5·8	2·2	291	30	4·7	3·0	220
0·3 a.m.s.l.									30	8·9	2·7	081	30	5.2	1·1	145	30	6·1	2·5	289				
0·6 ,,									30	9·5	0·9	004	30	5·6	0·5	229	30	7·4	4·4	289				
0·9 ,,	30	4·3	2·8	310	30	8·9	8·4	337	30	9·4	1·9	315	30	6.5	0.7	279	30	7·9	4·8	285				
1·5 ,,	30	4·4	3·0	324	30	8·8	7·6	340	30	8·9	6·2	302	29	8·0	4·2	295	28	7·5	5·4	284	30	5·2	2·4	172
2·1 ,,	30	5·3	3·7	327	30	7·2	4·7	348	29	10·4	9·0	305	29	8·9	7·4	303	28	9·5	8·3	288	29	5·8	4·1	092
3·0 ,,	25	5·5	3·6	331	27	7·2	2·3	349	27	11·2	10·3	302	27	11·9	10·9	305	25	11·8	10·6	296	28	9·5	9.1	053
3·6 ,,	22	5·4	3·4	324	9	6·2	0·6	170	21	13·3	12·6	297	27	13·2	12·1	304	25	13·3	12·6	299	28	11·1	10·6	054
4·5 ,,	17	6·3	4·3	333					15	13·7	12·5	295	27	14·6	13·8	300	22	15·8	14·8	302	28	10·7	9·9	057
5·4 ,,	14	10·0	7·3	330					5	14·7	14·6	277	24	15·9	14·9	295	20	16·6	15·9	305	28	9·6	6·9	055
6·0 ,,	13	11·0	8·4	325					2	14·3	14·1	267	23	17·0	15·6	293	18	17·6	16·5	307	27	8·3	6·8	053
7·2 ,,													21	19·4	17·8	292	10	17·7	17·0	299	27	7·5	4·4	044
9·0 ,,													13	23·4	22·7	287	4	25·1	23·5	303	23	8·2	2·7	320

Station	BANGALORE												BAREILLY								BEGAMPET			
Time in I. S. T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.7	0·6	240	30	1·9	1·4	080	30	2·3	1·3	143	30	1·3	0·3	048	30	1·8	1·5	287	30	1·7	0·5	194
0·15 a.g.	30	3.6	1·5	188	30	4·7	3·6	087	30	7·6	6·4	147	30	7·4	1·9	339	30	5·9	4·8	292	30	5·6	2·3	210
0·3 a.m.s.l.													30	6.6	1.6	353	30	5·6	4·4	294				
0·6 ,,													30	9.3	3.1	291	30	7·7	6·7	294	30	3·9	1·4	203
0·9 ,,													30	8·7	4·0	301	30	7·7	6·7	294	30	7·8	4·5	216
1·5 ,,	30	3·5	1·3	133	30	4·9	4·0	087	30	7·3	6·1	138	30	8·3	6·1	311	28	7·1	6·4	289	30	6·9	3·3	227
2·1 ,,	28	5·1	3·6	085	30	5·2	4·0	082	29	6·1	2·8	108	29	9·3	8·3	302	26	7·4	7·0	289	30	4·8	0·5	053
3·0 ,,	26	9·0	8·5	063	30	5·9	5·2	061	28	6·8	4·5	060	26	11·2	10·2	297	23	9·2	8·7	293	30	6·0	4·6	026
3·6 ,,	24	10·8	10·0	063	27	7·6	7·1	055	20	8·9	7·5	053	22	11·7	10·9	299	21	11.1	10·3	294	29	7·2	5·9	016
4·5 ,,	21	10·5	9·1	066	24	9·2	7·8	055	8	11·0	9·9	052	15	14·0	10·4	302	18	13·6	12·6	292	27	8.0	5·7	021
5·4 ,,	19	8·8	6·5	059	19	8·4	6·3	053	3	7·5	6·1	018	7	13·7	12·7	318	16	14·8	13·7	294	24	8.8	6·4	019
6·0 ,,	18	8.4	6.6	060	19	7·6	5·0	048	1	6·5	6·5	055	4	13·9	11·7	306	15	16·4	15·4	296	21	9·1	6·3	015
7·2 ,,	18	6.2	2.8	049	17	6·6	3·5	043					1	20·0	20·0	340	8	19·3	18·0	298	15	12.8	8.2	358
9·0 ,,	14	6.6	1.1	098	10	7·3	2·5	296									1	17·5	17·5	280	9	13·5	9·3	310

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	BEGAMPET								BHAGALPUR												BHOPAL/BAIRAGARH			
Time in I. S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·0	0·6	090	30	2·6	2·1	125	30	2·4	1·9	087	30	2·3	1·1	051	30	2·6	0·6	016	30	2·1	0·9	300
0·15 a.g. .	30	3·7	1 3	090	30	7·4	6·1	133	30	6·1	4·5	084	30	4·2	2·1	075	30	6·5	2·2	022	30	7·5	3·6	308
0·3 a.m.s.l. .									30	6·2	3·8	100	30	3·9	2·1	080	30	6·9	2·3	021				
0·6 „ .	30	3·5	1·1	098	30	5·2	4·1	130	29	6·4	2·3	176	30	4·6	1·3	097	30	7·1	1·5	005	30	6·3	2·9	310
0·9 „ .	30	3·4	1·2	092	30	8·1	6·9	143	29	6·5	1·9	227	29	5·9	0·7	193	30	6·7	1·4	305	30	7 7	4·7	336
1·5 „ .	30	3·8	1·7	081	29	5·2	2·9	143	28	8·0	4·5	293	26	8·3	4·2	271	30	8·1	4·4	267	30	6·6	5 2	323
2·1 „ .	30	3·9	1·8	048	29	4·5	0·9	023	28	9·7	6·7	286	20	9·4	6.9	273	27	9·9	8·1	268	30	6.9	5·6	300
3.0 „ .	29	4.4	1·7	012	29	6·7	4·1	360	21	11·2	9·6	285	5	10·4	9·6	280	23	12·5	11·7	280	30	8·5	6 6	276
3·6 „ .	26	5·4	2·5	358	21	7·5	5·1	350	13	12·6	11·3	287					14	13·3	12·5	290	28	9.2	7·0	277
4·5 „ .	22	6·5	2·3	360	7	7·6	4·4	349	8	12·7	11·5	321					12	17·3	16·2	295	26	10·8	8·4	289
5·4 „ .	20	9·0	5·9	347	4	5.3	4·7	017	7	12·7	12·2	319					9	15.1	14·8	308	22	12·3	9·9	304
6·0 „ .	16	10·3	6·5	340	3	9·0	7·6	017	6	9·4	8·5	313					8	15·9	15·5	310	20	13·3	11·4	307
7·2 „ .	9	13·5	11·5	330	2	7·7	4·1	081	4	11·7	8·7	335					2	13·0	12·4	299	16	15·3	12·5	311
9·0 „ .	4	12·6	12·0	318					1	18·0	18·0	230					1	16.5	16·5	280	10	17·6	14·5	300

Station	BHOPAL/BAIRAGARH								BHUBANESHWAR															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·1	2·6	302	30	2·6	1·7	313	30	5·0	4·4	212	30	6·7	5·8	210	30	8.9	8·4	191	30	7·9	7·0	210
0·15 a.g. . .	30	4·8	4·1	300	30	9·1	6·0	330	15	7·3	6·0	208	29	7·7	7·4	206	29	9·4	9·3	197	25	9.8	9.2	206
0·3 a.m.s.l. .									15	8·8	7·2	219	29	7·8	7·2	209	29	9·4	9·0	200	25	10·9	10·2	212
0·6 „ .	30	4·5	3·5	301	30	7·9	5·1	327	14	8·3	6·4	223	29	7·2	5·5	221	29	7·8	7·2	205	24	11·4	11·0	215
0·9 „ .	30	5·5	4·8	299	30	9·1	6·2	328	13	7·6	5·7	237	29	7·2	5·1	247	29	6·1	4·5	220	22	8·9	8·5	225
1·5 „ .	30	5·9	5·1	297	30	6·9	5·1	309	12	5·2	4·0	270	26	6·3	7·4	279	29	5·5	4·1	277	21	4·9	3·9	270
2·1 „ .	30	5·9	5·3	291	30	5·7	4·4	295	12	5·2	4·0	289	11	6·3	5·9	303	28	6·0	5·4	303	19	7·1	6·0	300
3·0 „ .	30	6·7	5·8	292	27	6·5	5·0	274	11	7.4	6·4	327	1	10·0	10·0	275	26	8·5	7·3	307	15	8·2	7·3	323
3·6 „ .	28	7·2	6·3	289	13	7·3	6·0	282	5	9·4	9·2	339					22	8·9	7·8	315	1	5·5	5·5	020
4·5 „ .	26	9·4	8·2	288	4	7.5	7·2	254	2	16·5	15·8	334					21	9·3	8·0	320				
5·4 „ .	23	10·5	9·0	295					1	9·0	9·0	280					9	7·4	6·7	319				
6·0 „ .	21	11·2	9·6	292													7	7·6	6·5	320				
7.2 „ .	21	15·2	13·1	294																				
9.0 „	10	18·1	16·8	275																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	BHUJ/RUDRAMATA												BIKANER											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	1·7	256	30	4·9	4·4	268	30	4·5	4·1	255	30	7·7	0·4	250	30	1·7	1·3	283	30	1·0	0·4	300
0·15 a.g.	30	6·7	6·0	274	30	6·2	5·4	269	30	7·6	7·1	257	28	6·9	0·8	135	29	4·9	4·0	282	30	7·7	2·9	330
0·3 a.m.s.l.	30	8·2	7·5	284	30	6·5	5·8	271	30	8·6	8·0	266	28	5·5	0·8	145	29	4·2	3·3	281	30	5·9	2·2	320
0·6 ,,	30	10·4	9·8	294	30	6.3	5·6	271	30	8·8	8·1	275	28	7·3	1·5	275	29	5·1	4·1	276	30	7·9	3.3	315
0·9 ,,	30	8·1	7·2	292	30	5·9	4·2	274	30	6·8	6 0	278	28	6·5	3·7	287	29	5·7	4·1	278	29	6·6	3·0	288
1·5 ,,	30	7·0	5·5	276	30	5·5	4·8	282	30	5·5	3·8	274	28	7·2	5·3	282	29	6·0	4·8	276	28	5·2	3·3	265
2·1 ,,	30	6·5	4·2	268	29	4·9	4·0	280	30	5·9	3·3	270	28	7·6	5·7	276	29	6·1	4·8	269	26	6·1	2·5	254
3·0 ,,	29	6·3	4·8	267	29	7·0	5·8	265	30	6·9	4·7	274	27	7·8	6·3	270	26	8·2	5·9	268	24	7·7	6·0	257
3·6 ,,	6	8·3	7·6	287	29	7·6	6·4	268	10	6·3	4·5	296	26	9·5	8·0	274	24	9·7	8·5	272	7	9·0	7·4	257
4·5 ,,	2	7·7	7·7	323	29	9·2	7·7	270	4	9·0	8·2	297	22	10·7	9·6	275	22	11·3	10·5	267	1	13·5	13·5	270
5·4 ,,	1	3.0	3·0	320	29	10·4	8.6	279	1	6·0	6·0	360	21	14·8	13·3	272	22	15·3	14·3	268				
6·0 ,,					29	11·5	9·8	275	1	9·5	9.5	345	17	15·6	13·2	276	19	17·4	16·6	267				
7·2 ,,					20	15.3	13·3	275					11	18·4	15·1	279	13	17·5	16·2	270				
9·0 ,,					6	20·7	16·3	287									1	34·0	34·0	300				

Station	BOMBAY/SANTA CRUZ																CALCUTTA/DUM DUM							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·3	0·2	348	30	2·6	2·2	270	30	5.3	4·7	302	30	2·0	1·5	281	30	1·3	1·1	180	30	2·2	1·7	174
0·15 a.g.	30	3·5	0·9	350	30	4·5	3·2	260	30	7·8	6·8	305	30	4·6	2·9	291	30	6·6	5·8	203	30	5·0	3·1	195
0·3 a.m.s.l.	30	3·5	1·1	354	30	4·2	1·9	271	30	6·5	5·4	307	30	5·2	3·1	308	30	7·2	6·4	212	30	5.3	1·6	203
0·6 ,,	30	4·0	2·4	327	30	4·1	2·0	186	30	4·8	3·9	309	30	6·4	4·5	334	30	7·9	6·8	227	30	5·2	3·5	216
0·9 ,,	30	5·7	5·0	332	30	5·3	4·1	179	30	4·5	3·6	323	30	6·7	5·7	342	30	7·0	5·9	235	29	5·3	3·9	238
1·5 ,,	30	6·7	4·9	337	29	5·9	3·4	344	30	5·0	2·7	307	30	7·0	6·1	333	30	6·5	5·2	247	27	5·5	4·1	248
2·1 ,,	30	6·0	3·2	320	29	5·6	0·9	312	30	4·7	0·9	297	29	5·9	4·0	318	30	6·8	5·7	274	25	7·2	5·4	260
3·0 ,,	30	5·7	1·3	212	29	5·3	1·2	177	30	5.1	3·4	160	29	5·6	0·5	094	30	9·1	8·4	282	19	9·9	9·6	285
3·6 ,,	30	5·7	1.4	187	29	5·2	0·6	164	30	5·1	1·0	071	21	6·5	3·0	128	30	10·4	9·6	293	13	12·8	12·5	287
4·5 ,,	30	5·0	0·9	282	28	5·8	1·9	353	30	3·8	2.0	025	6	7·2	2·9	099	30	12.3	11·1	301	9	13·5	11·8	287
5·4 ,,	30	7.3	1·8	279	26	7·4	3·9	343	30	3·9	3·1	330	1	6·0	6·0	325	30	12·8	11·8	300	6	14·7	12.5	278
6·0 ,,	30	7·9	3·6	331	26	8·9	4·3	320	30	8·9	4·1	332	1	6·0	6·0	305	30	13·0	11·5	298	5	14·1	13·8	297
7·2 ,,	30	11·3	7·0	298	21	12·8	6·6	310	30	12·2	7·3	230					30	13.6	12·0	286	4	16·7	16.7	294
9·0 ,,	30	14·0	10·3	270	16	14·2	10·2	269	30	14·5	10·7	270					30	19·9	17·8	283	1	15·0	15·0	275

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	CALCUTTA/DUM DUM								COCHIN/ WILLINGDON †												DEHRA DUN			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·4	3·0	193	30	2·4	1·9	166	30	0·5	0·3	017	30	4·6	4·2	274	30	1·8	0·6	253	30	0·3	0·2	010
0·15 a.g. .	30	7·1	6·0	184	30	7·9	7·1	185	28	3·2	2·2	054	29	6·3	5·8	275	24	3·6	2·1	312	30	1·8	1·1	046
0·3 a.m.s.l. .	30	7·5	6·4	185	30	9·4	8·3	195	28	2·8	1·5	010	29	6·7	6·2	273	24	4·1	2·7	305				
0·6 ,, .	30	7·5	6·3	198	29	9·6	8·3	207	28	3·0	2·2	317	29	5·3	4·4	266	24	4·0	3·0	297				
0·9 ,, .	30	6·1	4·9	220	27	7·4	6·0	224	27	2·7	1·7	311	28	3·5	2·4	249	23	3·2	1·3	295	30	2·0	0.6	056
1·5 ,, .	30	6·1	4·8	234	27	6·6	5·3	263	26	2·9	1·1	071	23	4·3	3·0	280	21	3·8	2·6	089	30	3.3	1·5	293
2·1 ,, .	30	7·8	7·3	278	23	7·6	6·4	281	23	5·9	4·8	066	21	8·4	7·6	070	16	6·9	6·5	078	30	5.0	3·2	300
3·0 ,, .	30	9·9	9·4	283	14	9·2	8·4	290	20	11·2	9·3	073	15	12·8	12·7	066	9	11·7	11·4	079	27	8·4	6·5	290
3·6 ,, .	30	11·5	11·0	290					9	14·7	12·3	061	7	11·6	11·3	061	2	10·7	10·1	082	16	8·5	5·7	290
4·5 ,,	30	12.6	11·8	296					1	15·0	15·0	025	3	9·7	8·0	056					8	8·8	7·5	309
5·4 ,, .	30	12·7	11·7	292																	1	18·0	18·0	325
6·0 ,, .	30	12·7	11·1	295																				
7·2 ,, .	30	16·5	15·0	292																				
9·0 ,, .	30	20·8	19·3	290																				

Station	DEHRA DUN				DIBRUGARH/MOHANBARI																GADAG			
Time in I. S. T.	1730				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·6	0·7	256	30	1·1	1·0	056	30	0·8	0·7	053	30	1·4	0·9	057	30	1·0	0·7	044	30	3·5	3·1	238
0·15 a.g. . .	30	1·1	3·5	267	28	4·7	3·9	060	27	2·5	1·7	057	28	4·0	2·5	060	24	3·7	2·2	034	30	6·2	5·2	247
0·3 a.m.s.l. .					28	5·0	4·1	057	27	2·6	1·7	058	28	4.0	2·7	060	24	3·5	2·2	034				
0.6 ,, .					28	4·6	3·8	060	27	2·5	2·0	069	28	4.1	2·9	073	24	3·4	2·2	055				
0·9 ,, .	30	4·7	3·8	269	28	4·4	2·8	074	27	2·6	1·9	082	28	3·4	2·5	090	24	3·2	1·9	081	30	6·5	3·4	290
1·5 ,, .	30	5·1	4·2	268	27	3·3	1·1	155	25	3·1	1·7	176	27	3·5	1·4	183	24	2·6	0·7	193	30	6·5	2·9	005
2·1 ,, .	30	3·5	2·7	273	20	2·6	1·2	227	24	3·5	2·3	219	24	5·3	3·5	227	19	3·7	2·9	243	30	6·0	2·9	064
3·0 ,, .	26	1·4	3·2	298	18	3·7	2·7	253	22	4·7	3·2	238	20	6·3	5·5	242	17	6·5	5·5	242	30	6·1	4·6	065
3·6 ,, .	23	6·2	4·1	320	13	4·1	3·6	252	13	5·9	4·0	235	12	6·7	5·0	250	7	7·3	6·6	247	29	6·6	5·7	060
4·5 ,, .	18	8·5	6·2	295	5	4·0	2·6	260	11	5·6	2·4	213	8	6·4	2·9	275	1	2·5	2·5	090	26	7·7	6·1	052
5·4 , .	13	12·9	11·6	283	4	3·5	2·0	260	6	7·7	3·1	238	5	9·1	5.6	320	1	1·5	1·5	340	22	8·3	6·1	059
6·0 ,, .	12	16·5	15.3	278	2	3·7	0.7	234	5	8·4	6·2	248	4	8·3	6·9	285					20	8·4	5·4	051
7·2 ,, .	2	21·5	20·3	271	2	6·5	3·7	240	4	11·8	10·3	268	2	13·2	12.9	300					13	8.0	4·8	350
9·0 ,, .									3	19·5	18·0	282									6	10·3	6·7	293

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	GADAG								GANGTOK								GAUHATI							
Time in I.S.T.	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·8	0·7	087	30	4·8	3·9	250	30	0·6	0·6	027	30	1·3	0·6	076	30	0·6	0·4	045	30	1·9	1·3	039
0·15 a. g.	30	4·9	1·5	085	29	8·8	6·8	252	21	1·3	0·6	015	18	3·5	1·5	175	29	2·6	1·9	075	30	3·6	2·9	048
0·3 a.m.s.l.																	29	3.1	1.9	068	30	3·6	2·8	052
0·6 ,,																	29	3·6	1·6	074	29	3·3	2·1	065
0·9 ,,	30	4·9	1·4	078	29	8·9	6·8	261									29	3·6	0·1	079	29	2·9	0·4	051
1·5 ,,	30	4·5	2·3	076	29	5·9	1·0	329									29	6·4	4·2	242	27	4·6	3·1	230
2·1 ,,	30	4·9	3·0	056	29	5·6	3·7	075	21	1·2	0·5	195	18	2·4	1.7	185	28	7·2	5·4	260	26	7·2	5·6	240
3·0 ,,	29	5·1	3·7	046	29	7·0	5·9	075	19	2·1	1·6	175	14	1·7	1·0	171	26	10·5	9·2	267	24	8·4	8·2	254
3·6 ,,	27	5·8	4·5	048	29	7·9	6·7	069	16	2·7	0·7	176	10	2·1	1·5	235	21	9·5	8·2	267	20	9·5	7·9	261
4·5 ,,	25	6·7	5·4	048	23	8·0	6·5	048	12	5·5	4·6	284	4	2·9	2·5	256	20	12·2	10·4	273	16	9·8	7·9	274
5·4 ,,	20	8.8	6.9	043	15	8·5	7·1	038	9	10·2	8·5	282	1	13·0	13·0	280	17	13·9	12·4	280	11	10·9	9.3	276
6·0 ,,	20	10.5	8.3	035	5	8·2	5·4	051	4	9·3	7·3	317					16	14.2	12·7	284	9	11·1	8·3	271
7·2 ,,	11	10.2	7.5	026	1	6·0	6·0	070	3	10·2	7.6	336					13	12·9	11·7	277	7	11·2	6·4	280
9·0 ,,	9	10.2	8.5	330	1	7·0	7·0	080	1	17.0	17·0	295					9	14·0	12·5	291	6	15·0	9·5	283

Station	GAUHATI								GAYA															
Time in I.S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·1	1·7	048	30	1·6	1·2	063	30	1·6	0·4	146	30	3·4	1·3	335	30	4·3	2·1	331	30	2·6	1·5	082
0·15 a. g.	30	4·5	2·9	065	29	4·7	2·8	075	30	5·8	1·3	204	30	4·2	1·1	312	30	6·4	4·2	318	30	7·3	2·5	044
0·3 a.m.s.l.	30	4·4	2·8	069	29	4 8	2·9	079	30	6·0	1·7	205	30	4·4	1·1	304	30	6·7	4·4	317	30	7·7	2·6	040
0·6 ,,	30	3·8	2·0	082	29	4·6	2·6	083	30	5·8	1·9	274	30	4·6	1·8	291	30	7·2	4·7	316	30	7·5	1·7	006
0·9 ,,	30	3·5	0·3	177	29	4·0	0·2	140	30	6·1	3·1	297	30	5·4	3·0	290	30	6·9	4·5	314	28	6·9	3·4	311
1·5 ,,	30	5·2	4·2	240	28	4·9	3·3	242	30	6·9	5·8	300	28	7·1	5·2	294	29	6·9	5·8	294	28	8·3	7·1	291
2·1 ,,	29	7·9	7·0	252	25	7.0	5·5	250	30	8·6	7·8	297	25	8·8	7·1	288	28	7·7	7·2	287	26	9·7	8·9	288
3·0 ,,	26	10·1	8·8	262	14	8·1	7·3	259	22	11·3	10·7	297	13	10·7	9·1	297	25	12·8	11·9	295	14	13·3	11·5	292
3·6 ,,	25	11·8	10·7	267	5	7·5	7·2	254	15	14.1	12.7	305					18	15·1	14·5	303	5	14·5	13·7	308
4·5 ,,	25	14·2	13·1	270	1	4·5	4·5	245	9	16.9	16.0	313					14	15.2	14.4	309				
5·4 ,,	23	15·5	1·50	267	1	6.0	6.0	260	2	11.5	11.1	335					7	14·3	14.1	322				
6·0 ,,	21	15.0	14.0	268					1	19.5	19.5	345					5	14.2	14.0	326				
7·2 ,,	20	15·0	13·8	280													3	19·7	19.7	357				
9·0 ,,	16	18.2	13.3	285													1	21·5	21·5	355				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5.8	5·2	204	30	8·8	8·3	203	30	8·3	7·7	205	30	1·6	0·9	060	30	1·9	0·7	293	30	0·9	0·1	261
0·15 a. g. .	27	11·1	10·6	213	30	15·7	15·5	202	29	14·3	13·8	212	30	6·9	3·3	075	30	5·5	2·2	305	30	5·0	0·8	014
0·3 a.m.s. l. .	27	9·5	8·9	221	30	15·1	14·7	210	29	12·2	11·4	218	30	8·1	3·3	088	30	5·9	2·3	301	30	4.2	0.7	336
0·6 ,, .	27	6·9	6·0	223	30	8·4	8·1	211	29	8·3	7·4	222	30	7·7	0·7	055	30	7.2	3·5	287	30	6·2	0.4	012
0·9 ,, .	27	6·5	5·2	238	29	4·9	4·0	226	29	5·9	5·1	224	30	7·5	2·0	322	30	7.6	4.3	287	30	5·7	1·9	307
1·5 ,, .	27	5·0	3·3	275	28	3·7	2·9	278	28	3·8	2·0	259	30	8·3	5·0	310	30	8·0	6·4	281	30	6·6	5·1	299
2·1 ,, .	26	5·4	3·8	307	28	5.3	4·1	308	23	4·5	1·5	264	26	10·1	8·4	305	28	9·1	8·1	290	29	8.7	7·8	297
3·0 ,, .	20	6·1	4.7	333	27	7·8	6·4	318	16	6·2	5·2	330	19	12·6	11·4	298	26	13·7	12·7	296	28	11·5	10·3	292
3·6 ,, .	14	8·4	5·7	346	25	8·3	6·5	329	1	6·0	6·0	035	11	13·6	13·2	307	19	14·3	13·3	300	28	12·6	11·4	290
4·5 ,, .	9	8·4	6·0	359	23	8·7	7·3	331					6	11·5	10·6	312	15	14·0	14·2	305	28	14·1	12·3	293
5·4 ,, .	7	6.9	4·7	335	22	11.2	9.3	334					1	10·5	10·5	270	10	14.1	12.9	307	23	14·6	13·2	297
6·0 ,, .	6	7·7	5·0	339	21	11.3	8.4	323									8	15.3	13.5	300	22	15·5	14·0	297
7·2 ,, .	2	7·5	7·5	328	20	13.9	10.4	311									5	18.2	16.0	292	13	18.7	17.4	293
9·0 ,, .					15	16.1	13.7	298									2	19·3	14·3	287	3	22.2	21.3	323

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I. S.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·7	1·0	294	30	2·6	2·2	301	30	0·8	0·3	284	30	1·0	0·5	003	30	1·7	0·4	246	30	2·7	1·4	251
0·15 a. g. .	30	3·8	2·1	294	30	5·2	4·4	313	30	5·7	2·8	012	26	2·5	0·9	030	25	2·6	0·6	242	28	5·0	2·7	259
0·3 a.m.s.l. .	30	3·4	1·6	306	30	4·9	4·1	314	30	4.7	2.1	007												
0·6 ,, .	30	3·9	2·2	288	30	5·9	4·9	314	30	6.3	2·9	350												
0·9 ,, .	30	4·3	2·9	285	29	5·6	4·7	309	30	5·7	2·9	318	26	2·4	1·0	038	25	2·5	0·5	247	28	4·9	2·6	262
1·5 ,, .	29	5·1	4·2	294	29	5·8	4·9	297	29	6·0	5·0	291	26	3·0	2·2	268	25	4·0	2·5	234	28	5·3	4·2	252
2·1 ,, .	29	7·0	5·8	295	28	6·5	5·6	289	29	7·8	6·9	283	25	6·8	6·0	257	25	7·2	6·0	248	28	7·9	7·3	252
3·0 ,, .	28	10·4	8·9	284	27	9·0	7·9	289	27	10·0	8·8	287	25	9·9	8·4	266	22	11·9	10·7	259	24	10·2	9·7	257
3·6 ,, .	26	11·3	9·5	282	25	11·8	10·6	288	5	9.6	8·4	293	17	10·1	8·2	257	17	12·9	11·5	260	14	8·8	8·2	262
4·5 ,, .	25	12·5	10·7	286	23	13·3	12·3	287					09	9·8	7·0	244	8	12·4	10·1	258	7	10·9	10·0	254
5.4 ,, .	25	13.3	12·3	288	20	15·2	14·2	290					4	7·3	6·9	224	2	8·7	8.7	243	3	9.8	9.7	245
6·0 ,, .	22	14·3	13·5	284	20	16·1	15·1	290					1	2·0	2·0	360	1	10·0	10·0	230	1	1·5	1·5	250
7·2 ,, .	15	17.0	15.5	287	16	18.9	17.2	289					1	9·5	9·5	295					1	11.5	11.5	330
9·0 ,, .	6	23.5	20.5	279	4	27·3	25·7	288					1	12·0	12·0	320					1	13.0	13.0	290

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	IMPHAL TULIHAL				JABALPUR												JAGDALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·4	314	30	0·4	0·3	209	30	2·2	1·4	302	30	0·6	0·3	051	30	0·5	0·3	180	30	2·0	1·1	204
0·15 a. g.	26	2·9	0·4	238	30	5·0	1·7	201	30	6·3	4·3	298	30	7·6	4·1	007	30	5·7	5·0	207	29	5·5	3·4	212
0·3 a.m.s.l.																								
0·6 „					30	5·7	1·0	180	30	6·5	4·4	298	30	8·2	4·7	006	30	2·6	2·3	206	29	4·0	2·2	212
0·9 „	26	3·0	0·6	284	30	7·0	0·7	349	30	6·6	4·8	304	30	8·9	5·4	360	30	7·5	6·5	228	29	6·0	3·8	217
1·5 „	26	5·5	4·4	253	30	6·1	3·5	310	30	6·8	5·4	307	30	7·6	5·7	333	30	6·0	4·9	264	29	4·5	3·2	260
2·1 „	26	7·7	6·9	254	28	7·4	6·2	311	30	7·2	6·1	307	29	7·0	5·8	308	30	5·0	3·6	313	27	4·8	3·4	287
3·0 „	16	9·3	8·3	269	27	9·1	7·9	300	29	7·3	6·1	299	24	7·9	6·2	294	29	6·3	4·3	341	26	5·9	4·2	325
3·6 „	8	11·4	9·0	268	24	9·7	8·6	295	29	8·3	6·9	299	20	7·9	6·6	283	27	7·3	5·7	344	21	6·8	5.5	347
4·5 „	1	9·0	9·0	265	22	11·2	9·1	296	28	9·9	9·0	302	8	7·9	7·6	284	20	9·1	7·0	355	20	7·6	5.7	353
5·4 „					12	9·6	8·5	298	25	11.7	10·5	311	1	6·5	6·5	330	15	8.5	5·7	004	14	9·2	5·7	353
6·0 „					7	8·9	7·4	307	23	13·4	11·9	312					14	8·1	5·6	014	11	10·3	6·6	345
7·2 „					1	11·0	11·0	270	18	14·2	12·5	296					5	6·0	3·8	357	8	13·6	9·9	337
9·0 „									8	17·5	16·5	276					1	20·5	20·5	260	3	19·7	15·2	315

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	1·4	200	30	0·8	0·5	355	30	2·7	2·6	295	30	0·9	0·6	358	30	0·7	0·1	227	30	1·9	1·0	242
0·15 a. g.	30	7·7	6·5	208	30	5·8	1·8	347	30	5·5	4·9	289	30	7·5	4·2	317	30	3·3	1·4	263	30	3·0	1·3	247
0·3 a.m.s.l.																	30	3·4	1·7	251	30	3·0	1·4	247
0·6 „	30	5·5	4·7	204	30	6·5	1·7	318	30	5·7	5·1	291	30	7·8	4·4	313	30	5·3	3·1	244	30	2·9	1·4	253
0·9 „	30	8·0	6·7	218	29	6·5	4·2	298	30	6·1	5·4	290	30	8·0	5·2	311	30	6·1	3·9	259	29	3·5	1·9	258
1·5 „	30	6·0	4·7	264	28	6·5	5·7	290	29	6·3	5·5	290	29	7·0	5·3	296	30	6·4	5·0	289	28	5·1	4·2	279
2·1 „	30	5·7	4·3	301	28	7·6	6·5	284	29	6·5	5·6	289	28	6·4	5·1	286	30	7·9	7·1	297	20	6·9	5·9	282
3·0 „	28	6·5	5·1	341	27	9·1	7·0	274	28	7·4	6·6	283	28	8·9	7·0	277	25	10·0	9·4	291	4	7·5	7·3	271
3·6 „	9	7·2	6·4	007	20	11·3	9·5	288	28	9·9	8·5	280	21	9·8	8·1	268	14	12·5	11·3	298				
4·5 „	2	8·2	8·1	350	12	11·9	10·6	290	26	12·5	11·6	273	5	14·1	13·8	264	6	17·1	16·0	308				
5·4 „					2	10·5	10·2	305	24	14·4	13·3	278					2	15·5	15·5	295				
6·0 „					1	18.0	18·0	285	23	16·4	14·9	277												
7·2 „									11	20·0	18·8	277												
9·0 „									2	19·5	19·2	259												

TABLE —MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WIND

Winds up to 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	0·6	354	30	1·5	0·7	143	30	2·7	1·2	225	30	2·5	0·7	148	30	1·8	0·7	294	30	2·1	1·1	253
0·15 a.g. . .	30	5·1	1·5	350	30	4.6	1·5	151	29	4·5	2·9	243	30	6·4	1·3	201	30	7·1	4·1	306	30	4·5	2·3	249
0·3 a.m.s.l. .	30	5·2	1.7	347	30	3·8	1·6	138	29	4·5	3.1	237	30	5·3	1·0	172	30	5·7	3·3	313	30	4·2	2·4	259
0·6 ,, .	30	5·7	2·0	326	30	5·4	1·5	218	29	4·8	3·5	250	30	7·5	1·6	205	30	6·3	4·3	293	30	4·7	2·7	249
0·9 ,, .	30	5·6	2·5	304	30	6·3	2·1	253	29	4·4	3·4	263	30	6·8	1·9	251	30	6·0	4·1	288	30	4·8	3·0	260
1·5 ,, .	29	5·9	4·1	289	30	6·4	3·5	275	29	5·5	4·7	290	30	5·5	3·6	285	30	6·3	5·4	273	30	6·2	4·7	260
2·1 ,, .	25	7·1	6·2	286	30	7·3	5·1	301	27	6·9	6·1	299	28	5·7	4·4	298	30	6·6	5·5	259	30	7·1	5·5	268
3.0 ,, .	19	8·8	8·3	289	26	9·4	7·9	302	25	8.4	7·4	305	25	6·9	5·9	305	30	9·3	7·9	253	26	7·9	6·7	263
3.6 ,, .	15	9·3	8·6	286	20	10·6	9·2	309	23	8·4	7·4	309	5	9·8	9·3	312	29	9·8	8·7	273	26	9·1	7·7	258
4·5 ,, .	10	12·7	12·3	300	8	9·3	8·3	311	20	10·3	9.3	311					29	12·0	10·2	274	26	10 9	8·7	256
5·4 ,, .	4	14·4	14·3	318	1	7·0	7·0	360	13	13·1	11·9	307					29	14·2	12·0	275	25	13·3	11·8	264
6.0 ,, .	2	13·7	13·6	314	1	11·5	11·5	320	11	13·9	12·7	307					29	15·3	13·7	270	24	14·8	13·8	264
7·2 ,, .									7	13·3	12·9	286					27	19·4	17·4	270	22	18·3	16·7	267
9·0 ,, .									2	16·7	16·7	298					18	27·1	24·0	272	16	22·7	21·3	264

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·9	2·9	265	30	1·8	1·1	270	30	2·8	0·4	140	30	5·1	3·5	310	30	2·8	0·8	360	30	2·7	2·7	177
0·15 a.g. . .	30	6·1	4·5	285	30	10·4	6·1	258	30	7·8	2·1	036	30	5·5	3·2	306	30	9·3	4·2	356	30	5·2	4·9	189
0·3 a.m.s.l. .	30	5·8	4·3	284	30	8·7	5·2	254	30	8·1	2·2	037	30	5·5	3·5	300	30	9·6	4·2	353	30	6·1	6·0	189
0·6 ,, .	30	6·1	4·9	273	30	10·9	6·4	264	30	9·0	1·7	356	30	6·7	4·6	298	30	8·9	4·5	345	30	7·2	6·9	190
0·9 ,, .	30	6·5	5·7	263	30	9·8	6·8	260	30	8·3	3·2	314	29	6·6	4·7	298	30	8·3	4·7	324	30	6·1	5·7	190
1·5 ,, .	30	6·4	5·6	260	30	9·1	7·3	266	30	9·0	6·5	310	27	6·6	5·8	294	28	7·1	5·8	300	30	4·5	3·4	143
2·1 ,, .	30	6·6	5·5	264	25	8·0	7·1	262	28	11·1	9·8	304	26	8·0	7·6	290	25	8·4	6·5	300	30	5·8	4·2	080
3·0 ,, .	30	7·2	6·3	265	21	7·0	6·1	258	20	11·4	9·9	301	24	11·4	10·4	298	14	8·4	7·5	299	30	8·4	6·7	058
3·6 ,, .	30	9·4	8·3	263	10	7·5	6·2	250	17	12·8	10·2	300	23	14·5	13·3	298	6	10·5	10·1	300	30	10·2	7·8	055
4·5 ,, .	30	11·5	10·4	264					8	14·4	12·2	325	20	16·0	14·7	300					30	8·6	7·1	052
5·4 ,, .	30	13·7	12·1	272					2	11·3	10·2	319	17	18·2	16·9	305					30	8·3	7·1	055
6.0 ,, .	30	15.1	13.7	273					1	12·0	12·0	340	15	18·9	17·3	306					30	9·3	7·1	042
7·2 ,, .	29	19·3	17·2	272					1	14·0	14·0	340	8	19.1	16·3	299					30	9·1	6.1	021
9·0 ,, .	26	26·7	24·2	277									2	17·3	17·1	268					29	9·4	3·9	300

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea evel

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·5	2·7	168	30	5·7	5·3	143	30	4·1	3·8	146	30	0 7	0·5	068	30	4·6	4·4	272	30	1·1	0·5	325
0·15 a. g.	30	5·1	4·4	180	30	6·6	6·3	145	30	8·0	7·8	156	30	3·3	2·0	047	30	7·9	7·5	274	30	4·1	3·4	321
0·3 a.m.s.l.	30	5·4	4·9	188	30	6·1	5·8	154	30	8·7	8·5	160	30	3·3	1·7	028	30	8.1	7·6	273	30	4·4	3·9	320
0·6 ,,	30	5.5	5·0	192	30	5·0	4·4	166	30	8·1	7·8	167	30	3·5	2·1	322	30	6·0	5·4	282	30	4·9	4·3	318
0·9 ,,	30	5·1	4·6	198	30	3·7	2·8	172	30	5·3	4·8	176	30	3·1	1·4	301	30	3·9	3·0	286	29	4·4	3·5	316
1·5 ,,	29	4·6	2·3	147	29	4·3	2·3	106	30	4·3	2·6	124	30	4·0	1·4	003	26	3·2	2·0	033	28	3·7	0·7	273
2·1 ,,	27	6·3	4·8	083	29	5·9	4·5	078	30	5·2	4·3	079	28	5·2	2·1	077	24	5·1	4·2	052	26	4·5	2·2	056
3·0 ,,	19	10·0	9·3	060	30	8·2	7·1	054	29	8·1	7·2	051	24	8·3	7·7	069	20	9·0	8·4	070	21	9·2	8·5	079
3·6 ,,	18	11 1	10·3	051	30	8·7	7·7	051	25	9·6	8·6	018	22	11·3	10·6	065	18	11·1	10·6	068	10	11·1	10·7	073
4·5 ,,	16	8·9	7·2	062	30	8·4	6·9	039	19	8·7	7·7	044	18	10·8	9·9	062	11	8·9	7·7	063	6	10·3	10·1	055
5·4 ,,	13	7·7	4·0	038	30	7·5	5·6	044	10	9·1	8·6	051	16	8·8	6·9	059	10	7·0	6·0	052	1	18·0	18·0	045
6·0 ,,	11	8·4	4·5	053	30	8.3	5.8	036	6	9·7	7·5	034	16	9·0	6·4	051	9	6·1	4·4	049				
7·2 ,,	9	8·2	1·1	026	30	8·0	4·5	026					10	6.8	3·5	049	8	7·9	4·7	057				
9·0 ,,	6	9·3	5·0	186	30	8·0	2·6	336					6	6·8	1·5	295	4	8·9	6·6	019				

Station	MINICOY																NAGPUR/SONEGAON							
Time in I. S. T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	1·0	313	30	1·8	1·2	334	30	2·1	1·8	302	30	1·5	1·1	310	30	1·8	0·9	322	30	2·0	0·5	250
0·15 a. g.	30	3·3	2·1	323	30	3·3	2·2	327	30	3·4	2·8	301	30	3·1	2·3	313	30	5·9	1·5	295	30	3·9	1·0	291
0·3 a.m.s.l.	30	3·0	1·7	313	30	3·3	2·2	333	30	3·3	2·5	315	30	3·1	2·1	309								
0·6 ,,	30	3·2	1·5	316	30	3·1	1·3	339	30	3·3	1·9	321	30	3·0	1·4	306	30	6·1	1·7	287	30	3·9	0·9	266
0·9 ,,	30	3·1	0·1	036	30	3·5	0·7	029	30	3·2	0·8	348	30	2·9	0·4	091	30	6·5	2·6	288	30	3·7	1·2	264
1·5 ,,	30	5·0	4·3	092	28	4·6	3·5	082	30	4·2	3·1	075	30	4·7	4·1	082	30	5·7	2·9	302	30	4·4	2·0	276
2·1 ,,	30	7·7	7·4	081	28	6·4	6·2	079	30	6·9	6·4	078	29	7·8	7·4	079	30	5·3	3·3	304	29	5·3	2·8	284
3·0 ,,	27	9·6	9·3	078	25	9·2	9·0	073	30	9·5	9·1	069	28	8·9	8·3	075	30	5·8	4·1	307	29	6·5	4·4	288
3·6 ,,	24	10·7	10·3	074	23	8.8	8·3	071	30	9.5	8·9	069	14	8·1	7·5	076	30	6·5	5·0	304	30	7·5	5·3	303
4·5 ,,	21	8·5	7·8	085	21	9·5	8·8	072	30	7·5	7·0	075	4	8·0	6·5	101	30	7·1	5·1	305	28	8·2	6·0	323
5·4 ,,	13	7.5	6.7	070	18	8·6	8·0	080	30	8·8	7·9	068					30	8·4	6·0	323	24	11·3	8·9	326
6·0 ,,	9	7·9	6.6	073	18	8·2	7·3	075	30	8·9	7·8	075					30	10·1	8·0	326	24	13·3	11·0	328
7·2 ,,	4	7·3	6·0	071	13	7·6	5·9	082	30	8·1	6·0	033					30	12.7	10.3	321	20	15·9	13·3	322
9·0 ,,					7	8·8	5·4	096	30	8·1	5·5	101					28	16·1	13·5	305	16	17·6	15·2	294

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	1·5	300	30	1·8	0·6	263	30	2·9	1·1	005	30	4·5	1·8	320	30	2·8	1·6	317	30	3.2	1.3	355
0·15 a. g.	30	3·6	2·6	290	30	6·4	1·0	230	30	8·1	2·6	360	30	6·5	2·6	320	30	6·4	3·8	326	30	7·7	4·1	010
0·3 a.m.s.l.									30	4·2	1·9	343	30	5·9	1·8	335	30	3·9	2·6	326	30	5·9	2·8	018
0·6 ,,	30	3·8	2·7	284	30	6·6	1·3	270	30	7·7	2·2	351	30	6·9	2·7	290	30	6·1	4·0	320	30	8·5	4·7	357
0·9 ,,	30	3·8	2·7	281	30	6·1	2·0	292	30	7·3	2·6	340	30	6·7	2·4	298	30	6·2	4·3	310	30	7·5	4·0	338
1·5 ,,	30	4·3	3·2	298	30	5·6	3·1	309	30	7·5	5.1	313	29	7·3	3·9	300	30	6·7	5·2	305	30	6·7	5·4	290
2·1 ,,	30	4·3	2·8	301	30	6·2	4·1	309	30	9·0	7·0	302	28	8·2	6·5	292	30	7·0	6·1	295	27	8·1	6·8	273
3·0 ,,	30	5·2	4·2	302	29	6·3	4·3	300	30	11·3	9·9	295	28	10·9	9·2	282	30	8·2	5·0	303	21	8·7	7·8	273
3·6 ,,	30	6·0	4·9	304	23	6·5	4·6	302	30	13·1	11·6	289	27	12·2	10·0	284	30	10·3	9·5	287	5	9·3	8·6	255
4·5 ,,	30	7·4	6·2	346	12	5·2	3·3	305	30	14·7	13·2	283	25	14·3	12·7	278	30	14.4	13.5	285				
5·4 ,,	30	8·7	6·8	319	7	7·0	4·5	292	30	16·9	15·5	285	22	17·7	15·7	277	30	16.9	16.2	288				
6·0 ,,	30	9.1	7.1	310	3	6·2	2·5	195	29	17·3	16·4	285	21	19·2	17·6	280	29	16.9	15.9	289				
7·2 ,,	30	12·4	9.8	316	1	6·5	6·5	225	29	20·5	19·3	286	8	20·7	15·4	284	29	19·6	18·6	290				
9·0 ,,	30	15·5	13·1	315					28	25·6	23·6	287	5	25·5	23·0	304	29	26.3	25.2	287				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.1	0·1	270	30	2·0	1·7	284	30	0·4	0·4	270	30	0·5	0·1	047	30	2·8	2·6	073	30	1·2	1·0	068
0·15 a. g.	30	3·2	3·0	277	30	5·9	4·8	293	30	5·0	4·5	279	30	2·5	1·9	059	30	4·5	4·2	073	30	3·6	3·3	072
0.3 a.m.s.l.													30	2·6	2·0	059	30	4·5	4·1	071	30	3·6	3·3	072
0·6 ,,	30	1·9	1·7	251	30	3·7	2·7	292	30	2·4	2·1	262	30	3·3	2·6	072	30	4·3	3·5	075	30	3·7	3·2	072
0·9 ,,	30	4·7	4·0	309	30	5·6	4·6	294	30	6·4	6·0	294	30	3·6	2·7	086	30	3·9	2·9	085	30	3·6	2·8	061
1·5 ,,	30	7·8	5·6	351	30	5·3	4·0	307	30	9·1	8·2	325	30	4·4	3·5	108	24	4·0	3·3	102	30	3·2	2·5	083
2·1 ,,	30	6.8	3·4	004	30	4·9	2·3	325	30	7·0	4·3	349	30	4·5	4·0	110	23	4·7	4·2	112	29	4·1	3·5	108
3·0 ,,	28	6·0	1·5	090	29	5·6	1·8	037	29	6·2	2·8	071	30	4·1	2·9	112	20	4·1	2·8	120	28	3·6	1·9	098
3·6 ,,	26	5·4	1·7	119	28	6·1	3·1	060	28	6·6	3·2	086	28	3·6	2·0	112	14	4·2	2·7	117	28	4·0	1·6	086
4·5 ,,	13	6·0	3·3	082	27	7·0	3·7	045	8	6·7	2·7	110	27	4·2	1·4	142	10	4·3	1·9	054	27	4.2	1·2	079
5·4 ,,	10	6·3	5·5	053	25	8·6	4·8	004	3	7·8	2.9	028	26	4·8	1·2	198	7	5·7	3·1	047	27	4.6	0.3	292
6·0 ,,	7	9·6	7·3	035	24	10·7	5·9	355	1	4·5	4·5	170	25	6 0	1·1	272	7	5·7	2·2	038	27	5.0	0·4	296
7·2 ,,	3	12·7	10·0	039	21	14·0	5·9	346					25	7·3	2·4	323	6	7·4	4·7	046	22	6.3	1.5	272
9·0 ,,	1	5·5	5·5	080	12	15·0	11·0	285					24	7·7	3·8	272	1	10·5	10·5	056	14	8·5	3·3	277

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·3	1·2	060	30	1·8	0·8	223	30	2·8	1·6	275	30	7·2	1·0	178	30	3·5	2·8	088	30	3·7	2·7	106
0·15 a. g. .	30	2·8	2·3	060	30	6·4	2·4	250	30	4·8	2·9	265	30	7·0	1·7	212	29	8·2	6.9	095	30	6·9	5·3	111
0·3 a.m.s.l. .	30	2·6	2·6	067													29	9·4	7·8	100	30	7·2	5·6	112
0.6 „ . .	30	3·3	3·0	071	30	7·7	4·1	256	30	5·1	3·2	266	30	6·9	2·8	231	29	8·9	5·6	111	30	6.6	5.5	113
0·9 „ . .	28	3·5	2·9	084	30	7·7	4·8	266	30	5·1	3·7	276	30	6·5	3·2	267	29	7·8	3·2	129	30	6·4	5·0	120
1·5 „ . .	26	3·9	3·3	103	30	6·4	5·0	283	30	5·2	4·3	281	30	6·1	4·9	292	28	6·8	1·3	225	23	5·9	1·3	125
2·1 „ . .	21	4·7	3·6	112	30	6·7	5·4	292	30	5·7	5·0	286	29	5·9	4·2	299	26	7·8	4·5	278	12	8·0	4·6	086
3·0 „ . .	19	3·5	2·6	095	27	7·3	6·4	300	30	6·7	6·0	295	28	6·2	5·0	313	18	10·2	8·7	284	3	6·8	6.6	270
3·6 „ . .	5	5·6	0·5	194	23	8·6	7·1	306	28	7·9	6·7	302	17	6·8	5·8	318	11	12·9	11·0	294				
4·5 „ . .	2	5·7	4·6	241	17	9·3	7·3	327	26	9·7	8·3	309	8	7·6	6·6	333	6	13·5	13.3	297				
5·4 „ . .					10	7·7	4·9	337	21	11·4	8·7	311	2	11·0	10·1	307	3	18·0	17·5	295				
6·0 „ . .					8	7·1	4·4	352	18	10·4	7·7	316					1	12·0	12·0	325				
7·2 „ . .					3	9·2	5·2	326	9	12·4	10·9	309					1	17·5	17·5	320				
9·0 „ . .					2	9·5	9·0	254	3	16·8	14·6	300												

Station	RAXAUL				SILIGURI/BAGHDOGRA																SRINAGAR			
Time in I.S.T.	1730				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·2	0·5	133	30	2·9	2·5	065	30	4·6	4·3	091	30	3·7	2·7	071	30	3·4	2·8	072	26	0·7	0·1	100
0·15 a.g. . .	30	4·6	0·3	166	29	5·8	5·7	073	30	6·1	5·8	090	30	4·7	3·3	076	28	5·7	4·7	080	26	1·8	0·2	089
0·3 a.m.s.l. .	30	4·9	0·4	177	29	5·8	5·7	077	30	6·1	5·8	089	30	4·7	3·4	075	28	5·7	4·6	085				
0·6 „ . .	30	4·9	0·7	222	29	6·2	6·0	085	30	4·8	4·5	089	30	4·7	2·7	085	27	6·1	5·1	087				
0·9 „ . .	30	5·6	1.2	236	28	5·8	5·3	088	30	6·2	4·9	090	30	5·3	1·9	108	27	5·1	4·4	090				
1·5 „ . .	30	5·7	2·3	254	23	4·4	1·7	113	26	5·2	3·1	098	25	5·0	1·0	203	24	5·2	0·7	250				
2·1 „ . .	29	6·7	3·8	273	20	7·1	1·9	281	19	6·4	1·5	209	24	6·3	3·5	257	22	8·1	2·9	260	26	1·9	0·3	127
3·0 „ . .	20	7·9	5·9	279	14	8·6	4·6	276	15	6·1	2·5	274	21	6·9	5·5	280	14	5·9	2·9	275	25	3·2	2·3	148
3·6 „ . .	16	9·9	8·1	293	8	5·9	1·7	293	1	7·0	7·0	080	16	6·9	5·5	290					25	4·8	2·7	166
4·5 „ . .	8	9·3	7·7	305	5	4.5	2.0	334					12	8·4	6·9	290					26	8·1	4·7	229
5·4 „ . .	4	11·4	10·5	302	2	5·0	4·1	041					7	11·1	10·5	290					26	11.0	9·0	254
6·0 „ . .	1	9·0	9·0	305	1	8·0	8·0	360					4	5·5	5·1	317					26	13·6	11·3	262
7·2 „ . .	1	18·5	18·5	295	1	10·0	10·0	360					3	7·3	7·0	320					26	18·1	15·2	266
9·0 „ . .																					23	28·0	25·7	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	SRINAGAR				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	1730*				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	25	1·4	1·1	302	30	2·0	0·5	141	30	4·2	3·8	130	30	3·9	3·	141	30	1·0	1·0	014	30	2·2	1·8	296
0·15 a. g. .	25	2·6	2·1	318	30	3·3	1·5	182	30	5·4	4·9	131	30	6·7	5·5	149	30	4·3	4·1	346	30	3·8	3·2	293
0·3 a. m. s. l.					30	3·7	2.8	183	30	5·6	5·0	131	30	7·0	5·6	151	30	4·3	3·9	341	30	4·0	3·4	293
0·6 „ .					30	4·7	3·4	183	30	5·0	4·4	127	30	8·2	6·7	151	30	3·7	3·3	325	30	3·2	2·7	301
0·9 „ .					30	4·7	3·6	180	30	4·4	3·9	128	30	7·2	6.0	147	30	3·6	2·4	342	29	2·9	1·9	329
1·5 „ .					29	3·4	1·8	154	30	3·4	2·6	120	30	3·9	1·7	107	30	4·4	2·7	071	15	4·4	3·1	063
2·1 „ .	25	2·8	1·8	313	29	6·4	5·6	077	30	4·6	3·7	069	30	5·5	4·4	074	30	6·5	6·0	066	8	8·3	7·9	082
3·0 „ .	24	3·8	2·6	146	28	10·3	9·4	059	27	9·1	8·6	052	29	9·9	9·4	062	30	10·7	9·5	066	1	5·0	5·0	120
3·6 „ .	24	5·4	4·4	177	28	10·6	9·4	053	26	9·9	9·4	051	28	11·2	10·3	053	30	10·1	9·2	059	1	3·5	3·5	045
4·5 „ .	23	7·1	5·3	216	25	9·9	8·5	055	19	8·0	7·3	055	27	9·7	8·4	053	30	7·4	5·7	072	1	2·0	2·0	045
5·4 „ .	22	10·0	7·4	240	22	8·3	6·6	057	16	8·2	7·0	055	13	8.6	8·0	065	30	6·9	5·7	071	1	4·5	4·5	075
6·0 „ .	22	12·6	10·2	249	19	7·6	6·0	057	15	7·5	6·6	052	7	11·8	10·8	058	30	7·8	6·0	053	1	9·0	9·0	110
7·2 „ .	20	21·9	15·9	273	15	9·1	5·5	054	10	7·8	4.4	056					30	7·1	4·9	063	1	13·5	13·5	115
9·0 „ .	16	26·5	23·0	275	10	7·1	2·3	340	9	8·0	2·5	351					29	8·0	3·3	101				

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
ime, n I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·6	1·8	265	30	1·3	0·7	338	30	0·8	0·7	295	30	1·9	1·3	270	30	1·1	1·0	245	30	0·5	0·3	051
0·15 a. g. .	30	4·8	3·9	274	30	3·5	2·2	306	30	3·8	3·3	305	30	4·7	3·3	284	30	5·6	4·8	245	30	2·9	1·2	003
0·3 a. m. s. l.	30	4·8	3·9	270	30	3·6	2·5	301													30	3·5	1·5	334
0·6 „ . .	29	4·5	3·2	265	30	4·2	3·0	291													30	4·4	2·3	329
0·9 „ . .	29	3·5	1·4	270	29	3·6	1·8	305	30	5·7	4·5	307	30	5·0	4·0	289	30	6·4	5·0	282	28	5·1	3·5	335
1·5 „ . .	29	5·0	4·3	058	23	4·4	3.1	048	30	6·5	4·7	288	30	5·1	3·5	275	30	6·9	5·8	297	20	6·5	4·1	356
2·1 „ . .	29	8·1	7·8	063	21	8·2	7.5	061	30	5·3	4·3	268	30	5·3	4·6	276	29	5·5	3·8	289	17	4·4	2·3	051
3·0 „	29	9·9	9·5	061	19	10·3	9·8	068	28	7·5	5·3	257	29	5·9	5·4	270	26	5·1	2·9	256	16	6·3	4·5	087
3·6 „ .	28	8·4	7·8	066	10	9·0	8·5	070	27	7·8	6·6	260	28	5·8	5·5	266	13	4·9	4·5	264	1	5·0	5·0	130
4·5 „ .	28	6·4	5·6	078	3	8·2	6·9	086	23	9·4	8·1	267	27	8·4	7·2	264	4	7·6	4·9	250				
5·4 „ .	28	6·7	5·2	075	2	8·7	7·5	096	18	11·2	10·4	269	26	9·9	8·7	266	4	9·2	7·6	253				
6·0 „ .	28	7·4	5·6	063					16	11·7	11·0	273	23	11·3	10·1	273	4	9·9	7·6	260				
7·2 „ .	28	8·1	5·0	067					13	16·8	15·8	275	18	14·1	12·8	272	1	3·0	3·0	360				
9·0 „ .	27	8·2	6·0	063					9	20·9	18·3	272	4	16·6	16·2	265								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·8	2·4	273	30	0·7	0·7	315	30	4·0	3·3	330	30	7·2	6·6	272	30	4·9	4·3	303	30	2·2	1·7	134
0·15 a.g. .	30	5·2	4·7	274	30	3·5	2·7	326	29	9·2	8·3	324	30	9·8	9·1	281	30	9·4	8·7	305	30	5·0	4·4	174
0·3 a.m.s.l. .	30	5·7	4·8	277	30	4·2	3·4	330	29	10·3	9·4	320	30	9·3	8·6	286	30	10·6	9·8	309	30	7·0	6·6	186
0·6 ,, . .	30	4·8	3·1	285	30	4·9	3·7	332	28	9·7	9·0	318	29	7·2	6·3	302	29	9·8	9·1	312	30	8·1	7·8	191
0·9 ,, . .	29	3·9	2·4	305	27	5·4	3·9	331	28	8·0	7·0	315	29	5·8	5·0	306	28	7·7	6·8	312	30	7·4	7·1	190
1·5 ,, . .	24	4·3	2·4	003	25	4·7	3·0	344	28	6·2	3·9	313	29	5·5	3·9	320	28	6·4	4·3	311	28	4·4	2·5	183
2·1 ,, . .	23	4·6	3·0	045	21	5·0	3·2	070	27	6·1	3·9	276	29	5·9	3·7	305	27	6·4	3·4	291	25	4.5	2·1	048
3·0 ,, . .	22	6·2	4·7	070	18	7·4	6·0	085	25	8·0	5.2	241	29	6·6	4·8	275	27	7·4	4·4	257	24	7·2	5·7	025
3·6 ,, . .	22	7·3	5.4	069	6	5·7	4·7	089	13	7·2	4·8	242	27	7·3	4·7	260	11	5·7	3·3	247	22	8·8	6·9	017
4·5 ,, . .	20	8·5	6.5	054					8	5·6	2·7	254	27	6·7	4·0	270	9	6·6	3·5	235	21	9·0	6·7	022
5·4 ,, . .	19	9·0	5.5	051					7	5·9	4·2	294	27	8·8	5·1	282	3	6·0	3·1	230	17	10·8	8.6	020
6·0 ,, . .	19	8·8	4·6	052					3	6·7	6·3	252	27	10·3	6·8	283	3	8·5	4·5	219	17	11·1	8·4	024
7·2 ,, . .	14	7·5	1·9	341									25	13·6	9·1	278					14	12·1	7·9	352
9·0 ,, . .	6	9·1	4·7	253									11	16·2	10·6	283					10	12·3	9·0	309

Station	VIJAYAWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·3	3·9	161	30	3·3	2·8	168	30	5·2	5·1	265	30	5·7	5·3	219	30	5·3	4·9	267	30	3·4	2·9	225
0·15 a.g. .	30	4·9	4·6	169	30	6·7	6·2	174	29	9·3	9·0	269	30	6·8	6·6	211	30	8·8	8·1	251	30	5·5	5·3	224
0·3 a.m.s.l. .	30	5·1	4·9	168	30	7·7	7·2	175	29	9.2	8·9	260	30	7·1	6·9	218	30	9·3	9·0	242	30	6·7	6·5	230
0·6 ,, . .	30	4.4	4.1	169	30	7·5	7·0	179	29	8·8	7·9	240	30	6·3	6.1	238	30	9·8	9·6	237	29	7·1	6·7	239
0·9 ,, . .	30	3·2	2·2	175	30	4·7	4·0	182	29	8·0	7·5	242	30	5·6	5.3	245	30	8·4	8·2	244	26	6·2	5·3	249
1.5 ,, . .	30	3·8	0·8	278	30	3·7	0·2	134	29	5·0	3·1	260	29	5·1	3·4	262	30	4·4	2·9	270	22	3·6	1·3	252
2·1 ,, . .	30	4·7	2·2	030	30	5·3	2·0	030	27	4·1	1·8	320	28	4·1	1·7	321	30	5·1	3·0	334	22	3·5	1·9	008
3·0 ,, . .	30	6·8	5·2	033	30	7·6	5·2	031	27	5·8	4·1	005	24	5·5	3·9	005	29	6·3	5·2	358	21	6·2	4·4	013
3·6 ,, . .	30	7·5	5·6	030	21	7·9	5.7	033	25	6.8	5·2	010	23	7·1	5·7	009	29	6·7	5·1	358	13	7·6	6·4	003
4·5 ,, . .	30	8·4	5·8	032	18	9·0	7·2	028	25	8·2	6·0	005	19	9·4	6·9	010	28	7·8	6·1	007	9	6·4	4.8	332
5·4 ,, . .	30	8·8	5·5	010	14	9·7	7·0	026	23	8·6	6·7	356	16	8·5	5·1	357	27	8·2	5·4	353	3	9·7	9·0	350
6·0 ,, . .	28	10·3	7·3	001	11	9·5	7·2	027	23	9·3	7·1	357	16	8·9	5·1	346	27	9·1	6·1	343				
7·2 ,, . .	26	12·2	8·9	335	2	7·5	7·5	256	23	11·8	8·7	335	14	11·0	7·7	333	24	12·9	7·9	326				
9·0 ,, . .	21	11·8	8·6	308					19	12·9	8·2	290	10	13·7	10·9	287	22	14·4	10·0	304				

TABLE B—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	24	23·8	20·0	276
12·0	23	28·5	22·3	275
14·1	16	26·4	21·4	267
16·2	5	12·9	5·2	241
18·0	2	8·5	7·7	151
	1730 hr.*			
10·5	26	24·8	19·6	275
12·0	24	29·2	25·9	267
14·1	15	22·8	17·9	278
16·2	7	19·6	14·5	247
18·0	4	10·0	3·0	157
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	1	24·5	24·5	265
	1730 hr.*			
10·5	12	29·6	27·5	282
12·0	5	32·6	28·1	283
14·1	2	29·5	29·5	270
	ANANTAPUR			
	0530 hr.			
10·2	2	14·0	11·5	233
12·0	2	8·5	7·8	270
14·1	2	7·5	3·1	200
	ASANSOL			
	0530 hr.			
10·5	1	21·0	21·0	315
12·0	1	32·0	32·0	295
	1730 hr.			
10·5	5	20·8	17 4	297
12·0	5	22·0	18·0	255
14·1	1	15·5	15·5	265
	BAHRAICH			
	1130 hr.			
10·5	5	29·2	25·1	280
	1730 hr.			
10·5	1	22·5	22·5	340

Ht. in Km.	n	V	v	D
	BANGALORE			
	0530 hr.@			
10·5	18	7·9	2·7	300
12·0	15	6.9	2·6	290
14·1	12	7·7	1·3	360
16·2	6	7·7	5·9	077
18·0	3	4·7	3·7	176
21·0	1	11·0	11·0	270
	1130 hr.			
10·5	10	5·9	1·7	117
12·0	7	8·0	2·9	151
	1730 hr.@			
10·5	8	7·4	3·1	282
12·0	7	7·0	5·0	312
14·1	5	8·1	5·3	313
16·2	2	6·3	2·2	051
	BEGAMPET			
	0530 hr.			
10·5	7	13·4	12·1	305
12·0	6	11·3	10·2	290
14·1	2	13·7	10·2	240
16·2	2	11·5	9·1	273
18·0	1	22·0	22·0	245
21.0	1	8·0	8·0	010
24·0	1	10·0	10·0	340
	1730 hr.			
10·5	3	16·3	14·7	321
12·0	3	16·0	11·4	297
14·1	2	11·7	11·7	263
16·2	2	14·7	13·6	231
18·0	1	5·5	5·5	095
	BHAGALPUR			
	0530 hr.			
10·5	1	23·0	23·0	240
	BHOPAL/ BAIRAGARH			
	0530 hr.			
10·5	9	19·9	16·1	283
12·0	9	24·9	19·1	281
14·1	3	20·8	18·1	275
	1730 hr.			
10·5	8	18·4	17·1	270
12·0	3	22·8	21·6	258

Ht. in Km.	n	V	v	D
	1730 hr.			
14·1	2	28·0	27·5	251
16·2	2	32·3	30·9	264
18·0	2	27·5	26·3	249
21·0	2	44·5	43·1	251
	BHUJ/RUDRAMATA			
	1730 hr.			
10·5	1	24·5	24·5	295
	BOMBAY/SANTA CRUZ			
	0530 hr.*			
10·5	20	17·5	13·3	264
12·0	17	19·3	17·4	261
14·1	7	21·3	18·9	265
16·2	2	11·1	8·5	240
18·0	1	3·5	3·5	060
	1130 hr.			
10·5	5	20·4	17·0	267
12·0	3	22·2	18·5	248
14·1	2	22·5	18·3	220
16·2	1	30·0	30·0	250
	1730 hr.*			
10·5	26	16·8	13·1	259
12·0	20	17·6	15·1	261
14·1	5	15·4	11·0	266
16·2	1	8·0	8·0	065
	CALCUTTA/DUM DUM			
	0530 hr.*			
10·5	30	24·6	22·5	278
12·0	30	27·1	25·6	280
14·1	27	22·5	21·5	280
16·2	26	18·2	16·6	270
18·0	18	13·3	10·2	276
21·0	9	8·8	6·6	285
24·0	1	4·5	4·5	070
27·0	1	4·0	4·0	195
	1130 hr.			
10·5	1	33·0	33·0	280
12·0	1	33·0	33·0	285
	1730 *			
10·5	29	24·5	22·8	285
12·0	29	26·3	24·1	285
14·1	23	22·0	18·7	280
16·2	19	16·6	14·6	281

Ht. in Km.	n	V	v	D
	1730 hr.*			
18·0	8	12·6	12·0	290
21·0	3	9·0	3·7	007
24·0	1	10·0	10·0	160
	GADAG			
	1730 hr.			
10·5	9	11·1	7·6	305
12·0	7	13·1	8·9	295
14·1	5	13·6	13·0	278
16·2	4	9·7	9·3	275
18·0	3	5·7	3·1	336
21·0	2	4·0	3·3	170
24·0	1	7·0	7·0	270
	GAUHATI			
	0530 hr.*			
10·5	6	22·2	18·4	296
12·0	5	21·4	19·0	301
14·1	4	14·7	10·0	263
16·2	2	23·5	22·5	264
	1130 hr.			
10·5	5	14·9	9·7	268
12·0	3	24·8	24·0	278
14·1	2	27·7	27·2	268
	1730 hr.*			
10·5	12	24·1	18·9	288
12·0	10	20·1	18·5	278
14·1	6	20·5	18·5	273
16·2	2	12·5	12·5	282
18·0	1	7·5	7·5	175
	GOPALPUR			
	1730 hr.			
10·5	9	13·6	12·7	295
12·0	7	14·5	12·1	298
14·1	5	17·6	13·4	308
16·2	4	18·6	9·4	332
18·0	2	17·0	16·0	104
21·0	1	12·5	12·5	080
	GWALIOR			
	1130 hr.			
10·5	3	20·5	19·6	284
12·0	1	31·0	31·0	270
	1730 hr.			
10·5	1	22·0	22·0	250
12·0	1	20·5	20·5	240

Ht. in Km.	n	V	v	D
	IMPHAL/TULIHAL			
	1730 hr.			
10·5	1	8·5	8·5	295
12·0	1	11·0	11·0	330
14·1	1	12·0	12·0	325
	JABALPUR			
	1730 hr.			
10·5	2	14·3	13·9	276
	JAIPUR SANGANER			
	1730 hr.			
10·5	1	11·0	11·0	285
	JODHPUR			
	0530 hr.*			
10·5	13	31·8	29·9	268
12·0	12	32·7	30·2	261
14·1	6	38·7	36·7	259
16·2	5	24·9	23·4	265
	1130 hr.			
10.5	10	29·1	28·0	268
12.0	2	32·0	29·5	276
	1730 hr.*			
10·5	19	27·8	26·2	270
12·2	16	35·0	33·0	270
14·1	5	41·7	39·7	269
16.2	2	39·0	38·6	278
	MADRAS MINAMBAKKAM			
	0530 hr.*			
10.5	28	7·5	4·6	260
12·0	27	7·4	3·5	270
14·1	24	8·7	4·3	328
16·2	19	9·2	5·3	085
18·0	15	8·0	6·0	090
21·0	7	8·9	5·9	270
24·0	3	5·5	5·4	250
	1130 hr.			
10.5	6	6·3	2·4	254
12·0	2	4·3	3·3	008
14·1	1	18·0	18·0	335

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 Km. above mean sea level

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Ht. in Km.	n	V	v	D
	MADRAS/ MINAMBAKKAM			
	1730 hr.*			
10·5	30	7·7	2·4	282
12·0	29	7·6	3·1	262
14·1	27	8·9	3·3	009
16·2	25	8·6	4·4	087
18·0	15	8·8	5·5	096
21·0	7	4·2	0·5	208
24·0	3	8·7	7·0	288
	MANGALORE/ PAJPE			
	0530 hr.			
10·5	2	3·5	2·7	315
12·0	1	5·5	5·5	060
	1730 hr.			
10·5	2	5·7	3·0	316
12·0	1	7·0	7·0	290
	MINICOY			
	1130 hr.			
10·5	5	11·8	6·4	119
12·0	3	12·2	11·0	136
14.1	2	7·3	2·5	191
16·2	1	20·0	20·0	080
18·0	1	13·0	13·0	060
	1730 hr.			
10·5	29	7·6	4·8	120
12·0	29	9·2	3·7	103
14·1	28	9·5	8·9	100
16·2	25	12·8	9·5	096
18·0	18	10·2	4.0	096
21·0	10	9·7	8·3	282
24·0	6	12·6	11·6	277
	NAGPUR			
	0530 hr.*			
10·5	20	19.5	17·0	289
12·0	13	22·9	19·6	280
14·1	4	16·9	16·5	273
16·2	1	8·0	8·0	285
	1130 hr.			
10·5	13	18·5	16·2	275
12·0	6	22·2	21·4	267
14·1	2	9·0	9·0	307

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	24	19•2	17·1	303
12·0	14	18·3	16•9	290
14·1	5	20·8	20·4	291
16·2	1	25·0	25·0	275
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	27	29·3	27·2	281
12·0	25	35·0	33·6	279
14·1	23	36•5	35•0	276
16·2	18	24·3	23•3	274
18·0	16	16·3	15·1	268
21·0	10	7·4	5·4	280
24·0	9	7•9	4•1	075
27·0	3	10·5	9·6	054
30·0	1	6·5	6·5	245
	1730 hr.*			
10·5	28	31·3	29·6	283
12·0	27	37·8	35•0	284
14·1	26	37·1	34·6	285
16·2	23	22·5	21·5	280
18·0	22	16·0	11·8	270
21·0	18	7·2	0·7	281
24.0	13	6•9	2·1	300
27·0	6	5·9	1·2	333
30.0	1	5·0	5·0	360
	POONA			
	0530 hr.			
10·5	1	5·0	5·0	165
12·0	1	7·0	7·0	195
	1730 hr.			
10·5	7	15·0	10·9	271
12·0	3	17·3	15·5	258
14·1	1	9·5	9 5	120
16.2	1	13·5	13·5	095
18.0	1	7·5	7·5	110
	PORT BLAIR			
	0530 hrs.*			
10·5	18	8·4	5·8	242
12·0	15	7·8	6·5	257
14·1	10	6·1	2·5	293
16.2	7	6·1	2·7	062
18·0	2	4·0	3·6	087

Ht in Km.	n	V	v	D
	0530 hr.*			
21·0	2	4·8	3·6	309
	1730 hr. *			
10·5	6	6·6	1·9	277
12·0	3	7·2	6·9	303
14·1	1	7·0	7·0	270
16·2	1	7·0	7·0	240
	RAIPUR			
	0530 hr.			
10·5	2	12·0	11·9	258
	1730 hr.			
10·5	1	27·5	27·5	315
	SRINAGAR			
	0530 hr.*			
10·5	12	31·7	30·1	272
12·0	6	33·7	32·8	286
14·1	2	41·3	39·7	279
	1730 hr.*			
10·5	13	29·4	23.9	278
12·0	5	33·4	32·9	265
	TIRUCHCHIRAP-PALLI			
	0530 hr.			
10·5	8	8·5	3·1	277
12·0	5	8·4	8·1	248
14·1	3	5·8	1·2	279
16·2	2	4·5	2·3	055
18·0	1	4·0	4·0	035
	1730 hr.*			
10·5	7	7·9	2·7	273
12·0	7	7·0	2·1	297
14·1	6	6·9	5·0	312
16.2	3	6·2	6·1	027
18·0	1	1·5	1·5	050
	TRIVANDRUM			
	0530 hr.*			
10·5	28	7·7	4·2	120
12·0	27	7·8	3·7	103
14·1	27	8·7	4·2	057
16·2	19	10·1	6·4	071
18·0	13	9·4	7·5	082

Ht. in Km.	n	V	v	D
	0530 hrs.			
21·0	6	7·3	6·9	270
24·0	2	10·0	10·0	273
	1730 hr.*			
10·5	27	7·9	3·1	098
12·0	26	7·9	3·6	090
14·1	24	9·2	5·9	046
16•2	22	9·6	7·3	091
18·0	14	9·8	3·4	103
21·0	9	11·3	4·9	299
24·0	1	7·0	7·0	253
	UDAIPUR			
	0530 hr.			
10·5	2	21·3	21·1	263
12·0	1	28·0	28·0	260
	1730 hr.			
10·5	1	29·0	29·0	275
12·0	1	37·0	37·0	270
	VERAVAL			
	1730 hr.			
10·5	6	20·9	14·8	260
12.0	5	22·1	17·6	260
14·1	3	15·3	6·8	262
16·2	1	9·0	9·0	145
	VIJAYAWADA/ GANNAVARAM			
	0530 hr.			
10·5	9	9·6	7·7	299
12·0	5	11·9	9·8	303
14·1	4	10·0	7·7	291
16·2	4	8·7	5·7	057
18·0	2	7·3	7·3	078
	1730 hr.			
10·5	19	11·5	9·3	283
12·0	16	10·9	9·3	288
14·1	5	12·7	12·0	298
16·2	2	3·5	1·7	024
18·0	1	2·5	2·5	090
21·0	1	2·0	2·0	145
	VISHAKHAPATNAM			
	[0530 hr.*			
10·5	17	13·3	9·8	271

Ht. in Km.	n	V	v	D
	0530 hr.*			
12·0	14	13·6	10·1	290
14·1	12	13·2	6·7	278
16.2	6	7·1	4·0	015
18·0	2	8·5	8·5	030
21·0	1	10·0	10·0	295
	1130 hr.			
10·5	8	14·9	13·0	284
12·0	4	13·7	11·9	268
14·1	2	11·7	8·7	258
16·2	1	10•0	10·0	140
18·0	1	9·0	9·0	135
	1730 hr.*			
10·5	19	14·1	12·5	284
12•0	16	15·8	12·5	280
14·1	12	12·8	8·7	287
16·2	10	10·7	6·5	265
18•0	3	6·0	5·5	322
21·0	2	5·0	3·0	260

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 115 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July, 1961	00 and 12	Fan type upto 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September, 1954	00 and 12	Clock type upto 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi /Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 hr G.M.T.

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (997 mb.)						ALLAHABAD/BAMHRAULI (993 mb.)						BANGALORE (908 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	299·2	302	294	288·6	30	098	297·5	303	293	285·9	30	921	295·3	298	292	292·4
1000	30	051	..	..	..	..	30	034	..	..	..	..	30	079	..	..	..	..
900	30	985	299·9	305	291	279·6	30	965	299·8	307	295	281·8	30	999	294·8	297	292	291·7
850	30	1487	297·2	302	287	275·2	30	1467	296·4	303	291	279·4	30	1496	293·8	298	291	286·6
800	30	2013	293·3	298	284	272·8	30	1992	292·4	293	286	277·2	30	2020	291·7	294	287	280·3
700	30	3146	284·6	289	278	266·4	30	3121	283·5	289	277	271·2	30	3151	283·6	287	279	274·0
600	30	4414	275·5	279	271	255·9	30	4385	274·6	281	268	262·1	30	4418	275·0	278	272	264·9
500	30	5862	265·5	269	262	..	30	5827	264·6	271	258	..	30	5874	268·0	272	263	..
400	30	7562	253·6	259	249	..	30	7523	253·3	262	246	..	30	7591	256·5	260	252	..
300	30	9640	239·1	246	232	..	30	9600	239·5	248	231	..	27	9689	241·4	247	235	..
250	29	10903	231·1	239	226	..	30	10863	232·9	240	224	..	26	10954	231·4	237	227	..
200	24	12383	221·0	227	214	..	29	12358	224·3	239	215	..	25	12430	220·2	225	212	..
175	22	13238	215·4	221	208	..	27	13219	218·0	228	210	..	23	13261	214·0	220	207	..
150	21	14206	210·2	215	204	..	26	14195	217·3	224	206	..	19	14222	206·7	213	201	..
125	19	15318	203·7	210	200	..	24	15318	207·3	218	199	..	16	15285	200·7	205	195	..
100	16	16629	197·9	205	193	..	18	16615	202·8	209	196	..	15	16597	197·1	200	191	..
80	7	17930	198·1	205	187	..	14	17948	202·0	209	194	..	11	18012	200·9	210	195	..
70	..	..	..	..	..	..	14	18749	203·7	211	197	..	8	18694	203·3	212	196	..
60	..	..	..	..	..	..	11	19665	208·1	216	201	..	6	19580	206·8	214	199	..
50	..	..	..	..	..	..	9	20751	213·7	222	201	..	5	20755	207·8	215	203	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1006 mb.)						CALCUTTA/DUM DUM (1004 mb.)						GAUHATI (1002 mb.)					
Surface	30	013	297·8	300	295	295·2	30	06	298·1	299	293	296·8	30	49	295·3	300	293	292·8
1000	30	061	..	..	..	..	30	045	..	..	..	..	30	065	..	..	..	..
900	30	990	298·8	304	295	280·4	30	968	296·8	303	291	287·5	29	981	292·7	298	288	286·5
850	30	1492	296·8	300	292	275·5	30	1468	294·2	301	288	282·5	29	1472	290·3	295	286	283·3
800	30	2019	293·5	296	289	274·6	30	19491	290·9	295	284	279·7	29	1987	287·3	292	284	280·0
700	30	3152	284·4	288	279	270·5	30	3113	282·1	281	267	274·3	29	3100	279·9	286	276	273·5
600	30	4421	275·3	279	273	264·0	30	4375	273·5	278	270	264·5	28	4351	272·2	278	268	267·3
500	30	5871	266·4	271	263	..	30	5814	264·9	272	260	..	26	5788	264·8	270	257	..
400	30	7579	254·9	261	251	..	30	7515	254·1	264	248	..	25	7483	254·1	258	250	..
300	30	9664	239·3	245	234	..	30	9604	241·1	249	233	..	18	9568	239·9	247	234	..
250	27	10922	230·4	235	227	..	30	10875	233·5	241	227	..	14	10838	232·1	239	223	..
200	26	12398	219·3	222	212	..	30	12373	223·7	232	216	..	11	12298	222·4	227	218	..
175	26	13251	213·0	219	203	..	30	13254	218·5	228	209	..	7	13193	217·9	221	210	..
150	26	14194	206·5	212	200	..	28	14202	212·5	222	206	..	7	14117	215·1	218	210	..
125	25	15302	200·6	206	192	..	27	15332	206·4	212	199	..	..	..	..	..	..	..
100	21	16570	196·3	201	191	..	25	16650	201·4	209	196	..	..	..	..	..	..	..
80	16	17853	197·9	203	192	..	21	17917	199·3	208	193	..	..	..	..	..	..	..
70	12	18646	200·7	211	192	..	18	18744	200·3	206	195	..	..	..	..	..	..	..
60	5	19523	203·0	206	199	..	15	19652	203·5	209	196	..	..	..	..	..	..	..
50	5	20629	209·8	215	205	..	12	20755	207·6	213	201	..	..	..	..	..	..	..
40	..	..	..	..	..	..	6	22117	210·0	216	205	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 hr. G.M.T.

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (980 mb.)						MADRAS/MINAMBAKKAM (1004 mb.)						NAGPUR/SONEGAON (970 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	213	281·1	304	294	281.1	30	015	305·0	307	303	297·2	30	311	299·8	305	295	280·
1000	30	041	..	..	..	..	30	049	..	..	..	..	30	044	..	..	..	..
900	30	972	301·1	305	295	279·0	30	974	298·9	303	293	284.9	30	998	302·0	307	296	281·
850	30	474	297·6	305	291	275·6	30	1485	296·1	299	292	279·5	30	1485	298·2	303	293	280·
800	30	1998	293·2	299	287	273·8	30	2012	293·1	296	288	276·4	30	2013	293·8	298	289	278·
700	30	3130	284·9	289	277	265.4	30	3147	285·0	287	281	271.7	30	3147	284·0	288	280	272·
600	30	4397	276·0	280	271	255·7	30	4418	276·6	281	273	263·4	30	4415	273·8	277	269	264·
500	30	5848	266·0	271	261	..	30	5876	268·5	273	265	..	30	5847	264·5	270	260	..
400	29	7552	254·3	258	249	..	30	7599	257·6	262	253	..	30	7546	253·7	266	249	..
300	25	9641	239·7	245	232	..	30	9713	242.6	248	235	..	30	9628	240·1	245	232	..
250	24	10865	232·8	237	227	..	30	10966	232.3	239	226	..	30	10896	230·8	237	233	..
200	23	12407	224·3	229	212	..	29	12461	220.1	229	215	..	30	12359	220·2	228	214	..
175	21	13276	219·8	225	212	..	29	13303	213.8	222	208	..	30	13190	214·5	222	209	..
150	20	14260	215·4	222	211	..	29	14264	206·9	216	200	..	30	14169	208·5	215	202	..
125	19	15404	209·3	220	203	..	27	15349	202·0	209	195	..	30	15279	204·0	210	199	..
100	18	16735	204·5	217	196	..	27	16672	197·3	204	187	..	30	16590	199·6	205	192	..
80	14	18076	206·5	208	202	..	21	17968	198.3	209	189	..	18	17910	199·7	211	190	..
70	11	18892	209·5	226	201	..	17	18790	200·0	207	191	..	16	18699	201·9	214	191	..
60	8	19842	215·6	220	207	..	13	19681	202·7	210	193	..	14	19642	205·4	221	197	..
50	6	21055	219·5	226	210	..	11	20785	206·3	215	196	..	12	20745	207·1	213	200	..
40	..	..	..	..	..	..	5	22106	206·4	211	200	..	7	23222	210.9	217	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (981 mb.)						PORT BLAIR (1000 mb.)						SRINAGAR (841 mb.)					
Surface	30	209	296·3	301	292	284·3	30	79	298·3	301	296	296·8	26	1588	281·1	286	276	281·
1000	30	041	..	..	..	..	30	078	..	..	..	..	26	136	..	..	..	..
900	30	966	299·3	305	294	279·1	30	1002	295·2	299	293	287·5	26	1028	..	..	..	..
850	30	1468	295·7	300	290	276.1	30	1497	295·9	296	289	282·8	26	1500	..	..	..	..
800	30	1989	291·7	296	287	274·7	30	2016	289·6	291	286	279·3	26	2001	280·8	283	274	278·0
700	30	3115	282·3	286	277	268·2	30	3140	283·0	285	280	270·9	26	3099	275·5	280	269	273·
600	30	4372	273·1	276	270	256·8	30	4406	276·1	279	272	262·5	26	4330	268·3	273	262	..
500	30	5805	263·0	271	260	..	30	5860	267·5	271	263	..	26	5740	258·6	262	247	..
400	30	7487	250·9	255	247	..	30	7575	256·6	263	252	..	25	7404	248·0	251	242	..
300	30	9539	236·1	244	230	..	28	9674	241·1	246	233	..	22	9415	233·8	239	228	..
250	30	10780	228·6	237	221	..	28	10937	231·1	236	225	..	16	10663	224·9	230	218	..
200	29	12267	220·9	228	213	..	27	12411	219·5	224	212	..	10	12136	218·7	227	212	..
175	28	13136	216·3	222	204	..	24	13255	213·0	219	206	..	7	12996	219·0	225	212	..
150	27	14069	212·6	219	205	..	22	14218	207·0	214	201	..	5	13993	217·0	222	211	..
125	26	15182	206·7	212	198	..	21	15298	202·0	209	195	..	..	..	..	..	..	..
100	25	16528	202·0	206	196	..	20	16570	198·0	207	193	..	..	..	..	..	..	..
80	25	17843	200·6	206	193	..	13	17938	197·2	205	193	..	..	..	..	..	..	..
70	25	18632	202·7	209	197	..	12	18733	199·0	207	192	..	..	..	..	..	..	..
60	23	19564	206·4	215	197	..	8	19666	201·7	212	194	..	..	..	..	..	..	..
50	19	20711	211·9	220	204	..	6	20721	205·1	214	199	..	..	..	..	..	..	..
40	15	22100	216·5	227	208	..	..	..	..	..	..	..	..	..	..	..	..	..
30	12	23942	221·7	237	212	..	..	..	..	..	..	..	..	..	..	..	..	..
20	7	26602	228·1	233	224	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 hr. G. M. T.

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1000 mb.)						VISHAKHAPATNAM (1003 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	064	299·8	302	298	297·6	30	041	300.1	302	298	296·5
1000	30	067	..	..	..	..	30	065	..	..	..	..
900	30	995	294.7	298	293	291·4	30	991	297·7	302	295	286·0
850	30	1490	292·2	295	288	287·7	30	1491	296·4	299	293	281·6
800	30	2010	289·5	293	285	283·5	30	2017	293·4	295	291	279·5
700	30	3138	282·9	287	277	273·8	30	3150	284·1	287	281	275·2
600	30	4399	276·1	279	272	264·8	30	4413	274·5	279	270	267·3
500	30	5855	267·9	272	262	..	30	5864	266·0	270	261	..
400	30	7572	256·8	263	249	..	30	7571	255·8	261	250	..
300	30	9680	241·7	247	234	..	30	9672	241·9	248	237	..
250	29	10944	231.5	239	223	..	29	10941	232·9	239	226	..
200	28	12419	219·2	225	211	..	29	12430	222·6	229	216	..
175	27	13255	212·7	219	205	..	27	13257	216·5	221	210	..
150	27	14211	206·2	213	197	..	27	14256	210·9	216	203	..
125	25	15310	199·3	207	191	..	25	15379	205·8	211	198	..
100	20	16610	195·8	202	191	..	24	16694	200·2	207	192	..
80	18	17878	196·6	204	189	..	16	17990	200·6	205	195	..
70	15	18673	202·5	214	194	..	16	18872	201·8	210	196	..
60	12	19564	207·2	218	197	..	16	19723	205·6	212	199	..
50	11	20670	210·8	219	201	..	15	20797	209·3	218	203	..
40	6	22057	214·8	220	207	..	8	22125	212·4	217	207	..
30							6	23884	216·8	219	211	..
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hr. G. M. T.

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (998 mb.)						ALLAHABAD/BAMHRAULI (991 mb.)						BANGALORE (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	312·9	316	309	285·8	30	098	311·2	316	300	284·5	30	921	306·1	308	301	288·6
1000	30	036	..	..	..	..	30	012	..	..	..	..	30	022	..	..	..	..
900	30	993	304·6	310	297	278·9	30	966	303·1	309	297	280·7	30	975	305·4	308	301	287·0
850	30	1501	299·5	305	292	276·4	30	1468	298·6	304	293	278·9	30	1485	300·4	303	297	282·7
800	30	2030	294·5	299	288	274·8	30	2000	294·1	299	289	276·7	30	2016	295.0	298	291	281·7
700	30	3168	285·9	291	283	266·5	30	3135	284·6	288	279	269·8	30	3155	284·9	287	281	277·6
600	30	4439	276·7	283	271	..	30	4399	275·6	281	269	..	30	4426	275·5	279	271	..
500	30	5894	267·0	271	263	..	30	5850	265·8	270	261	..	30	5885	268·1	273	262	..
400	29	7606	255·2	261	252	..	30	7548	253·4	260	248	..	30	7606	257·8	262	248	..
300	29	9694	240·7	249	236	..	29	9627	238·9	246	232	..	29	9718	242·6	248	238	..
250	28	10961	232·8	241	227	..	28	10883	231·6	239	222	..	29	10988	232·7	243	226	..
200	26	12454	223·2	230	216	..	25	12384	223·7	231	213	..	26	12484	221·7	230	215	..
175	24	13319	217·6	225	213	..	25	13254	218·7	226	213	..	24	13326	215·9	225	208	..
150	22	14286	212.0	217	204	..	24	14243	214·2	220	205	..	22	14300	209·1	219	204	..
125	21	15415	206.2	211	199	..	20	15386	209·2	215	204	..	17	15411	203·7	214	195	..
100	21	16735	201·5	207	194	..	18	16723	205·3	211	195	..	12	16725	197·8	208	190	..
80	18	18069	201·3	207	192	..	13	18036	205·2	213	199	..	9	18025	197·8	205	190	..
70	14	18839	205·6	214	192	..	13	18854	207·1	216	200	..	8	18829	201·1	208	196	..
60	9	19722	208·7	217	202	..	11	19810	208·7	218	201	..	8	19724	203·0	209	197	..
50	..	..	..	..	..	..	9	20916	210·1	221	202	..	8	20845	205·6	212	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1004 mb.)						CALCUTTA/DUM DUM (1002 mb.)						GAUHATI (996 mb.)					
Surface	30	013	304.4	311	302	295·3	30	006	304·0	309	297	297·6	30	049	300·8	305	296	294·0
1000	30	049	..	..	..	..	30	027	..	..	..	..	30	042	..	..	..	..
900	30	986	301·9	306	297	276·0	30	964	298·2	304	294	290·3	30	965	294·6	299	290	288·8
850	30	1495	299·3	303	295	276·0	30	1464	295·4	301	291	285·5	30	1458	291·6	295	286	286·0
800	30	2026	295·4	298	292	275·1	30	1988	291·8	296	288	282·1	30	1976	288·0	292	285	281·6
700	30	3167	285·8	289	283	270·9	30	3119	283·3	288	279	274·4	30	3093	281·1	286	278	273·5
600	30	4441	276·6	281	273	260·8	30	4383	274·8	279	270	..	30	4351	273·5	279	268	..
500	30	5899	267·7	271	264	..	30	5828	265·8	270	260	..	29	5793	266·3	271	261	..
400	30	7614	255·7	260	251	..	30	7534	255·2	263	246	..	29	7497	254·7	262	250	..
300	29	9715	241·1	248	235	..	30	9630	242·0	247	233	..	24	9591	241·3	246	237	..
250	27	10971	231·3	236	224	..	30	10903	234·4	244	226	..	21	10862	234·9	241	229	..
200	27	12449	219·9	223	216	..	29	12395	223·9	230	217	..	20	12361	226·4	236	221	..
175	25	13309	213·8	217	205	..	26	13253	218·0	224	212	..	18	13211	221·3	228	214	..
150	24	14265	207·6	212	202	..	22	14241	212·7	218	205	..	15	14208	215·6	222	208	..
125	23	15352	201·3	205	196	..	20	15376	206·3	211	199	..	14	15340	209·6	216	202	..
100	22	16661	196·0	203	190	..	18	16715	201·0	206	192	..	11	16693	203·5	211	197	..
80	19	17941	196·4	205	190	..	12	18027	198·3	202	191	..	6	17997	198·2	201	191	..
70	15	18730	197·5	205	190	..	12	18808	200·6	208	197	..	5	18791	200·4	200	199	..
60	12	19622	201·0	209	195	..	11	19726	203·4	215	198	..	..	..	..	..	..	..
50	11	20714	205·8	211	200	..	10	20833	207·0	221	200	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

From Ascents at 12 hr. G. M. T.

April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (979 mb.)						MADRAS/MINAMBAKKAM (1004 mb.)						MINICOY (1007 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	313·0	317	306	281·3	30	015	305·0	307	303	297·2	30	002	302·2	303	299	297·4
1000	30	023	..	..	..	..	30	049	..	..	..	..	30	067	..	..	..	..
900	30	977	305·9	311	299	276.8	30	984	298·9	303	293	284·9	30	996	294·6	297	292	290·1
850	30	1487	301.3	306	294	273·6	30	1485	296·1	299	292	279·5	30	1491	292·6	295	288	286·0
800	30	2018	295·9	301	290	272·5	30	2012	293·1	296	288	273·4	30	2012	289·8	293	285	280·5
700	30	3157	286·2	290	279	267.5	30	3147	285·0	287	281	271·7	30	3138	283·4	286	280	272·9
600	30	4428	276·8	279	269	..	30	4418	276·6	281	273	263·4	30	4404	276·0	280	274	264·8
500	30	5880	265·3	270	262	..	30	5876	268·5	273	265	..	30	5858	267·7	271	261	..
400	29	7589	254·8	260	249	..	30	7599	257·6	262	253	..	30	7574	256·9	260	247	..
300	29	9677	241·0	249	235	..	30	9713	242·6	248	235	..	30	9676	241·6	245	233	..
250	26	10952	233.7	241	229	..	30	10966	232·3	239	226	..	29	10941	231·7	238	225	..
200	24	12454	225·5	232	220	..	29	12461	220·1	229	215	..	29	12415	219·7	225	215	..
175	22	13373	221·0	227	214	..	29	13303	213·8	222	208	..	28	13251	214·3	223	210	..
150	21	14315	215·6	222	211	..	29	14264	206·9	216	200	..	28	14216	207·1	218	201	..
125	20	15478	208·4	217	200	..	27	15349	202·0	209	195	..	27	15290	201·0	210	195	..
100	17	16820	203·4	210	198	..	27	16672	197·3	204	187	..	24	16619	195·9	202	188	..
80	13	18120	201·3	207	197	..	21	17968	198·3	209	189	..	17	17895	196·7	205	192	..
70	10	18914	205·5	212	196	..	17	18790	200·0	207	191	..	17	18685	199·8	208	192	..
60	8	19840	209·7	218	197	..	13	19681	202·7	210	193	..	12	19670	203·1	212	195	..
50	5	20981	213·2	226	199	..	11	20785	206·3	215	196	..	12	20707	208·6	223	200	..
40	..	..	..	..	..	..	5	22106	206·4	211	200	..	9	22045	209·7	219	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	6	23847	213·3	215	212	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NAGPUR/SONEGAON (967 mb.)						NEW DELHI/SAFDARJUNG (979 mb.)						PORT BLAIR (998 mb.)					
Surface	30	311	313·2	317	309	280·9	30	203	307·8	312	304	283·7	30	079	302·5	304	301	296·6
1000	30	31	..	..	..	..	30	20	..	..	..	..	30	066	..	..	..	..
900	30	969	306·8	312	302	281·1	30	934	302·5	308	297	279·9	30	992	295·8	299	293	288·8
850	30	1481	302·1	307	297	278·7	30	1471	298·3	302	292	277·5	30	1488	292·7	297	289	284·8
800	30	2015	297·2	303	291	278·6	30	2000	293·5	302	287	275·7	30	2007	289·5	293	286	280·6
700	30	3160	286·4	291	281	274·1	30	3130	284·1	289	278	269·5	30	3130	283·1	286	279	270·7
600	30	4430	277·0	278	268	..	30	4394	274·7	280	269	..	30	4395	276·1	279	271	..
500	30	5875	264·8	269	259	.	30	5838	264·9	269	262	..	28	5852	267·4	272	263	..
400	30	7573	253·7	258	249	..	30	7530	252·3	256	247	..	30	7567	257·3	260	253	..
300	30	9656	240·1	247	233	..	30	9597	238·4	246	233	..	26	9780	242·2	248	233	..
250	30	10909	236·1	238	222	..	30	10849	230·3	237	222	..	26	10927	233·8	239	225	..
200	30	12393	220·3	227	212	..	30	12329	222·6	228	215	..	23	12429	220·6	226	212	..
175	28	13224	214·3	220	205	..	30	13193	218·6	228	209	..	22	13292	213·7	222	205	..
150	28	14209	208·9	215	203	..	30	14170	214·2	223	204	..	22	14248	207·5	218	198	..
125	28	15397	204·4	211	198	..	30	15301	209·6	218	196	..	18	15287	202·3	211	195	..
100	28	16633	200·1	210	193	..	30	16649	204·4	215	193	..	17	16669	198·0	205	190	..
80	14	17894	200·8	205	195	..	30	17977	202·3	213	195		11	17965	196·0	206	188	..
70	13	18779	201·1	206	196	..	28	18762	203·9	215	195	..	5	18802	197·0	200	193	..
60	10	19694	203·8	209	197	..	25	19695	207·8	215	196	..	..	..	..	..	..	..
50	9	20784	205·4	212	191	..	22	20815	212·5	219	198	..	..	..	..	..	..	..
40	7	22139	209·7	215	202	..	21	22213	217·1	224	201	..	..	..	..	..	..	..
30	5	23827	213·2	221	208	..	17	24097	222·5	227	216	..	..	..	..	..	..	..
20	..	..	..	..	..	..	9	26738	226·3	229	219	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 hr. G.M.T.

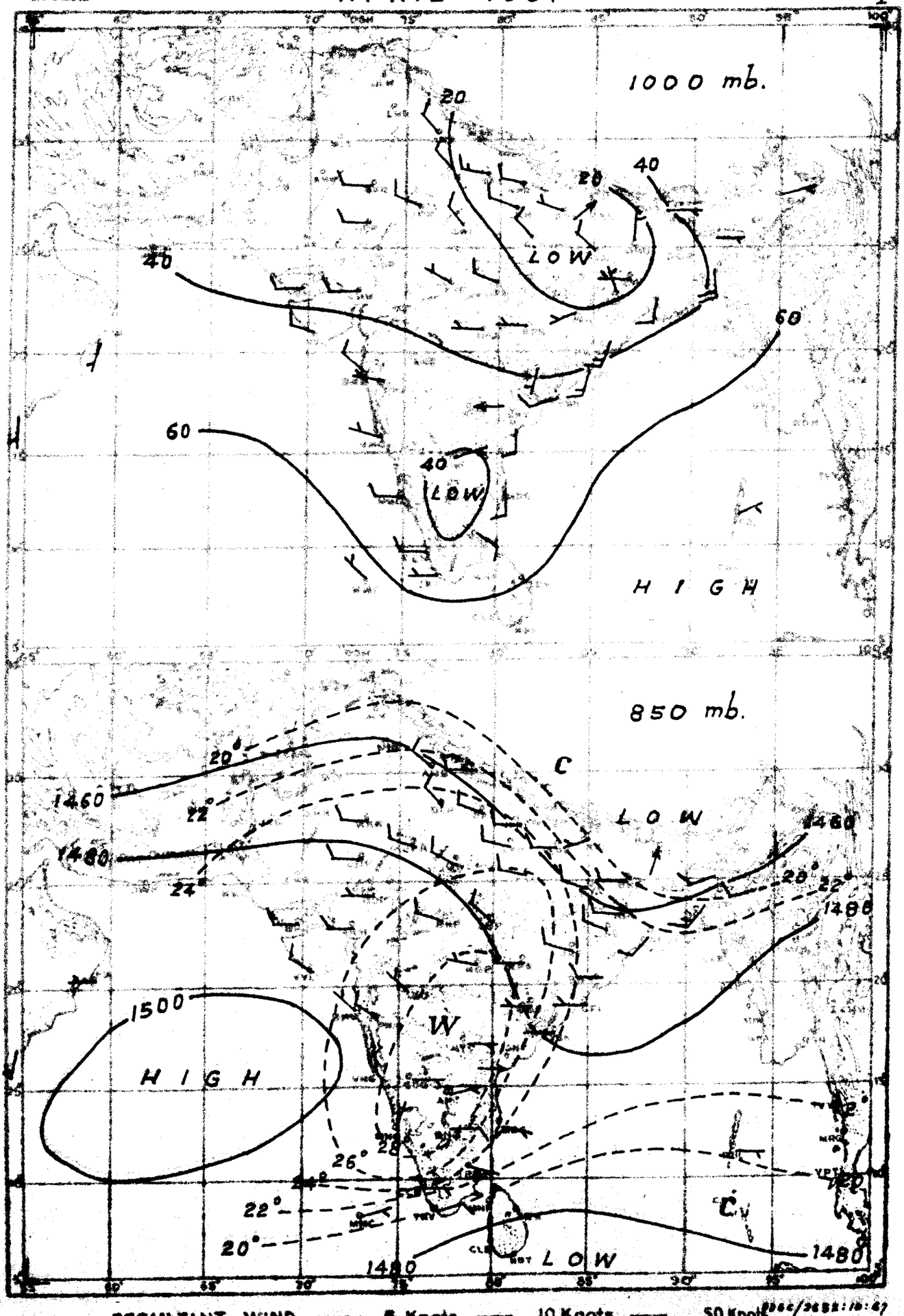
April, 1964 (Chaitra 12—Vaisakha 10, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (840 mb.)						TRIVANDRUM (999 mb.)						VISHAKHAPATNAM (1001 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	25	1588	290.2	295	282	282·6	30	064	303·7	305	298	298·2	30	041	302·9	304	302	298·1
1000	25	78	..	..	..	..	30	53	..	..	..	..	30	47	..	..	..	..
900	25	996	..	..	..	..	30	987	296·2	299	294	292·7	30	978	298·7	305	293	289·1
850	25	1486	..	..	..	..	30	1484	293·2	295	290	289·6	30	1479	297·5	301	295	283·8
800	25	2000	286.2	293	281	278.4	30	2005	290·2	293	287	285·7	30	2003	294·3	298	289	281·2
700	25	3108	278.6	285	272	..	30	3133	283·7	287	279	276·8	30	3141	284·9	291	281	276·9
600	25	4349	269.6	275	263	..	30	4403	276·7	279	270	266·0	30	4408	275·0	278	272	..
500	25	5763	259.7	265	253	..	30	5860	268·0	272	263	..	30	5858	266·8	271	261	..
400	24	7429	249.1	258	242	..	30	7581	257·5	261	252	..	30	7570	256·2	261	252	..
300	22	9481	234.9	245	228	..	30	9692	242·5	249	237	..	30	9674	242 3	250	234	..
250	13	10756	227.3	235	221	..	29	10965	232·1	238	227	..	26	10935	232·2	240	223	..
200	7	12174	221.3	227	217	..	29	12446	220·8	231	213	..	26	12420	221·2	229	212	..
175							27	13301	214·2	227	205	..	25	13267	215·9	222	209	..
150							27	14268	207·4	219	196	..	25	14285	209·3	215	204	..
125							23	15334	200·9	210	188	..	22	15330	204·7	210	199	..
100							22	16634	196·4	203	191	..	21	16675	200·2	207	196	..
80							18	17892	198·3	206	192	..	13	17989	200·6	206	194	..
70							15	18796	202·7	213	193	..	12	18804	203·6	209	196	..
60							12	19682	205·8	213	199	..	8	19714	205·0	213	198	..
50							11	20814	210·2	216	201	..	7	20770	210·9	220	201	..
40																		
30																		
20																		
10																		

GIPN—S3— 410 D.D.G. Obs. P./67—12-7-68—200.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D. APRIL 1964 Plate I



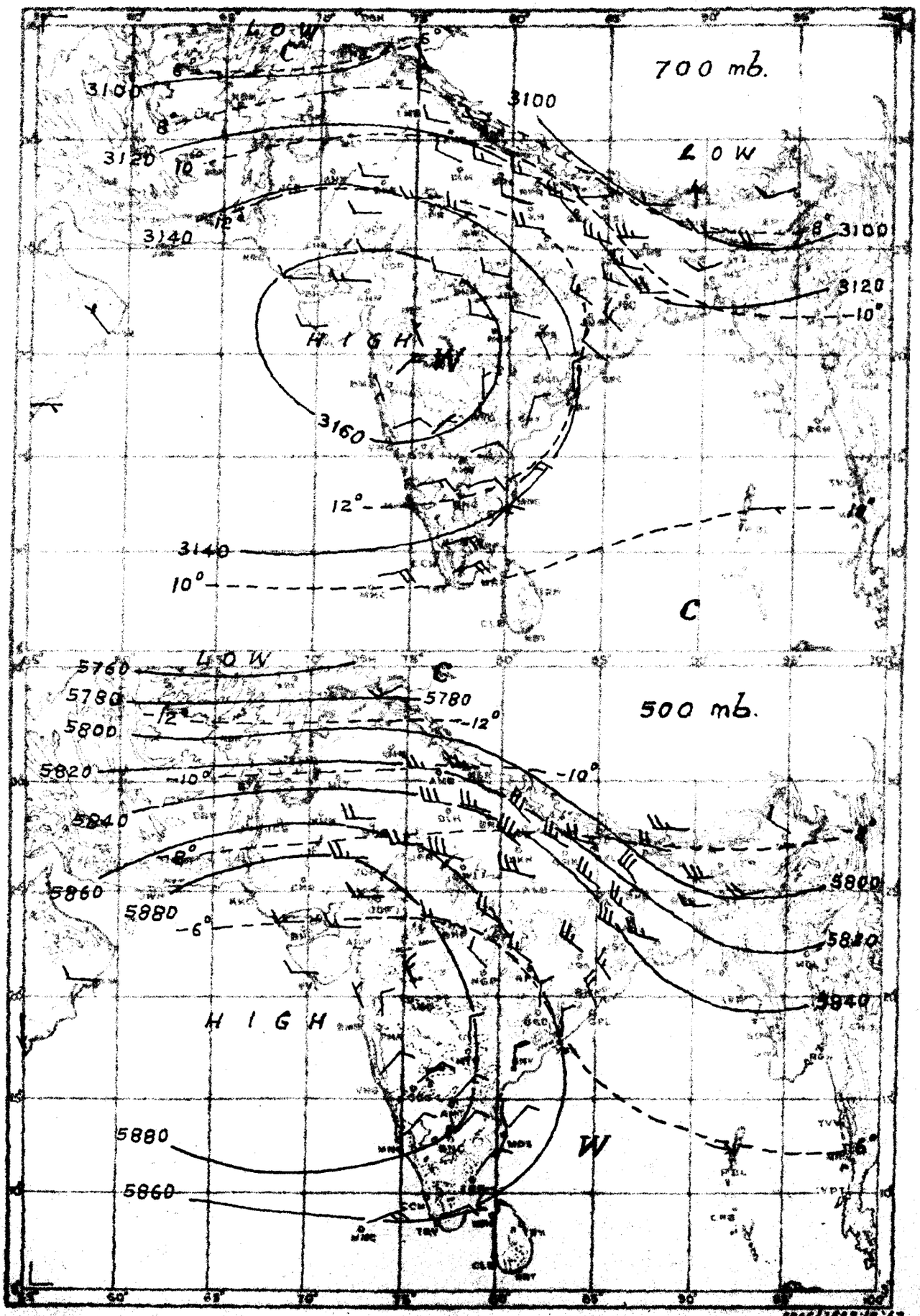
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - - Isotherms in degrees centigrade —— Contours in geopotential metres

MONTHLY MEAN CONSTANT PRESSURE CHARTS

APRIL 1964

I. Met. D. Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

MAY

Published by authority of the Government of India

Chief features—

i) Movement of five western disturbances across the northern parts of the country causing spells of light to moderate precipitation in northwest India and Uttar Pradesh;

ii) Development of a cyclonic storm in the Bay of Bengal;

iii) Good seasonal thundershower activity in northeast India during the first fortnight; and

iv) Advance of the southwest monsoon into the Bay Islands and into southeast Bay of Bengal.

Five western disturbances moved eastwards across the northern parts of the country during the month. The first one moving from West Pakistan lay over Uttar Pradesh from 4th to 6th. Later it weakened and became unimportant by 9th over Bihar Plains. The second western disturbance also similarly persisted over west Pakistan and adjoining west Rajasthan from 9th to 11th and thereafter moving slightly eastwards became unimportant by 13th. The third and fifth western disturbances moved away eastwards across the Western Himalayas as feeble upper air troughs. The fourth western disturbance was, however, fairly active but became unimportant over east Uttar Pradesh by 24th. Under the influence of these disturbances, spells of light to moderate precipitation occurred over the various parts of north-west India and of Uttar Pradesh. According to press reports, a 90 mile-per hour gale accompanied with rain and hail lashed Jaipur and neighbouring areas, uprooting hundreds of trees on the evening of 27th. Jaipur recorded 5 cm of rain on 28th. The details regarding the movement and activity of the various western disturbances are given in the accompanying statement. (Please see table attached)

A low pressure area which had moved into the south Andaman Sea from the east towards the end of last month moved westwards into the southwest Bay of Bengal off the east coast of Ceylon and the south Coromondal coast by the 4th. Later it recurved northeastwards and intensified into a depression by the morning of 6th when it lay centred near Late 12.5°N and Long. 86.5°E. It further intensified into a cyclonic storm of small extent by the next morning. Continuing to move northeastwards till 8th and later northnortheastwards it crossed the north Arakan coast near Lat. 20°N during the night of 8th –9th and rapidly weakened into a low pressure area. Under its influence, the southwest monsoon advanced into the southeast Bay of Bengal upto Lat. 10°N and the south Bay Islands towards the end of the first week. There was also a spell of good thundershowers in the south Peninsula and the Bay Islands during the first week. Some of the noteworthy amounts of rainfall recorded were : Fort Cochin 5 cm on 3rd, Hassan 5 cm on 5th, Kodaikanal 10 cm and Port Blair 8 cm on 7th and Long Island 7 cm on 7th and 8 cm on 8th.

A trough of low pressure which appeared over the north Andaman Sea on 11th persisted there till 13th. Later it moved into the east central Bay of Bengal, weakened and became unimportant by 17th. In association with it the thundershower activity over the Bay Islands continued during the second week also. Car Nicobar recorded an exceptionally heavy fall of 24 cm of rain on 11th. Port Blair also reported 11 cm of rain on 10th and Kondul 8 cm on 11th. The seasonal thundershower activity over the Peninsula during this week, however, decreased considerably and the weather there remained practically dry. A trough of low in the low level westerlies persisted over the Peninsula from 14th to 20th. A low pressure area which developed over Orissa and adjoining east Madhya Pradesh on 21st persisted till the end of the month. In association with these developments, there were spells of good thundershower activity over the Peninsula during the second fortnight. Karwar recorded 7 cm of rain on 19th, Mysore 8 cm on 20th, Punalur 7 cm on 23rd, Alleppey 8 cm on 25th and Salem 7 cm on 31st.

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The seasonal trough of low pressure over northeast India was well marked during the first week and in association with it there was pronounced thundershower activity in Assam and West Bengal. North Lakhimpur recorded 10 cm of rain on 1st, Majbat 11 cm on 2nd, Gohpur 11 cm on 3rd and Rangiya 17cm on 4th. Under the influence of a trough of low pressure lying over Orissa and neighbourhood from 11th to 14th, the thundershower activity extended to the other parts of northeast India also during the second week. According to press reports, at least 16 persons were killed and 300 injured in house collapses, by flying roofs and uprooted trees in one of the worstever storms that swept Kathadamam block in Purnea district on 7th. During the second fortnight there was a general decrease of rainfall over the area, particularly after 20th. A trough of low pressure appearing over the east central Bay of Bengal on 28th extended into upper Burma causing increased thundershowers over Assam during the last two days of the month.

Under the influence of the above trough of low pressure, the monsoon extended into the north Bay Islands and the remaining parts of the southeast Bay of Bengal by the end of the month.

Day temperatures were above normal during the first 9 days over the country out side Assam and south peninsula where they were normal or below normal. Thereafter they remained below normal upto about 17th generally over the entire country, being appreciably to markedly so over northwest India, west Uttar Pradesh and parts of Madhya Pradesh They were below normal again over Uttar Pradesh during 21st—29th and over northwest India from 21st till the end of the month, being markedly so in the Punjab(I) till 23rd. The day temperatures over most parts of northeast India and the Peninsula were, however, above normal from 18th onwards, being appreciably to markedly so during the last three days of the month.

The total rainfall for the month was in large excess in Uttar Pradesh, the Punjab(I), east Rajasthan and Saurashtra and Kutch, in moderate excess in the Bay Island, Bihar Plains and west Rajasthan and normal in Bihar Plateau, west Madhya Pradesh and the Madras State. It was in slight defect in Assam, Orissa and south Interior Mysore, in moderate defect in west Bengal, Gujarat Region, coastal Andhra Pradesh and coastal Mysore and in large defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Andhra Pradesh, the Madras State and south Interior Mysore and below normal in Bihar Plains, Uttar Pradesh, the Punjab (I) and Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in Bihar Plateau, Utter Pradesh, the Punjab (I), Jammu and Kashmir and east Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean relative Humidity in the morning was above normal in Bihar Plains, east Uttar Pradesh, the Punjab (I) and Saurashtra and Kutch and below normal in Vidarbha and Telangana. It was normal over the rest of the country out side Himachal Pradesh.

The Mean cloud amount in the morning was above normal in east Uttar Pradesh, east Rajasthan. and the Madras State and below normal in Bihar Plateau, Jammu and Kashmir, west Rajasthan, east Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha Telangana and south Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. IST of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. IST of the date given in the succeeding column.

POONA-5,
The 21st September, 1964.

R. ANANTHAKRISHNAN,
for DIRECTOR GENERAL OF OBSERVATORIES

STATEMENT SHOWING THE MOVEMENT AND ACTIVITY OF WESTERN DISTURBANCES DURING MAY, 1964.

Nos.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1.	2nd—9th	West Pakistan—The Punjab (I) and adjoining Rajasthan—Uttar Pradesh—Bihar Plains	Jammu and Kashmir	Scattered rain or snow	4th	Feeble
			The Punjab (I)	Scattered rain	5th	Became unimportant over Bihar Plains on 9th
			West Uttar Pradesh	Local/scattered rain	5th, 6th, 7th	
			East Uttar Pradesh	Scattered rain	6th	
			Bihar State	Scattered rain	6th, 7th, and 8th	
2.	8th—13th	Baluchistan and adjoining Afghanistan—West Pakistan.—Rajasthan.	Jammu and Kashmir	Scattered rain/or snow	9th and 12th	
			Himachal Pradesh	Local/fairly widespread rain	12th 13th and 14th	
			The Punjab (I)	Scattered/local/fairly widespread rain	11th, 12th, 13th and 14th	
			Uttar Pradesh	Scattered/local rain	11th, 12th 13th, 14th	
3.	13th—17th	West Pakistan—The Punjab(I)—Western Himalayas	Jammu and Kashmir	Local rain	14th	Feeble upper air trough
			Himachal Pradesh	Fairly widespread rain	16th	
			The Punjab (I)	Scattered rain	16th, 17th	
			West Uttar Pradesh	Scattered rain	15th, 18th	
4.	20th—24th	West Pakistan—The Punjab(I)—Uttar Pradesh	West Rajasthan	Scattered rain	20th, 21st	Fairly active
			East Rajasthan	Scattered rain	21st	
			Jammu and Kashmir	Fairly widespread/scatttered rain or snow	21st, 22nd, 23rd	
			Himachal Pradesh	Local/fairly widespread rain	21st, 22nd, 23rd	
			The Punjab(I)	Local/scattered rain	21st, 22nd, 23rd	
			Uttar Pradesh	Local/scattered rain or snow	21st, 24th	
5.	26th—30th	West Pakistan—Rajasthan—hills of west Uttar Pradesh	West Rajasthan	Scattered rain	28th, 29th, 30th	Jaipur 5 cm on 28th
			East Rajasthan	Local rain	28th, 29th	
			West Madhya Pradesh	Scattered rain	27th-30th	
			The Punjab(I)	Scattered rain	28th	
			West Uttar Pradesh	Scattered rain	28th, 30th	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	241·9	78	30·7	21·6	78	70	4·8	4·6
	−68·7		+0·3	−0·5	−2		−0·7	
2. West Bengal	113·1	71	35·4	25·2	73	60	3·5	3·6
	−46·9		−0·2	−0·1	+1		−0·4	
3. Orissa	56·1	78	37·4	25·5	68	57	3.2	3·8
	−16·0		0	−1·0	+2		−0·3	
4. Bihar	68·7	126	36·7	23·9	63	47	2·2	2·2
	+14·0		−0·8	−1·0	+5		−0·3	
5. Uttar Pradesh	35·8	209	38·9	23·0	45	28	1·4	1·4
	+18·6		−1·4	−2·5	+6		+0·2	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	32·1	243	38·1	21·4	39	25	1·5	2·4
	+18·9		−1·7	−2·7	+6		+0·2	
7. Jammu and Kashmir.	16·1	43	25·0	10·7	48	33	2·0	3·1
	−21·5		−1·7	−2·3	−2		−0·8	
8. Rajasthan	26·6	205	40·7	25·5	40	20	0·8	1·3
	+13·6		−0·2	−1·0	0		0	
Sub-Division								
1. Bay Islands	587·9	150	30·5	23·4	81	86	6·6	6·7
	+203·6		+0·1	−0·5	+3		+1·0	
2. Assam (Including Manipur, Tripura).	241·9	78	30·7	21·6	78	70	4·8	4·6
	−68·7		+0·3	−0·5	−2		−0·7	
3. Sub-Himalayan, West Bengal.	176·8	65	32·6	22·2	73	61	4·0	3·3
	−97·8		−0·4	−1·0	−2		−0·1	
4. Gangetic, West Bengal.	89·9	71	38·2	26·2	73	60	3·4	3·7
	−26·5		−0·1	+0·2	+2		−0·5	
5. Orissa	56·1	78	37·4	25·5	68	57	3·2	3·8
	−16·0		0	−1·0	+2		−0·3	
6. Bihar Plateau	72·1	105	37·7	24·1	59	42	1·6	3·3
	+3·2		−0·5	−1·1	+5		−0·9	
7. Bihar Plains	67·1	139	36·0	23·8	66	51	2·6	1·4
	+19·0		−1·1	−1·0	+6		+0·1	
8. Uttar Pradesh (East).	43·1	242	39·0	23·4	50	31	1·7	1·2
	+25·3		−1·6	−2·5	+6		+0·4	
9. Uttar Pradesh (West).	25·0	153	38·7	22·3	37	24	1·1	1·7
	+8·7		−1·3	−2·5	+5		−0·1	
10. Punjab (India) Including Delhi).	32·1	243	38·1	21·4	39	25	1·5	2·4
	+18·9		−1·7	−2·7	+6		+0·2	
11. Himachal Pradesh	88·1	..	33·3	13·4	57	35	0·7	2·1
	..		..	..	..		..	
12. Jammu and Kashmir.	16·1	43	25·0	10·7	48	33	2·0	3·1
	−21·5		−1·7	−2.3	−2		−0·8	
13. Rajasthan (West)	15·2	128	41·3	25·5	47	23	0·6	0·8
	+3·3		0	−0·7	+5		−0·3	
14. Rajasthan (East)	38·0	271	40·2	25·6	35	19	1·0	1·7
	+24·0		−0·4	−1·2	−4		+0·2	
15. Madhya Pradesh (West).	12·6	104	40·6	24·9	39	19	1·2	1·8
	+0·5		−0·1	−1·0	+3		−0·2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	9·5	60	40·9	25·3	38	20	1·1	2·1
	−6·4		+0·2	−0·7	+2		−0·6	
10. Gujarat State	6·3	102	37·6	26·1	75	50	2·0	1·0
	+0·1		−0·2	+0·1	+5		+0·1	
11. Maharashtra State	2·2	8	39·0	25·8	53	33	1·7	2·4
	−24·9		+0·8	0	−2		−1·0	
12. Andhra Pradesh	16·4	43	40·9	23·8	56	38	2·9	3·3
	−21·8		+1·5	+0·7	−2		−0·7	
13. Madras State	53·5	97	37·8	26·9	62	53	4·2	4·8
	−1·9		+1·3	+0·6	−5		+0·7	
14. Mysore	58·2	72	36·0	24·0	70	42	3·3	3·6
	−23·1		+0.9	+0·7	+1		−0·4	
15. Kerala	108·5	38	32·6	26·1	80	73	5·2	5·4
	−173·9		+0·9	+0·5	−1		−0·2	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	5·5	26	41·4	25·8	37	22	1·0	2·3
	−15·3		+0·7	−0·3	+1		−1·1	
17. Gujarat Region	5.1	55	39·1	26·1	68	35	2·1	0·6
	−4·2		−0·4	−0·1	+2		+0·1	
18. Saurashtra and Kutch.	6·9	157	36·6	26·0	78	59	2·0	1·2
	+2·5		0	+0·3	+6		0	
19. Konkan	0·7	2	32·9	27·1	73	69	3·4	2·8
	−33·5		+0·7	+0·7	−2		−0·6	
20. Madhya Maharashtra	4·5	13	39·9	23·3	58	29	1·4	2·3
	−28·9		+0·9	−0·4	+2		−0·8	
21. Marathwada	1·2	6	41·5	25·3	41	20	0·9	2·7
	−18·5		+0·7	−0·2	−3		−1·3	
22. Vidarbha	1·2	9	42·7	28·0	33	14	0·8	2·3
	−12·8		+0·8	0	−6		−1·5	
23. Coastal Andhra Pradesh.	25.3	56	39·4	28·3	66	56	3·7	3 5
	−19·7		+1·2	+0·6	−1		−0·4	
24. Telangana	11·9	44	42·7	28·3	42	20	1·6	2·9
	−15·1		+1·9	+0·6	−7		−1·4	
25. Rayalaseema	3·2	8	41·2	28·1	57	27	2·9	3·5
	−37·8		+1·4	+1·0	+2		−0·4	
26. Madras State	53·5	97	37·8	26·9	62	53	4·2	4·8
	−1.9		+1·3	+0·6	−5		+0·7	
27. Coastal Mysore	74·2	61	33·1	26·9	74	68	5·2	4·3
	−48·4		+0·9	+0·7	−3		+0·1	
28. Interior Mysore (North)	14·7	40	39·1	24·7	61	30	2·5	3·5
	−22·1		+0·8	+0·7	+1		−0·1	
29. Interior Mysore. (South)	88·5	87	34·6	22·2	76	42	3·2	3·4
	−13·0		+1·1	+0·6	+2		−1·0	
30. Kerala	108·5	38	32·6	26·1	80	73	5·2	5·4
	−173·9		+0·9	+0·5	−1		−0·2	
31. Arabian Sea Islands	64·2	44	32·7	27·3	75	71	4·6	4·9
	−81·2		+0·5	+0·5	+1		+0·1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C								Rainfall in mlimetres					No. of rainy days (2.5 mm. or more)		Wind speed km per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	2.
Bay Islands																												
Maya Bandar.	31.2	..	33·4	3	24.7	..	22·1	12	304.3	460.5	..	55.4	12	19	..	15·5	10.2	..	1	24	0	0	13	0	0	0	0	
Long Island .	31.4	..	34.2	18	24.9	..	22.2	12	246.5	560.7	..	74.4	9	22	..	9·4	7.5	..	0	24	0	0	8	0	0	0	0	1
Port Blair .	30.5	+0.1	34.2	3	23.4	—0.5	21.2	9	274.9	587.9	+203.6	106.9	10	23	+6 7	19·5	14.7	+0.9	0	27	0	0	12	0	0	6	0	6
Car Nicobar .	31.0	..	32.3	1,22	24.4	..	21.2	12	133.6	538.6	..	243.8	11	15	..	7·7	.4.9	..	0	19	0	0	6	0	0	0	0	0
Nancowry .	30.1	..	31.6	31	25.0	..	22.9	18	120.2	517.4	..	76·6	26	20	..	10.9	9.0	..	0	23	0	0	12	0	0	0	0	4
Koodul .	29·7	..	30.6	7	25·1	..	23.3	12	207.2	428.7	..	78.4	11	19	..	..	..	..	1	25	0	0	5	0	0	0	0	
Assam (including Manipur & Tripura)																												
Pasighat .	30.1	..	36.4	29	20.6	..	17.4	3	61.4	286.4	..	83 2	2	8	..	7.0	8.9	..	0	12	0	0	2	0	0	0	0	
Dibrugarh (Mohanbari)	30.5	+1.3	36.8	29	19.4	—2·1	14.1	9	38.7	143.0	—164.1	41.9	2	9	—6.6	5.1	3.6	—1·4	1	16	0	0	13	1	0	0	..	
Digboi*																												
North Lakhimpur	30·1	+1·5	36.6	29	21.5	—0.2	18.1	9	27.3	274.4	—256.9	101.2	1	10	—9.4	6.8	4·5	..	1	13	0	0	8	0	0	0	0	
Sibasagar .	30.9	+1.3	37·1	29	22.9	+0.8	19.5	3,9	82.1	176.5	+129.8	60·8	3	11	—4.6	5.1	4.2	+0.3	0	15	0	0	11	0	0	0	0	
Gohpur .	30.6	..	37.0	29	22.0	..	18.9	9	82.5	341.0	..	108 2	1	13	..	5.5	4.7	..	0	15	0	0	2	0	0	0	0	
Majbat .	31.1	..	36·2	29,30	20·9	..	16·6	11	30.4	266.6	.	110.6	2	11	..	3 3	4.7	..	0	12	0	0	0	0	0	0	0	
Jorhat (Aerodrome).	31·2	..	37·0	28	22.7	..	19.1	9	57.4	212.6	..	72.1	1	12	..	..	..	..	0	13	0	0	12	0	0	0	0	0
Tangla .	31.1	..	35.8	28	20.8	..	18.4	13	17.1	304.6	..	89.3	2	9	..	7.3	7.0	..	0	9	0	0	0	0	0	0	0	
Tezpur .	30.8	+0·4	36.7	29	22.7	+0.3	19.3	8	40.8	185 8	—84.7	34.4	2	10	—5.3	6.9	5.3	+0.8	0	12	0	0	3	0	0	0	0	
Golaghat .	30.7	..	37.2	29	22·6	..	19·4	9	(k) 22.6	264·4	..	88·6	1	10	..	..	..	..	0	11	0	0	0	0	0	0	0	
Rangia .	31.2	..	37·6	30	23.3	..	20·1	4	30·2	(b) 277·0	..	..	..	..	..	(e) 7·5	(d) 5·7	..	0	0	0	0	0	0	0	0	0	
Chaparmukh(R)									(e)																			
Goalpara .	31·6	..	36.2	29,31	21·7	..	17.4	5	71.2	493.4	..	100·8	4	14	..	6·1	4·2	..	0	15	0	0	0	0	0	0	0	
Gauhati. .	..	..	..	..	..	..	..	..	..	231.2	—4.8	71.0	5	13	—0.5	..	..	..	0	15	0	0	0	0	0	0	0	
Gauhati (Bhorjor).	31.0	+0·2	35.6	30	22.4	0	19.0	7	65.7	236.3	+0.3	65.5	6	11	—2·5	7.6	5.6	..	1	14	0	0	15	0	0	0	0	0
Dhubri (Rupsi).	31.1	..	35.5	29	21.6	..	16.7	18	33.7	203.1	..	67·7	6	11	..	8.2	6.4	..	0	13	0	0	15	0	0	0	0	0
Dhubri . .	31.0	+1.1	36.6	30	23.5	+0.7	19.9	19	34.8	245.2	—155·9	91.2	6	10	—5.5	13.5	11.0	+1.8	0	11	0	0	7	0	0	0	0	0
Lumding .	32·1	0	37.4	29	21.8	—0.1	18.9	9	43.0	168.3	+4.0	45.0	12	7	—3.7	5.8	4.0	..	0	9	0	0	5	0	0	0	0	0
Tura . .	30.1	..	33·9	29	17.8	..	14.4	8	60.7	421.3	..	88.5	6	13	..	6.1	6.2	..	0	14	0	0	0	0	0	0	0	0
Haflong .	27.8	..	32·3	30	20.0	..	17.1	7	240.2	454.4	+144.5	87.4	3	13	—0.9	..	..	..	0	16	0	0	9	0	0	0	0	0
Silchar (Kumbhirgram).	31·3	..	34.9	29	22·2	..	19.1	7	87.8	369.0	..	68·6	6	15	..	7.9	7.6	..	0	17	0	0	13	0	0	0	0	0
Silchar .	29.5	—2.0	33·9	30	23.0	+0·4	19.6	7	85.4	350.1	—67.0	68 8	5	14	—2.4	3.4	2.4	—0.8	1	17	0	0	16	0	0	0	0	0
Imphal (Tulihal).	28.6	—0.3	33·7	30	17.0	—2.1	15.0	7	51.5	133.0	—97.7	23.7	6	13	—0·3	8.3	5.7	—2.2	0	16	0	0	11	0	0	0	0	0
Kailashahar	31.4	..	35.1	29	21.9	..	18.3	3	89.7	327.7	..	70.4	3	10	..	9.5	6.8	..	0	15	0	2	8	1	1	0	0	2
Agartala	32.4	—0·9	35.5	29	22·2	—2·2	17.8	3	61.3	304.8	—11.8	55.0	1	13	—1.9	9.4	7.7	—5·1	0	18	0	0	18	0	0	0	0	4
Sub-Himalya West Bengal																												
Baghdogra .	31.9	—0.1	37 0	30,31	21.2	—1.7	17.8	8	21.8	160.1	—93.3	57.6	31	10	+1.1	14.3	12.5	+2.8	1	14	0	0	18	0	0	0	0	6
Jalpaigua .	31.5	—0.4	36.9	29	22.4	—0.2	17.9	8	6.6	250.0	—50.2	57.2	1	11	—2.1	11.6	8 3	+4.3	0	13	0	0	12	0	0	0	0	0
Coooch Behar .	31.0	..	36.4	29	21.8	..	18.4	8	20.3	178.9	- 247.1	41.6	8	12	—3.5	8.0	5.7	..	1	15	0	1	17	0	0	0	0	2
Balurghtat .	33·5	..	38.6	30	22.9	..	20.3	8,22	5.5	194.0	..	62.8	24	10	..	8.9	6.9	..	0	11	0	0	6	0	0	0	0	1
Malda . .	34.5	—0.7	41.2	3	23.0	—1.1	18.7	8	51.8	118.2	+1.4	25.4	22	10	+4.4	5.5	4.5	—4.5	1	12	0	0	14	0	0	0	1	0
Gangetic West Bengal.																												
Berhampore .	35.8	—0.4	41.4	3	..	..	..	..	26.2	157.2	+21.8	50 8	4	9	+1 7	5.8	4.7	—1.4	0	10	0	0	4	0	0	0	0	0
Suri . .	36.5	..	42.5	2	24.6	..	18.8	10	..	98.3	..	26.2	22	6	..	..	8.7	..	0	9	0	0	3	0	0	0	0	0
Asansol .	38·1	—0.9	42·9	5,30	24.6	—1.1	19.3	10	2.8	52.3	—22·1	21.9	12	3	—1.4	9.5	7.9	—1.3	0	7	0	0	12	0	0	0	0	4
Shanti Niketan	36·8	..	41.6	2,3	24.5	..	18.9	10	23.0	123·6	..	43.1	13	7	..	12.8	10.7	..	0	8	0	0	9	0	0	0	0	2
Krishnanagar .	36·7	+0·8	41·7	30	25·3	+0·5	20·6	1 0,11	18·2	75.3	—95·1	29·0	12	6	—1·9	12·6	8·5	—0.5	0	8	0	0	5	0	1	0	0	0
Purulia .	37.9	—2.4	42.8	5	25.8	—1.2	19.7	12	4.2	52.4	+12.1	29·2	12	4	+0.5	8.5	6.9	+0·1	0	5	0	0	0	0	0	0	0	0
Bankura .	38·6	..	43.5	5	23·8	..	18·2	13	19.4	121.8	+18.4	67.2	13	4	—1.6	2.4	3.0	..	0	6	0	0	0	1	0	0	0	0
Burdawn .	37·3	+0.6	41.5	30	27.6	+2·3	..	..	65.8	141.9	—9.5	39.0	13	8	+0.8	13·5	10·5	+5·4	0	9	0	0	0	0	0	0	0	0

(R) Register not received. *Temporarily closed (e) Mean or total for 26 days. (k) Total or Mean of 20 days. (b) Mean of 29 days.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	241·9	78	30·7	21·6	78	70	4·8	4·6
	−68·7		+0·3	−0·5	−2		−0·7	
2. West Bengal	113·1	71	35·4	25·2	73	60	3·5	3·6
	−46·9		−0·2	−0·1	+1		−0·4	
3. Orissa	56·1	78	37·4	25·5	68	57	3.2	3·8
	−16·0		0	−1·0	+2		−0·3	
4. Bihar	68·7	126	36·7	23·9	63	47	2·2	2·2
	+14·0		−0·8	−1·0	+5		−0·3	
5. Uttar Pradesh	35·8	209	38·9	23·0	45	28	1·4	1·4
	+18·6		−1·4	−2·5	+6		+0·2	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	32·1	243	38·1	21·4	39	25	1·5	2·4
	+18·9		−1·7	−2·7	+6		+0·2	
7. Jammu and Kashmir.	16·1	43	25·0	10·7	48	33	2·0	3·1
	−21·5		−1·7	−2·3	−2		−0·8	
8. Rajasthan	26·6	205	40·7	25·5	40	20	0·8	1·3
	+13·6		−0·2	−1·0	0		0	
Sub-Division								
1. Bay Islands	587·9	150	30·5	23·4	81	86	6·6	6·7
	+203·6		+0·1	−0·5	+3		+1·0	
2. Assam (Including Manipur, Tripura).	241·9	78	30·7	21·6	78	70	4·8	4·6
	−68·7		+0·3	−0·5	−2		−0·7	
3. Sub-Himalayan, West Bengal.	176·8	65	32.6	22·2	73	61	4·0	3·3
	−97·8		−0·4	−1·0	−2		−0·1	
4. Gangetic, West Bengal.	89·9	71	38·2	26·2	73	60	3·4	3·7
	−26·5		−0·1	+0·2	+2		−0·5	
5. Orissa	56·1	78	37·4	25·5	68	57	3·2	3·8
	−16·0		0	−1·0	+2		−0·3	
6. Bihar Plateau	72·1	105	37·7	24·1	59	42	1·6	3·3
	+3·2		−0·5	−1·1	+5		−0·9	
7. Bihar Plains	67·1	139	36·0	23·8	66	51	2·6	1·4
	+19·0		−1·1	−1·0	+6		+0·1	
8. Uttar Pradesh (East).	43·1	242	39·0	23·4	50	31	1·7	1·2
	+25·3		−1·6	−2·5	+6		+0·4	
9. Uttar Pradesh (West).	25·0	153	38·7	22·3	37	24	1·1	1·7
	+8·7		−1·3	−2·5	+5		−0·1	
10. Punjab (India) Including Delhi).	32·1	243	38·1	21·4	39	25	1·5	2·4
	+18·9		−1·7	−2·7	+6		+0·2	
11. Himachal Pradesh	88·1	..	33·3	13·4	57	35	0·7	2·1
	..		..	..	..		..	
12. Jammu and Kashmir.	16·1	43	25·0	10·7	48	33	2·0	3·1
	−21·5		−1·7	−2.3	−2		−0·8	
13. Rajasthan (West)	15·2	128	41·3	25·5	47	23	0·6	0·8
	+3·3		0	−0·7	+5		−0·3	
14. Rajasthan (East)	38·0	271	40·2	25·6	35	19	1·0	1·7
	+24·0		−0·4	−1·2	−4		+0·2	
15. Madhya Pradesh (West).	12·6	104	40·6	24·9	39	19	1·2	1·8
	+0·5		−0·1	−1·0	+3		−0·2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	9·5	60	40·9	25·3	38	20	1·1	2·1
	−6·4		+0·2	−0·7	+2		−0·6	
10. Gujarat State	6·3	102	37·6	26·1	75	50	2·0	1·0
	+0·1		−0·2	+0·1	+5		+0·1	
11. Maharashtra State	2·2	8	39·0	25·8	53	33	1·7	2·4
	−24·9		+0·8	0	−2		−1·0	
12. Andhra Pradesh	16·4	43	40·9	23·8	56	38	2·9	3·3
	−21·8		+1·5	+0·7	−2		−0·7	
13. Madras State	53·5	97	37·8	26·9	62	53	4·2	4·8
	−1·9		+1·3	+0·6	−5		+0·7	
14. Mysore	58·2	72	36·0	24·0	70	42	3·3	3·6
	−23·1		+0.9	+0·7	+1		−0·4	
15. Kerala	108·5	38	32·6	26·1	80	73	5·2	5·4
	−173·9		+0·9	+0·5	−1		−0·2	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	5·5	26	41·4	25·8	37	22	1·0	2·3
	−15·3		+0·7	−0·3	+1		−1·1	
17. Gujarat Region	5.1	55	39·1	26·1	68	35	2·1	0·6
	−4·2		−0·4	−0·1	+2		+0·1	
18. Saurashtra and Kutch.	6·9	157	36·6	26·0	78	59	2·0	1·2
	+2·5		0	+0·3	+6		0	
19. Konkan	0·7	2	32·9	27·1	73	69	3·4	2·8
	−33·5		+0·7	+0·7	−2		−0·6	
20. Madhya Maharashtra	4·5	13	39·9	23·3	58	29	1·4	2·3
	−28·9		+0·9	−0·4	+2		−0·8	
21. Marathwada	1·2	6	41·5	25·3	41	20	0·9	2·7
	−18·5		+0·7	−0·2	−3		−1·3	
22. Vidarbha	1·2	9	42·7	28·0	33	14	0·8	2·3
	−12·8		+0·8	0	−6		−1·5	
23. Coastal Andhra Pradesh.	25.3	56	39·4	28·3	66	56	3·7	3 5
	−19·7		+1·2	+0·6	−1		−0·4	
24. Telangana	11·9	44	42·7	28·3	42	20	1·6	2·9
	−15·1		+1·9	+0·6	−7		−1·4	
25. Rayalaseema	3·2	8	41·2	28·1	57	27	2·9	3·5
	−37·8		+1·4	+1·0	+2		−0·4	
26. Madras State	53·5	97	37·8	26·9	62	53	4·2	4·8
	−1.9		+1·3	+0·6	−5		+0·7	
27. Coastal Mysore	74·2	61	33·1	26·9	74	68	5·2	4·3
	−48·4		+0·9	+0·7	−3		+0·1	
28. Interior Mysore (North)	14·7	40	39·1	24·7	61	30	2·5	3·5
	−22·1		+0·8	+0·7	+1		−0·1	
29. Interior Mysore. (South)	88·5	87	34·6	22·2	76	42	3·2	3·4
	−13·0		+1·1	+0·6	+2		−1·0	
30. Kerala	108·5	38	32·6	26·1	80	73	5·2	5·4
	−173·9		+0·9	+0·5	−1		−0·2	
31. Arabian Sea Islands	64·2	44	32·7	27·3	75	71	4·6	4·9
	−81·2		+0·5	+0·5	+1		+0·1	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C								Rainfall in milimetres					No. of rainy days (2.5 mm. or more)		Wind speed km per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lines Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar.	31.2	..	33·4	3	24.7	..	22·1	12	304.3	460.5	..	55.4	12	19	..	15·5	10.2	..	1	24	0	0	13	0	0	0	0		0
Long Island .	31.4	..	34.2	18	24.9	..	22.2	12	246.5	560.7	..	74.4	9	22	..	9·4	7.5	..	0	24	0	0	8	0	0	0	0	1	0
Port Blair .	30.5	+0.1	34.2	3	23.4	—0.5	21.2	9	274.9	587.9	+203.6	106.9	10	23	+6 7	19·5	14.7	+0.9	0	27	0	0	12	0	0	0	0	6	0
Car Nicobar .	31.0	..	32.3	1,22	24.4	..	21.2	12	133.6	533.6	..	243.8	11	15	..	7·7	.4.9	..	0	19	0	0	6	0	0	0	0	0	0
Nancowry .	30.1	..	31.6	31	25.0	..	22.9	18	120.2	517.4	..	76·6	26	20	..	10.9	9.0	..	0	23	0	0	12	0	0	0	0	4	0
Kondul .	29·7	..	30.6	7	25·1	..	23.3	12	207.2	428.7	..	78.4	11	19	..	..	..	..	1	25	0	0	5	0	0	0	0		0
Assam (including Manipur & Tripura)																													
Pasighat .	30.1	..	36.4	29	20.6	..	17.4	3	61.4	286.4	..	83 2	2	8	..	7.0	8.9	..	0	12	0	0	2	0	0	0	0		0
Dibrugarh (Mohanbari)	30.5	+1.3	36.8	29	19.4	—2·1	14.1	9	38.7	143.0	—164.1	41.9	2	9	—6.6	5.1	3.6	—1·4	1	16	0	0	13	1	0	0	..		0
Digboi*																													
North Lakhimpur	30·1	+1·5	36.6	29	21.5	—0.2	18.1	9	27.3	274.4	—256.9	101.2	1	10	—9.4	6.8	4·5	..	1	13	0	0	8	0	0	0	0		0
Sibasagar .	30.9	+1.3	37·1	29	22.9	+0.8	19.5	3,9	82.1	176.5	+129.8	60·8	3	11	—4.6	5.1	4.2	+0.3	0	15	0	0	11	0	0	0	0	0	0
Gohpur .	30.6	..	37.0	29	22.0	..	18.9	9	82.5	341.0	..	108 2	1	13	..	5.5	4.7	..	0	15	0	0	2	0	0	0	0	0	0
Majbat .	31.1	..	36·2	29,30	20·9	..	16·6	11	30.4	266.6	.	110.6	2	11	..	3 3	4.7	..	0	12	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome).	31·2	..	37·0	28	22.7	..	19.1	9	57.4	212.6	..	72.1	1	12	..	..	..	..	0	13	0	0	12	0	0	0	0	0	0
Tangla . .	31.1	..	35.8	28	20.8	..	18.4	13	17.1	304.6	..	89.3	2	9	..	7.3	7.0	..	0	9	0	0	0	0	0	0	0	0	0
Tezpur . .	30.8	+0·4	36.7	29	22.7	+0.3	19.3	8	40.8	185 8	—84.7	34.4	2	10	—5.3	6.9	5.3	+0.8	0	12	0	0	3	0	0	0	0	0	0
Golaghat .	30.7	..	37.2	29	22·6	..	19·4	9	(k) 22.6	264·4	..	88·6	1	10	..	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Rangia .	31.2	..	37·6	30	23.3	..	20·1	4	30·2 (e)	(b) 277·0	..	..	..	..	..	(e) 7·5	(d) 5·7	..	0	0	0	0	0	0	0	0	0	0	0
Chaparmukh(R)																													
Goalpara .	31·6	..	36.2	29,31	21·7	..	17.4	5	71.2	493.4	..	100·8	4	14	..	6·1	4·2	..	0	15	0	0	0	0	0	0	0	0	0
Gauhati. .	..	..	..	..	..	..	..	..	..	231.2	—4.8	71.0	5	13	—0.5	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor).	31.0	+0·2	35.6	30	22.4	0	19.0	7	65.7	236.3	+0.3	65.5	6	11	—2·5	7.6	5.6	..	1	14	0	0	15	0	0	0	0	0	0
Dhubri (Rupsi).	31.1	..	35.5	29	21.6	..	16.7	18	33.7	203.1	..	67·7	6	11	..	8.2	6.4	..	0	13	0	0	15	0	0	0	0	0	0
Dhubri . .	31.0	+1.1	36.6	30	23.5	+0.7	19.9	19	34.8	245.2	—155·9	91.2	6	10	—5.5	13.5	11.0	+1.8	0	11	0	0	7	0	0	0	0	0	0
Lumding .	32·1	0	37.4	29	21.8	—0.1	18.9	9	43.0	168.3	+4.0	45.0	12	7	—3.7	5.8	4.0	..	0	9	0	0	5	0	0	0	0	0	0
Tura . .	30.1	..	33·9	29	17.8	..	14.4	8	60.7	421.3	..	88.5	6	13	..	6.1	6.2	..	0	14	0	0	0	0	0	8	0	0	0
Haflong .	27.8	..	32·3	30	20.0	..	17.1	7	240.2	454.4	+144.5	87.4	3	13	—0.9	..	..	..	0	16	0	0	9	0	0	0	0	0	0
Silchar (Kumbhirgram).	31·3	..	34.9	29	22·2	..	19.1	7	87.8	369.0	..	68·6	6	15	..	7.9	7.6	..	0	17	0	0	13	0	0	0	0	0	0
Silchar .	29.5	—2.0	33·9	30	23.0	+0·4	19.6	7	85.4	350.1	—67.0	68 8	5	14	—2.4	3.4	2.4	—0.8	1	17	0	0	16	0	0	0	0	0	0
Imphal (Tulihal).	28.6	—0.3	33·7	30	17.0	—2.1	15.0	7	51.5	133.0	—97.7	23.7	6	13	—0·3	8.3	5.7	—2.2	0	16	0	0	11	0	0	0	0	0	0
Kailashahar	31.4	..	35.1	29	21.9	..	18.3	3	89.7	327.7	..	70.4	3	10	..	9.5	6.8	..	0	15	0	2	8	1	1	0	0	2	0
Agartala	32.4	—0·9	35.5	29	22·2	—2·2	17.8	3	61.3	304.8	—11.8	55.0	1	13	—1.9	9.4	7.7	—5·1	0	18	0	0	18	0	0	0	0	4	0
Sub-Himalaya West Bengal																													
Baghdogra .	31.9	—0.1	37 0	30,31	21.2	—1.7	17.8	8	21.8	160.1	—93.3	57.6	31	10	+1.1	14.3	12.5	+2.8	1	14	0	0	18	0	0	0	0	6	0
Jalpaigua .	31.5	—0.4	36.9	29	22.4	—0.2	17.9	8	6.6	250.0	—50.2	57.2	1	11	—2.1	11.6	8 3	+4.3	0	13	0	0	12	0	0	0	0	0	0
Cooch Behar .	31.0	..	36.4	29	21.8	..	18.4	8	20.3	178.9	—247.1	41.6	8	12	—3.5	8.0	5.7	..	1	15	0	1	17	0	0	0	0	2	0
Balurghat .	33·5	..	38.6	30	22.9	..	20.3	8,22	5.5	194.0	..	62.8	24	10	..	8.9	6.9	..	0	11	0	0	6	0	0	0	0	1	0
Malda . .	34.5	—0.7	41.2	3	23.0	—1.1	18.7	8	51.8	118.2	+1.4	25.4	22	10	+4.4	5.5	4.5	—4.5	1	12	0	0	14	0	0	0	1	0	0
Gangetic West Bengal.																													
Berhampore .	35.8	—0.4	41.4	3	..	..	..	..	26.2	157.2	+21.8	50 8	4	9	+1 7	5.8	4.7	—1.4	0	10	0	0	4	0	0	0	0	0	0
Suri . .	36.5	..	42.5	2	24.6	..	18.8	10	..	98.3	..	26.2	22	6	..	..	8.7	..	0	9	0	0	3	0	0	0	0	0	0
Asansol .	38·1	—0.9	42·9	5,30	24.6	—1.1	19.3	10	2.8	52.3	—22·1	21.9	12	3	—1.4	9.5	7.9	—1.3	0	7	0	0	12	0	0	0	0	4	0
Shanti Niketan	36·8	..	41.6	2,3	24.5	..	18.9	10	23.0	123·6	..	43.1	13	7	..	12.8	10.7	..	0	8	0	0	9	0	0	0	0	2	0
Krishnanagar .	36·7	+0·8	41·7	30	25·3	+0·5	20·6	10,11	18·2	75.3	—95·1	29·0	12	6	—1·9	12·6	8·5	—0.5	0	8	0	0	5	0	1	0	0	0	0
Purulia .	37.9	—2.4	42.8	5	25.8	—1.2	19.7	12	4.2	52.4	+12.1	29·2	12	4	+0.5	8.5	6.9	+0·1	0	5	0	0	0	0	0	0	0	0	0
Bankura .	38·6	..	43.5	5	23·8	..	18·2	13	19.4	121.8	+18.4	67.2	13	4	—1.6	2.4	3.0	..	0	6	0	0	0	1	0	0	0	0	0
Burdawn .	37·3	+0.6	41.5	30	27.6	+2·3	..	..	65.8	141.9	—9.5	39.0	13	8	+0.8	13·5	10·5	+5·4	0	9	0	0	0	0	0	0	0	0	0

(R) Register not received. *Temporarily closed (e) Mean or total for 26 days. (k) Total or Mean of 20 days. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 04 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd.*)																													
Barrackpore (Aerodrome).	35·7	..	39·3	30	25·1	..	18·9	10	63·9	132·5	..	50·0	22	7	..	..	10·6	..	0	10	0	0	13	2	0	0	0	0	0
Calcutta (Dum Dum.)	35·2	—0·6	39·3	30	25·8	—0·5	20·9	13	56·1	96·7	—20·6	28·0	13	7	+1·1	13.3	10·8	—5·7	0	11	0	0	11	2	0	0	0	4	0
Calcutta .	35·7	+0·4	39·8	29	26·1	+0·8	20·2	11	74·0	150·4	+10·9	47·2	13	8	+1·1	13.1	9·1	+1·1	2	10	0	0	11	1	0	0	0	9	0
Midnapore .	38·2	+0·5	42·4	28	26·4	+0·5	21·7	24	35·8	31·8	—88·6	16·6	17	3	—3·9	13.9	9·9	+3·0	0	3	0	0	0	0	0	0	0	0	0
Contai . .	34·3	+0·9	38·6	27	26·8	—0·2	20·9	22	15·4	53·0	—82·5	24·0	22	4	—0·8	19·9	15·2	—4·3	0	5	0	0	0	0	0	0	0	0	0
Sagar Island	32·8	0	33·6	21, 22, 27	28·0	+1.0	23·1	22	0	56·4	—58·4	32·5	22	3	—2·5	28·2	28·0	+6·3	1	5	0	0	5	0	0	0	0	4	0
Sandheads .	33·3	..	37·7	31	27·8	..	23·0	11	0	31·8	—18·2	9·0	14	4	+0·8	..	..	..	0	5	0	0	3	0	0	0	0	0	0
Orissa																													
Baripada .	38·7	..	43·1	20	25·7	..	22·2	26	20·2	60·1	..	18·2	22	5	..	7·3	5·6	..	0	9	0	0	17	0	0	0	0	1	0
Jharsuguda .	41·7	—0·3	44·6	21	26·5	—1·2	21·7	14	23·2	39·0	+15·4	23·2	31	2	+0·3	8·7	8·2	—0·6	0	2	0	0	8	0	2	0	0	2	0
Keonjhargarh.	37·3	..	41·4	21	23·7	..	18·3	8	36·5	92·9	..	42·3	8	7	..	10·5	7·2	..	0	8	0	0	0	1	0	0	0	0	0
Balasore .	35·6	—0·6	39·3	26	24·7	—1·3	18·4	12	33·8	116·1	—1·5	37·3	12	5	—0·9	15·7	12·5	+3·3	0	5	0	0	15	0	0	0	0	0	0
Sambalpur .	42·9	+1·5	45·2	20,21	..	..	..	..	0	0	—27·4	0	..	0	—2·3	7·8	6·5	+1·2	0	0	0	0	0	0	0	0	0	0	0
Angul . .	40·1	+0·4	44·1	20	21·4	—4·7	15·6	24	10·6	17·0	—42·7	10·6	31	2	—2·7	10·4	11·2	+2·2	0	2	0	0	0	0	0	0	0	0	0
Cuttack .	37·8	—0·8	41·4	2'	26·8	+0·2	23·2	17	35·6	119·6	+28·9	35·4	16	6	+0·8	11·7	9·5	+3·4	0	7	0	0	10	0	0	0	0	0	0
Chandbali .	35·8	—0·5	39·9	27	24·7	—1·5	19·5	11	53·0	67·6	—74·1	30·8	11	5	—0·4	18·5	13·5	—2·8	0	7	0	0	1	0	0	0	0	0	0
Bolangir .	43·1	..	45·6	22	27·9	..	24·1	23	9·4	11·0	..	8·2	23	1	..	9·8	9·1	..	0	3	0	0	5	0	0	0	0	0	0
Phulbani .	39·5	..	42.6	10	24·2	..	21·4	26	17·2	30·8	..	12·8	29	3	..	5·4	2·7	..	0	4	0	0	1	0	0	0	0	0	0
Titlagarh .	43·9	..	47·0	11	28·4	..	26·2	16	8·8	8·8	..	5·4	31	2	..	6·9	5·4	..	0	2	0	0	0	0	0	0	0	0	0
Bhubaneswar .	37·2	—0·8	40·6	21	26·1	—1·0	21·9	17	45·2	82·6	+21·8	41·2	25	5	+2·6	24·3	20.9	—6·7	1	6	0	0	11	0	0	0	0	4	0
Puri .	32·8	+0·8	39·2	23	27·7	+0·4	23·2	23	0·4	17 8	—54 8	10 0	11	2	—1·2	25·1	25.7	+4·3	0	2	0	0	1	0	0	0	0	0	0
Gopalpur .	32·9	+0·5	34·3	31	26·4	—0·3	21·5	13	2·0	44·8	—9·3	17·4	12	5	+1·9	25·2	22·6	+2·0	0	6	0	0	8	0	1	0	0	1	0
Koraput (R)																													
Bihar Plateau																													
Dumka .	36·0	—1·2	42·8	3	24·3	—0·9	18·8	10	44·0	111·2	+19·5	42·0	10	8	+2·9	8·6	6·1	+1·3	0	9	0	0	6	0	0	0	0	0	0
Daltonganj (R)																													
Hazaribagh .	36·4	—1·0	41·0	5	22·8	—1·4	17·7	10	17·8	48·0	—1·8	14·4	10	6	+2·6	12·3 (a)	9·8	—1·6	0	7	0	0	9	0	0	0	1	1	0
Dhanbad .	37·2	..	43·8	5	24·1	..	19·5	10	38·2	78·2	..	25·6	12	5	..	5·6	6·8	..	0	6	0	3	6	0	0	0	0	0	0
Ranchi . .	37·0	0	40·7	6	21·7	—2·4	13·8	16	68·0	78·0	+24·1	29·0	21	5	+0·9	6·7	5·5	—2·4	0	5	0	0	5	0	0	0	0	0	0
Ranchi Aerodrome.	35·8	..	40·4	2	22·6	..	18·2	12	44·8	105·0	..	40·4	14	5	..	13·5	9·8	..	0	8	0	0	10	0	0	0	0	4	0
Jamshedpur .	39·6	+0·2	43·3	5	26·6	+0·4	21·7	13	5·2	54·6	—24·9	44·8	13	2	—3·1	10·5	8·6	+1·8	0	4	0	0	4	0	1	0	0	1	0
Jameshdpur (P.B.O.)	39·5	..	43·4	5	26·8	..	21·6	13	3·6	23·0	..	16 2	13	2	..	11·0	8·5	..	0	4	0	0	9	0	0	0	0	3	0
Chaibasa .	39·7	—0·3	43·5	4,5,6	25·1	—1·1	20·2	10	45 4	68 8	—0·8	24·8	7	6	+0·8	6·3	4·5	+0·3	0	8	0	1	0	0	0	0	0	0	0
Bihar Plains																													
Motihari .	33·3	—2·9	39·4	31	22·6	—1·1	19·4	11	31·6	148·6	+81·5	85.6	13	5	+1·2	5·1	3·3	—4·7	0	5	0	0	6	0	0	0	0	0	0
Forbesganj .	34·0	..	40·6	31	22·5	..	17·5	22	14·7	94·9	..	24·0	12	7	..	11·3	8·9	..	0	7	0	0	6	0	0	0	0	2	0
Darbhanga .	35.8	+0·1	41·1	31	23·7	—0·5	19·2	11	39·8	63·2	—0·5	27·8	11	4	+0·5	8·6	7·9	+0·8	0	4	0	0	1	0	0	0	0	0	0
Muzaffarpur .	..	..	..	..	..	..	..	..	..	62·2	+11·9	26·1	11	5	+1·9	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Chapra . .	37·3	..	42·1	2	24·2	..	20·2	21	16·2	84·8	+51·8	58·6	21	4	+2·2	8·5	6·5	..	0	7	0	0	2	0	2	0	0	0	0
Purnea . .	34·0	—0·9	40·7	31	22·7	—0·9	19·0	11	44·2	92·0	—14·2	40·6	12	6	+0·5	9·2	6·3	+0·8	1	6	0	0	7	0	2	0	0	0	0
Patna . .	37·7	—0·2	43·1	30	24·8	—0·8	20·4	22	38·8	65·6	+30·0	27·0	22	6	+3·7	8·7	8·6	+0·4	0	6	0	0	5	0	2	0	0	0	0
Patna Aerodrome.	37·1	..	42·3	2	23·4	..	18·8	22	48·3	83·5	..	35·5	22	5	..	8·5	6·6	..	0	6	0	0	7	1	3	0	0	2	0
Arrah . .	..	..	..	..	..	..	..	..	..	4·6	—26·6	4·6	12	1	—0·8	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bhagalpur .	36·0	—2·3	41·7	30,31	24·1	—1·7	20·5	22	17·8	38·1	—10·0	16·6	10	3	+0·1	10·2	8·3	—1·8	2	6	0	0	12	0	0	0	0	2	0
Sabaur .	35·9	—0·9	41·9	31	23·7	—0·6	20·4	26	36·0	57·8	+3·2	24·0	22	4	+0·4	11·0	8·6	—2·5	0	8	0	0	10	0	0	0	0	4	0
Jamui . .	38·1	..	42·9	31	24·2	..	20·1	22	27 2	29·6	..	27·2	22	1	..	7·0	5·3	..	0	2	0	0	0	0	0	0	0	0	0
Dehri . .	39·8	..	44·1	4	25·5	..	19·9	12	0	75·6	+59·6	69·2	12	2	+0·8	8·9	6·4	..	0	3	0	0	1	0	1	0	0	0	0
Gaya . .	39·6	—0·7	44·0	4	25·3	—1·3	20·7	12	33·2	45·4	+21·8	25·0	14	4	+2·3	13·0	11·0	+1·3	0	5	0	0	5	0	0	0	0	6	0
Uttar Pradesh (East)																													
Kheri .	37·8	—2·5	42·5	4	22·8	—2·6	19·0	14	17·4	46·7	+22·4	17·4	14	4	+2·9	4·0	4·8	—0·6	0	4	0	0	9	0	4	0	0	0	0
Bahraich .	38·1	—1·0	42·9	2	23·9	—1·2	20·0	14	85.9	95·6	+64·9	71·0	13	4	+1·9	11·3	8·2	+2·6	0	4	0	0	6	0	0	0	0	0	0

(a) Mean of 30 days. (R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetre					No. of rainy days (2·5 mm. more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Nauranwa	37·1	..	42·6	31	21·9	..	18.4	10,17	21·4	44·6	..	13·6	21	5	..	11·0	7·5	..	0	5	0	0	0	0	0	0	0	0	0
Hardoi	38·7	−2·4	44·0	4	22·1	−3·2	17·6	13	19·4	40·9	+32·1	20·5	13	2	+1·4	10·0	7·3	−0·5	0	3	0	0	0	0	0	0	0	0	0
Gonda	38·7	−0·6	43·0	3	23·2	−2·2	19·2	14	2·2	25·6	−0·6	9·2	6	3	+1·1	7·0	6·0	−2·2	0	4	0	0	2	0	0	0	0	0	0
Lucknow	37·5	−3·3	43·0	4	23·2	−2·5	18·2	21	10·6	61·4	+41·8	26·8	21	4	+2·7	3·0	2·6	−1·4	0	5	0	0	6	0	0	0	0	0	0
Lucknow (Amausi).	38·7	−1·8	44·1	4	22·6	−2·2	18·5	13	10·7	72·5	+52·9	40·0	21	4	+2·7	12·9	10·3	..	0	6	0	0	6	0	4	0	0	0	0
Faizabad	37·6	..	42·2	3	22·1	..	18·6	13	8·4	61·7	..	43·3	13	2	..	6·0	4·1	..	0	3	3	0	3	0	0	0	0	0	0
Gorakhpur	37·9	−0·5	42·8	31	22·7	−2·2	19·3	21	16·2	67·6	+32·5	32·0	21	4	+1·5	..	..	..	0	4	0	0	1	0	0	0	0	0	0
Kanpur	39·6	−1·6	44·9	4	24·1	−2·8	18·9	13,14	4·0	19·0	+10·9	19·0	13	1	0	17·0	12·5	−0·2	0	1	0	0	4	0	7	0	0	0	0
Kanpur (Aerodrome).	40·1	..	45·1	5	25·1	..	19·7	14	20·8	28·3	..	25·8	12	3	..	..	..	..	0	3	0	0	4	0	6	0	0	0	0
Sultanpur	38·7	..	44·0	4	23·3	..	19·0	3	0	82·4	..	62·0	13	3	..	7·4	5·9	..	0	3	0	0	4	0	1	0	0	0	0
Azamgarh	37·4	..	43.3	3	23·9	..	19·5	21	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	40·4	−1·4	45·3	5	24·8	−2·1	20·8	14	0	5·8	+2·2	2·8	11	2	+1·4	11·7	7·3	+0·9	0	3	0	0	4	0	0	0	0	0	0
Ballia	33·7	..	43·0	3	21·0	..	16·1	13	25·0	144·8	..	69·4	13	3	..	8·5	6·2	..	0	3	0	0	0	0	5	0	0	0	0
Banda	41·6	..	46·1	4	23·5	..	17·2	13	4·3	5·5	..	5·5	11	1	..	6·5	3·5	..	0	1	0	0	1	0	4	0	0	0	0
Allahabad (Bamhrauli)	41·0	−0·7	45·5	4	25·1	−1·5	20·0	12	1·0	7·8	−8·2	5·0	11	1	−0·2	9·7	6·6	−1·0	2	3	0	0	7	0	1	0	0	0	0
Varanasi (Babatpur).	39·7	−1·9	44·0	4	24·4	−2·7	20·5	13	0	15·7	+7·8	14·5	13	1	+0·6	9·3	7·1	−5·6	0	2	0	0	3	0	3	0	0	0	0
Varanasi	39·7	−1·1	44·0	4	22·0	−4·2	17·3	13	0	58·0	+44·5	30·2	12	3	+1·9	8·5	6·0	−0·3	0	3	0	0	1	0	2	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	23.9	..	29.8	4	..	..	..	..	34.1	133.6	..	41.4	23	8	..	..	..	..	3	11	0	0	14	2	0	0	0	0	0
Tehri	34.8	..	40.6	4	17.4	..	13.1	23	16.2	70.6	..	24.6	23	5	..	4.9	3.2	..	1	9	0	0	8	2	0	0	0	0	0
Dehra Dun	34·7	−0·9	39·7	4	18·9	−2·3	14·7	23	11·5	40·8	+4·0	10·6	12	5	+2·0	6·2	4·4	+0·7	0	7	0	0	10	0	0	0	0	0	0
Mansiari	19.5	..	25.6	3	10.7	..	5.0	22	..	164.4	..	24.6	14	11	..	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Roorkee	37·5	−1·5	43·0	4	19·0	−4·3	17·0	13	0	16·7	−2·6	7·6	12	3	+1·3	10·0	7·7	+2·6	0	3	0	0	6	0	0	0	0	0	0
Najibabad	38·1	..	42·9	4	20.4	..	16·5	12	18.8	66·6	..	26·6	23	5	..	12·0	9·0	..	0	5	0	0	9	0	0	0	0	0	0
Meerut	37·7	−1·8	43·0	4	21·7	−2·5	17·9	12	..	56·5	+41·3	36·5	10	2	+0·5	..	10·2	..	0	2	0	0	3	0	3	0	0	0	0
Bareilly	38·9	−0·6	44·0	4	23·3	−1·8	19·3	12	12·8	59·3	+42·5	17·2	12	5	+3·5	11·4	8·6	+3·9	1	5	0	1	6	0	0	0	0	0	0
Aligarh	38·6	−2·1	43·2	4	23·1	−3·2	19·0	13	0	0·2	−10·2	0·2	28	0	−1·2	11·7	10·0	+1·6	1	0	0	0	0	0	0	0	0	0	0
Mainpuri	40·6	−1·3	45·1	5	..	..	..	..	0	0	−12·9	0	..	0	−1·2	7·8	5·6	+1·3	0	0	0	0	2	0	3	0	0	0	0
Agra	40·4	−0·8	44·5	4	24·7	−1·0	20·0	14	0	16·5	+6·8	7·4	11	3	+1·9	5·7	4·8	−2·4	0	4	0	0	5	0	0	0	0	0	0
Agra (Aerodrome).	40·8	..	45·3	4	23·5	..	20·3	1	1·3	8·5	..	2·8	11	2	..	..	..	..	0	5	0	0	7	0	4	0	0	0	0
Orai	40.7	..	45·4	5	25·8	..	19 0	13	19·0	23 0	..	19 0	11	2	..	12·1	9·8	..	0	2	0	0	0	0	0	0	0	0	0
Jhansi	41·4	−1·1	45·0	9	25·7	−2·4	19·8	13	10·2	10·2	+0·8	10·2	12	1	0	8·5	7·5	+0·6	0	1	0	0	0	0	2	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	37·2	−1·8	41·9	3,10	20·1	−3.1	10·4	16	0	9·9	−7·2	5·6	12	1	−0·4	..	..	..	0	3	0	0	9	0	4	0	0	0	0
Amritsar (Rajsausi)	37·3	−2·1	41·7	10	19·7	−2·1	13·9	23	1.2	25·6	+16·0	17·4	14	2	+0·8	12·5	10·9	−0·6	0	5	0	0	11	0	5	0	0	0	0
Adampur (Aerodrome.)	37·5	..	43·2	3	18·6	..	13·9	2	1·8	18·8	..	10·7	14	3	..	..	..	..	0	3	0	0	10	0	3	0	0	0	0
Ludhiana	39·4	−0·7	45·9	4	17·9	−6·4	11·7	1	0	36·0	+22·5	18·2	14	2	+0·5	7·0	5·8	+2·3	0	3	0	0	4	0	4	0	0	0	0
Ferozepur	37·9	..	43·4	4	20·5	..	13·2	23	6.0	29·4	..	22 0	14	2	..	6·0	4·0	..	0	2	0	0	3	0	10	0	0	0	0
Halwara (Aerodrome).	37·7	..	43·1	1	19·9	..	15·7	25	0	36·6	..	32·6	12	1	..	..	..	..	0	4	0	0	8	0	6	0	0	0	0
Chndigarh	37·1	−1·2	42·6	4	23·8	+0·2	17·0	22	21·9	37·6	+24·5	23·2	23	3	+1·6	..	..	..	1	5	0	0	0	0	0	0	0	0	0
Ambala	38·1	−1.8	43·2	9	22·0	−2·3	15·4	4	39·5	84·9	+66·4	29·2	23	4	+2·5	11·0	8·4	+2·4	0	5	0	0	6	0	0	0	0	0	0
Ambala (Aerodrome).	37.4	..	43·0	4	20·9	..	15·6	12	0	0	..	0	..	0	..	..	..	..	0	0	0	0	9	0	9	0	0	0	0
Patiala	38·0	..	43·9	4	22·2	..	17·7	23	7·0	20·2	+13·9	11·0	12	2	+1·2	11·9	9·6	..	0	3	0	0	6	0	0	0	0	0	0
Bhatinda	40·2	..	44·9	8,9	21·5	..	15·4	23	0	25·5	..	15 5	14	2	..	6·6	6·3	..	0	2	0	0	2	0	0	0	0	0	0
Karnal	37·3	..	42·5	4	21·1	..	17·0	13	0	13·0	..	11·0	12	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hissar	39·2	−1·5	43·5	9	22·6	−1·8	18·0	23	0	26·2	+12·5	24 5	12	1	−0·4	9.0	9·0	+1·0	0	2	0	0	4	0	3	0	0	0	0
New Delhi (Safdarjang)	38·4	−2·8	42·8	4	23·5	−3·2	17·5	12	0	16 0	+2·8	7 6	12	3	+1 4	15·4	12·4	−1·3	0	3	0	0	5	0	4	0	0	0	0
Palam (Aerodrome).	39·9	..	46·5	3	22·6	..	18·5	12	0	25·6	..	20·0	12	3	..	..	..	..	0	3	0	0	7	0	2	0	0	0	0
Himachal Pradesh.																													
Mandi	33·5	−1·3	38·9	4	..	..	..	..	19·5	111·3	+65·6	60·0	14	6	+2·3	4.4	3·4	−0·4	0	8	0	0	6	0	0	0	0	0	0
Bilaspur	33·0	..	41·0	10	13·4	..	5.9	22	6 0	64·8	..	42·0	22	5	..	5·0	4·6	..	0	6	0	0	3	0	0	0	0	0	0

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind sped Kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2mm.)	Precipitation (0.3 m. m. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	3·0	—58·5	2·2	21	0	—5·4	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Sonamarg																													
Leh	14·0	—3·6	18·6	31	—0·7	—3·5	—3·3	25	0·8	8·4	+2·8	3·6	4	1	+0·3	4·5	4·8	+0·3	0	4	0	0	0	0	0	0	0	0	0
Srinagar	23·8	—1·2	28·5	31	9·5	—1·0	7·0	23	1·3	30·3	—30·2	22·3	21	2	—3·4	8·7	5·2	+0·7	0	5	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome).	22·3	..	26·8	31	9·0	..	5·6	1,23	0	31·0	..	23·9	21	3	..	..	..	..	0	4	0	0	14	0	0	0	1	0	0
Gulmarg									Closed during winter months																				
Qazigund	22·0	..	27·4	31	8·8	..	4·3	23	10·7	68·3	..	39·2	21	6	..	6·2	4·8	..	1	8	0	0	12	0	0	0	0	0	0
Banihal	24·3	..	28·4	3	9·2	..	4·0	23	5·8	65·7	..	42·2	21	5	..	..	..	..	0	8	0	0	12	0	0	0	0	0	0
Jammu	37·3	—0.4	42·6	10	23·3	—2·4	16·6	23	1·5	22·9	—0·2	9·6	21	3	+0·9	6·9	7·3	..	0	4	0	0	2	0	3	0	0	0	0
Jammu (Aerodrome).	37·0	..	44·4	9	22·5	..	16·2	16	20·0	32·9	..	20·0	22	4	..	..	..	..	0	4	0	0	8	0	6	0	0	2	0
Rajasthan (West)																													
Ganganagar	39·3	—1·7	43·6	9	23·5	—0·9	17·0	23	0	0	—15·8	0	..	0	—1·7	7·1	5·8	+0·1	0	0	0	0	3	0	2	0	0	0	0
Anupgarh (R)																													
Mahajan (R)																													
Churu	40·2	..	44·4	20	23·8	..	19·1	1	28·4	51·8	..	19·4	28	4	..	14.1	11·0	..	0	4	0	0	9	0	8	0	0	0	0
Bikaner	41·5	—0·6	45·0	3	25·2	—2.4	21·1	1	0	30·4	+15·4	22·6	20	2	+0·7	9·1	8·5	—1.6	0	3	0	0	3	0	2	0	0	0	0
Nagaur	39·8	..	42·9	2	25·3	..	21·5	14	4·0	12·0	..	12·0	29	1	..	17·7	14·1	..	0	1	0	0	3	0	12	0	0	0	0
Phalodi	42·0	..	44·7	8	25·4	..	22·0	14	0	0	—9·7	0	..	0	—0·8	22·5	20·4	..	0	0	0	0	2	0	4	0	0	0	0
Jaisalmer	43·0	..	44·6	3	26·1	..	21·0	20	15·2	15·2	..	15·2	30	1	..	18·8	16·0	..	0	1	0	0	0	0	0	0	0	0	0
Jodhpur	41·7	+0·9	45·1	8	26·7	+0·4	21·1	13	0	40·8	+30·4	26·2	14	3	+1·9	16·6	14·5	—2·7	0	4	0	0	4	0	10	0	0	5	0
Barmer	42·7	+1·4	45·5	8	26·6	—0·1	22·5	30	2·0	5·0	—3·9	3·0	30	1	+0·3	12·7	12·2	+1·1	0	2	0	0	3	0	2	0	0	0	0
Erinpura (Jawai Dam).	40·1	..	43·8	1,7	26·6	..	18·4	13 9	0	29·9	..	20·6	13	2	..	9·2	8·1	..	0	2	0	0	0	0	0	0	0	0	0
Munabao (R).																													
Rajasthan (East)																													
Pilani	39·5	..	44·0	4	21·6	..	17·3	8,28	4·3	13·2	..	9·8	21	2	..	15·2	13·2	..	0	3	0	0	0	0	0	0	0	0	0
Sikar	39·3	..	42·1	5	22·4	..	17·4	1	0	19·7	..	19·7	28	1	..	13·0	9·0	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	39·8	..	44·5	4	25·1	..	20·1	12	2·0	51·0	..	23·6	21	4	..	4·7	3·4	..	0	4	0	0	0	0	0	0	1	0	0
Jaipur (Sanganer)	39·5	—1·2	43·8	20	23·9	+1·0	18·7	28	9·7	82·3	+67·8	50·6	28	4	+2·4	..	..	..	0	7	0	0	7	0	4	0	4	0	4
Dholpur	41·2	..	44·5	9	25·1	..	20·8	28	2·4	9·5	..	4·6	28	1	..	8·7	6·7	..	0	4	0	0	6	0	4	0	0	0	0
Ajmer	39·4	0	42·7	3	25.1	—1.7	17·2	12	16·0	56·4	+40·1	15·2	12	5	+3·5	..	12·7	+2·2	0	6	0	0	9	0	6	0	0	0	0
Tonk	41·0	..	45·1	20	25·0	..	19·3	29	0	76·2	..	21·0	28	6	..	12·1	10·5	..	0	7	0	0	6	0	3	0	0	0	0
Bhilwara	40·9	..	44·2	20	27·4	..	16·9	28	0	21·2	..	13·6	28	3	..	15·0	13·0	..	0	3	0	0	3	0	2	0	0	0	0
Kota (Aerodrome).	42·2	..	45·4	20	27·5	..	20·8	28	0·9	39·9	..	17·0	26	3	..	17·5	15·8	+3·5	0	5	0	0	8	0	4	0	0	0	0
Kota	41·5	—0·5	45·0	20	28·7	—0·5	21·0	27	0	26·6	+14·7	12·0	27	3	+2·0	12·1	10·1	..	0	6	0	0	6	0	3	0	0	0	0
Chambal (Rawat Bhatta Dam).	41·1	..	43·7	4,20	26·1	..	17·4	29	0	66·0	..	39·2	27	3	..	14·6	10·8	..	0	6	0	0	9	0	0	0	0	0	0
Udaipur	38·9	—0·3	42·5	1	24·1	—1·9	17·2	29	5·0	23·9	+5·6	18·5	29	2	+0·5	8·0	5·3	..	0	3	0	0	7	0	0	0	0	0	0
Jhalawar	41·5	—0·2	44·3	20	26·0	—0·9	20·5	12	0·7	0·7	—8·2	0·6	12	0	—0·9	13·2	11·4	+3·0	1	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	41·0	—2.1	45·3	1	25·2	—3·4	20·2	28	2·6	7·2	+0·3	3·4	28	2	+1·1	13·4	9·3	..	1	4	0	0	11	0	0	0	1	0	0
Sheopur	41·2	—1.2	45·0	20	25·7	—1·1	21·0	27	6·5	27·1	+17·1	13·0	28	2	+1·4	13·1	10·4	+0·9	0	4	0	1	8	0	1	0	0	0	0
Shivpuri	39·6	..	43·0	4	22·1	..	17·0	28	0	28·2	..	16·8	28	3	..	11·7	9·7	..	1	4	0	0	0	0	0	0	0	0	0
Nowgong	41·2	—0·7	44·9	4 5	24·1	—2·2	19·9	13,25	4·2	5·0	—4·4	4·2	12	1	0	10·0	6·2	+1·7	0	2	0	0	2	0	1	0	0	0	0
Guna	41·2	—0.1	44·6	20	24·2	—1·1	19 2	12	0	16·3	+2·6	5·0	28	4	+2·8	17·5	12·5	..	0	4	0	1	8	0	0	0	0	1	0
Nimach	39·1	—0.6	42·8	19	24·8	—0·4	18·8	12	4·1	46.9	+31·9	25·4	12	4	+2·8	17·6	15 0	+1·6	1	6	0	0	3	0	0	0	0	0	0
Rajgarh	41·9	..	44·6	5,19,20	25·6	..	18·9	18	0	10·8	..	10·0	12	1	..	17·5	12·7	..	0	2	0	0	0	0	0	0	0	0	0
Sagar	39·9	—0.5	43·0	1,2,20	26·1	+0·1	19·8	28	0	25·0	+14·3	18·0	27	2	+0·9	..	..	..	0	3	0	0	5	0	0	0	0	0	0
Ratlam	39·6	0	43·5	1	24·2	—1·7	18·4	29	8·8	20·4	+9·8	9.4	31	2	+1·1	15·3	13·1	+2·0	0	4	0	0	2	0	0	0	0	0	0
Bhopal (Bairagarh)	40·7	+0.3	43·8	1	23·7	—2·4	20·3	29	0·5	8·5	—6·0	3·8	28	1	—0·2	20·0	17·2	+3·5	0	4	0	0	6	0	1	0	0	4	1
Ujjain	39·8	..	42·6	1,2	24·3	..	19·6	29	2·5	3·1	..	3·1	31	1	..	(a) 20.3	(b) 18·0	..	0	1	0	0	1	0	0	0	0	0	0
Narsinghpur	42·3	..	44·5	1	25·1	..	21·1	8	0	1·4	..	1·4	12	0	..	9·8	6·0	..	0	1	0	0	0	0	1	0	0	0	0

(R) Register not received. (a) Mean of 30 days. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—(Contd.)																													
Hoshangabad.	42·0	+0·4	45·3	1	25·7	−1·5	20·7	27	8·2	10·0	−2·5	8·2	27	1	−0·2	12.5	8·5	+3·4	0	2	0	0	2	0	0	0	0	0	0
Indore . .	39·9	−0·2	43·0	1	23·9	−0·3	20·6	29,31	0	7·0	−5.9	7·0	31	1	−0·3	23.9	22·2	..	0	1	0	0	2	0	1	0	0	2	0
Raipur (Jhabua).	39·1	..	43·2	1	24·2	..	19·4	29	0	50·8	..	18·2	15	4	..	19.9	16·3	..	0	4	0	0	4	0	1	0	0	0	0
Chhindwara .	39·9	+0·6	42·6	1,4	25·4	−0·1	21·5	8	0	0	−15·2	0	..	0	−1·2	13.0	8·8	+1·1	0	0	0	0	0	0	0	0	0	0	0
Seoni . .	40·9	+1·1	43·2	1,6	25·2	+0·6	21·2	7	3·2	3.2	−16·1	3.2	13	1	−0·7	12.7	7·7	+1·6	0	1	0	0	1	0	0	0	0	0	0
Betul . .	39·8	+0·7	42·8	1	23·4	−1·3	20·2	8	0	0	−10·3	0	..	0	−1·0	10.4	6·3	−0·8	0	0	0	0	0	0	0	0	0	0	0
Khandwa .	41·9	+0·3	45·0	1	27·6	+0·3	25·0	13	0	0	−7·9	0	..	0	−0·7	20.2	14·9	+2·0	0	0	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna . .	41·6	+0·6	44·9	5,20	25·4	−1·2	20·9	13	0	0	−11·9	0	..	0	−1·3	13.6	8·6	+1·4	0	0	0	0	1	0	0	0	0	0	0
Sidhi . .	41·3	..	44·9	5,6	24·3	..	20·3	25	6·0	15·5	..	9·5	11	2	..	10.7	6·3	..	0	3	0	0	0	0	0	0	0	0	0
Umaria .	41·6	+0·8	44·7	25	24·0	−2·1	21·3	25	0	0	−10·9	0	..	0	−0·7	10.2	6·1	+0·5	0	0	0	0	0	0	2	0	0	0	0
Jabalpur .	41·8	+1·0	44·5	4	25·3	+0·1	21·5	3	1·2	1·2	−14·5	1·2	12	0	−1·4	11.1	7·1	+2.3	0	1	0	0	1	0	0	0	0	0	0
Ambikapur .	39·5	−0·1	41·7	20	24·0	−0·8	21·5	14	6·8	9·4	−5·4	6·8	22	1	−0·5	12·5	9·6	−0·1	1	2	0	0	2	0	1	0	0	0	0
Pendra . .	39·6	+1·7	42·5	5	25·3	+0·1	20·6	12	3·9	6·8	−14·5	4·0	22	1	−1·1	12.5	8·3	..	1	3	0	0	4	0	0	0	0	0	0
Mandla .	41·3	0	43·7	5	23·0	−1·3	19·0	2	0	0	−7·7	0	..	0	−0·9	11.2	5·7	+0·8	0	0	0	0	1	0	0	0	0	0	0
Champa .	43·3	+0·4	45·4	10,20	27·4	−1·3	23·7	26	8·4	8·6	−3·6	8·6	31	1	−0·3	9.2	7·0	−0·6	0	1	0	0	4	0	1	0	0	0	0
Raigarh .	43·2	+0·4	45·6	6,21	27·7	−1·2	24·0	13	5·0	8·0	−5·7	6·4	13	1	−0·7	7·5	6·3	−0·0	0	2	0	0	1	0	0	0	0	0	0
Raipur . .	42·7	+0·9	45·2	20	28·9	+1·1	27·0	14,15	0	0·2	−22·4	0·2	10	0	−2·1	11.0	8·6	−2·8	1	0	0	0	3	0	0	0	0	0	0
Kanker . .	41·1	+0·9	43·5	10	28·1	+1·8	24·0	9	0	0·5	−37·4	0·5	13	0	−2·7	11.8	8·6	+1·4	0	1	0	0	3	0	0	0	0	0	0
Jagdalpur .	39·4	+1·1	42·6	29	25·2	+1·0	22·3	25	25·2	25·4	−34·5	9·1	4	3	−1·8	7.6	5·5	..	0	4	0	0	8	0	0	0	0	2	0
Gujarat Region																													
Deesa . .	41·9	..	44·0	1,7	25·2	..	21·7	1	0	0	..	0	..	0	..	16·6	12·8	..	0	0	0	0	0	0	0	0	0	0	0
Radhaupur .	42·9	..	44·0	1	25·2	..	20·9	1	0	0	..	0	..	0	..	13·7	12·4	..	0	0	0	0	0	0	0	0	0	0	0
Idar . .	40·5	..	44·3	1	24·7	..	20·0	29	0	0	..	0	..	0	..	12·5	8·8	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad .	41·6	0	44·5	1	26·3	+0·4	23·4	29	1·2	7·0	−2·9	5·8	12	1	+0·3	10·0	8·5	−1·0	0	2	0	0	3	0	1	0	0	0	0
Dohad . .	39·6	+0·1	44·0	1	24·3	−1·8	17·5	29	0	17·2	+7·5	13·0	31	2	+1·6	26·9	26·5	+0·4	0	2	0	0	4	0	1	0	0	0	0
Vallabh Vidyanagar	40·4	..	44·5	1	25·7	..	22·7	29	0	0·1	..	0·1	16	0	..	13·1	10·5	..	1	0	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	39·9	..	43·7	1	26·3	..	21·6	29	0	0·6	..	0·4	16	0	..	13·1	15·9	..	1	1	0	0	1	0	0	0	0	0	0
Baroda . .	40·6	−0·1	45·0	1	26·7	+0·6	22·3	29	0	1·4	−2·7	1·4	16	0	−0·1	6·6	4·7	−3·7	0	1	0	0	1	0	0	0	0	0	0
Broach . .	38·4	−1·3	42·9	18	26·3	−0·6	24·0	29	0	0	−17·0	0	..	0	−0·5	10·0	7·9	−3·4	0	0	0	0	0	0	0	0	0	0	0
Surat .	35·4	−0·9	39·8	2,17	27·1	+1·0	25·6	1,4	0	0	−6·1	0	..	0	−0·3	15·5	14·9	+4·3	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya . .	34·2	..	38·2	1	25·5	..	21·6	1	0	0	..	0	..	0	..	27·4	20·5	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	38·8	+0·1	42·8	6	25·3	+0·2	20·9	1	0	0	−6·6	0	..	0	−0·3	26·3	22·1	+2·9	0	0	0	0	0	0	0	0	0	0	0
Kandla (Aerodrome)	39·8	..	43·2	31	..	..	..	..	0	0	..	0	..	0	..	36·3	30·8	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla .	35·3	..	38·3	23	26·3	..	22·7	1	0	0	..	0	..	0	..	37·3	31·5	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi .	32·0	−0·7	33·0	29	26·9	+0·7	21·6	1	0	0	−3·0	0	..	0	0	37·4	34·1	+4·0	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	41·6	−0·2	43·5	1	26·0	−0·1	22·1	13	0	49·0	+43·9	49·0	13	1	+0·6	(a) 17·3	(b) 18·4	+0·1	0	1	0	0	1	0	0	0	0	0	0
Okha . .	31·7	..	33·3	4	26·5	..	25·0	1	0	0	..	0	.	0	..	30.3	27·0	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	35·3	−0·8	38·6	28	25·7	+0·9	20·9	1	0	0	−7·6	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka .	31·5	+0·4	32·7	29	27·1	+0·1	25·6	1	0	0	−0·5	0	..	0	−0·1	23·7	22·8	+4·5	0	0	0	0	0	0	0	0	0	0	0
Rajkot . .	40·3	−0·3	42·4	4	24·7	−0·1	20·7	2	0	13·0	+10·5	13·0	14	1	+0·7	31·8	29·1	+2·9	0	1	0	0	1	0	0	0	1	0	0
Bhaunagar (Aerodrome)	40·4	+1·0	44·3	31	26·0	+0.4	21·3	1	0	0	−10·4	0	..	0	−0.7	27·3	25·7	+6·0	0	0	0	0	1	0	0	0	3	0	0
Porbander (Aerodrome)	32·9	+0·6	36·5	1	26·4	−0.1	20·5	1	0	0	−0·1	0	..	0	0	24·8	18·7	..	0	0	0	0	0	0	0	0	0	0	0
Keshod .	36·1	..	41·4	1	25·2	..	20·8	1	0	0	..	0	..	0	..	30·5	25·0	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva .	34·7	..	41·4	1	..	..	..	..	0	0	..	0	..	0	..	19·4	18·1	..	0	0	0	0	0	0	0	0	0	0	0
Veraval .	31·7	..	34·4	10	26·2	..	20·9	1	0	0	−7·1	0	..	0	−0·3	24·5	22·5	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu .	33·1	+0·1	34·4	21	27·2	+0·4	24·3	1	0	0	−5·8	0	..	0	−0·5	(b) 23·8	(b) 17·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa-Cruz)	33·4	+1·0	34·0	27	26·2	+1·1	23·3	15	0	1·6	−13·8	1·6	15	0	−1·5	19·3	12·9	..	0	1	0	0	0	0	0	0	0	1	0
Bombay .	33·4	+0·6	34.1	28,31	27·3	+0·9	25·2	1	0	0	−16·5	0	..	0	−0·8	9·1	6·5	−4·3	0	0	0	0	1	0	0	0	0	1	0
Alibag . .	32·8	+1·2	33·7	24	27·1	+0·9	24·6	2,3	..	0	−26·4	0	..	0	−0·8	..	15·3	+1·9	0	0	0	0	0	0	0	0	0	0	0
Bhira . .	39·0	..	41·5	5,20	25.2	..	22·5	3	22·4	22·4	..	18·0	17	2	..	6·4	3·8	..	0	2	0	0	2	0	0	0	0	0	0

(a) Mean of 30 days (b) Mean of 29 days

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, Kms. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20b)	21	22	23	24	25	26	27	28	29
Konkan— *(contd.)*																														
Harnai	31.1	+0.4	33.2	17	27.4	+0.5	23.3	17	2.2	3.4	—40.6	2.2	17	0	—2.7	19.4	16.8	+0.8	0	2	0	0	2	0	0	0	0	0	0
Ratnagiri	33·2	..	33.9	12	26·7	..	24·4	11	0	0	—27·9	0	..	0	—1·4	16·8	10·8	..	0	0	0	0	1	0	0	0	0	0	0
Devgarh	33·4	+0.7	34·6	27	27·8	+0·6	26·5	7	0	0	—53·1	0	..	0	—3 1	21·2	19·6	+2·1	0	0	0	0	0	0	0	0	0	0	0
Vengurla	33·3	+0·7	34·0	16	26·5	+0·5	24·7	3	0	1·0	—84·1	0·6	17	0	—4·3	15·5	8·6	..	0	2	0	0	3	0	0	0	0	0	0
Panjim	33·4	..	34·5	17,20	26·4	..	25·0	18	0	1·0	..	1·0	18	0	..	19·0	13·3	..	0	1	0	0	1	0	0	0	0	0	0
Marmugao	32.3	..	33.0	1,21	27.2	..	24.2	19	3.7	5.3	..	2.1	19	0	..	18.5	17.3	..	0	3	0	0	1	0	0	0	0	0	0
Madhya Maharashtra																														
Nandurbar	39·9	..	43·8	1	24·7	..	20·1	29,31	6·6	22·3	..	11·5	31	4	..	16·0	14·0	..	0	4	0	0	0	0	0	0	0	0	0
Jalgaon	43·1	+0·5	47·2	1	26·9	—0·4	24·8	31	0	0	—10·6	0	..	0	—0.9	28·5	27·4	+5.8	0	0	0	0	1	0	0	0	0	0	0
Malegaon	41·2	+0·6	43·9	1	23·3	—0·6	19·4	8	0	3·4	—15·1	3·4	31	1	—0·2	16·8	14·6	+0·6	0	1	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	37·7	..	40·1	4	22·0	..	19·7	2	6·6	6·6	..	6·6	14	1	..	20·4	17·9	..	0	1	0	0	4	0	0	0	0	0	0
Ahmadnagar	40·9	+2·1	42·8	4,6,7	21·4	—0·9	17·5	11	0	0	—23·1	0	..	0	—1·6	15·2	12·0	—0·6	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	24·2	+4·1	15·0	14	2	+0·7	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	36·7	..	38·8	5,6	21·6	..	19·4	3	22·8	22·8	..	14·7	17	2	..	..	..	..	0	3	0	0	4	0	0	0	0	2	0
Poona	37·0	+0·3	39·8	1	21·8	—0·6	18·1	3	12·3	12·3	—14·6	10·7	17	1	—0·7	16·0	13·2	..	0	2	0	0	4	0	0	0	0	1	0
Jeur	41·4	+1·7	43 5	1,2	23·5	—0·7	19·3	12	0	1·4	—42·5	1·4	31	0	—2·7	15·7	18·1	+3·7	0	1	0	0	0	0	0	0	0	0	0
Baramati	39·9	+1·2	42·2	2	22·6	—1·1	20·4	19	0	0	—41·5	0	..	0	—2·6	18·4	16·9	+2·5	0	0	0	0	0	0	0	0	0	0	0
Sholapur	41·3	+0·9	44·6	4	25·4	+0·4	23·0	11	3·2	3·2	—19·4	3·2	16	1	—0·9	11·3	10·9	—2·3	0	1	0	0	0	0	0	0	0	0	0
Miraj	38·1	+0·8	41·0	5	22·5	0	20·5	3	3·4	0	—48·0	0	..	0	—2·9	..	..	..	0	0	0	0	3	0	0	0	0	0	0
Kolhapur	35·9	+0·3	37·8	23	22·3	0	20·6	3	0	0	—78·2	0	..	0	—4·5	20·9	18·8	+1·9	0	0	0	0	3	0	0	0	0	0	0
Marathwada																														
Aurangabad	40·4	+0·7	43·4	1	24·3	0	20·3	11	0	2·4	—15·9	2·4	31	0	—1·3	18·3	18·1	+2·2	0	1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	40 3	..	43·3	1	23·7	..	20·0	11	3·4	3·4	..	3·4	15	1	..	22·6	20·1	..	0	1	0	0	1	0	0	0	0	0	0
Parbhani	42·6	+0·8	45·9	1	26·3	—0·4	23·2	11	0	0	—21·1	0	..	0	—1·6	16·4	13·3	+0·7	0	0	0	0	0	0	0	0	0	0	0
Nanded	43·3	..	46·6	1,2	26·1	..	22·8	11	0	0	..	0	..	0	..	11·3	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Bir	41·9	..	45·1	1	23·8	..	19·4	11	0	5·2	..	5·2	13	1	..	14·5	11·5	..	0	1	0	0	0	0	0	0	0	0	0
Vidarbha																														
Gondia	42·9	+0·8	45·0	7,10,20	28·3	—0·5	25·1	2	0	0	—6·1	0	..	0	—0·7	8·6	5·2	—0·6	0	0	0	0	1	0	0	0	0	0	0
Nagpur (Sonegaon)	43·1	—0·2	45·2	1	27·8	—0·9	22·5	13	4·6	4·8	—14·5	3·7	13	1	—1·0	17·7	14·5	..	0	2	0	0	2	0	0	0	0	3	0
Amraoti	43·1	+1·1	46 0	2	28·4	+1·3	26·0	11	0	0	—13·2	0	..	0	—1.3	17.7	12.8	+3.5	0	0	0	0	2	0	0	0	0	0	0
Akola Aerodrome	42·9	..	47·0	1	27·5	..	23·4	21	0	0	..	0	..	0	..	16·7	15·6	..	0	0	0	0	1	0	0	0	0	0	0
Akola	42·6	+0·3	45·8	1	..	..	..	..	0	0	—10·4	0	..	0	—1·0	17·6	14·7	+3·0	0	0	0	0	0	0	0	0	0	0	0
Bramhapuri	43·5	..	45·8	10	28·2	..	22·4	17	1·5	1·5	..	1·5	13	0	..	9·3	6·7	..	0	1	0	0	1	0	0	0	0	0	0
Buldana	38·9	+0·6	42·5	1	25·1	—1·1	21·4	11	0·6	0·6	—17·5	0·6	15	0	—1·7	15·7	14·9	0	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	42·9	+1·0	46·0	1	28·0	—0·3	25·3	14	1·8	1·8	—11·0	1·8	14	0	—1·0	18·7	16·8	+1·1	0	1	0	0	0	0	0	0	0	0	0
Chanda	44·0	+1·0	46.4	2	28·7	+0·9	25·3	8	2·4	2·6	—12·9	2·4	30	0	—1·4	13·0	8·5	+2·1	1	1	0	0	0	0	0	0	0	0	0
Pusad	43·3	..	46·0	1	28·8	..	26·1	11,14, 15	0	0	..	0	—	0	..	15·7	13·0	..	0	0	0	0	1	0	0	0	0	0	0
Sironcha	44·1	+2·0	46·0	10	29·9	+0·6	26·0	9	0	0	—16·5	0	—	0	—1·3	10·0	6·7	—0·4	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Kalingapatam	34·1	—0·5	36·6	31	27·3	+0 2	23·7	13,23	0	56·6	—8·4	41·0	18	4	+0·8	18·0	13·2	—0·8	0	5	0	0	0	0	0	0	0	0	0
Vishakhapatnam	36·2	—0·2	39·0	21	27·7	+0·4	21·1	25	17·9	50·8	0	28·4	24	4	+1·3	20·9	13·0	—0·8	0	6	0	0	9	0	0	0	0	5	0
Kakinada	38·9	+1·6	42·4	29	27·9	+0·3	27·3	5	0·6	2·4	—36·7	1·8	20	0	—2·5	14·7	11·5	+2·3	0	2	0	0	1	0	0	0	0	0	0
Nidadavole	39·7	..	43·2	28	27·5	..	23·0	24	0	31·6	..	18·0	24	3	..	7·9	7·1	..	0	6	0	0	8	0	0	0	0	0	0
Rentachintala	44·1	+2·5	46·1	22	30·0	+1·0	23·3	1	0	17·0	—47·0	17·0	1	1	—1·8	10·8	10·1	—2·6	0	1	0	0	0	0	0	0	0	0	0
Gannavaram	41·7	+2·0	45·7	12	27·6	—0·1	20·3	31	0	38·0	+3·3	15·6	15	3	—0·1	15·4	13·3	—2·2	1	5	0	0	10	0	0	0	0	0	0
Nagarjna Konda	(R)																													
Masuliapatam	38·4	+0·9	43·7	28	27·9	+0·3	24·4	26	9·2	9·2	—24·3	9·2	14	1	—1·0	6·6	4·9	—5·7	0	1	0	0	8	0	0	0	0	0	0
Ongole	42·3	..	46·6	30	29·1	..	25·9	15	4·6	17·6	..	13·0	20	3	..	15·0	9·2	..	0	3	0	0	1	0	0	0	0	0	0
Nellore	42·3	+2·2	45·1	9	29·5	+1·8	26·2	6	0	3·2	—24·5	3·2	25	1	—0·4	13.4	12.3	+3.3	0	1	0	0	5	0	0	0	0	0	0
Telangana																														
Ramgundam	44·1	+1·4	46·4	10	30·5	+1·0	27·7	8	0	0	—33·8	0	..	0	—2·2	10·1	7·5	—1·1	0	0	0	0	1	0	0	0	0	0	0
Nizamabad	43·3	+1·9	45·5	2,8,9	27·9	+0·5	26·0	9	0	0	—17·3	0	..	0	—1·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	43·1	+2·8	44·9	1,20	28·3	+0·7	22·0	17	0	0	—31·0	0	..	0	—2·0	16·0	12·3	+2·2	0	0	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	40·0	..	42·4	2	26·8	..	20·7	4	9.1	34·3	..	25·1	4	2	..	..	..	..	0	3	0	0	4	0	0	0	0	1	0
Bhadrachalam	43·0	+2·2	46·0	23	29·0	+1·0	27·4	15,16	16·0	16·0	—9·4	12·0	26	1	—1·3	10·4	8·3	—1·8	0	3	0	0	3	0	4	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana— (*Contd.*)																													
Hyderabad (Begampet)	39·9	+1·4	42·6	2	26·0	0	18·9	4	3·7	43·7	+16·0	40·0	4	2	—0·3	17·0	13·0	+1·6	0	2	0	0	2	0	0	0	0	5	0
Khammam	43·2	..	45.6	30	28·9	..	26·1	15	10·2	10·2	..	6·2	18	2	..	8·3	7·8	..	0	2	0	0	3	0	6	0	0	0	0
Mahbubnagar	41·1	..	43·8	8	27·8	..	24·7	12	2·8	6·4	..	3·6	19	1	..	13·6	11·2	..	0	3	0	0	3	0	1	0	0	0	0
Rayalaseema																													
Kurnool	41·4	+1·1	43·7	23	28·0	+0·8	26 4	14	0	0	—27·4	0	..	0	—2·5	14·4	15·7	+4·8	0	0	0	0	0	0	0	0	0	0	0
Nandyal (R)																													
Anantapur	40·2	+1·9	41·9	7	26·6	+0·7	23·6	27	0·3	4·9	—52·5	1·8	17	0	—3·9	17·0	16·2	+2·3	0	4	0	0	7	0	0	0	0	0	0
Cuddapah	42·1	+1·2	44·3	23	29·8	+1·4	26·5	16	0	4·8	—33·5	3·4	4	1	—1·6	4·8	3·3	—6·5	0	2	0	0	0	0	0	0	0	0	0
Arogyavaram	36·7	..	38·4	23	24·4	..	22·5	26	0	20·6	..	11·6	4	2	..	15·0	11·4	..	0	5	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	39·1	..	43·1	9	28·5	..	26·5	5	..	1·6	..	1·6	30	0	..	..	10·6	..	2	1	0	0	2	0	0	0	0	0	0
Madras (Minambakkam)	40·2	+1·7	43·3	8	28·6	+1·0	27·0	6,15	0·3	0.7	—25.5	0·7	14	0	—1·1	17·7	14·3	+1·0	0	1	0	0	2	0	0	0	0	2	0
Vellore	40·7	+1·9	43·6	10	26·8	+0·7	24·5	21	37·8	80.6	+22·4	36·6	16	4	+0·2	10·5	8·8	+2.7	2	6	0	0	9	0	0	0	0	0	0
Tambaram (Aerodrome)	41·9	..	44·8	9	28·3	..	25·0	24	3·6	4·6	..	4·1	14	1	..	..	..	..	0	2	0	0	5	0	0	0	0	0	0
Tiruppattur	39·3	..	42·3	10	23·7	..	21·1	24	67·3	121·1	..	34·2	28	6	..	8·5	5·8	..	0	6	0	0	5	0	0	0	0	0	0
Mettur Dam R.S.	39·4	..	41·4	14	28·1	..	26·4	7,21	12·7	55·8	..	15·2	18	6	..	6·0	8·1	..	0	7	0	0	1	0	1	0	0	0	0
Cuddalore	38·3	+1·7	42·9	9	27·6	+0·7	25·2	14	0	2·0	—23·4	1·6	14	0	—1·3	15·2	13·0	+4·5	0	2	0	0	1	0	0	0	0	0	0
Kallakkurichchi	39·4	..	41·8	28	27·0	..	23·1	31	4·6	64·8	—16·0	29·8	31	5	+0·7	7·5	8·1	..	0	7	0	0	9	0	0	0	0	0	0
Salem	38·5	+1·1	40·4	12,23	25·4	+0·4	21·3	31	23·0	234·3	+117·6	70·8	31	10	+2·9	9·2	7·6	+1·8	2	14	0	0	19	0	0	0	0	0	0
Coimbatore (Pilamedu)	35·4	..	37·5	1	23·7	..	19·9	1	12·1	84·3	..	29·4	23	5	..	22·5	22·8	..	0	8	0	0	13	0	0	0	0	-	0
Coimbatore	35·1	+0·4	37·0	1	23·1	0	19·3	7	..	96·4	+33·7	34·8	16	6	+1·5	..	11·0	+4·9	0	9	0	0	8	0	0	0	0	0	0
Nagapattinam	37·7	+1·4	40·6	30	27·9	+0·8	23·5	24	0	14·8	—25·1	8·4	24	2	+0·2	1·6	14·3	+4·0	0	2	0	0	2	0	0	0	0	0	0
Tiruchchirappalli	39·3	+1·2	41·1	12	26·8	+0·6	22·8	29	0	68·1	—16·0	38·0	29	6	+1·9	16·6	15·1	—0·3	1	6	0	0	12	0	0	0	0	0	0
Vedaranniyam	35·4	..	37·2	2,22	27·8	..	22·4	24	0·3	26·9	..	26·6	24	1	..	14·3	12·5	..	0	2	0	0	0	0	0	0	0	0	0
Atirampattinam	35·1	..	38·2	28	27·3	..	24·2	31	0	14·4	..	7·4	24	2	..	20·2	16·2	..	0	3	0	0	4	0	0	0	0	0	0
Madurai	39·3	+2·2	41·8	21	26·9	+1·3	24·2	16	..	18·6	—51·0	5·6	17	4	—0·7	.. (b)	5·8 (b)	—1·1	1	4	0	0	8	0	0	0	0	0	0
Madurai (Aerodrome)	38·5	..	40·3	12	26·4	..	22·6	14	5·8	39·1	..	13·0	24	5	..	10·4	10·0	..	2	6	0	0	22	0	0	0	0	0	0
Tondi	33·6	..	36·6	9	27·5	..	24·7	3	0·8	32·4	..	18·2	4	2	..	22·3	18·4	..	0	3	0	0	2	0	0	0	0	0	0
Pamban	33·7	+0·5	35·6	17	27·7	+0·4	22·3	24	0	29·7	+5·1	22·7	4	2	+0·3	15·6	15·5	—0·8	0	2	0	0	1	0	0	0	0	0	0
Tuticorin	35·7	+1·4	39·0	27	27·1	+0·2	24·4	5	0	9·0	—28·2	8·0	5	1	—2·2	18·8	13·1	—0·8	0	2	0	0	0	0	0	0	0	0	0
Palayancottai	36·9	+0·4	40·3	12	27·5	+0·5	23·3	3	5·2	23·4	—16·8	16·6	31	2	—0·5	5·0	3·7	—6·2	0	3	0	0	3	0	0	0	0	0	0
Kanniyakumari	33·3	..	37·0	3	26·5	..	23·6	5	26·1	26·1	..	22·0	5	2	..	23·9	21·1	..	0	2	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·8	+1·3	36·4	23	26·5	+0·2	22·3	19	19·6	85·9	—10·3	85·9	19	1	—2·9	20·5	17·8	..	0	1	0	0	0	0	0	0	0	0	0
Honavar	33·0	+0·5	33·9	1	26·8	+0·7	23·6	18	0	58·6	—56·2	57·1	18	1	—3·9	14·2	12·7	+6·9	0	2	0	0	3	0	0	0	0	0	0
Mangalore (Bajpe)	34·3	..	36·2	10	26·1	..	23·2	20	0·8	13·5	..	10·5	20	1	..	15·0	9·5	..	0	4	0	0	1	0	0	0	0	0	0
Mangalore	33·5	+0·8	34·1	25	27·3	+1·3	23·6	20	2 0	78·2	—78·8	58·2	20	3	—3·7	15·6	12·4	+3·5	0	5	0	0	4	0	0	0	0	0	0
Interior Mysore North																													
Bidar	40·2	+1·2	43·0	1	27·0	+1·3	23·0	18	0	0	—25·1	0	..	0	—2·4	14·8	13·6	+0·9	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	41·7	+1·2	44·0	1,2	26·8	+0·9	23·6	12	0	0	—28·5	0	..	0	—2·4	15·7	14·5	+1·1	0	0	0	0	1	0	0	0	0	0	0
Bijapur	40·4	+1·7	41·9	1	23·7	+0·1	21·7	11	0	0·4	—28·1	0·4	15	0	—2·2	6·3	7·8	—3·0	0	1	0	0	0	0	0	0	0	0	0
Raichur	41·2	+1·4	43·5	9	27·4	+1·2	25·3	2	1·0	2·2	—25·0	1·2	19	0	—2·3	14·8	16·5	+3·3	0	2	0	0	0	0	0	0	0	0	0
Belgaum	33·9	—0·7	36·2	30	21·0	+0·8	19·1	18	17·6	38·0	—19·6	26·0	18	1	—3·3	11·3	7·8	—2·4	1	2	0	0	3	0	0	0	0	0	0
Belgaum (Samra)	34·8	..	37·8	5	21·0	..	19·6	3	24·0	19·8	..	17·6	18	1	..	15·7	13·9	..	0	2	0	0	6	0	0	0	0	0	0
Gadag	36·9	+0·1	39·3	3,22	22·5	—0·1	20·3	13	27·0	46·7	—6·4	19·4	18	3	—1·1	12·1	15·2	+1·5	0	5	0	0	8	0	0	0	0	0	0
Interior Mysore South																													
Bellary	39·7	+0·8	41·8	7	26·7	+1·3	24·4	13	0	8·0	—40·0	6·0	27	1	—2·3	14·3	13·5	+3·8	0	2	0	0	1	0	0	0	0	0	0
Chitradurga	35·9	+0·8	37·8	7	22·8	+0·6	21·3	13	0	35·4	—39·3	17·0	19	4	—0·4	10·5	12·2	+2·4	0	4	0	0	4	0	0	0	0	0	0
Shimoga	34·4	+0·9	36·6	31	22·2	—0·3	19·8	19	0	37·0	—80·6	18·7	19	3	—3·6	8·5	6·8	+0·5	0	3	0	0	2	0	0	0	0	0	0
Agumbe	30·3	..	32·4	16	20·8	..	17·0	11	..	0·5	..	0·5	19	0	..	..	3·9	..	0	1	0	0	0	0	0	0	0	0	0
Balehonnur	31·3	+2·1	33·0	6	20·8	+1·3	19·0	11	..	21·0	—84·4	11·0	17	3	—3·0	..	..	..	0	4	0	0	2	0	0	0	0	0	0

(R) Register not received.

(b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																														
Hassan	32·8	+0·9	34·6	31	20·0	+0·2	17·3	10,13	28·2	133·0	+15·7	28·8	1	6	−1·2	10·7	10·6	+2·1	0	7	0	0	13	0	0	0	1	0	0
Bangalore	34·3	+1·4	36·6	10	21·7	+1·2	19·3	21	10·9	80·4	−25·3	15·8	4	7	+0·4	12·9	11·1	+2·2	0	10	0	0	9	0	0	0	0	4	0
Bangalore (Aerodrome)	33·6	..	35·8	10	20·8	..	18·8	20	6·7	81·6	..	26·0	4	7	..	..	..	..	0	10	0	0	8	0	0	0	0	2	0
Mysore	33·9	+0·6	36·5	1,2,3	21·2	+0·1	19·9	20	0	305·0	+163·0	83.9	20	10	+2·1	9·7	8·7	−1·1	0	10	0	0	7	0	0	0	0	0	0
Kerala																														
Calicut	33·1	+0·8	34·4	26	26·8	+1·1	23·7	1	0	42·4	−193·3	19·4	7	3	−5·7	20·9	17·2	+5·9	0	5	0	0	4	0	0	0	0	0	0
Palghat	34·6	..	36·6	22	25·4	..	21·8	7	2·4	116·2	..	43·0	23	4	..	18·5	14·1	..	0	6	0	0	6	0	0	0	0	0	0
Fort Cochin	31·4	+0·6	32·7	20	26·0	+0·3	22·8	3	31·3	114·1	−182·6	53·6	3	6	−6·3	16·6	12·9	+4·4	0	11	0	0	7	0	0	0	0	0	0
Cochin (Naval Air Station).	32·4	..	33·2	4 days	25·6	..	23·7	1	13·3	111·3	..	53·1	3	6	..	14·3	10·8	..	0	14	0	0	13	0	0	0	0	0	0
Alleppey	33·1	+1·2	34·4	22,23	25·8	+0·1	23·0	1	5·0	245·5	−128·5	77·6	25	11	−2·7	17·4	14·2	+1.3	0	16	0	0	11	0	0	0	0	0	0
Punalur	33·8	..	35·7	12	24·2	..	22·4	15	0	136·8	..	64·6	23	6	..	4·9	3·6	..	0	9	0	0	0	0	0	0	0	0	0
Trivandrum	32·7	+0·8	34·3	22	25·6	+0.3	23·1	3	14·3	31·9	−191·1	11·5	27	4	−6·1	17·3	11·3	+3·1	3	8	0	0	10	0	0	0	0	0	0
Trivandrum Aerodrome	32·2	..	33·8	3,14	25·8	..	23·3	3	..	32·5	..	13·2	25	4	..	..	15·1	..	0	7	0	0	3	0	0	0	0	0	0
Arabian Sea Islands																														
Amini **																														
Minicoy **																														
Hill Stations (Excluding Kashmir)																														
Dalhousie	23·9	−2·0	30·0	10	13·0	−2·7	5·0	23	63·0	182·0	+135·3	90·0	14	8	+4·2	6·8	8·1	+1·3	0	9	0	0	6	0	9	0	0	0	0
Dharmsala	28·9	−1·9	34·4	10	18·8	−2·5	11·8	23	117·4	189·4	+134·8	86·6	16	7	+3·1	8·1	6·6	+0·2	0	7	0	0	9	0	0	0	0	0	0
Simla	22·3	−0·6	27·3	10	12·1	−2·2	5·6	22	31·5	129·9	+65·6	46·0	22	8	+2·8	2·3	1·9	−0·8	0	10	0	0	11	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	37·2	−12·1	12·0	6	4	+0·6	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Lokpal	31·1	..	36·6	11	20·2	..	18·4	23,26	..	135·6	..	45·0	23	8	..	..	..	..	0	8	0	0	5	0	0	31	0	0	0
Badrinath (R)																														
Joshimath (R)																														
Mussoorie	22·7	−2·0	28·1	4	12·5	−2·3	4·6	23	68·4	102·6	+60·2	32·2	21	7	+2·7	12·1	10·0	+0·3	0	10	0	0	11	0	0	0	0	0	0
Mukteshar (Kumaon)	22·1	−0·7	28·3	3	11·1	−2.1	3·6	23	60·6	112·8	+54·4	20·0	23	10	+4·9	16·4	15·5	+4·2	0	11	0	0	14	0	0	0	0	0	0
Nainital	21·8	−2·2	26.0	4	12·5	−2·9	6·7	3	43·0	126·5	+51·0	28·0	23	10	+6·5	10·1	7·9	−0·1	0	11	0	0	0	0	0	0	0	0	0
Kalimpong	25·2	+1·5	30·8	31	18·3	+1·2	13·1	6	0	149·2	−10·1	80·4	31	4	−7·8	12·7	10·8	−0·1	0	4	0	0	0	0	0	0	0	0	0
Darjeeling	18·9	+1·1	25·7	30	11·8	−0·5	9·6	13	52·0	142·6	−12·0	29·6	12	14	−0·4	2·9	2·7	+0·1	0	17	0	0	10	3	0	0	0	0	0
Kohima	22·5	..	27·9	30	16·0	..	13·3	4,8	141·2	239·0	..	57·6	30	15	..	..	2·1	..	0	17	0	0	0	11	0	0	0	0	0
Shillong	23·8	+0·5	27·6	29	14·5	−0·6	12·0	23	147·4	245·7	−41·1	35·2	11	16	−1·3	6·6	6·2	+0·2	0	22	0	0	0	1	0	0	0	0	0
Cherrapunji (R)																														
Abu	31·5	+0·4	35·2	1	..	..	..	..	0	29·6	+6·0	29·6	29	1	−0·3	20·0 (c)	12·0 (c)	+0·3	0	1	0	0	1	0	0	0	0	0	0
Aijal	25·5	..	28·7	29	19·0	..	13·9	3	165·5	364·0	..	65·5	7	17	..	10·1	8·6	..	0	10	0	0	0	0	0	0	0	0	0
Pachmarhi	35·1	−0·3	37·8	1	22·3	−1.6	17·5	12	0	0·6	−15·1	0·6	27	0	−1·6	9·7	7·9	−0·6	0	1	0	0	3	0	0	0	1	0	0
Mahabaleshwar	28·6	−0·2	31·2	5	17·3	−0·9	14·8	12	69·7	97·0	+56·4	27·3	14	4	+1·6	14·3	14·2	+0·5	0	5	0	0	4	9	0	0	0	0	0
Mercara	28·2	+1·5	30·8	16	18·5	+0·4	16·4	20	0	37·2	−95·1	27·2	18	2	−6·5	13·4	12·6	+6·5	0	4	0	0	2	0	0	0	0	0	0
Ootacamund	22·1	+0·8	24·3	20	10·5	−0·9	8·6	15	56·2	160·0	+0·2	30·6	17	10	−2·0	5·5	2·6	−1·7	0	14	0	0	5	0	0	0	0	0	0
Coonoor (R)																														
Kodaikanal	21·8	+1·6	23·7	11	13·1	+0·5	10·1	7	230·8	232·9	+71·1	100·3	7	13	+2·4	9·6	10·1	−1·3	0	16	0	1	20	0	0	0	0	0	0
Nepal																														
Katmandu	28·1	..	34·4	31	13·9	..	10·4	23	19·0	66·0	..	18·4	10	9	..	1·9	1·7	..	0	15	0	0	16	2	0	0	0	0	0
Sikkim																														
Lachen	15·9	..	21·5	30	6.3	..	3.8	19	..	207·0	..	20·0	12	20	..	..	..	..	1	24	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																														
Damodar Catchment																														
Tilaiya	37·4	..	42·2	5	27·4	..	21·7	3	48·3	68·8	..	31·0	22	5	..	11·6	8·2	..	1	6	0	0	0	0	0	0	0	0	0
Hazaribagh	36·3	..	41·0	5	22·1	..	16·3	10	9·9	45·7	..	17·7	10	6	..	11·5	6·7	.	0	8	0	0	8	0	1	0	0	0	0
Konar	36.7	..	41.9	5	23.8	..	18.6	13	29·6	56·6	..	19·5	22	6	..	..	..	..	0	7	0	0	1	0	0	0	0	0	0
Bokaro	38·8	..	44·8	5	27·0	..	22·0	13	5·4	95·2	..	28·2	22	5	..	10·1	6·1	..	0	7	0	0	4	0	0	0	0	0	0
Maithon	37·9	..	43·1	3,5	23·7	..	18·9	26	18·8	76·3	..	28.4	13	5	..	4.1	3.2	..	0	5	0	0	3	0	0	0	0	0	0

** Data given as addenda in December 1964 issue. (R) Register not received. (c) Mean of 28 days.

Sub-Division and station.	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories (*Contd*)																													
Damodar Catchment (*Contd.*)																													
Ramgarh	39·3	..	44·3	6,7	23·9	..	18·4	12	28·6	31·4	..	14·0	12	2	..	6·0	3.7	..	0	5	0	0	0	0	0	0	0	0	0
Panchet Hills	37·6	..	42·7	3	25.3	..	18·5	30	8·9	80·1	..	25·2	13	4	..	6·8	6·3	..	0	9	0	0	0	0	0	0	0	0	0
Durgapur	37·9	..	42·6	5	24·9	..	19·4	13	1·0	114·3	..	64·0	13	3	..	14·1	12·2	..	0	5	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	40·2	..	42·9	6	23·6	..	20·0	26	..	27·6	..	20·2	14	2	..	..	..	..	0	5	0	0	5	0	0	0	0	0	0
Hirakud	41·6	..	43·9	6	27·5	..	24·6	13	0·4	2·1	..	1·5	11	0	..	6·4	5·7	..	0	2	0	0	3	0	0	0	0	0	0
Bhimkund	36·6	..	39·9	21	23·5	..	17·9	29	105·2	180·0	..	36·7	17	10	..	8·5	4·3	..	0	13	0	0	20	0	0	0	0	0	0
Sonepur	42·3	..	44·3	7	29·5	..	22·2	13	..	0·5	..	0·5	30	0	..	..	7·3	..	0	1	..	..	..	..	..	..	..	..	..
Khijrawan	41·1	..	43·6	5 days	..	..	..	..	0	0	..	0	..	0	..	13·3	8·6	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	42·5	..	45·7	1½	27·7	..	24·0	27	0	3·0	..	2·2	28	0	..	9·6	6·4	..	0	2	0	0	2	0	0	0	0	0	0
Punasa	42·4	..	45·7	1	26·1	..	22·8	1	0	0	..	0	..	0	..	11·1	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Tilkri	42·4	..	46·7	1	25·9	..	21·9	29	..	12·9	..	10·0	31	1	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	41·8	..	43.2	12	22·3	..	20·6	1	..	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	..	..	..	..	6·1	..	3·9	9	15.0	60·0	..	35·0	21	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	99·9	152·8	..	33·0	8	11	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Timure	25·9	..	31·2	30	13·6	..	10·4	19	15.0	36·2	..	9·2	10	6	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Pokhara	28·0	..	33·0	31	17·6	..	13·2	14	168·6	297·4	..	38·4	4	16	..	3·3	2·5	..	1	20	0	7	20	1	0	0	0	0	0
Gorkha	27.3	..	32·9	31	18.9		14.9	14	94.1	178·5	..	30·7	23	12	..	0.6	0.8	..	0	17	0	1	17	6	0	0	0	0	0
Nuwakot	30·6	..	35·7	31	18·6	.	15·5	19	57·1	129.7	..	20·3	4	12	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Regions)																													
Dailekl	27·4	..	32·6	10	13·8	..	10·1	12	14·0	39·6	..	13·0	12	5	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	23·9	..	29·1	3	12·8	..	6·0	22	38·9	117·4	..	26·2	12	10	..	7·6	7·7	..	0	12	0	4	12	1	0	0	0	0	0
Sallayana	27·3	..	33·0	6	(a) 16·0	..	10·0	24	30·0	75·6	..	21·2	12	8	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Butwal	35·5	..	41.4	31	23·8	..	19·4	10	36·2	95·2	..	20.4	22	8	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	(b) 26·3	..	32·1	30,31	(b) 14.5	..	11.0	18	38.8	74·6	..	31·8	8	5	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	68·7	183·5	..	36·8	26	18	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Walungchung Gola	13·1	..	17·4	31	5·2	..	2·3	19	58·8	112·3	..	15·0	8	17	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Taplethok	26·3	..	31·5	30	15·3	..	13·3	8,19	19.4	142·0	..	50·2	21	15	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Bhojpur	23·3	..	28·6	30	15·7	..	12·8	10	37·8	89·1	..	31·0	10	7	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Taplejung	22·9	..	27·1	30	13·5	..	10·5	19	57·9	147·7	..	25·6	7	15	..	..	..	..	2	19	0	0	18	3	0	0	0	0	0
Okhaldhunga	22.9	..	28·1	30	14.0	..	10.8	10	57·9	100·9	..	32·5	5	7	..	5.5	3.5	..	1	16	0	0	2	0	0	0	0	0	0
Chainpur	26.6	..	31.7	31	17·1	..	13·6	8	74·0	127.6	..	44·8	2	11	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Angbung	..	..	..	..	15.5		11·2	15	108.7	380·8		70·5	1	12		..	..		0	12	..	..	..	..	..	..	..	..	..
Barahakshetra	33·9	..	39·8	30	(h) 22·2	..	18.4	8	55·8	122.9	..	30.0	31	7	..	12·3	7·9	..	1	11	0	2	9	0	0	0	0	0	0
Tista Catchment																													
Gangtok	22·3	..	28·0	30	13·4	..	10·9	19	131·8	380·1	..	93·5	5	19	..	2·5	2·7	..	1	22	0	1	8	12	0	0	0	0	0
Gezing	25·2	..	30·6	30	14·4	..	10·3	13	43·8	134·0	..	32·8	11	11	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days. †Data included under 'Nepal'. (b) Mean of 29 days. (h) Mean of 23 days.

Sub-Division and station	Hour of observation I. S. T	Station elevation level in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007.7	1004.6	..	28.1	26.0	25.1	31.9	84	..	7.0	..	9.5	0	3	24	0	2	1	3	0	13	8	0	4	0
	1730	,,	1005.7	1002.6	..	27.8	25.6	24.6	30.9	83	..	6.3	..	11.2	0	2	27	0	0	1	1	1	14	11	0	2	1
Long Island	0830	25	1007.5	1004.6	..	28.4	26.1	25.1	31.9	83	..	6.8	..	3.1	0	0	22	0	1	0	1	3	9	8	0	9	0
	1730	,,	1005.4	1002.8	..	27.8	25.8	24.9	31.5	83	..	6.9	..	3.7	0	0	25	0	0	0	2	1	12	8	2	6	0
Port Blair	0530	79	1006.4	997.5	..	25.7	24.5	24.0	29.8	90	..	6.4	..	10.5	0	8	16	1	0	0	0	2	8	11	2	7	0
	0830	,,	1008.0	999.2	−0.6	28.0	25.5	24.5	30.7	81	+3	6.6	+1.0	17.0	0	14	17	0	0	1	1	3	17	9	0	0	1
	1130	,,	1007.2	998.4	..	28.8	25.6	24.2	30.2	77	..	6.8	..	18.0	0	16	13	0	1	1	3	1	12	9	2	2	0
	1730	,,	1005.7	996.8	..	26.7	24.8	23.9	29.7	86	..	6.7	..	14.1	0	6	24	0	2	0	2	0	14	10	2	1	0
	2330	,,	1007.1	998.2	..	25.9	24.9	24.5	30.7	91	..	5.3	..	11.4	0	9	16	0	0	0	0	0	17	6	2	6	0
Car Nicobar	0830	10	1008.7	1007.5	..	28.6	26.0	24.9	31.5	81	..	6.3	..	3.3	0	0	28	1	0	2	0	0	22	1	1	3	1
	1730	,,	1006.4	1005.2	..	27.7	25.5	24.5	30.7	84	..	6.3	..	2.4	0	1	19	0	0	0	1	0	16	1	1	11	1
Nancowry	0830	26	1009.2	1006.2	..	27.8	25.9	25.1	31.9	85	..	6.5	..	10.8	0	3	26	0	0	0	0	2	10	15	2	2	0
	1730	,,	1006.7	1003.8	..	27.4	25.6	24.8	31.3	85	..	6.3	..	9.5	0	2	26	0	0	0	0	2	7	17	2	3	0
Kondul	0830	8	..	..	..	27.8	25.7	24.7	31.1	83	..	7.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27.1	25.3	24.5	30.7	86	..	7.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1007.0	989.4	..	25.0	22.2	20.7	24.0	74	..	5.0	..	9.6	0	4	24	1	2	2	0	0	0	0	23	3	0
	1730	,,	1003.2	985.5	..	26.9	23.9	22.5	27.3	77	..	4.3	..	3.0	0	1	11	0	0	2	1	0	1	0	8	19	0
Dibrugarh (Mohanbari).	0230	111	1004.6	991.9	..	22.3	21.4	20.9	24.7	92	..	4.7	..	2.1	0	0	6	2	3	1	0	0	0	0	0	25	0
	0530	,,	1005.6	992.9	..	22.1	21.3	20.9	24.7	92	..	6.0	..	2.3	0	0	12	1	10	0	0	1	0	0	0	19	0
	0830	,,	1006.7	994.2	−1.1	25.7	22.9	21.5	25.6	79	−4	5.6	+0.2	6.5	0	0	29	2	13	10	2	0	0	2	0	2	0
	1130	,,	1005.5	993.1	..	28.1	23.5	21.2	25.2	68	..	5.2	..	6.7	0	0	29	4	8	10	0	1	3	3	0	2	0
	1430	,,	1003.1	991.1	..	26.6	23.8	21.4	25.5	66	..	5.4	..	6.3	0	0	27	3	6	8	1	3	1	2	3	4	0
	1730	,,	1002.6	990.2	..	27.7	23.7	21.8	26.3	72	..	4.9	..	2.6	0	0	16	2	3	4	1	1	0	3	2	15	0
	2030	,,	1004.7	992.1	..	24.4	22.7	21.9	26.3	87	..	4.5	..	3.2	0	1	7	2	3	1	0	0	1	0	1	23	0
	2330	,,	1005.1	992.4	..	23.1	22.1	21.6	25.8	91	..	4.6	..	2.9	0	1	11	1	6	2	0	1	0	0	2	19	0
Digboi*	0830	152	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	0830	102	1007.3	995.7	+0.7	26.5	23.2	21.5	25.6	75	−10	6.0	−0.8	4.2	0	0	27	1	18	4	1	3	0	0	0	4	0
	1130	,,	1006.1	994.6	..	28.3	23.9	21.7	25.9	69	..	5.7	..	5.7	0	1	26	0	12	2	7	4	1	0	1	4	0
	1430	,,	1003.5	992.1	..	29.4	23.9	21.2	25.2	63	..	5.3	..	4.5	0	0	24	0	9	6	3	4	2	0	0	7	0
	1730	,,	1003.3	991.8	..	27.4	24.1	22.5	27.3	75	..	4.9	..	3.3	0	0	19	1	13	2	0	1	0	0	2	12	0
Sibsagar	0830	97	1007.3	996.4	−0.2	26.9	23.8	22.3	26.9	77	−7	5.5	−0.8	4.1	0	0	30	18	7	2	1	0	2	0	0	1	0
	1730	,,	1003.3	992.5	..	28.4	24.1	22.1	26.6	69	..	4.8	..	3.4	0	0	23	13	4	1	2	2	1	0	0	8	0
Gohpur	0830	..	..	..	..	25.3	23.2	22.3	26.9	83	..	5.5	..	3.4	0	0	28	0	13	4	5	1	0	0	2	3	0
	1730	..	..	..	..	28.3	24.6	23.1	28.3	73	..	4.8	..	2.9	0	0	25	1	12	3	3	1	1	3	1	6	0
Majbat	0830	..	..	..	..	26.6	23.5	22.3	26.9	79	..	4.0	..	3.0	0	0	26	1	6	7	7	3	2	0	0	5	0
	1730	..	..	..	..	27.4	24.6	23.3	28.6	78	..	2.9	..	1.6	0	0	18	0	0	6	3	4	4	0	1	13	0
Jorhat (Aerodrome)	0530	90	1005.1	993.1	..	23.2	22.4	22.0	26.4	93	..	6.6	..	3.6	0	0	17	3	6	3	2	0	0	0	3	14	0
	0830	,,	1006.6	996.5	..	26.6	23.6	22.1	26.6	77	..	5.9	..	5.5	0	0	25	2	14	3	1	1	3	0	1	6	0
	1130	,,	1005.6	995.6	..	29.5	24.5	22.1	26.6	65	..	6.1	..	8.5	0	1	29	3	16	0	2	1	2	1	5	1	0
	1730	,,	1002.5	992.4	..	26.0	23.6	21.4	25.5	81	..	5.1	..	7.5	0	1	24	1	13	4	0	1	2	1	3	6	0
	2330	,,	1004.8	994.6	..	24.0	23.1	22.7	27.6	94	..	4.7	..	2.5	0	0	9	0	7	0	0	0	0	0	2	22	0
Tangla	0830	78	1007.3	998.4	..	26.3	23.0	21.3	25.3	74	..	1.8	...	1.3	0	0	7	0	0	0	7	0	0	0	0	24	0
	1730	,,	1003.0	994.2	..	28.0	25.3	24.1	30.0	78	..	1.5	..	1.0	0	0	3	0	0	0	1	0	2	0	0	28	0
Tezpur.	0830	79	1007.5	998.5	−0.5	25.6	23.4	22.3	26.9	82	+1	4.3	−0.9	2.3	0	0	31	3	12	4	2	4	6	0	0	0	0
	1730	,,	1004.2	995.3	..	28.4	23.9	21.7	25.9	69	..	4.2	..	2.5	0	0	31	2	11	3	1	6	5	1	2	0	0
Golaghat	0830	..	..	..	..	25.8	23.4	22.2	26.7	81 (1)	..	4.3 (k)	..	1.3 (k)	0	0	18	0	9	0	4	0	4	0	1	13	
	1730	..	..	..	..	29.7	25.2	23.1	28.3	68	..	3.1	..	0.9	0	0	8	0	3	0	1	0	1	0	3	2	0
Rangia	0830	60	1007.8	1001.1	..	27.4	24.2	22.7	27.6	77	..	(b) 3.1	..	6.6	0	2	26	3	3	15	5	0	1	1	0	1	0
	1730	,,	1004.0	997.2	..	29.1	24.9	23.1	28.3	70	..	(c) 1.8	..	(c) 3.4	0	0	22	1	2	10	1	0	4	4	0	6	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara	0830	38	1006.2	1001.8	..	24.3	23.3	22.7	27.6	89	..	2.7	..	1.3	0	0	21	3	7	3	4	0	3	1	0	10	0
	1730	,,	1003.2	999.0	..	29.6	26.4	25.1	31.9	78	..	2.4	..	1.6	0	0	24	1	12	3	2	0	4	2	0	7	0
Gauhati	0830	..	..	..	..	27.2	22.9	20.9	24.7	70	−9	2.2	−2.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Temporarily closed (c) Mean of 28 days (b) Mean of 29 days. (R) Register not received. (k) Mean of 20 days. (l) Mean of 1

Sub-Division and station	Hour of observation I. S. T.	Station elevation level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1004.1	997.9	..	23.6	22.6	22.1	26.6	92	..	3.5	..	3.5	0	0	15	0	7	4	2	2	0	0	0	16	0
	0530	,,	1005.2	999.0	..	23.3	22.4	21.9	26.3	92	..	5.0	..	3.0	0	0	10	1	1	2	2	2	2	0	0	21	0
	0830	,,	1006.6	1000.5	−0.3	27.0	23.9	22.4	27.1	76	+1	4.4	−0.6	5.9	0	0	27	9	7	2	1	3	1	2	2	4	0
	1130	,,	1005.4	999.3	..	29.3	24.8	22.7	27.6	69	..	4.5	..	8.4	0	0	30	9	10	4	1	0	1	3	2	1	0
	1430	,,	1003.0	996.9	..	30.0	24.6	22.0	26.4	64	..	4.5	..	7.8	0	1	28	10	6	3	1	1	3	3	2	2	0
	1730	,,	1002.2	996.2	..	28.8	24.2	22.0	26.4	68	..	4.4	..	7.0	0	0	27	3	10	2	1	1	2	3	5	4	0
	2030	,,	1004.3	998.1	..	25.9	23.9	23.0	28.1	84	..	4.2	..	4.8	0	1	15	0	8	4	0	1	1	2	0	15	0
	2330	,,	1005.0	998.8	..	24.5	23.0	22.3	26.9	88	..	3.8	..	3.8	0	0	14	0	5	2	1	1	3	1	1	17	0
Dhubri (Rupsi)	0530	36	1004.8	999.6	..	22.7	22.1	21.8	26.1	95	..	4.2	..	4.3	0	1	16	3	10	3	0	1	0	0	0	14	0
	0830	,,	1006.1	1001.0	..	27.3	24.2	22.7	27.6	77	..	3.9	..	7.0	0	2	25	2	5	14	2	3	1	0	0	4	0
	1130	,,	1005.3	1000.2	..	29.2	24.9	22.9	27.9	70	..	4.1	..	8.1	0	2	25	0	5	9	4	1	3	4	1	4	0
	1730	,,	1001.9	996.9	..	28.9	25.0	23.3	28.6	73	..	3.2	..	4.1	0	0	15	2	5	5	0	1	1	1	0	16	0
Dhubri	0830	35	1006.8	1002.9	+0.1	27.1	24.0	22.5	27.3	77	−5	3.0	−2.0	12.2	0	7	20	1	13	6	4	1	1	0	1	4	0
	1730	,,	1002.7	998.8	..	28.8	24.9	23.1	28.3	72	..	3.1	..	3.3	0	1	12	0	10	1	0	0	1	0	1	18	0
Lumding	0830	149	1007.0	990.3	..	26.0	23.1	21.6	25.3	79	+1	4.0	..	1.2	0	0	12	1	0	2	3	1	2	1	2	19	0
	1730	,,	1002.6	986.1	..	29.3	24.3	21.9	26.3	65	..	3.2	..	1.3	0	0	19	2	3	2	4	3	2	1	2	12	0
Tura	0830	370	1007.3	966.0	..	25.6	23.9	23.1	28.3	85	..	7.3	..	4.6	0	1	27	0	1	4	8	3	2	8	2	3	0
	1730	,,	1002.9	962.2	..	28.5	27.2	26.7	35.0	89	..	7.3	..	3.3	0	0	28	1	1	3	5	2	6	9	1	3	0
Haflong	0830	682	1009.7	934.5	..	23.1	20.5	19.2	22.2	79	..	4.9	..	6.9	0	0	31	0	0	0	0	9	22	0	0	0	0
	1730	,,	1002.7	928.6	..	25.2	21.3	19.4	22.5	70	..	4.3	..	6.3	0	0	31	0	0	0	0	3	28	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1004.4	993.3	..	23.1	22.0	21.5	25.6	90	..	5.0	..	7.1	0	1	27	0	1	21	1	0	4	0	1	3	0
	0830	,,	1005.8	994.8	..	25.9	23.3	22.0	26.4	80	..	5.6	..	6.8	0	1	28	0	0	13	3	5	4	3	1	2	0
	1130	,,	1004.7	993.9	..	28.3	24.1	22.1	26.6	71	..	5.5	..	6.6	0	0	29	0	2	10	2	5	5	3	2	2	0
	1730	,,	1001.6	990.8	..	28.1	24.2	22.3	26.9	72	..	4.0	..	3.1	0	0	19	0	1	6	2	0	2	7	1	12	0
Silchar	0830	29	1007.1	1003.8	−0.5	26.3	24.0	22.7	27.6	83	+3	5.6	+0.6	1.6	0	0	25	2	3	3	5	4	5	2	1	6	0
	1730	,,	1002.8	999.5	..	28.7	24.9	23.3	28.6	73	..	4.3	..	1.3	0	0	17	3	4	1	1	0	2	5	1	14	0
Imphal (Tulihal)	0530	781	1006.7	920.9	..	19.7	18.7	18.1	20.8	93	..	5.6	..	1.3	0	0	6	1	1	1	1	0	0	2	0	25	0
	0830	,,	1007.5	922.2	+0.1	23.4	20.4	18.9	21.8	76	+2	5.8	+0.2	1.4	0	0	6	1	1	1	0	0	2	0	1	25	0
	1130	,,	1005.8	921.1	..	25.5	21.0	18.8	21.7	69	..	6.5	..	9.0	0	1	25	3	3	0	0	2	7	7	4	5	0
	1430	,,	1002.7	918.7	..	26.8	21.0	18.0	20.6	61	..	6.2	..	9.8	0	2	24	2	2	3	0	3	3	10	3	5	0
	1730	,,	1002.7	918.3	..	25.3	20.9	18.7	21.6	67	..	5.6	..	10.8	0	0	27	4	1	0	2	4	2	8	6	4	0
	2030	,,	1005.8	920.2	..	22.1	20.0	18.9	21.8	82	..	4.3	..	3.5	0	0	15	2	1	1	1	1	1	6	2	16	0
	2330	,,	1006.7	920.6	..	20.8	19.5	18.9	21.8	89	..	4.7	..	2.6	0	0	10	0	2	0	0	1	0	3	3	21	1
Kailashahar	0530	29	1006.0	1002.7	..	23.4	22.5	22.1	26.6	93	..	5.1	..	5.7	0	1	21	1	1	5	2	7	4	1	1	9	0
	0830	,,	1007.3	1004.0	..	26.2	23.9	22.8	27.7	82	..	5.1	..	5.9	0	0	30	2	4	4	3	7	5	3	0	1	2
	1130	,,	1006.1	1002.9	..	29.1	25.0	23.1	28.3	71	..	5.5	..	4.2	0	0	21	2	1	4	3	7	2	2	0	10	0
	1730	,,	1002.8	999.6	..	30.2	25.4	23.5	28.9	72	..	5.0	..	2.5	0	0	15	0	0	5	1	4	2	2	1	16	0
Agartala	0230	16	1003.5	1001.7	..	24.5	23.7	23.3	28.6	94	..	4.4	..	8.1	0	3	17	3	1	3	10	3	0	0	0	11	0
	0530	,,	1004.3	1002.5	..	24.1	23.4	23.1	26.3	94	..	5.7	..	7.0	0	4	15	1	0	6	7	5	0	0	0	12	0
	0830	,,	1005.7	1004.0	+0.7	27.8	24.9	23.5	28.9	79	+2	5.2	−0.4	11.9	0	4	23	1	1	3	10	5	4	2	1	4	0
	1130	,,	1004.9	1003.1	..	30.3	25.7	23.7	29.3	69	..	5.7	..	12.4	0	4	25	2	0	4	6	5	4	5	3	2	0
	1430	,,	1002.7	1000.9	..	31.0	25.9	23.6	29.1	67	..	5.2	..	12.3	0	5	24	0	2	2	5	7	4	5	4	2	0
	1730	,,	1002.0	1000.2	..	29.4	25.4	23.6	29.1	72	..	4.8	..	10.6	0	3	23	2	3	2	6	5	3	3	2	5	0
	2030	,,	1003.7	1001.9	..	26.1	24.6	23.9	29.7	88	..	3.7	..	7.7	0	2	14	0	2	2	6	4	0	1	1	15	0
	2330	,,	1004.1	1002.3	..	25.5	24.4	23.9	29.7	91	..	4.4	..	5.3	0	1	17	0	0	2	9	6	0	1	0	13	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1003.9	988.9	..	22.7	21.3	20.5	24.1	88	..	4.0	..	5.0	0	1	11	1	3	8	0	0	0	0	0	19	0
	0530	,,	1004.7	989.8	..	22.3	20.9	20.1	23.5	88	..	4.5	..	5.4	0	1	15	4	2	8	0	0	0	2	0	15	0
	0830	,,	1006.1	991.3	+1.0	27.4	22.6	20.1	23.5	66	−8	4.7	−0.5	13.2	0	8	20	6	2	17	2	0	1	0	0	3	0
	1130	,,	1005.0	990.4	..	30.1	24.0	20.9	24.7	59	..	4.9	..	13.2	0	5	24	2	1	18	4	1	2	1	0	2	0
	1730	,,	1001.6	987.0	..	29.1	23.8	21.1	25.1	63	..	4.5	..	8.4	0	4	18	1	0	15	2	1	1	1	1	9	0
	2330	,,	1004.6	989.7	..	23.7	21.7	20.6	24.3	83	..	4.2	..	9.6	0	3	21	3	7	12	1	0	0	1	0	7	0
Jalpaguri	0830	83	1006.1	996.7	−0.4	26.2	23.0	21.4	25.5	75	−4	3.5	−0.3	7.5	0	0	30	4	13	7	1	0	0	1	4	1	0
	1730	,,	1001.6	992.4	..	29.7	24.4	21.9	26.3	55	..	2.5	..	9.6	0	5	22	3	4	9	8	2	1	0	0	4	0
Cooch Behar	0830	43	1006.2	1001.4	..	27.1	24.1	22.7	27.6	78	..	4.0	..	8.6	0	2	27	0	8	15	2	2	0	2	0	2	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*contd.*)																											
Cooch Behar—(contd.)	1130	43	1005·3	1000·5	..	29.2	25·1	23·3	28·6	71	..	4·3	..	9·5	0	2	29	0	7	9	4	3	2	1	1	0	4
	1730	,,	1001·9	997·2	..	29.3	25·3	23·5	28·9	73	..	3·5	..	4·1	0	0	17	0	5	8	1	0	2	1	0	14	0
Balurghat	0830	26	1004·6	1001·7	..	28.4	24·7	22·9	27·9	74	..	3·8	..	4·3	0	0	29	2	6	5	8	6	1	1	0	2	0
	1730	,,	1000·6	997·8	..	30·1	25·3	23·1	20·3	68	..	3·2	..	3·7	0	0	24	1	3	5	10	4	1	0	0	7	0
Malda	0830	31	1005·2	1001·7	0	28·7	25·5	24·1	30.0	77	+6	3·9	+0·5	3·3	0	0	27	1	8	6	5	4	1	1	1	4	0
Gangetic West Bengal	1730	,,	1001·1	997·6	..	31·1	25·9	23·6	29·1	66	..	2·8	..	3·5	0	0	23	0	7	5	6	2	2	0	1	8	0
Berhampore	0830	19	1004·5	1002·5	−0·6	28·8	25·7	24·3	30·4	79	+6	3·5	−0·9	3·6	0	0	27	0	1	8	1	12	3	2	0	4	0
	1730	,,	1000·3	998.2	..	32·3	25·5	22·4	27·1	58	..	2·9	..	2·8	0	0	21	1	0	13	0	4	2	0	1	10	0
Suri	0830	,,	..	..	..	29·6	25·5	23·7	29·3	71	..	2·2	..	4·1	0	0	31	4	3	9	4	8	1	2	0	0	0
Asansol	0230	126	1002·1	988·0	..	26·5	23·9	22·7	27·6	80	..	1·9	..	5·0	0	1	18	0	0	6	5	8	0	0	0	12	0
	0530	,,	1002·9	988·7	..	25·7	23·8	22·9	27·9	84	..	3·3	..	3·5	0	0	19	1	4	2	3	6	2	1	0	12	0
	0830	,,	1004.2	990·2	+0·2	30·7	25·3	22·8	27·7	64	+1	1·9	−1.2	7·1	0	0	31	2	6	2	8	9	2	1	1	0	0
	1130	,,	1003·3	989·6	..	35·6	25·8	21·2	25·2	45	..	1·7	..	8·3	0	0	31	2	4	3	5	10	4	1	2	0	0
	1430	,,	1000·6	987·0	..	37·2	25·2	19·2	22·4	39	..	2·2	..	6·7	0	1	29	2	4	4	6	4	1	5	4	1	0
	1730	,,	999.6	985·9	..	35·4	24·8	19·5	22·7	42	..	2·9	..	6·3	0	3	26	3	2	9	4	5	1	1	4	2	0
	2330	,,	1003·0	988.9	..	27·7	24.0	22.3	26.9	73	..	2.5	..	8·2	0	3	19	0	2	5	7	6	2	0	0	9	0
Shanti Niketan	0830	59	1005.0	998.3	..	29·5	25.4	23.5	28.9	71	..	2.9	..	10.8	0	5	23	2	5	3	3	12	2	1	0	3	0
	1130	,,	1004·2	997.7	..	33·7	25.7	22.0	26.4	52	..	1.6	..	7.4	0	2	25	0	6	5	2	8	5	0	1	4	0
	1730	,,	1000.4	933.9	..	33.6	25.3	21.3	25.3	51	..	3.1	..	8.5	0	3	25	0	5	3	8	10	1	0	1	3	0
Krishnanagar	0830	15	1004·9	1003·3	0	30.2	26.5	24.9	31.5	74	−1	2.5	−1·5	1.4	0	0	15	0	0	1	1	13	0	0	0	16	0
	1730	,,	1000.8	999.2	..	32.5	25.6	22.5	27.3	58	..	8.1	..	1.3	0	0	16	0	0	0	1	14	0		1	15	0
Purlia.	0830	255	1004.1	976.2	+0.5	29.8	23.8	20.8	24.6	60	+8	5.9	+3.4	6.5	0	0	31	0	1	0	18	1	0	0	11	0	0
	1730	,,	999.1	971.8	..	34.9	22.7	15.5	17.6	35	..	6.0	..	5.7	0	0	31	0	1	0	17	0	0	0	13	0	0
Bankura	0830	100	1004.1	993.1	..	30.1	26.0	24.3	30.4	68	..	2.0	..	1.3	0	0	13	1	3	0	3	6	0	0	0	18	0
	1730	,,	998.6	987.8	..	35.9	25.7	20.9	24.7	44	..	2.3	..	1.0	0	0	12	2	2	0	1	4	2	0	0	19	1
Burdwan	0830	32	1004·7	1001.1	0	30.4	26.5	24.9	31.5	73	−1	2.6	−1·6	4.1	0	0	19	0	0	7	0	6	4	2	0	12	0
	1730	,,	1000.8	997.2	..	32.5	27.3	25.2	32.1	59	..	3.4	..	9.9	0	5	19	1	1	5	3	12	1	1	0	7	0
Barrackpore (Aerodrome).	0530	7	1003.9	1003.1	..	26.2	25.3	24.9	31.5	93	..	4.1	..	6.0	0	4	11	0	1	2	1	3	7	1	0	16	0
	0830	,,	1005.5	1004·8	+1·8	29.7	27.0	25.9	33.4	80	+7	4.3	+0·4	11·9	0	7	20	2	2	7	0	4	10	2	0	4	0
	1130	,,	1004.7	1003.9	..	33.1	27.8	25.7	33.0	65	..	3.4	..	11·0	0	6	22	1	0	6	4	6	7	2	2	3	0
	1730	,,	1001.6	1000.9	..	31.6	26.7	24.7	31.1	68	..	3.5	..	10.5	0	5	21	0	0	4	2	11	5	2	2	5	0
	2330	,,	1004.1	1002.4	..	27.5	25.5	24.6	30.9	85	..	3.1	..	8.9	0	1	25	1	1	3	3	10	7	1	0	5	0
Calcutta (DumDnd	0230	6	1002.5	1001·7	..	26.7	25.7	25.3	32.2	92	..	3.6	..	6.6	0	3	17	1	0	4	1	11	3	0	0	11	0
	0530	,,	1003.3	1002.6	..	26.4	25.6	25.3	32.2	93	..	5.3	..	4.5	0	0	18	0	1	5	2	5	5	0	0	13	0
	0830	,,	1004.9	1004.2	+0.4	29.9	27.1	26.0	33.6	80	+6	5.0	+0.6	8.6	0	4	23	1	0	4	5	7	9	0	1	4	0
	1130	,,	1004·0	1003.3	..	33.2	28.0	26.0	33.6	66	..	4.3	..	10.3	0	5	23	0	1	5	6	8	7	1	0	3	0
	1430	,,	1001.6	1000.9	..	34.2	27.7	25.1	31.9	61	..	4.1	..	11·2	0	8	20	1	0	2	3	10	9	2	1	3	0
	1730	,,	1001.0	1000.3	..	31.5	26.7	24.7	31.1	69	..	4.3	..	6.7	0	2	21	0	1	1	6	10	5	0	0	8	0
	2030	,,	1003.1	1002.4	..	28.4	26.0	25.0	31.7	82	..	4.0	..	8.5	0	2	25	1	0	1	3	18	4	0	0	4	0
	2330	,,	1993.4	1002.7	..	27.4	26.1	25.5	32.6	90	..	4.3	..	7.1	0	2	27	1	0	2	5	13	5	1	2	2	0
Calcutta	0830	6	1004.7	1004.0	−0.3	30·5	26·6	24·9	31.5	73	−1	3.2	−1.0	8.7	0	3	27	0	0	3	6	12	7	0	2	1	0
	1130	,,	1003.7	1003.0	—	33·7	27.1	24.3	30.4	58	..	3.0	..	10.0	0	5	25	0	2	2	4	12	9	0	1	1	0
	1730	,,	1000.8	1000.1	—	31·8	26.0	23.4	28.8	63	..	3.9	..	8.3	0	3	26	0	2	3	3	16	3	0	2	2	0
Midnapore	0830	45	1004.4	999.3	−0·3	29.9	25.6	23.7	29.3	70	+1	1.7	−1·2	4.9	0	1	21	0	1	1	0	16	4	0	0	9	0
	1730	,,	1000.5	995.5	—	34.4	24.9	20.2	23.7	47	..	4.0	..	8.4	0	3	25	2	2	0	1	18	5	0	0	3	0
Contai	0830	11	1004.6	1003.4	+0·6	31.2	26.9	25.1	31.9	70	−7	2.6	−1·5	10.0	0	6	21	1	0	0	1	10	14	1	0	4	0
	1730	,,	1001·5	1000.3	..	30.4	27.0	25.6	32.8	76	..	2.9	..	13.2	0	7	22	0	0	1	5	15	7	1	0	2	0
Sagar Island	0830	3	1004.6	1004.3	−0·4	30.7	28.0	26.9	35.4	80	+5	4.3	−0·7	23·1	0	16	15	1	1	0	1	10	15	2	1	0	0
	1730	,,	1001.1	1000·8	..	30.9	28.1	27.0	35.7	81	..	3.9	..	27.3	0	22	9	0	0	0	8	14	8	1	0	0	0
Sandheads	0530	10	1002.6	1001.5	..	29.6	26.9	25.9	33.4	83	..	4.6	..	17·3	0	12	18	2	1	0	0	9	14	3	1	1	0
	0830	,,	1005.0	1003.9	−0·3	30.2	27.4	26.3	34.2	80	+1	3.5	−0·3	14·5	0	9	18	1	0	0	0	4	17	2	3	4	0
	1130	,,	1004.6	1003.5	..	30.8	27.8	26.6	34.8	79	..	3.7	..	13.4	0	8	21	0	1	3	2	8	13	2	0	2	0
	1730	,,	1001.1	1000.0	..	30.6	27.9	26.9	35.4	80	..	3.9	..	17.9	0	3	26	0	0	1	3	11	14	0	0	2	0
	2330	,,	1003.4	1002.3	..	29.5	26.9	25.9	33.4	81	..	1.2	..	18.8	0	13	17	0	0	1	4	10	14	1	0	1	0
Orissa Baripaad	0830	54	1005.1	999.1	..	30.8	26.1	24.1	30.0	68	..	1.9	..	5.1	0	0	29	0	0	3	9	8	3	2	1	2	3
	1730	,,	1001.1	995.1	..	32·9	26.6	23.9	29.7	61	..	3.7	..	7.7	0	0	29	2	2	1	3	8	7	3	3	2	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1964 (VAISAKHA 11—JYAISTHA 10, 1886 SAKA)

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																											
Jharsuguda	0230	230	1001.0	975.6	..	28.9	22.0	18.1	20.8	53	..	2.3	..	6.3	0	1	21	1	3	6	9	2	1	0	0	9	0
	0530	,,	1002.2	976.6	..	27.4	22.4	19.7	22.9	63	..	3.0	..	5.7	0	0	25	1	8	3	9	3	0	0	1	6	0
	0830	,,	1003.5	978.3	+0.1	32.1	23.9	19.7	22.9	49	+3	2.0	—0.5	8.0	0	1	28	2	3	3	9	9	2	0	1	2	0
	1130	,,	1002.2	977.4	..	37.0	24.2	17.3	19.7	32	..	1.4	..	7.2	0	0	29	2	2	2	0	9	9	3	2	2	0
	1730	,,	997.5	972.9	..	39.1	22.0	10.2	12.4	19	..	3.5	..	8.3	0	1	26	2	1	0	4	7	1	8	4	4	0
	2330	,,	1001.5	976.2	..	30.9	22.0	16.9	19.3	44	..	3.0	..	9.0	0	0	28	2	2	6	13	4	0	0	1	3	0
Keonjhargarh	0830	463	1004.0	954.0	..	29.5	23.5	20.5	24.1	60	..	1.1	..	1.9	0	0	30	4	4	10	4	2	0	2	3	1	1
	1730	,,	999.1	949.4	..	31.9	23.2	18.5	21.3	48	..	3.2	..	2.1	0	0	31	2	0	4	5	9	0	9	2	0	0
Balasore	0830	20	1004.5	1002.3	—0.1	30.6	27.0	25.5	32.6	75	+5	4.7	+1.2	12.4	0	10	19	1	0	0	1	11	14	2	0	2	0
	1730	,,	1001.0	998.8	..	30.8	27.2	25.7	33.0	75	..	4.9	..	14.8	0	9	22	1	3	2	3	9	12	1	0	0	0
Sambalpur	0830	148	1002.9	986.6	—1.3	32.4	24.3	20.3	23.8	49	+1	0.6	—1.8	2.7	0	0	20	0	0	4	3	11	2	0	0	11	0
	1730	,,	998.3	982.5	..	39.4	22.7	11.9	13.9	19	..	1.6	..	2.8	0	0	20	2	2	0	5	3	4	1	3	11	0
Angul	0830	139	1004.3	988.9	—0.1	31.6	26.8	24.8	31.3	67	+1	3.5	0	4.0	0	0	31	4	7	1	14	4	0	1	0	0	0
	1730	,,	999.1	984.0	..	36.8	28.1	24.5	30.7	51	..	2.2	..	5.5	0	0	31	2	10	1	16	2	0	0	0	0	0
Cuttack	0830	27	1004.8	1001.8	—0.4	31.1	26.9	25.2	32.1	71	+1	3.3	—0.6	9.0	0	3	21	0	0	2	0	8	13	1	0	7	0
	1730	,,	1001.1	998.2	..	33.0	26.9	24.3	30.4	61	..	5.0	..	13.5	0	6	23	1	2	2	1	18	3	1	1	2	0
Chandbali	0830	6	1004.8	1004.1	+0.2	30.1	26.8	25.5	32.6	77	+4	4.0	—0.7	11.2	0	3	28	1	0	6	9	6	5	2	2	0	0
	1730	,,	1001.4	1000.7	..	30.5	26.3	24.5	30.7	69	..	3.9	..	17.2	0	10	21	1	0	11	16	1	1	0	1	0	0
Bolangir	0830	190	1003.3	982.5	..	33.8	26.6	22.5	28.9	56	..	1.1	..	6.0	0	0	31	3	2	3	7	11	5	0	0	0	0
	1730	,,	998.5	978.0	..	38.3	25.7	19.5	22.7	36	..	2.7	..	4.6	0	0	31	6	3	2	5	5	2	2	6	0	0
Phulbani	0830	464	1001.8	951.5	..	30.3	24.2	21.3	25.3	60	..	1.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	997.2	947.8	..	34.7	22.9	16.1	18.3	34	..	2.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Titilagarh	0830	211	1002.8	979.9	..	35.7	25.1	19.9	23.2	41	..	0.3	..	5.0	0	0	31	0	2	0	3	0	20	0	6	0	0
	1730	,,	998.5	975.9	..	38.5	25.6	19.2	22.2	34	..	2.2	..	4.7	0	0	31	0	3	0	4	0	13	0	11	0	0
Bhubaneswar	0230	46	1002.6	997.4	..	27.6	25.6	24.7	31.1	85	..	3.6	..	13.5	0	8	19	0	0	3	0	7	17	0	0	4	0
	0530	,,	1003.4	998.2	..	27.2	25.6	24.9	31.5	88	..	4.5	..	11.3	0	4	27	1	1	6	2	8	8	3	2	0	0
	0830	,,	1005.0	999.8	+0.	31.1	26.7	24.9	31.5	70	+2	3.8	—0.5	16.5	0	13	16	1	1	1	1	13	12	0	0	2	0
	1130	,,	1003.9	998.9	..	34.9	27.0	23.7	29.3	53	..	2.9	..	19.4	0	13	18	0	1	1	0	14	14	1	0	0	0
	1430	,,	1001.1	996.0	..	36.5	27.2	23.1	28.3	47	..	2.9	..	20.9	0	16	15	0	0	2	0	13	14	1	1	0	0
	1730	,,	1001.3	996.1	..	32.1	26.0	23.3	28.6	60	..	4.6	..	26.8	0	17	14	1	0	0	2	19	5	2	2	0	0
	2330	,,	1003.7	998.5	..	28.3	25.9	24.9	31.5	82	..	3.7	..	17.3	0	11	19	0	4	3	2	11	9	1	0	1	0
Puri	0830	6	1004.9	1004.1	—0.3	30.5	27.6	26.5	34.6	79	—2	3.3	—0.5	15.8	0	10	21	0	1	1	2	7	20	0	0	0	0
	1730	,,	1001.7	1001.1	..	30.3	27.4	26.3	34.2	79	..	3.9	..	18.5	0	16	15	0	2	0	0	14	13	2	0	0	0
Gopalpur	0530	17	1003.2	1001.3	..	27.8	26.3	25.7	33.0	88	..	3.7	..	17.1	0	14	13	3	0	0	1	10	10	0	3	4	0
	0830	,,	1005.0	1003.1	0	30.1	27.5	26.5	34.6	81	+2	3.5	+1.1	19.2	0	16	15	2	0	1	1	13	12	0	2	0	0
	1130	,,	1004.3	1002.4	..	32.1	28.6	27.3	36.3	76	..	2.5	..	24.1	0	23	8	0	0	2	4	16	9	0	0	0	0
	1730	,,	1001.6	999.7	..	30.1	27.8	26.9	35.4	83	..	4.9	..	25.6	0	24	6	0	1	0	2	15	10	1	1	1	0
	2330	,,	1003.7	1001.9	..	28.7	26.9	26.2	34.0	86	..	3.3	..	18.9	0	14	13	1	0	3	3	10	9	0	1	4	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1004.6	988.0	+0.1	29.2	24.6	22.4	27.1	69	+7	2.4	—0.3	5.0	0	0	22	2	4	2	11	0	2	0	1	9	0
	1730		1000.2	983.8	..	32.3	23.6	19.1	22.1	49	..	2.7	..	4.8	0	0	20	0	3	6	6	0	2	2	1	11	0
Daltonganj*	0830	221																									
	1730	,,																									
Hazaribagh	0830	611	1003.1	937.3	+0.4	29.9	21.4	16.9	19.3	47	+2	1.2	—1.2	9.3	0	0	29	0	1	0	7	6	13	0	2	2	0
	1730	,,	998.8	933.8	..	33.1	20.2	12.2	14.2	28	..	2.6	..	12.6	0	6	25	6	4	4	1	3	3	0	10	0	0
Dhanbad	0830	257	1004.5	975.9	..	28.4	24.3	22.3	26.9	71	..	1.9	..	3.7	0	0	26	0	3	1	11	1	2	1	4	5	3
	1730	,,	999.4	971.5	..	33.6	23.5	18.0	20.6	43	..	1.8	..	2.8	0	0	18	0	4	3	5	1	0	0	3	13	2
Ranchi	0830	655	1003.9	933.4	+0.7	29.0	23.2	20.5	24.1	60	+13	1.4	—0.8	1.3	0	0	20	0	4	1	0	7	5	1	2	11	0
	1730	,,	1000.2	930.3	..	31.3	23.1	19.2	22.4	52	..	2.9	..	1.0	0	0	14	2	7	1	1	0	0	0	3	17	0
Ranchi Aerodrome	0530	652	1002.8	931.3	..	23.7	19.9	17.9	20.5	71	..	2.5	..	6.6	0	1	23	1	3	1	1	2	11	4	1	7	0
	0830	,,	1003.2	932.8	..	28.7	22.0	18.7	21.6	56	..	1.5	..	10.3	0	2	27	2	0	4	2	7	10	4	0	2	0
	1130	652	1001.9	932.4	..	32.4	22.2	16.9	19.3	44	..	2.2	..	11.3	0	4	26	0	1	7	2	10	4	4	2	1	0
	1430	,,	[illegible]	[illegible]	..	34.5	22.3	15.8	17.9	35	..	3.6	..	15.0	0	5	26	3	4	5	3	3	1	5	7	0	0
	1730	,,	998.3	929.2	..	33.0	20.8	13.6	15.6	35	..	3.3	..	12.9	0	4	27	4	4	5	3	5	2	2	6		0
Jamshedpur	0830	129	1003.8	989.5	+0.2	31.2	24.4	21.1	25.0	56	—2	1.4	—1.4	5.2	0	0	29	1	2	4	3	2	7	7	3		0

(R) Register not received *Data for less than 15 days

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(*Contd.*)																											
Jamshedpur—contd.	1730	129	988·6	994·7	..	36·5	23·7	16·5	18·8	34	..	3·9	..	7·6	0	0	31	2	3	10	6	1	2	3	4	0	0
Jamshedpur (P.B.O.)	0530	142	1002·7	986·9	..	27·0	23·3	21·5	25·6	72	..	2·6	..	2·8	0	1	13	1	2	3	1	4	2	1	0	17	0
	0830	,,	1003·9	988·3	..	31·4	24·2	20·6	24·3	53	..	1·6	..	5·6	0	0	26	0	4	3	3	3	5	1	2	5	0
	1130	,,	1002·7	987·3	..	36·1	24·7	18·9	21·8	37	..	1·5	..	6·1	0	0	28	2	1	6	5	4	8	0	2	3	0
	1430	,,	999.7	984.4	..	38·2	23·5	14·9	16·9	27	..	2·9	..	8·2	0	1	30	4	1	9	3	3	1	5	5	0	0
	1730	,,	998.9	983.5	..	35·7	23·4	16·5	18·8	35	..	3·9	..	8·8	0	2	26	1	6	12	2	0	2	1	4	3	0
	2330	,,	1002·4	986·7	..	29·6	23·4	20·2	23·7	59	..	2·9	..	6·3	0	1	25	0	10	10	2	0	3	0	1	5	0
Chaibasa	0830	226	1003·7	978·7	−0·2	30·6	25·0	22·4	27·1	62	+3	1·6	−0·9	3·0	0	0	27	0	3	0	7	2	12	1	2	4	0
	1730	,,	998·5	974·0	..	35·0	27·1	23·7	29·3	48	..	4·2	..	3·3	0	0	24	0	7	0	7	1	6	1	2	7	0
Bihar Plains																											
Motihari	0830	66	1004·4	996·9	+0·1	28·2	23·6	21·3	25·3	67	+4	2·4	+0·6	2·3	0	0	20	0	3	10	5	0	1	1	0	11	0
	1730	,,	999·9	992·5	..	31·7	25·4	22·5	27·3	59	..	0·8	..	0·4	0	0	4	0	0	3	1	0	0	0	0	27	0
Forbesganj	0830	61	1005·5	998·7	..	27·8	23·3	21·1	25·0	68	..	3·3	..	8·0	0	4	26	0	2	25	2	0	0	0	1	1	0
	1730	,,	1001·0	994·2	..	31·5	24·4	20·9	24·7	56	..	2·4	..	5·9	0	0	30	0	4	14	1	0	0	11	0	1	0
Darbhanga	0830	49	1005·8	1000·3	+1·2	29·4	25·1	23·1	28·3	71	+7	2·5	+0·1	7·1	0	2	24	0	7	14	5	0	0	0	0	5	0
	1730	,,	1000·9	995·2	..	33·5	28·9	27·2	36·1	70	..	0·7	..	3·0	0	0	17	0	4	8	3	0	0	1	1	14	0
Chapra	0830	58	1005·0	998·6	..	30·4	24·8	22·2	26·7	63	..	1·5	..	3·9	0	0	30	4	12	5	4	0	1	0	4	1	0
	1730	,,	1000·8	994·4	..	31·9	25·2	22·1	26·6	58	..	1·1	..	3·9	0	0	30	6	15	1	4	0	2	1	1	1	0
Purnea	0830	38	1005·3	1001·2	+0·1	27·8	24·1	22·3	26·9	72	0	3·3	−0·1	4·5	0	0	30	1	8	20	0	0	0	1	0	1	0
	1730	,,	1000·5	996·5	..	31·8	25·0	21·8	26·1	57	..	2·2	..	4·5	0	0	27	1	5	13	2	1	2	2	1	4	0
Patna	0830	53	1004·1	998·2	+0·1	29·2	23·6	20·8	24·6	61	+3	1·7	−0·1	8·7	0	0	31	1	19	8	2	0	0	1	0	0	0
	1730	,,	999·7	993·9	..	35·7	24·2	18·1	20·8	38	..	0·6	..	6·7	0	0	27	3	17	2	0	0	0	1	4	4	0
Patna Aerodrome	0530	60	1002·2	995·4	..	24·8	22·2	20·8	24·6	79	..	2·2	..	7·9	0	1	19	1	5	12	2	0	0	0	0	11	0
	0830	,,	1003·8	997·0	..	29·5	23·7	20·8	24·6	61	..	1·7	..	12·6	0	6	23	0	5	13	6	1	0	0	2	2	2
	1130	,,	1003·3	996·6	..	33·3	24·2	19·5	22·7	47	..	1·8	..	13·2	0	10	17	0	4	15	3	2	1	1	1	4	0
	1430	,,	1000·8	994·2	..	36·0	24·0	17·5	20·0	36	..	1·6	..	15·3	0	9	21	5	6	10	1	0	1	1	6	1	0
	1730	,,	999·1	992·5	..	35·1	23·6	17·3	19·7	37	..	0·6	..	11·0	0	2	25	4	6	9	1	0	0	0	7	4	0
	2330	,,	1002·0	995·2	..	27·7	22·9	20·4	24·0	66	..	0·7	..	10·7	0	7	13	0	1	15	2	0	0	2	0	11	0
Bhagalpur	0530	49	1003·4	997·9	..	25·0	23·3	22·5	27·3	85	..	4·1	..	6·5	0	1	25	0	3	11	7	4	0	1	0	5	0
	0830	,,	1004·9	999·5	+1·3	29·4	24·7	22·5	27·3	68	+8	3·7	+1·0	7·9	0	2	25	0	7	9	10	1	0	0	0	4	0
	1130	,,	1004·5	999·1	..	32·8	25·0	21·3	25·3	52	..	3·2	..	9·9	0	2	27	0	4	17	4	1	0	2	1	2	0
	1730	,,	1000·4	995·0	..	32·7	24·3	20·1	23·5	50	..	2·1	..	9·5	0	1	30	5	10	10	4	0	0	0	2	0	0
	2330	,,	1003·4	997·9	..	27·7	23·7	21·7	25·9	72	..	2·8	..	6·5	0	1	25	0	2	11	10	3	0	0	0	5	0
Sabaur	0830	37	1004·9	1000·7	+0·7	28·6	24·9	23·3	28·6	73	+9	3·4	−0·4	8·0	0	1	29	0	4	17	3	4	2	0	0	1	0
	1730	,,	1000·1	996·6	..	33·0	25·6	22·2	26·7	55	..	2·2	..	6·8	0	1	29	4	6	15	1	0	0	2	2	1	0
Jamui	0830	82	1005·6	996·2	..	32·4	26·0	23·0	28·1	59	..	0·6	..	3·9	0	0	31	0	3	13	6	2	0	1	6	0	0
	1730	,,	1000·5	991·3	..	33·2	25·7	22·3	26·9	49	..	0·5	..	3·7	0	0	30	0	7	16	1	2	0	1	3	1	0
Dehri	0830	107	1003·2	991·3	..	31·4	23·2	18·8	21·7	47	..	1.0	..	3·5	0	0	31	2	2	6	7	2	3	4	5	0	0
	1730	,,	998·7	987·1	..	37·0	22·5	13·5	15·5	28	..	0.8	..	4·3	0	0	31	5	7	3	0	0	1	8	7	0	0
Gaya	0230	116	1001·7	988·6	..	26·9	21·7	18·8	21·7	63	..	0·8	..	5·5	0	2	17	0	1	4	9	3	2	0	0	12	0
	0530	,,	1002·2	989.1	..	25·7	21·3	18·8	21·7	67	..	1·6	..	5·3	0	2	18	0	2	7	4	5	1	0	1	11	0
	0830	,,	1003·8	991·2	+0·9	31·9	23·2	18·5	21·3	47	+11	1·5	−0·1	8·6	0	4	20	1	0	8	7	3	3	1	1	7	0
	1130	,,	1002·9	990·2	..	36·8	23·2	15·2	17·3	30	..	1·0	..	10·5	0	6	19	1	5	5	4	2	0	3	5	6	0
	1730	,,	999·0	986·4	..	37·2	22·8	14·0	16·0	28	..	1·1	..	13·1	0	9	17	3	4	9	2	0	0	0	8	5	0
	2330	,,	1002·2	989·2	..	29·0	22·2	18·4	21·1	54	..	0·6	..	7·7	0	5	16	0	1	12	5	2	1	0	0	10	0
Uttar Pradesh (East)																											
Kheri	0830	147	1003·4	987·0	+0·7	27·9	21·3	17·1	19·5	54	+7	2·2	+1·1	4·9	0	0	30	0	1	14	3	0	1	9	2	1	0
	1730	,,	998·3	982·2	..	34·5	22·5	15·1	17·1	36	..	2·5	..	2·5	0	0	22	1	3	6	1	0	0	11	0	9	0
Bahraich	0830	124	1004·2	990·4	+0.8	29·0	21·9	17·7	20·5	53	+2	2·5	+1·3	11·2	0	7	16	0	1	16	4	0	0	1	1	8	0
	1730	,,	999·7	986·3	..	35·4	22·6	14·1	16·9	32	..	1.6	..	5·1	0	0	19	0	0	5	1	0	0	12	1	12	0
Nautanwa	0830	99	1004·8	993·7	..	28·5	22·0	18·6	21·4	57	..	1·8	..	6·0	0	0	30	0	12	9	7	0	1	0	1	1	0
	1730	,,	999·3	988·5	..	34·1	22·5	15·4	17·5	35	..	0·7	..	4·0	0	0	29	0	5	12	4	1	4	3	0	2	0
Hardoi	0830	142	..	..	..	29·8	21·4	16·0	18·2	46	+3	1·9	+0.8	6·0	0	0	31	3	4	9	2	4	0	7	2	0	0
	1730	,,	..	..	..	35·7	22·9	14·9	16·9	33	..	1·6	..	3·5	0	0	21	0	2	8	1	3	0	6	1	10	0
Gonda	0830	110	1004·2	992·0	..	30·2	22·5	18·0	20·6	51	+4	1·9	+0·4	5·0	0	0	26	1	0	19	0	0	0	2	4	5	0
	1730	,,	999·5	987·7	..	36·1	23·1	15·9	17·0	31	..	0·9	..	2·7	0	0	19	1	0	5	0	0	0	4	9	12	0
Lucknow	0830	111	1003·5	991·0	+0·1	28·8	22·2	18·4	21·1	56	+13	1·3	+0·1	1·7	0	0	13	0	7	1	1	0	0	3	1	18	0

Sub-Division and station	Hour of observation I. S. T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction:	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Lucknow—contd.	1730	111	999·5	987·6	..	36·4	24·2	17·0	19·4	36	.	0·7	..	1·5	0	0	11	0	2	0	1	0	0	7	1	20	0
Lucknow (Amausi) .	0230	128	1000·9	986·5	..	25·4	19·9	16·0	18·2	59	..	(a) 2·2	..	7·5	0	4	13	3	3	5	0	1	1	3	1	14	0
	0530	,,	1001·4	986·9	..	24·1	19·8	16·8	19·1	67	..	2·2	..	6·1	0	2	17	1	5	5	2	2	2	1	1	12	0
	0830	,,	1003·3	989·1	0	29·6	22·0	16·9	19·3	51	+15	2·0	+0·8	12·5	0	8	19	2	3	7	4	2	0	3	6	4	0
	1130	,,	1002.9	988·9	..	34·9	22·9	15·1	17·1	35	..	1·5	..	12·8	0	8	22	3	1	6	8	1	1	4	6	1	0
	1430	,,	1000·5	986·5	..	37·2	23·1	13·5	15·5	28	..	1·8	..	13·5	0	9	20	5	1	3	6	1	1	1	11	2	..
	1730	,,	999·2	985·3	..	36·3	22·6	13·3	15·3	30	..	1·1	..	8·8	0	3	22	4	1	4	1	2	0	0	13	6	0
	2030	,,	1000·5	986·3	..	29·7	21·7	16·8	19·1	49	...	1·8	..	3·9	0	3	6	0	4	3	1	0	1	2	0	20	0
	2330	,,	1001·2	987·1	..	27·2	21·0	17·1	19·5	57	..	1·4	..	3·3	0	0	15	2	2	7	1	1	0	2	0	16	0
Faizabad .	0830	102	1003·1	992·1	..	28·8	22·5	18·9	21·8	57	..	2·0	..	4·0	0	0	25	0	2	7	2	9	0	3	1	6	1
	1730	,,	999·4	988·3	..	35·0	23·6	17·0	19·4	37	..	1·2	..	3·0	0	0	19	0	1	2	2	1	5	4	4	12	0
Gorakhpur . .	0830	77	1003·9	995·1	—0·3	30·2	23·3	19·6	22·8	56	−2	2·0	+0·6	3·0	0	0	30	3	6	19	1	0	0	1	0	1	0
	1730	,,	999·0	990·6	..	35·7	23·8	16.8	19·1	36	..	0·7	..	1·8	0	0	27	1	3	7	0	3	2	7	4	4	0
Gorakhpur P.B.O. .	0230	78	1001·5	992·6	..	25·9	22·3	19·4	22·5	66	..	1·0	..	6·6	0	0	22	1	7	11	2	0	0	0	1	9	0
	0530	,,	1002·7	993·6	..	24·7	21·4	19·9	23·2	75	..	2·1	..	7·0	0	0	25	4	13	5	0	0	1	0	2	6	0
	1130	,,	1004·0	995·2	..	33·0	24·1	20·3	23·8	49	..	1·9	..	10·5	0	3	27	0	5	6	12	2	0	3	2	1	0
	1430	,,	1001·1	992·5	..	34·9	23·8	19·0	22·0	41	..	1·4	..	8·1	0	1	29	2	2	7	6	7	1	3	2	1	0
	2030	,,	1001·1	994·2	..	30·4	22·7	19·1	22·1	52	..	0·6	..	5·1	0	0	22	1	7	4	3	2	0	4	1	9	0
	2330	,,	1002·0	993·2	..	28·3	21·7	18·3	21·0	57	..	1·3	..	7·6	0	2	20	4	7	6	2	2	0	1	0	9	0
Kanpur . . .	0830	126	1003·0	989·3	+0·2	30·6	21·9	16·6	18·9	46	+9	1·1	+0·4	9·3	0	0	30	4	3	2	7	0	2	10	2	1	0
	1730	,,	999·5	986·0	..	38·1	23·3	14·0	16·0	26	..	(a) 1·0	..	11·4	0	0	30	5	5	2	0	0	0	7	11	1	0
Kanpur (Aerodrome)	0530	126	1001·7	987·6	..	25·6	18·7	13·0	15·0	50	..	1·9	..	10·2	0	0	27	6	1	4	4	0	2	8	2	4	0
	0830	,,	1003·2	989·4	..	31·4	21·5	14·3	16·3	40	..	1·9	..	15·4	0	0	29	3	2	4	7	1	1	8	3	2	0
	1130	,,	1002·9	989·2	..	36·7	21·8	10·0	12·3	25	..	1·3	..	17·2	0	9	21	2	4	6	3	0	0	9	6	1	0
	1730	,,	999·1	985·5	..	38·0	21·0	5·3	8·9	19	..	1·1	..	14·3	0	0	30	3	5	3	0	1	0	5	13	1	0
	2330	,,	1001·2	987·3	..	30·0	20·0	12·2	14·2	39	..	1·5	..	9·3	0	2	20	3	1	7	2	1	0	4	4	9	0
Sultanpur . .	0830	97	1004·3	993·4	..	30·5	23·0	24·9	21·8	51	..	1·8	..	3·0	0	0	19	0	2	11	3	0	1	0	2	12	0
	1730	,,	999·0	988·8	..	36·6	23·4	15·1	17·1	31	..	0·9	..	1·8	0	0	16	1	1	5	2	0	0	5	2	15	0
Azamgarh .	0830	78	1003·5	994·8	..	29·7	25·8	23·9	29·6	73	..	1·4	..	6·7	0	0	30	2	3	18	0	0	1	6	0	1	0
	1730	,,	996·4	990·7	..	36·6	28·4	24·9	31·5	52	..	0·6	..	5·9	0	0	31	3	0	11	0	0	0	17	0	0	0
Fatehpur . .	0830	114	1003·3	990·7	..	31·7	21·8	15·2	17·3	40	—4	1·1	—0·2	7·9	0	1	30	2	6	8	3	1	3	4	4	0	0
	1730	,,	999·9	986·8	..	38·1	22·5	11·6	13·7	25	..	1·1	..	12·9	0	7	24	3	4	3	1	0	2	3	15	0	0
Ballia . . .	0830	64	1004·9	988.0	..	29·6	23·4	21·2	25·0	59	..	1·0	..	2·5	0	0	22	1	2	16	1	0	0	2	0	9	0
	1730	,,	999·8	992·8	..	35·1	26·8	23·6	29·1	51	..	0·1	..	1·4	0	0	22	0	5	12	0	0	0	1	4	9	0
Banda . . .	0830	121	1003·7	990·3	..	33·4	21·9	14·3	16·3	35	..	0·9	..	2·7	0	0	31	0	5	0	8	0	13	0	5	0	0
	1730	,,	999·8	986·9	..	39·0	23·6	14·4	16·4	27	..	1·2	..	3·9	0	0	30	0	7	0	0	0	10	3	10	1	0
Allahabad (Bamhrauli)	0230	98	1000·9	990·0	..	27·5	19·8	14·3	16·3	47	..	1·3	..	2·4	0	0	13	1	3	3	0	1	1	4	0	18	0
	0530	,,	1001·7	990·7	..	26·0	19·5	15·2	17·3	53	..	2·0	..	2·2	0	0	20	2	5	5	1	2	1	3	1	11	0
	0830	,,	1003·3	992·4	—0·3	31·9	21·7	14·6	16·6	40	+4	1·4	..	5·2	0	0	30	1	8	3	1	4	3	7	3	1	0
	1130	,,	1002·7	992·1	..	38·1	22·2	10·4	12·6	23	..	1·1	0	5·1	0	0	30	6	5	5	3	0	2	7	2	1	0
	1430	,,	1000·2	989·6	..	40·2	20·4	8·7	11·2	18	..	1·4	..	7·7	0	0	31	5	7	1	0	0	0	6	12	0	0
	1730	,,	998·8	988·3	..	38·6	22·3	9·9	12·2	22	..	1·1	..	5·8	0	0	31	12	6	0	1	1	0	0	11	0	0
	2030	,,	1000·5	989·7	..	32·8	22·3	14·4	16·4	34	..	0·7	..	2·5	0	0	18	3	7	3	0	0	0	0	5	13	0
	2330	,,	1001·5	990·5	..	29·4	20·4	14·3	16·3	43	..	0·9	..	1·8	0	0	14	2	5	3	2	0	1	0	1	17	0
Varanasi (Babatpur).	0530	85	1002·8	993·0	..	26·4	20·5	16·4	18·6	57	..	1·6	..	7·5	0	3	19	1	2	12	1	0	1	3	0	9	2
	0830	,,	1004·3	994·6	+1·5	31·2	22·6	17·3	19·7	47	+9	1·0	—0·4	9·8	0	0	28	0	0	10	2	1	4	5	2	3	4
	1130	,,	1003·6	994·2	..	35·7	23·5	15·7	17·8	34	..	0·9	..	11·7	0	2	29	0	1	8	3	0	5	0	7	0	7
	1730	,,	1000·1	990·9	..	37·7	23·5	14·4	16·4	29	..	0·6	..	14·1	0	0	31	2	4	7	0	0	1	2	10	0	6
	2330	,,	1002·3	992·8	..	29·8	20·7	14·6	16·6	43	..	0·9	..	5·8	0	0	19	0	2	14	1	0	0	1	1	12	0
Varanasi . .	0830	76	1003·2	994·7	—0·2	28·8	23·0	19·8	23·1	58	+13	1·5	+0·1	2·6	0	0	31	1	10	4	2	4	3	7	0	0	0
	1730	,,	998·8	990·4	..	37·3	24·7	17·9	20·5	34	..	1·2	..	3·0	0	0	30	7	10	1	0	0	0	4	7	1	1
Uttar Pradesh (West) Mukhim .	0830	..	..	..	..	17·8	11·1	5·0	8·7	47	..	2·5	..	(i) 2·8	0	0	16	1	3	5	1	1	4	1	0	6	0
	1730	..	..	..	..	19·4	11·1	2·8	7·5	39	..	4·2	..	(i) 14·2	0	0	18	1	0	2	1	2	1	6	4	4	0
Tehri . .	0830	..	..	..	..	22·4	15·0	10·6	13·1	50	..	2·3	..	1·1	0	0	10	8	2	0	0	0	0	0	0	21	0
	1130	..	..	..	..	29·5	17·2	8·1	10·7	30	..	2·2	..	2·4	0	0	22	3	10	3	1	1	1	2	1	9	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation level in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Tehri contd.	1730	..	..	..	..	31·8	17·8	6·8	10·1	26	..	3·8	..	9·0	0	1	26	4	1	0	4	3	3	6	6	4	0
Dehra Dun	0530	682	1003·0	927·5	..	21·0	14·9	10·0	12·5	52	..	2·6	..	1·1	0	0	11	7	3	1	0	0	0	0	0	20	0
	0830	,,	1003·0	928·9	−0·2	26·5	17·7	11·4	13·8	41	−3	2·2	+0·3	1·2	0	0	14	1	2	2	1	0	1	5	2	17	0
	1130	,,	1002·2	928·4	..	32·1	18·6	8·9	11·5	27	..	2·4	..	4·2	0	0	28	0	1	0	7	9	8	2	1	3	0
	1730	,,	998·9	926·4	..	31·6	18·4	8·2	11·5	26	..	3·4	..	6·3	0	1	28	3	3	0	3	1	7	11	1	2	0
	2330	,,	1002·9	928·1	..	24·1	16·0	10·4	12·3	45	..	3·0	..	3·2	0	0	17	8	4	0	2	2	0	1	0	14	0
Mussoorie	0830	,,	..	..	..	15·8	9·7	4·0	8·3	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	15·1	9·8	5·0	8·7	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1004.7	974·2	+1.3	27·8	18·7	11·9	13·9	39	0	2·5	+1.	1·2	0	0	16	0	0	0	7	0	0	0	9	15	0
	1730	,,	1000·4	970·9	..	35·8	21·3	11·1	13·2	25	..	3·0	..	1·9	0	0	26	0	0	0	3	0	0	0	23	5	0
Najibabad	0830	270	1003·3	973·5	..	27·9	19·	15·0	17·0	48	..	2·3	..	4·8	0	0	25	1	0	5	14	0	2	2	1	6	0
	1730	,,	999·7	970·5	..	34·5	22·1	14·0	17·0	32	..	3·1	..	5·5	0	0	27	0	0	4	3	0	1	19	0	4	0
Meerut	0830	222	1007.7	978.9	+0.5	29·1	20.1	14·9	16.3	46	+6	0.5	−0.7	9.0	0	3	28	2	2	4	4	2	0	8	9	0	0
Bareilly	0830	173	1003·5	984.3	+0.4	29.4	21.0	15.6	18.1	45	−1	1.0	−0.4	10·4	0	6	25	4	3	4	13	2	0	1	4	0	0
	1730	,,	999.5	980.7	..	35.7	22.7	14.8	16.9	31	..	1.5	..	3.3	0	0	27	4	3	1	5	4	0	1	9	4	0
Bareilly P.B.O.	0230	172	1000.8	980.6	..	26.9	19.1	14.2	16.2	48	..	1.8	..	5.0	0	0	28	3	3	11	1	1	0	8	1	3	0
	0530	,,	1001.8	982.4	..	25.2	15.1	14.0	16·0	53	..	2.5	..	5.0	0	0	28	2	4	5	3	1	2	7	4	3	0
	1130	,,	1003.3	984.3	..	33.5	21.7	15.2	17.3	33	..	2.0	..	9.2	0	4	27	2	2	14	4	3	1	2	3	0	0
	1430	,,	1000.8	982.1	..	33.3	22.0	13.6	15.6	28	..	2.0	..	8.9	0	3	28	3	1	7	4	1	1	9	5	0	0
	2030	,,	1000.4	981.5	..	32.0	20.7	14.3	16.3	37	..	1.2	.	4.3	0	0	25	2	2	7	3	0	0	5	6	6	0
	2330	,,	1001.5	982.3	..	28.8	19.7	14.3	16.3	42	..	1.8	..	5.0	0	1	24	4	6	3	3	0	1	4	4	6	0
Aligarh	0830	187	1003.2	982.3	..	29.6	19.9	13.0	15.0	39	+8	1.2	+0.5	3.7	0	0	31	3	1	7	2	1	3	12	2	0	0
	1730	,,	999.3	978.7	..	37.7	21.1	9.4	11 8	20	..	1.2	..	3.3	0	0	29	12	0	1	1	5	0	6	4	2	0
Mainpuri	0830	157	1003.7	986.1	+0.6	27.5	21.5	14.5	16·5	39	−1	0	−1.4	3.0	0	0	25	1	1	3	7	1	5	2	5	6	0
	1730	,,	999.4	982.5	..	38.8	22.7	12.0	14.0	17	..	0	..	3.1	0	0	29	1	0	1	2	1	4	4	16	2	0
Agra	0830	169	1003.8	985·2	+0.7	30.6	22.4	17.6	21.4	48	+21	1.1	0	0·3	0	0	1	0	0	0	0	0	0	0	0	30	1
	1730	,,	999.2	981.0	..	37.9	26.3	21.1	25.0	40	..	1.4	..	1.9	0	1	4	1	1	0	2	0	1	0	0	26	0
Agra (Aerodrome)	0530	,,	1001.9	982.9	..	24.5	18.5	14·3	16.3	55	..	2.1	..	9.0	0	0	26	3	1	2	1	1	3	8	7	5	0
	0830	,,	1003.6	984.9	..	29.9	21.1	15·3	17.4	44	..	1.7	.	12.0	0	1	30	2	4	4	3	0	1	4	9	3	1
	1130	,,	1003.2	984.8	..	36.2	22.9	14·4	16.4	30	..	0.9	..	14·0	0	0	30	5	3	2	4	1	2	7	6	1	0
	1730	,,	999.1	980.9	..	37.1	22.6	12·8	19.6	27	..	2.0	..	16.0	0	0	30	7	1	4	2	1	2	2	11	1	0
	2330	,,	1001.7	982.9	..	28.5	20.2	15·0	17.0	47	..	2.1	..	10·0	0	0	24	4	3	6	3	0	2	3	3	7	0
Orai	0830	141	1005.6	990.1	..	33.4	24.7	20·0	23.4	48	..	1.4	..	2.4	0	0	31	0	12	0	4	0	2	0	13	0	0
	1730	,,	1000.0	984.9	..	37.6	23.8	15·3	17.4	31	..	0.3	..	3.1	0	0	31	1	7	1	2	0	4	0	16	0	0
Jhansi	0830	251	1004.4	976.8	+0·7	32.5	21.7	13·5	15.5	38	+8	0.5	−0.7	2.6	0	0	22	8	2	2	0	0	0	5	5	9	0
	1730	,,	999.3	972.1	..	39·7	21.8	5·0	8.7	17	..	1.3	..	4.1	0	1	18	8	0	8	0	0	0	1	2	12	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1002.5	967.5	..	23.9	16.0	9.0	11.8	42	..	2.0	..	7.1	0	0	21	4	11	4	1	1	0	0	0	10	0
	0830	,,	1003.4	969.1	+1.7	29.5	17.4	6·8	9.9	26	+1	2.2	−0.3	9.1	0	2	25	3	12	5	3	1	1	1	1	4	0
	1130	,,	1002.9	969.1	..	34.4	18.7	4.5	8.8	17	..	2.7	..	9.7	0	1	29	2	3	2	2	8	3	5	3	1	2
	1730	,,	999.8	966.1	..	35.2	18.6	2.7	7.4	16	..	4.0	..	22.7	1	8	22	6	7	1	1	1	4	7	4	0	0
	2330	,,	1002.1	967.1	..	27.7	17.0	7.3	10.7	30	..	2.2	..	13.2	0	5	21	4	15	4	0	1	1	1	0	5	0
Amritsar (Rajasansi)	0530	234	1002.7	976.0	..	20.3	15.9	12.4	14.5	62	..	1.9	..	9.7	0	2	24	4	3	10	3	0	2	0	4	5	0
	0830	,,	1003.2	977.4	+1.4	27.6	19.0	12.7	15.0	41	+2	2.0	+0.3	10.4	0	3	23	3	6	7	4	1	0	1	4	5	0
	1130	,,	1003.5	977.9	..	33.5	20.7	11.6	13.9	29	..	2.2	..	12.5	0	6	21	2	5	3	4	3	2	2	6	4	0
	1430	,,	1001.5	976.1	..	36.4	21.0	9.5	12.3	22	..	2.5	..	13.6	0	8	22	3	1	3	6	3	2	4	8	1	0
	1730	,,	1000.0	974.6	..	35.3	20.2	8.0	11.4	21	..	2.7	..	18.0	0	9	19	1	0	3	4	0	2	7	11	3	0
	2030	,,	1001.2	975.5	..	25.1	19.0	12.2	14.6	40	..	2.3	..	9.4	0	5	19	3	3	4	3	0	1	3	7	7	0
Adampur (Aerodrome)	0830	249	1003.2	975.5	..	28.3	18.7	13.5	13.5	41	..	1.9	..	11.0	0	2	24	3	2	7	5	2	0	2	5	5	0
	1730	,,	1000.0	973.1	..	34.9	20.8	14.4	16.4	30	..	3.3	..	21.0	0	11	20	2	1	0	3	5	0	8	12	0	0
Ludhiana	0830	247	1002.6	975.3	−0.1	28.0	19.0	12.1	14.1	40	+2	1.3	+0.1	3.2	0	0	29	3	10	5	1	4	0	1	5	2	0
	1730	,,	999.5	972.9	..	36.2	21.0	9.	12.0	22	..	2.8	..	4.7	0	0	31	3	6	2	2	4	2	2	10	0	0
Ferozepur	0830	200	1003.3	981.0	..	27.6	21.0	17.6	19.4	53	..	1.3	..	2.0	0	0	24	4	6	4	1	6	0	0	3	7	0
	1730	,,	1000.9	979.2	..	35.2	24.6	19.1	22.1	41	..	1.3	..	3.0	0	1	24	3	8	6	0	1	1	1	5	6	0
Halwara (Aerodrome)	0830	242	1004.1	977.4	..	28.9	19.0	11.1	13.4	36	..	1.4	..	10.1	0	4	26	3	3	4	5	2	1	1	11	1	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(Contd.)																											
Halwara (Aerodrome) contd.	1730	242	1001.4	975.3	..	35.9	20.3	7.4	10.3	20	..	2.3	..	14.7	0	4	27	5	2	0	3	3	0	2	16	0	0
Chandigarh	0830	347	1004.7	964.6	+1.3	30.2	18.2	8.8	11.3	28	−4	1.0	+0.2	4.0	0	0	24	0	6	0	8	0	0	0	10	7	0
	1730	,,	998.5	962.0	..	33.1	20.8	11.6	13.7	27	..	2.6	..	3.9	0	0	30	0	8	0	4	0	0	0	18	1	0
Ambala	0830	272	1002.4	974.7	+2.0	28.7	19.1	12.4	14.4	38	+7	1.3	0	2.6	0	0	15	0	2	0	9	0	2	0	2	16	0
	1730	,,	999.3	970.3	..	34.8	21.0	10.3	13.6	27	..	1.4	..	4.9	0	0	28	1	8	0	9	0	1	2	7	3	0
Ambala (P.B.O)	0230	278	1000.9	969.9	..	25.8	17.7	12.9	14.8	47	..	1.8	..	6.9	0	0	26	8	3	1	7	0	1	1	5	5	0
	0530	,,	1001.4	970.2	..	23.9	17.1	12.8	14.8	52	..	1.8	..	5.9	0	1	20	2	3	2	4	0	1	0	9	10	0
	1130	,,	1002.6	972.3	..	33.8	20.8	13.7	15.7	32	..	2.3	..	9.5	0	2	23	1	0	1	10	0	1	4	8	6	0
	1430	,,	1000.5	970.5	.	36.2	21.4	13.3	15.3	27	..	2.7	..	11.1	0	4	25	1	3	1	7	1	1	8	7	2	0
	2030	,,	1000.4	969.9	..	31.2	20.0	13.4	15.6	37	..	2.7	..	8.8	0	1	24	5	0	1	5	1	2	2	9	6	0
	2330	,,	1001.4	970.6	..	28.3	18.8	13.0	15.0	42	..	2.1	..	9.3	0	4	20	3	2	2	6	0	3	0	8	7	0
Ambala (Aerodrome)	0530	274	1001.8	970.8	..	21.9	16.4	12.1	14.1	56	..	1.8	..	7.3	0	3	14	0	3	2	2	0	0	4	6	14	0
	0830	,,	1002.7	972.3	..	28.3	18.5	10.7	13.3	37	..	2.0	..	11.2	0	5	22	1	0	4	7	1	0	3	9	4	2
	1130	,,	1002.3	972.5	..	34.3	20.3	8.8	12.3	25	..	2.4	..	15.8	0	10	19	1	1	2	7	2	2	5	9	2	0
	1730	,,	998.9	969.2	..	35.3	20.3	8.4	11.6	24	..	2.8	..	19.4	0	11	19	1	2	1	2	3	0	4	15	1	2
	2330	,,	1001.6	971.0	..	26.0	17.9	11.2	13.9	43	..	2.3	..	12.4	0	4	20	2	2	2	2	1	1	3	11	7	0
Patiala	0830	251	1003.6	975.9	..	29.1	19.7	12.8	14.8	39	..	1.6	..	5.5	0	1	11	0	0	0	8	0	0	0	4	19	0
	1730	,,	999.4	972.4	..	36.8	20.8	9.4	11.8	23	..	2.6	..	11.3	0	4	24	1	0	1	5	0	0	1	20	3	0
Bhatinda	0830	211	1004.0	979.5	..	31.3	24.6	21.1	25.0	58	..	1.1	..	3.5	0	0	18	0	3	0	8	1	0	0	6	13	0
	1730	,,	999.3	976.4	..	36.3	30.0	26.0	33.6	56	..	0.6	..	1.5	0	0	15	0	2	0	4	0	0	0	7	18	0
Karnal	0830	249	1002.2	974.7	..	28.7	20.6	14.5	16.5	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	999.0	971.9	..	36.0	23.4	15.7	17.8	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1002.1	977.1	..	23.3	19.1	16.5	18.8	68	..	1.3	..	4.3	0	0	25	2	2	2	4	5	6	2	2	6	0
	0830	,,	1003.7	979.0	+0.5	27.6	22.1	19.1	22.1	60	+24	1.0	0	4.7	0	1	25	0	2	6	5	4	6	2	1	5	0
	1130	,,	1002.8	978.9	..	35.4	25.5	20.5	24.4	44	..	0.8	..	5.5	0	0	30	2	4	2	8	0	8	1	5	1	0
	1730	,,	999.6	975.4	..	36.9	26.1	20.9	24.7	41	..	1.4	..	5.1	0	2	28	7	2	3	3	3	2	4	6	1	0
	2330	,,	1002.2	977.7	..	28.1	21.4	17.3	20.0	55	..	1.5	..	5.0	0	0	18	2	3	3	4	2	2	0	2	13	0
New Delhi (Safdarjung)	0230	216	1001.8	977.6	..	26.6	18.5	12.3	14.7	41	..	1.7	..	10.1	0	3	26	3	3	0	4	1	6	5	7	2	0
	0530	,,	1001.8	977.5	..	25.0	17.6	12.2	14.1	48	..	2.0	..	8.5	0	1	29	0	3	5	2	1	6	8	5	1	0
	0830	,,	1003.6	979.5	+0.4	28.9	19.5	12.5	15.0	40	+10	1.7	+1.6	12.5	0	4	27	2	5	3	3	1	5	9	3	0	0
	1130	,,	1003.0	979.6	..	35.3	21.1	10.7	13.7	25	..	1.2	..	15.4	0	8	23	0	2	5	7	2	1	3	11	0	0
	1430	,,	1001.0	977.6	..	37.7	21.5	9.5	12.4	20	..	1.6	..	16.6	0	11	20	2	4	2	3	1	2	3	14	0	0
	1730	,,	999.3	976.0	..	37.2	21.2	9.3	12.1	20	..	2.1	..	15.6	0	9	21	4	2	2	3	1	1	2	15	1	0
	2030	,,	1000.7	977.1	..	31.4	20.8	13.3	15.6	34	..	1.8	..	12.8	0	6	22	8	2	3	3	1	1	3	7	3	0
	2330	,,	1001.9	978.0	..	29.1	19.5	12.6	14.9	38	..	1.4	..	11.1	0	4	25	3	2	4	3	3	2	3	9	2	0
Palam (Aerodrome)	0230	233	1001.7	975.7	..	26.0	17.8	11.6	13.7	43	..	1.7	..	11.6	0	4	26	2	4	2	5	3	6	6	2	1	0
	0530	,,	1002.0	975.6	..	24.0	17.2	12.1	14.1	46	..	1.5	..	10.7	0	3	24	0	0	5	4	1	9	8	0	4	0
	0830	,,	1003.6	977.8	..	20.5	19.3	12.4	15.3	39	..	1.7	..	11.6	0	3	22	2	0	5	4	1	0	10	3	6	0
	1130	,,	1003.4	978.1	..	35.3	21.4	11.7	14.1	26	..	1.0	..	17.8	0	9	22	2	0	5	4	3	3	4	10	0	0
(R)	1430	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	999.3	974.3	..	37.9	21.8	9.8	12.9	21	..	2.2	..	19.3	0	11	20	8	3	3	4	1	1	4	7	0	0
(R)	2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	1001.9	976.3	..	29.3	19.0	11.2	13.4	35	..	1.5	..	13.9	0	8	23	4	6	3	5	3	3	1	6	0	0
Himachal Pradesh																											
Mandi	0830	761	1005.2	921.8	+1.1	22.2	16.8	12.6	14.8	58	+7	1.4	−0.7	0.3	0	0	4	0	2	0	1	0	1	0	0	27	0
	1730	,,	1001.9	920.8	..	29.9	18.9	11.2	13.9	36	..	4.2	..	0.6	0	0	4	0	0	0	0	0	1	0	3	27	0
Bilaspur	0830	587	1004.9	940.3	..	24.2	18.2	14.2	16.2	56	..	0	..	0.2	0	0	2	0	0	1	0	0	1	0	0	29	0
	1730	,,	1000.6	937.6	..	33.7	22.3	14.3	16.3	34	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgaer (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gilgit (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Skardu (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km. p.h): 62 or more	Wind speed (Km. p.h): 20 to 61	Wind speed (Km. p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Leh	0530	3514	3111·5	666·4	..	0·5	—3·4	—8·0	3·1	62	..	2·8	..	6·4	0	0	29	17	10	1	0	0	0	0	1	2	0
	0830	,,	3111·0	667·2	0·1	7·6	2·6	—4·1	4·3	45	+7	3·5	0	3·5	0	0	21	1	1	0	1	16	0	1	1	16	[illegible]
	1730	..	3119.0	667·6	..	11·5	4·3	—4·5	4·2	34	..	4·3	..	6·6	0	0	30	0	7	0	2	3	7	2	9	1	[illegible]
Srinagar	0830	1587	1487·9	840·3	+0·1	14·9	11.0	7·9	10·6	64	—14	2·0	—0·9	2·3	0	0	15	1	0	1	8	2	0	2	1	16	0
	1130	,,	1486.9	840.0	..	19.6	13.5	9.0	11.4	51	..	2.5	..	2.5	0	0	15	4	1	2	1	0	3	1	3	16	0
	1430	,,	1469·2	838·7	..	22·2	14·6	9·3	11·8	45	..	4·2	..	4·1	0	0	22	6	0	0	1	0	2	3	10	9	0
	0730	,,	1463·4	838·1	..	21·1	13·7	8·1	10·9	44	..	1·5	..	4·5	0	0	22	4	0	0	3	2	1	7	5	9	0
	2030	,,	1472·4	838·9	..	16·6	12·1	8·6	11·4	60	..	3·1	..	2·9	0	0	11	1	0	0	3	2	1	2	2	20	0
Srinagar (Aerodrome)	0530	1666	1474·2	831·1	..	9·4	7·6	5·7	9·3	77	..	2·1	..	2·3	0	0	14	0	0	2	4	4	2	1	1	17	0
	0830	,,	1481·2	832·1	..	14·9	10·7	7·3	10·1	62	..	2·3	..	2·6	0	0	15	2	3	4	2	1	0	1	2	16	0
	1130	,,	1478·0	832·0	..	18·7	12·2	7·2	10·0	47	..	2·9	..	3·5	0	0	18	3	5	1	1	0	0	0	8	13	0
	1730	,,	1455·2	829·9	..	20·5	12·0	4·6	8·5	37	..	5·0	..	12·3	0	5	16	3	2	1	0	2	5	1	7	10	0
	2330	,,	1476·6	831·5	..	13·0	9·5	6·9	9·6	68	..	2·7	..	2·4	0	0	9	2	0	0	2	0	0	0	5	22	0
Gulmarg	0830	2655	Closed during winter Months																								
	1730		Closed during winter Months																								
Quazigund	0830	,,	..	..	..	14·0	10·7	7·9	10·6	66	..	2·1	..	1·6	0	0	25	0	2	0	10	5	5	1	2	6	0
	1730	,,	..	..	..	19·4	12·9	7·7	9·8	48	..	5·5	..	6·5	0	1	29	1	3	4	5	1	5	8	3	1	0
Banihal	0830	,,	..	..	..	16·7	11·2	6·5	9·7	53	..	2·2	..	3·7	0	2	8	0	0	1	0	1	0	0	8	21	0
	1730	,,	..	..	..	20·6	12·8	6·6	9·7	43	..	5·3	..	7·1	0	2	18	0	0	0	0	4	0	1	15	11	0
Jammu	0830	366	..	..	..	28·8	18·2	9·8	12·3	36	+2	2·4	+0 6	5·1	0	0	28	2	2	1	2	3	2	7	4	3	[illegible]
	1730	,,	..	..	..	34·1	19·7	8·4	11·2	22	..	3·5	..	6·4	0	0	28	10	11	1	2	2	1	1	0	3	[illegible]
Jammu (Aerodrome)	0530	292	1002·3	969·3	..	24·1	15·6	8·4	11·0	40	..	1·9	..	8·6	0	1	26	3	16	6	2	0	0	0	0	4	0
	0830	,,	1003·2	970·8	..	28·2	17·8	9·2	11·6	33	..	1·9	—	7·5	0	0	28	4	10	4	2	2	0	2	4	3	0
	1130	,,	1002·9	971·1	..	33·1	18·5	5·7	9·2	20	..	2·5	..	9·0	0	0	28	3	2	0	2	5	2	6	8	3	0
	1730	,,	999·9	968·2	..	34·8	19·4	4·7	8·5	19	..	3·3	..	14·3	0	6	24	3	3	0	1	1	2	12	8	1	0
	2330	,,	1002·7	969·7	..	27·0	16·4	7·4	10·3	30	..	1·9	..	1·3	0	0	20	1	13	3	1	0	0	1	1	11	0
Rajasthan (West)—Ganganagar	0530	177	1001·5	981·6	..	24·6	17·4	11·9	14·0	47	..	2·1	..	4·3	0	0	18	1	3	4	5	2	2	1	0	13	0
	0830	,,	1002·8	983·1	+1·0	29·4	19·6	12·6	14·6	37	+4	0·5	—0·5	6·9	0	1	26	0	4	4	9	3	4	3	0	4	0
	1130	,,	1002·4	963·2	..	36·7	22·2	11·0	13·6	25	..	2·1	..	7·2	0	0	28	2	3	3	6	5	4	2	3	3	0
	1730	,,	998·8	979·5	..	38·4	22·2	11·0	13·1	20	..	1·3	..	5·0	0	0	27	6	4	2	3	0	4	4	4	4	[illegible]
	2330	,,	1001·7	982·0	..	28·7	19·2	12·3	14·5	37	..	1·2	..	5·0		1	19	3	6	3	4	1	0	2	1	11	[illegible]
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan (R)	0830	187																									
(R)	1730	,,																									
Churu	0830	291	1003·5	971·3	..	29·4	20·6	14·4	19·0	43	..	0·8	..	10·5	0	0	27	0	0	7	1	7	6	4	2	4	0
	1730	,,	998·7	967·5	..	37·9	21·4	8·0	12·0	20	..	2·3	..	13·3	0	6	24	8	1	2	0	0	1	12	6	1	0
Bikaner	0830	224	1002·8	978·0	—0.3	30·5	19·5	10·7	12·9	33	+1	0·3	—0.6	7·4	0	3	28	0	0	5	7	3	13	3	0	0	0
	1730	,,	998·2	974·5	..	40·6	20·4	2·4	7·3	12	..	0·5	..	8·3	0	3	28	2	3	2	3	1	9	6	5	0	0
Bikaner P.B.O.	0530	224	1001·3	976·2	..	26·3	18·4	12·1	14·1	44	..	0·6	..	6·0	0	2	14	0	1	0	3	3	7	1	1	15	0
	1130	,,	1002·1	977·9	..	37·2	21·6	9·5	11·9	22	..	0·2	.	8·5	0	3	24	0	2	0	3	6	11	3	2	4	0
	2330	,,	1001·5	976·7	..	30·6	19·5	10·6	12·8	34	..	1·3	..	8·0	0	1	22	2	5	0	6	3	3	0	4	8	0
Nagaur	0830	298	1002·9	970·5	..	31·9	21·7	15·1	17·1	35	..	0·3	..	12·7	0	6	25	0	0	2	2	13	12	1	1	0	0
	1730	,,	999·0	967·1	..	38·8	23·5	14·1	16·1	25	..	0·6	..	13·1	0	10	21	1	1	2	0	5	9	9	4	0	0
Phalodi	0830	234	1003·1	977·3	..	30·4	22·0	16·8	19·1	47	..	0·3	..	10·6	0	3	27	0	0	1	3	8	14	4	0	1	0
	1730	,,	999·4	974·9	..	40·9	24·9	15·8	17·9	24	..	1·1	..	16·5	0	11	20	1	1	0	0	2	10	14	3	0	0
Jaisalmer	0830	242	1002·5	976·3	..	29·4	23·8	20·6	24·3	61	..	0·3	..	15·7	0	9	21	0	1	0	3	14	11	1	0	1	0
	1730	,,	998·4	973·2	..	41·3	27·9	22·6	27·4	37	..	1·3	..	14·0	0	7	24	1	0	1	0	11	12	5	1	0	0
Jodhpur	0230	224	1001·6	976·9	..	30·6	19·8	10·8	12·9	34	..	1·0	..	12·2	0	8	20	2	4	1	3	1	7	9	1	3	0
	0530	,,	1002·1	977·1	..	28·3	19·7	13·2	15·2	42	..	1·0	..	11·2	0	0	28	2	2	2	0	3	12	6	1	3	0
	0830	,,	1004·1	979·2	+1·0	30·3	21·7	15·8	17·9	46	+4	0·5	—0.5	12·1	0	4	25	0	2	2	3	3	12	7	0	2	0
	1130	,,	1003·3	979·1	..	36·8	23·0	13·4	15·6	29	..	0·4	..	14·7	0	10	20	1	0	0	3	3	15	7	1	1	0
	1430	,,	1000·9	976·7	..	40·4	22·8	10·1	12·3	19	..	0·5	..	14·5	0	7	24	2	1	0	0	1	16	6	5	0	0
	1730	,,	998.8	975·1	..	40·4	22·2	8·2	10·9	17	..	0·8	..	14·5	0	5	26	2	1	0	0	0	11	11	6	0	0
	2030	,,	1000·2	976·0	..	36·8	21·6	10·3	12·5	23	..	1.3	..	11·0	0	3	24	0	3	2	0	1	11	6	4	4	0
	2330	,,	1001·6	977·1	..	33·3	21·2	11·2	13·3	30	..	1·5	..	12·9	0	4	25	2	5	1	2	0	9	8	2	2	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) (Contd.)																											
Barmer	0530	194	1001·4	979·8	..	28·7	24·8	22·9	28·3	74	..	0·9	..	5·6	0	0	29	1	1	0	1	3	9	8	6	3	0
	0830	,,	1003·1	981·6	−0·6	29·9	25·7	23·8	29·5	71	+1·0	1·1	+0·4	4·6	0	0	25	1	0	0	2	1	16	3	2	6	0
	1130	,,	1003·2	982·1	..	36·3	27·9	24·3	30·7	52	..	0·3	..	4·2	0	0	31	1	0	0	2	8	13	4	3	0	0
	1730	,,	998·5	977·8	..	41·5	29·7	24·9	31·5	41	..	0·7	..	3·6	0	0	31	1	0	0	1	2	14	7	6	0	0
	2330	,,	1001·4	980·2	..	34·4	26·9	23·6	29·3	55	..	0·4	..	8·6	0	2	29	0	1	0	2	0	13	8	7	0	0
Erinpura (Jawai Dam)	0830	295	1004·7	972·2	..	30·2	23·9	20·8	24·6	59	..	0·3	..	9·0	0	2	25	1	0	0	0	20	5	1	0	4	0
	1730	,,	1000·1	968·6	..	37·7	27·1	22·3	26·9	42	..	0·4	..	8·6	0	1	29	0	0	0	1	1	7	17	4	1	0
Munabao (R)	0830	80																									
(R)	1730	,,																									
Rajasthan (East)																											
Pilani	1730	301	1003·6	970·5	..	29·6	19·7	9·2	11·6	33	..	0·1	..	11·3	0	0	31	0	1	12	2	3	5	8	0	0	0
	0830	,,	999·0	966·8	.	37·0	19·7	3·0	7·6	17	..	1·5	..	14·9	0	0	31	4	3	4	0	0	2	7	11	0	0
Sikar	1730	433	1003·4	956·0	..	29·4	21·3	15·6	17·7	45	..	0·6	..	1·0	0	0	14	0	1	0	7	0	1	5	0	17	0
	0830	,,	998·7	951·7	..	37·0	23·0	14·0	15·9	27	..	2·4	..	1·6	0	0	24	1	0	3	0	1	1	13	5	7	0
Alwar	1730	271	1002·7	972·7	..	30·2	22·8	18·7	21·6	52	..	1·6	..	1·4	0	0	15	1	3	4	2	1	2	0	0	16	2
	0830	,,	998·8	969·9	..	37·7	24·2	16·5	18·8	32	..	2·8	..	2·5	0	0	22	1	2	2	0	0	3	4	8	9	2
Jaipur (Sanganer)	1730	390	1001·5	958·4	..	26·9	17·8	10·1	13·0	39	..	1·2	..	5·9	0	1	22	5	4	6	1	1	0	0	6	8	0
	0230	,,	1002·2	958·8	..	25·1	17·1	10·1	13·0	44	..	(b) 1·4	..	3·7	0	1	16	3	1	6	0	0	0	1	6	14	0
	0530	,,	1003·4	960·6	+0·9	30·1	19·2	11·0	13·4	35	−2	0·8	+0·2	7·4	0	0	26	0	0	7	2	3	1	6	7	5	0
	0830	,,	1002·5	960·6	..	35·6	20·6	8·2	11·9	23	..	(b) ·2	..	9·8	0	3	25	1	1	1	2	3	6	11	3	3	0
	1130	,,	999·9	958·4	..	38·1	20·7	5·6	9·1	18	..	(b) 1·2	..	10·3	0	2	26	1	0	0	0	1	7	9	10	3	0
	1430	,,	998·2	956·6	.	37·4	20·7	6·1	9·3	20	..	1·5	..	10·9	0	3	23	0	0	1	1	0	1	9	12	5	2
	1730	,,	1000·4	958·2	..	32·2	20·0	10·2	13·5	31	..	(b) 1·9	..	7·7	0	4	13	1	1	2	0	0	3	7	3	14	0
Dholpur	2030	,,	1002·0	959·2	..	29·3	18·7	9·7	12·9	34	..	(c) 1·6	..	7·5	0	3	21	6	2	5	0	0	1	7	3	7	0
	2330	176	1003·0	983·5	..	31·1	20·3	12·3	14·3	35	..	1·2	..	4·8	0	1	22	6	2	0	3	2	0	7	3	8	0
Ajmer	0830	,,	998·6	979·7	..	38·6	21·9	9·6	11·9	20	..	1·9	..	7·8	0	1	26	4	4	1	1	1	0	7	9	4	0
	1730	486	1003·7	950·8	+0·7	29·6	19·0	11·5	13·6	36	−3	1·0	0	12·0	0	9	18	0	0	0	4	5	10	8	0	4	0
Tonk	0830	,,	998·4	947·1	..	37·7	20·4	7·2	10·2	19	..	1·9	.	15·8	0	9	22	3	2	0	0	2	10	10	4	0	0
	1730	272	1002·6	972·8	..	30·6	23·0	18·6	21·4	50	..	1·1	..	7·8	0	1	30	1	3	3	7	1	3	8	5	0	0
Bhilwara	0830	,,	997·2	968·5	..	38·8	26·1	19·2	22·2	35	..	1·4	..	7·0	0	1	29	2	1	1	2	2	4	6	12	1	0
	1730	425	1001·0	957·8	..	31·2	20·3	12·3	14·3	34	..	1·1	..	14·0	0	0	30	3	0	2	1	4	14	3	3	1	0
Kota (Aerodrome)	0830	,,	998·9	954·1	.	38·6	21·5	8·6	11·1	18	..	2·3		11·0	0	0	31	1	2	0	0	5	6	4	12	0	1
	1730	274	1002·4	972·1	.	29·0	18·6	9·8	13·0	34	..	1·6	.	13·9	0	9	19	1	3	3	0	1	6	13	1	3	0
	0530	,,	1004·0	974·0	..	32·3	20·0	10·3	13·4	30	..	1·2	.	15·9	0	13	17	2	0	6	2	0	3	11	6	1	0
	0830	,,	1003·2	973·2	..	37·6	21·3	8·2	12·0	20	..	0·6	..	14·7	0	10	21	1	0	5	2	0	9	5	9	0	0
	1130	,,	998·6	969·5	..	40·2	21·1	5·3	9·4	13	..	2·2	..	16·1	0	10	21	3	2	0	0	0	7	11	8	0	0
Kota	1730	,,	1002·3	972·3	..	32·5	19·1	7·0	11·2	25	..	1·7	..	14·1	0	7	23	1	2	2	3	1	8	11	2	1	0
	2330	257	1003·8	975·7	−0·2	33·9	21·3	11·8	13·8	30	+1	1·8	+0·9	10·3	0	6	20	0	1	1	1	3	4	9	7	5	0
Chambal (Rawat Bhatta Dam)	0830	,,	999·0	971·6	..	39·4	22·1	9·1	11·5	17	..	2·7	..	12·1	0	7	18	1	2	0	0	0	8	3	11	6	0
	1730	351	1004·1	965·8	..	30·7	21·0	14·5	16·5	39	..	0·9	..	8·3	0	1	24	1	1	0	3	3	7	3	7	6	0
	0830	,,	999·1	961·8	..	38·8	22·0	9·9	12·2	19	..	2·2	..	14·5	0	8	22	1	2	0	0	1	12	4	10	1	0
Udaipur	0230	582	1003·8	940·4	..	27·7	19·1	13·5	15·5	44	..	1·1	..	4·3	0	0	17	2	1	0	1	2	7	2	2	14	0
	0530	,,	1004·3	940·6	..	25·8	18·3	13·3	15·3	48	..	0·9	..	2·2	0	0	14	0	1	2	1	1	4	3	2	17	0
	0830	,,	1004·7	941·8	−0·3	30·4	19·9	12·9	14·9	37	−8	0·7	+0·3	3·2	0	0	17	2	1	0	0	5	5	1	3	14	0
	1130	,,	1003·7	941·8	..	35·5	20·9	12·0	14·0	27	..	0·6	..	6·5	0	0	29	0	2	0	1	6	11	6	3	2	0
	1730	,,	1000·2	938·6	..	36·6	21·2	10·1	12·4	24	..	1·3	..	8·3	0	0	31	0	2	1	1	3	16	4	4	0	0
	2330	,,	1003·6	940·6	..	30·3	19·9	13·4	15·4	38	..	0·8	..	5·3	0	0	19	0	0	1	0	2	11	4	1	12	0
Jhalawar	0830	321	1003·6	968·6	−0·1	31·9	21·0	13·7	15·7	35	−8	0·7	−0·1	10·5	0	2	29	1	3	1	1	0	11	9	5	0	0
	1730	,,	998·2	964·2	..	40·1	21·0	6·9	9·9	13	..	0·9	..	13·2	0	5	26	2	2	0	0	0	10	12	5	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1001·1	978·1	..	28·0	18·3	10·7	13·2	37	..	2·4	..	7·3	0	5	14	1	2	1	0	3	4	5	3	12	0
	0530	,,	1002·0	978·9	..	26·5	17·8	10·9	13·5	41	..	2·3	..	4·1	0	1	13	3	0	2	0	0	4	2	3	17	0
	0830	,,	1003·4	980·7	+1·0	32·3	20·1	10·6	13·6	30	+6	(a) 2·7	+1·8	7·8	0	1	28	3	3	1	4	2	2	5	9	2	0
	1130	,,	1002·2	980·5	..	37·4	20·9	8·0	11·2	19	..	1·5	..	10·5	0	2	28	2	4	1	0	1	6	4	12	1	0
	1430	,,	1000·3	978·2	..	39·5	21·1	5·8	10·0	15	..	(a) 2·6	..	(a) 10·7	0	1	29	5	1	3	1	2	2	6	10	0	0
	1730	,,	998·7	976·5	..	39·0	20·9	5·9	9·9	16	..	1·9	..	10·5	0	1	30	6	4	1	2	0	1	3	14	0	
	2030	,,	1000·3	977·7	..	33·4	19·9	9·4	12·2	25	..	2·2	..	6·0	0	2	17	3	1	3	0	1	1	6	4	12	0
	2330	,,	1001·9	979·0	..	29·5	18·7	10·0	12·9	3	..	2·4	..	7·5	0	3	18	0	1	3	4	2	3	3	5	10	0

(R) Register not received (a) Mean of 30 days. (a) Mean of 29 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Sheopur	0830	235	1003·8	978·0	+1·0	31·1	19·8	11·2	13·9	34	+6	1·2	0	8·6	0	2	28	0	2	3	3	10	6	3	3	1	0
	1730	,,	998·3	973·2	..	39·3	20·9	5·0	9·7	15	..	2·2	..	13·0	0	5	26	5	1	1	1	2	4	8	9	0	0
Shivpuri	0830	464	1003·3	953·1	..	31·0	18·4	8·8	11·9	28	..	1·9	..	10·6	0	2	28	3	6	2	2	2	3	9	3	1	0
	1730	,,	998·6	949·3	..	37·2	18·8	3·2	8·2	14	..	2·3	..	9·7	0	3	26	8	1	1	1	0	0	6	12	2	0
Nowrozabad	0830	229	1003·5	978·3	—0·1	31·4	19·9	11·5	13·9	31	—2	(a) 1·4	—0·5	4·8	0	0	30	1	3	2	1	3	10	9	1	1	0
	1730	,,	998·9	974·5	..	39·4	21·0	6·8	9·9	15	..	1·0	..	3·7	0	0	28	4	2	0	0	0	4	3	15	3	0
Guna	0530	478	1002·9	950·1	..	25·3	17·0	10·8	13·3	42	..	1·9	..	6·2	0	1	24	2	0	2	2	7	5	5	2	6	0
	0830	,,	1003·7	951·9	+0·2	31·7	19·9	11·6	14·6	33	+4	1·6	+0·8	7·3	0	2	28	5	0	4	1	3	1	12	4	1	0
	1130	,,	1002·4	951·6	..	37·6	20·8	8·7	12·3	20	..	2·3	..	15·3	0	11	19	3	0	1	1	1	1	7	16	1	0
	1730	,,	998·3	947·9	..	38·6	20·1	5·9	9·9	15	..	2·7	..	16·3	0	11	20	4	3	0	0	1	2	10	11	0	0
	2330	,,	1002·6	950·4	..	28·7	18·0	10·2	12·9	34	..	1·3	..	7·1	0	2	25	0	3	1	1	4	3	11	4	4	0
Nimach	0830	496	1005·1	950·9	—0·2	28·7	20·6	15·6	18·3	48	+1	1·0	+0·2	16·5	0	12	17	1	1	1	1	1	5	17	0	2	2
	1730	,,	999·7	946·6	..	37·7	20·4	7·5	11·3	18	..	1·7	..	17·2	0	13	18	1	4	0	0	0	5	16	3	0	2
Rajgarh	1130	382	1004·4	962·6	..	30·8	20·7	13·5	16·2	37	..	1·2	..	10·4	0	2	29	2	1	4	4	0	4	15	1	0	0
	1730	,,	999·1	958·9	..	39·2	21·8	8·5	11·9	17	..	0·8	..	12·9	0	5	26	3	0	1	0	2	2	19	4	0	0
Sagar	0830	551	1003·4	943·9	—0·3	31·1	18·4	8·9	11·9	28	—3	1·2	—0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	998·2	940·3	..	37·4	18·7	2·9	7·9	13	..	1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ratlam	0530	486	1005·6	952·3	+0·3	28·5	23·2	20·7	24·4	63	+5	1·0	—1·0	16·8	0	12	19	1	1	0	1	1	7	16	4	0	0
	1730	,,	1000·4	948·9	..	37·3	22·7	14·4	16·8	27	..	0·9	..	15·4	0	7	24	1	0	1	0	0	8	14	7	0	0
Jaora (Mandsaur)	0230	525	1002·5	945·3	..	27·5	17·2	9·0	12·1	35	..	0·9	..	12·5	0	4	26	6	2	3	1	1	3	11	3	1	0
	0530	,,	1003·6	946·1	..	25·7	17·1	10·6	13·2	41	..	2·2	..	11·5	0	5	22	3	1	0	1	0	6	12	4	4	0
	0830	,,	1004·4	947·8	+0·1	31·4	20·0	12·6	15·1	34	+3	1·5	+0·6	17·0	0	14	17	1	0	2	2	1	2	13	10	0	0
	1130	,,	1002·4	947·2	..	36·7	20·8	10·0	12·8	21	..	1·6	..	15·4	0	9	21	3	2	0	0	1	6	11	7	1	0
	1430	,,	999·6	944·8	..	39·2	20·7	7·6	10·8	15	..	2·4	..	19·4	0	14	17	6	0	0	1	0	6	6	12	0	0
	1730	,,	998·6	943·6	..	38·8	20·4	6·2	10·1	15	..	2·5	..	19·0	0	15	16	4	1	0	1	0	1	9	15	0	0
	2030	,,	1001·1	945·0	..	33·0	18·5	7·6	10·7	22	..	1·6	..	14·2	1	4	24	9	2	1	0	0	2	10	5	2	0
	2330	,,	1002·7	946·0	..	29·9	17·6	8·3	11·1	28	..	1·0	..	12·0	0	3	24	6	4	1	0	1	4	7	4	4	0
Ujjain	0530	489	1004·5	951·2	..	29·8	22·5	18·8	21·7	53	..	(a) 0·7	..	(a) 22·3	0	17	13	0	0	1	0	1	2	13	13	0	[illegible]
	1730	,,	999·0	947·3	..	37·8	20·8	9·4	12·1	20	..	1·7	..	23·5	0	21	10	2	0	0	0	0	0	16	13	0	[illegible]
Narsinghopur	0830	356	1003·8	965·1	..	33·0	21·5	14·0	16·3	33	..	0·3	..	9·2	0	1	30	1	2	1	1	1	3	11	4	0	7
	1730	,,	997·7	960·4	..	40·2	23·4	12·9	15·1	21	..	2·5	..	3·5	0	0	31	4	4	0	0	1	2	18	2	0	0
Hoshangabad	0830	302	1004·9	971·7	—0·2	31·3	21·8	15·9	18·3	41	+9	1·4	+0·2	5·7	0	0	31	0	3	0	1	1	13	8	3	0	2
	1730	,,	998·6	966·6	..	40·4	24·4	15·0	17·5	24	..	2·2	..	6·9	0	0	31	6	6	0	1	1	5	6	6	0	0
Indore	0530	567	1004·5	942·1	..	25·1	18·4	13·9	16·2	52	..	1·1	..	16·6	0	9	21	1	0	0	0	0	10	17	2	1	0
	0830	,,	1005·2	943·6	—0·4	29·1	20·7	15·9	18·2	46	—2	1·0	0	25·8	0	24	6	1	1	0	1	0	3	20	4	1	0
	1130	,,	1003·7	943·3	..	35·3	21·2	12·3	14·9	26	..	0·7	..	23·9	0	20	11	6	1	0	0	2	5	12	5	0	0
	1730	,,	999·3	939·6	..	37·6	19·9	6·6	10·2	17	..	1·4	..	23·5	0	18	13	3	0	0	1	0	4	15	8	0	0
	2330	,,	1003·6	942·1	..	29·1	17·9	9·3	12·3	31	..	0·5	..	18·2	0	12	17	1	0	0	0	0	10	14	4	2	0
Rajpur (Jhabua)	0830	293	1007·5	974·6	..	27·6	23·5	21·5	25·6	69	..	1·7	..	16·3	0	8	22	0	1	0	0	0	4	25	0	1	0
	1730	,,	1001·3	970·1	..	37·8	23·1	13·9	16·2	25	..	1·0	..	18·8	0	16	15	2	0	0	1	0	4	23	1	0	0
Chhindwara	0830	685	1003·2	930·1	+0·1	31·7	21·2	14·5	17·3	38	+2	0·3	—2·0	11·8	0	6	24	3	6	2	0	0	1	4	14	1	0
	1730	,,	997·3	925·9	..	37·9	23·1	14·0	17·3	28	..	1·9	..	14·3	0	6	25	5	1	0	0	0	0	9	16	0	0
Seoni	0830	619	1003·1	937·0	—0·4	32·4	21·5	14·8	17·6	38	+9	0·8	—0·8	10·4	0	0	29	8	7	1	2	0	1	1	9	2	0
	1730	,,	997·5	932·9	..	38·2	23·7	15·6	18·6	29	..	3·3	..	9·3	0	0	31	8	4	1	2	0	0	2	14	0	0
Betul	0830	653	1005·1	934·5	+0·5	29·4	18·7	11·4	13·7	34	—4	1·1	—1·5	5·5	0	0	30	2	2	0	3	0	1	8	14	1	0
	1730	,,	998·3	930·0	..	37·7	19·1	4·1	8·5	13	..	0·9	..	7·6	0	0	31	3	1	0	0	0	2	9	16	0	0
Khandwa	0830	318	1005·6	970·7	0	31·3	22·6	17·6	20·2	45	+5	0·6	—0·5	4·9	0	0	31	0	0	0	0	1	4	8	18	0	0
	1730	,,	999·4	965·7	..	40·2	22·2	9·3	12·0	17	..	1·5	..	5·7	0	0	31	0	0	0	0	0	6	1	24	0	0
Madhya Pradesh (East)																											
Satra	0530	317	1002·0	966·7	..	26·0	18·1	11·8	14·3	44	..	0·8	..	2·0	0	0	21	4	2	1	1	2	5	5	1	10	0
	0830	..	1003·0	968·4	0	32·5	21·5	13·9	16·6	35	+5	0·9	—0·7	2·5	0	0	28	3	0	3	0	3	4	15	0	3	0
	1130		1001·9	969·4	..	38·2	22·9	12·3	15·3	24	..	0·9	..	3·9	0	0	27	3	3	2	0	0	6	3	10	4	0
	1730	,,	998.4	964·7	..	39·1	22·7	11·1	14·1	21	..	1.1	..	5·2	0	0	30	5	1	1	2	0	1	3	17	1	0
	2330	,,	1001·5	966·7	..	30·5	19·9	12·1	14·6	35	..	(a) 0·3	..	(a) 2·5	0	0	16	1	1	2	5	1	0	3	3	14	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
M. P. (East).—(Contd.)																											
Sidhi	0830	272	1003·0	973·2	..	32·1	20·7	12·3	15·1	33	..	0·5	..	1·8	0	0	26	2	2	7	0	0	0	14	1	5	0
	1730	,,	997·8	968·8	..	38·5	21·2	7·0	11·1	19	..	1·8	..	2·6	0	0	29	3	7	3	0	0	1	8	7	2	0
Umaria	0830	459	1003·5	953·9	..	32·6	21·1	13·8	16·6	35	+9	0·6	−1·4	3·8	0	0	20	1	3	1	3	0	3	6	3	11	0
	1730	,,	997·8	949·4	..	38·8	22·9	13·3	16·3	25	..	1·7	..	6·8	0	0	28	2	1	0	0	0	2	3	20	3	0
Jabalpur	0530	393	1002·9	959·5	..	26·2	17·1	9·4	12·9	37	..	1·2	..	2·6	0	0	18	1	2	0	6	1	3	4	1	13	0
	0830	,,	1003·8	961·3	+0·3	33·1	19·7	9·6	12·0	24	−5	0·5	−0·7	4·4	0	0	26	3	1	2	2	3	3	8	4	5	0
	1130	,,	1002·1	960·5	..	38·9	21·1	7·2	10·4	16	..	0·9	..	6·6	0	0	31	5	3	1	1	0	2	8	11	0	0
	1430	,,	999·1	957·8	..	41·0	21·1	4·4	8·8	12	..	2·2	..	8·0	0	0	30	8	2	0	0	0	2	6	12	1	0
	1730	,,	998·1	956·7	..	39·2	20·8	5·6	9·5	14	..	2·1	..	8·8	0	1	30	9	4	0	0	0	2	8	8	0	0
	2330	,,	1001·9	959·0	..	30·0	18·6	9·6	12·2	30	..	0·7	..	3·0	0	0	14	1	6	1	0	0	0	3	3	17	0
Ambikapur	0830	611	1003·0	937·5	+0·2	31·3	21·1	15·1	17·6	40	+4	1·1	−0·1	4·5	0	0	18	2	2	3	1	5	4	1	0	13	0
	1730	,,	997·4	933·3	..	36·7	20·8	10 0	12·9	23	..	1·8	..	9·3	0	2	27	13	6	2	0	0	1	3	4	2	0
Pendra	0530	625	1002·5	934·5	..	26·1	16·7	9·3	12·2	37	..	1·5	..	4·1	0	0	24	5	0	1	0	1	5	7	5	7	0
	0830	,,	1002·9	936·2	+0·3	32·3	19·1	9·5	12·4	27	−6	1·0	−0·9	10·5	0	3	27	6	2	4	0	7	1	3	7	1	0
	1130	,,	1001·2	935·6	..	36·8	19·7	6·7	10·4	17	..	1·4	..	10·1	0	4	27	10	1	2	1	1	4	5	7	0	0
	1430	,,	998·1	933·0	..	38·4	19·6	4·9	9·0	14	..	2·5	..	13·9	0	7	24	11	1	1	0	2	4	5	5	0	2
	1730	,,	997·5	932·1	..	36·7	19·2	4·9	9·4	16	..	2·0	..	11·4	0	4	26	14	4	0	2	0	0	3	7	1	0
	2330	,,	1002·0	934·6	..	29·1	17·2	8·4	10·9	30	..	1·1	..	5·5	0	1	30	8	1	1	1	0	3	7	10	0	0
Mandla	0830	443	1003·6	955·6	+0·3	31·5	20·9	14·0	16·1	35	0	0·3	−2·2	1·3	0	0	8	3	0	0	0	2	0	0	3	23	0
	1730	,,	997·6	950·9	..	38·2	23·8	15·0	17·7	27	..	2·0	..	4·2	0	1	19	10	0	0	0	1	0	4	5	11	0
Champa	0830	245	1003·3	976·5	0	33·9	22·7	15·9	18·4	36	0	1·5	−1·1	5·2	0	0	29	3	2	11	4	4	1	2	2	2	0
	1730	,,	997·6	971·5	..	40·8	22·4	9·1	12·0	16	..	2·7	..	7·9	0	3	28	7	2	2	0	0	1	6	13	0	0
Raigarh	0830	220	1003·1	979·0	0	33·1	23·6	18·2	21.3	43	+2	1·5	−1·4	3·8	0	0	30	1	8	4	9	4	2	1	1	1	0
	1730	,,	997·1	973·6	..	40·2	21·7	7·2	10·9	15	..	3·3	..	2·3	0	0	19	6	5	0	0	0	0	2	6	12	0
Raipur	0530	298	1001·4	968·7	..	30·0	19·3	11·3	13·6	32	..	1·5	..	5·8	0	0	26	3	5	1	0	3	2	4	7	5	1
	0830	,,	1003·2	970·9	−0·3	34·9	22·1	13·6	16·1	30	−3	0·9	−1·2	9·7	0	1	30	7	5	3	0	2	5	6	3	0	0
	1130	,,	1001·8	970·1	..	39·7	22·8	11·3	13·9	20	..	1·0	..	9·2	0	1	30	5	2	1	0	2	1	5	13	0	2
	1430	,,	998·6	967·2	..	42·0	22·6	8·5	11·5	14	..	3·1	..	10·3	0	1	30	4	2	0	0	2	2	11	9	0	1
	1730	,,	997·2	965·8	..	41·2	22·1	7·7	11·0	14	..	2·8	..	9·5	0	1	30	4	3	0	0	0	3	8	13	0	0
	2330	,,	1000·1	968·4	..	33·7	20·5	10·7	13·2	27	..	1·7	..	8·7	0	0	30	6	2	2	3	6	3	4	4	1	0
Kanker	0830	402	1003·4	960·2	+0·2	34·1	24·9	20·7	24·0	46	+6	0·5	−2·6	2·3	0	0	19	1	0	0	0	0	6	6	6	12	0
	1730	,,	997·7	955·5	..	39·8	27·1	21·1	25·3	35	..	1·4	..	3·7	0	0	29	2	0	0	0	0	0	10	17	2	0
Jagdalpur	0530	553	1002·6	942·2	..	25·7	21·1	18·7	21·7	66	..	3·6	..	1·9	0	0	9	0	0	1	1	1	5	1	0	22	0
	0830	,,	1003·8	944·2	−0·6	30·9	23·1	19·1	22·5	51	−4	2·6	−0·1	5·4	0	0	24	1	1	0	0	4	14	3	1	7	0
	1130	,,	1002·1	943·6	..	36·0	23·0	15·9	18·5	32	..	2·3	..	9·1	0	0	31	4	1	1	0	2	12	7	4	0	0
	1730	,,	998·7	940·2	..	34·7	22·1	14·8	17·4	35	..	4·8	..	7·7	0	1	28	4	0	1	0	7	11	5	1	2	0
	2330	,,	1002·3	942·4	..	28·4	21·3	17·3	20·1	53	..	2·3	..	3·2	0	0	14	0	0	2	3	5	3	1	0	17	0
Gujarat Region																											
Dessa	0830	136	1006·3	991·0	−0·1	29·4	21·8	17·4	19·9	49	..	0·6	..	4·9	0	0	31	2	0	1	8	5	10	2	3	0	0
	1730	,,	1001·1	986·5	..	40·0	22·7	11·1	13·4	18	..	0·2	..	4·1	0	0	31	1	0	0	0	4	13	11	2	0	0
Radhanpur	0830	30	1006·4	1003·0	..	29·4	26·0	24·5	30·7	75	..	0	..	10·6	0	2	29	0	0	0	0	4	21	1	5	0	0
	1730	,,	1001·7	998·6	..	39·9	29·2	24·3	31·7	44	..	0	..	9.8	0	2	29	0	0	0	0	0	21	5	5	0	0
Idar	0830	219	1006·0	981·6	..	28·0	22·8	19·7	23·5	63	..	1·3	..	3·0	0	0	29	0	0	0	3	1	17	3	5	2	0
	1730	,,	1000·5	977·1	..	39·2	22·8	11·8	14·3	21	..	0·2	..	4·0	0	0	31	0	0	0	0	0	15	8	8	0	0
Ahmedabad	0230	55	1004·2	998·0	..	29·2	23·7	20·9	24·7	62	..	0·1	..	11·5	0	3	25	0	0	1	0	1	9	14	3	3	0
	0530	,,	1004·8	998·6	..	27·1	23·1	20·8	25·0	69	..	0·8	..	9·0	0	0	27	0	0	1	1	1	10	8	6	4	0
	0830	,,	1006·7	1000·5	−0·5	29·2	24·0	21·4	25·6	63	−7	1·6	0	15·2	0	8	23	1	0	0	1	3	10	12	4	0	0
	1130	,,	1006·3	1000·2	..	35·0	24·5	18·9	22·1	40	..	0·3	..	17·4	0	14	17	2	0	0	0	2	12	11	4	0	0
	1430	,,	1003·3	997·3	..	40·1	24·2	14·9	17·1	24	..	0·4	..	19·2	0	18	13	1	0	0	1	1	12	9	6	0	1
	1730	,,	1001·2	995·2	..	40·2	24·1	14·0	16·8	23	..	0·9	..	18·2	0	13	17	1	0	0	0	2	11	10	6	1	0
	2030	,,	1002·9	996·8	..	34·2	24·4	19·0	22·5	41	..	0·7	..	16·0	0	16	11	1	0	0	0	3	18	4	1	4	0
	2330	,,	1004·5	998·3	..	31·6	24·2	20·4	24·1	53	..	0·4	..	13·8	0	4	26	1	0	0	1	4	8	15	1	1	0
Baroda	0830	333	1006·0	969·1	−0·2	28·3	23·1	20·3	24·0	62	+4	1·5	−0·2	22·1	0	20	10	0	0	0	0	0	10	19	1	1	0
	1730	,,	1000·6	965·2	..	38·4	22·5	11·9	14·3	22	..	0·6	..	21·1	0	19	12	1	0	0	0	1	15	13	1	0	0
Vallabh Vidya Nagar	0830	44	1007·0	1002·1	..	28·6	24·4	22·4	27·1	68	..	1·8	..	12·5	0	1	30	1	0	1	1	4	17	2	4	0	1
	1730	,,	1001·7	996·9	..	38·4	25·8	19·5	22·8	35	..	0·4	..	13·7	0	6	25	1	0	0	3	12	9	4	1	0	1
Baroda Aerodrome	0830	38	1007·3	1003·1	..	29·6	24·9	22·6	27·6	66	..	1·7	..	14·6	0	6	25	0	0	1	0	5	20	4	1	0	0
	1130	,,	1006·7	1002·5	..	34·9	24·5	18·9	22·1	40	..	0·4	..	19·3	0	11	20	0	0	0	0	5	13	8	5	0	0
	1730	,,	1002·1	997·9	..	38·2	24·5	16·5	19·5	30	..	0·5	..	20·4	0	13	18	0	0	0	0	6	6	15	4	0	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region—(Contd.)																											
Baroda	0530	34	1005·5	1001·6	..	27·3	25·0	24·0	29·8	83	..	1·2	..	2·3	0	0	15	0	0	0	0	0	14	1	0	16	0
	0830	,,	1007·4	1003·5	+0·6	29·4	25·6	23·9	29·7	72	+7	1·3	—0·4	3·4	0	0	26	0	0	0	0	0	16	10	0	5	0
	1130	,,	1006·8	1003·0	..	35·3	25·6	20·9	24·9	44	..	0·4	..	4·1	0	0	27	0	0	0	1	0	16	10	0	4	0
	1730	,,	1002·4	998·6	..	39·3	25·9	18·9	22·4	33	..	0·4	..	6·5	0	0	27	0	0	0	0	0	11	15	1	4	0
	2330	,,	1005·4	1001·5	..	29·7	25·6	23·6	29·3	71	..	0·7	..	5·7	0	0	26	0	0	0	0	1	17	8	0	5	0
Broach	0830	17	1007·1	1005·1	+0·6	28·4	25·2	23·7	29·5	76	+5	2·9	+0·1	7·0	0	0	31	0	0	0	1	3	26	1	0	0	0
	1730	,,	1002·8	1000·9	..	36·7	24·8	18·3	21·6	36	..	0·2	..	9·2	0	0	31	0	0	0	0	3	26	1	1	0	0
Surat	0530	12	1006·1	1004·8	..	27·5	25·0	23·9	29·7	81	..	1·9	..	8·7	0	1	29	0	0	0	4	8	18	0	0	1	0
	0830	,,	1007·8	1006·5	0	30·4	25·7	23·6	29·3	66	0	3·1	+0·1	10·6	0	1	29	0	0	0	0	4	26	0	0	1	0
	1130	,,	1007·8	1006·5	..	33·7	25·3	22·0	26·6	51	..	2·7	..	12·8	0	3	28	0	0	0	0	1	25	2	3	0	0
	1730	,,	1004·3	1003·0	..	32·4	26·2	23·7	28·9	60	..	1·0	..	12·0	0	4	27	0	0	0	0	0	31	0	0	0	0
	2330	,,	1006·4	1005·1	..	28·7	25·7	24·4	30·5	77	..	1·7	..	18·6	0	15	16	0	0	0	0	9	22	0	0	0	0
Saurashtra and Kutch																											
Naliya	0830	21	1005·7	1003·3	..	28·7	26·1	25·0	31·7	80	..	3·7	..	19·1	0	17	14	0	0	0	0	5	20	5	0	0	1
	1730	,,	1003·3	1000·9	..	31·7	27·2	25·3	32·2	69	..	1·9	..	19·7	0	18	13	0	0	0	0	6	20	5	0	0	0
Bhuj (Rudramata)	0230	80	1003·8	994·8	..	26·8	25·6	25·0	31·9	90	..	0·2	..	14·4	0	4	26	0	0	0	0	0	8	21	1	1	0
	0530	,,	1004·0	994·9	..	25·9	25·0	24·6	30·9	93	..	0·9	..	14·5	0	8	18	0	1	0	0	0	12	11	2	5	0
	0830	,,	1005·6	996·5	—0·5	28·6	25·9	24·8	31·1	80	+19	0·7	—0·3	19·4	0	14	17	1	0	0	0	0	11	18	1	0	0
	1130	,,	1005·5	996·6	..	35·1	27·0	23·3	28·9	52	..	0·2	..	33·7	0	18	13	0	0	0	0	0	11	18	2	0	0
	1430	,,	1003·5	994·7	..	37·8	27·0	21·9	26·7	41	..	0·3	..	26·2	0	29	8	1	0	0	0	0	10	16	4	0	0
	1730	,,	1002·2	993·4	..	36·4	27·0	22·7	27·9	47	..	0·1	.	27·5	0	25	6	0	0	0	0	0	9	21	1	0	0
	2030	,,	1003·6	994·6	..	30·4	26·4	24·6	31·1	72	..	0·1	..	21·8	0	16	15	0	0	0	0	0	8	22	1	0	0
	2330	,,	1004·7	995·7	..	27·9	26·1	25·3	32·2	86	..	0·1	..	19·9	0	11	20	0	0	0	0	0	14	16	1	0	0
Kandla Aerodrome	0830	35	1006·3	1002·4	..	29·5	26·1	24·6	31·1	76	..	1·2	..	29·6	0	20	11	0	0	0	0	2	23	6	0	0	0
	1130	,,	1005·8	1002·0	..	35·6	26·5	22·4	27·3	49	..	0·6	..	29·7	0	24	6	0	0	0	1	0	20	8	1	1	0
	1730	,,	1002·5	998·7	..	37·2	26·4	21·0	25·5	42	..	0·1	..	40·0	0	30	1	0	0	0	0	2	24	5	0	0	0
New Kandla	0830	14	1006·5	1004·9	..	28·8	25·8	24·3	30·7	77	..	2·6	..	28·5	0	21	9	0	0	0	0	1	15	14	0	1	0
	1730	,,	1003·1	1001·5	..	33·0	27·0	24·5	30·7	61	..	0·1	..	39·7	0	31	0	0	0	0	0	0	15	16	0	0	0
Mandvi	0830	9	1006·5	1005·4	+0·5	28·7	26·5	25·6	32·6	83	—1	3·5	+1·1	29·6	0	24	7	0	1	0	0	2	17	7	1	0	3
	1730	,,	1004·1	1003·0	..	30·4	27·8	26·8	35·2	81	..	2·3	..	41·4	0	31	0	0	0	0	0	0	8	12	0	0	11
Surendranagar	0830	74	1006·8	998·4	+0·7	29·2	26·3	25·0	31·9	79	+12	(a) 1·2	—0·5	(a) 16·6	0	9	19	0	0	1	1	2	8	14	2	2	0
	1730	,,	1001·7	993·7	..	40·0	26·0	18·9	22·1	30	..	0·9	..	19·4	0	15	15	0	0	0	0	0	0	26	4	1	0
Okha	0530	7	1005·3	1004·5	..	27·3	26·1	25·7	32·8	91	..	3·2	..	25·5	0	23	8	0	0	0	0	1	13	14	3	0	0
	0830	,,	1007·0	1006·2	.	28·7	26·9	26·1	34·0	87	..	3·3	..	25·6	0	22	9	0	0	0	0	1	16	10	4	0	0
	1130	,,	1007·5	1006·7	..	30·5	27·4	26·0	33·8	77	..	2·6	..	30·6	0	30	1	0	0	0	0	0	13	15	3	0	0
	1730	,,	1004·8	1004·0	..	30·1	27·8	26·8	35·4	83	..	1·8	..	31·5	0	30	1	0	0	0	0	0	11	18	2	0	0
	2330	,,	1006·2	1005·4	..	28·0	26·7	26·2	33·8	90	..	1·8	..	27·4	0	27	4	0	0	0	0	0	12	18	1	0	0
Jamnagar Aerodrome	0530	23	1005·1	1002·5	..	26·3	24·6	23·8	29·7	87	..	2·7	..	19·8	0	17	13	0	0	0	0	0	15	14	1	1	0
	0830	,,	1006·7	1004·2	0	29·0	25·8	24·3	30·5	76	+·10	2·5	+0·9	25·6	0	27	4	0	0	0	0	1	13	16	1	0	0
	1130	,,	1007·6	1004·2	..	33·6	26·3	22·9	28·3	55	..	0·6	..	31·7	0	30	1	0	0	0	0	0	7	20	4	0	0
	1730	,,	1003·6	1001·1	..	32·7	26·4	23·6	29·3	60	..	0·4	..	36·3	0	31	0	1	0	0	0	0	0	26	4	0	0
	2330	,,	1005·8	1003·2	..	28·0	25·4	24·1	30·4	80	..	0·3	..	26·1	0	28	3	0	0	0	0	0	7	23	1	0	0
Dwarka	0830	11	1006·9	1005·6	—0·3	28·4	26·3	25·5	32·6	84	+1	3·1	+0·8	20·4	0	16	15	0	0	0	0	0	15	14	2	0	0
	1730	,,	1004·8	1003·5	..	30·1	27·3	26·2	34·0	80	..	1·7	..	25·2	0	25	6	0	0	0	0	0	13	17	1	0	0
Rajkot	0530	138	1005·1	989·6	..	25·4	24·2	23·6	29·3	89	..	2·1	..	20·6	0	19	12	0	0	1	0	1	23	5	1	0	0
	0830	,,	1006·7	991·3	+0·4	28·4	25·9	24·7	31·5	81	+10	0·7	—0·8	26·2	0	26	5	0	0	0	0	3	21	6	1	0	0
	1130	,,	1005·9	990·9	..	35·7	27·0	23·1	28·6	49	..	0·1	..	29·0	0	25	6	0	0	0	0	3	17	9	2	0	0
	1730	,,	1002·2	987·3	..	38·0	27·2	22·4	27·3	41	..	0·1	..	41·2	1	27	3	0	0	0	0	3	11	7	10	0	0
Bhaunagar Aerodrome	0830	11	1007·5	1006·3	0·0	29·8	25·0	22·7	27·7	66	+13	1·1	+0·7	20·5	0	18	13	0	0	0	0	2	18	7	4	0	0
	1130	,,	1007·1	1005·9	..	35·5	25·4	20·4	24·3	42	..	0·3	..	20·3	0	16	15	2	3	3	2	2	10	5	4	0	0
	1730	,,	1002·2	1001·1	..	37·2	27·0	22·0	27·2	42	..	0·8	..	43·8	3	26	2	0	0	0	2	19	8	1	1	0	0
Porbandar Aerodrome	0830	7	1007·4	1006·6	+0·8	29·0	26·0	24·7	31·1	77	—4	2·6	—0·4	17·1	0	11	20	1	0	0	0	1	15	10	4	0	0
	1130	,,	1007·8	1007·0	..	31·0	26·6	24·7	31·1	69	..	1·8	..	24·5	0	24	7	0	0	0	0	0	18	12	1	0	0
	1730	,,	1005·0	1004·2	..	30·7	26·9	25·3	32·2	73	..	1·9	..	26·1	0	29	2	0	0	0	0	0	11	19	1	0	0
Keshod	0830	51	1007·8	1002·0	..	28·6	25·1	23·3	28·9	74	..	2·6	..	18·6	0	16	15	1	0	0	0	0	17	8	5	0	0
	1130	,,	1007·8	1002·1	..	33·4	25·3	21·4	25·6	50	..	1·3	..	23·1	0	18	13	0	0	0	0	0	14	14	3	0	0
	1730	,,	1004·9	999·2	..	33·1	25·4	21·7	26·3	52	..	1·1	..	35·6	0	28	3	0	0	0	0	0	11	20	0	0	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—contd.																											
Mahuva	0830	9	1007·6	1006·6	..	28·9	25·6	24·1	30·0	76	..	3·3	..	4·6	0	0	30	1	1	0	0	1	18	5	4	1	0
	1730	,,	1003·7	1002·7	..	31·5	26·4	24·2	30·4	66	..	4·5	..	10·8	0	0	31	0	0	0	0	6	24	1	0	0	0
Veraval	0230	8	1005·6	1004·7	..	27·3	25·4	24·5	30·7	85	..	2·4	..	20·1	0	16	15	2	0	0	0	0	3	18	8	0	0
	0530	,,	1005·8	1004·9	..	27·0	25·2	24·4	30·5	86	..	3·4	..	20·1	0	15	16	4	0	0	0	0	3	18	6	0	0
	0830	,,	1007·9	1007·0	−0·2	28·5	25·7	24·4	30·7	79	—3	2·6	+0·2	18·3	0	14	17	2	1	0	0	1	6	15	6	0	0
	1130	,,	1008·2	1007·3	..	30·4	26·5	24·9	31·5	72	..	1·8	..	22·2	0	19	12	0	0	0	0	1	8	19	3	0	0
	1430	,,	1006·7	1005·8	..	30·8	26·8	25·1	31·9	72	..	1·5	..	26·8	0	29	2	0	0	0	0	0	7	21	3	0	0
	1730	,,	1005·4	1004·5	..	29·8	26·6	25·2	32·2	77	..	2·2	..	27·5	0	30	1	0	0	0	0	0	5	22	4	0	0
	2030	,,	1006·2	1005·3	..	28·3	26·0	25·1	31·9	83	..	2·2	..	23·6	0	26	5	1	0	0	0	0	2	20	8	0	0
	2330	,,	1006·8	1005·9	..	27·8	26·0	25·2	32·1	85	..	2·7	..	20·6	0	17	14	0	0	0	0	0	2	20	9	0	0
Konkan																											
Dahanu	0830	5	1008·1	1007·6	+0·8	30·0	26·0	24·2	30·2	72	−6	2·5	−1·8	12·9 (d)	0	3	24	0	0	0	4	0	13	9	1	0	0
	1730	,,	1005·5	1005·0	..	31·6	27·6	25·9	33·6	73	..	1·3	..	23·5 (a)	0	24	6	0	0	0	0	0	7	22	1	0	0
Bombay (Santacruz)	0230	15	1006·5	1004·9	..	27·9	24·7	23·2	28·4	76	..	3·5	..	4·8	0	0	20	0	0	2	0	0	2	11	5	11	0
	0530	,,	1006·7	1005·1	..	27·4	24·5	23·0	28·3	78	..	3·4	..	4·1	0	0	22	0	3	3	1	0	4	7	4	9	0
	0830	,,	1008·6	1007·0	−0·3	30·0	25·3	23·1	28·3	67	—5	3·8	+0·5	8·1	0	3	23	0	1	0	1	1	3	14	6	5	0
	1130	,,	1008·8	1007·2	..	32·2	26·0	23·2	28·4	59	..	2·9	..	18·6	0	15	16	0	0	0	0	0	5	18	8	0	0
	1430	,,	1006·9	1005·3	..	32·4	26·2	23·4	28·9	59	..	2·4	..	20·1	0	24	7	0	0	0	0	0	2	21	8	0	0
	1730	,,	1005·9	1004·3	..	31·2	25·9	23·6	28·9	64	..	3·5	..	20·1	0	19	12	0	0	1	0	0	2	20	8	0	0
	2030	,,	1007·0	1005·4	..	29·0	25·3	23·7	29·3	73	..	2·8	..	11·8	0	0	31	0	0	1	0	0	3	20	7	0	0
	2330	,,	1007·6	1006·0	..	28·4	25·1	23·6	29·3	75	..	2·7	..	9·3	0	0	29	0	0	0	0	0	5	15	9	2	0
Bombay	0830	11	1008·7	1007·8	−0·2	30·4	25·6	23·5	28·9	67	−7	3·1	−0·2	3·9	0	0	29	1	0	2	0	3	5	11	6	2	1
	1130	,,	1009·0	1507·8	..	32·4	26·4	23·8	29·5	61	..	2·3	..	5·0	0	0	31	2	0	0	0	1	6	16	6	0	0
	1730	,,	1006·1	1004·9	..	31·7	26·5	24·3	30·4	65	..	3·2	..	8·3	0	0	31	0	0	0	0	0	7	18	6	0	0
Alibag	0830	7	1008·8	1008·0	+0·3	29·3	26·2	24·8	31·5	77	+5	2·6	−0·9	10·3	0	4	26	2	1	1	2	2	8	4	10	1	0
Bhira	0830	96	1008·4	997·6	..	29·1	24·7	22·6	27·6	68	..	3·2	..	2·3	0	0	21	0	0	0	4	4	7	1	5	10	0
	1730	,,	1004·7	994.2	..	34·5	25·5	21·1	25·3	48	..	2·0	..	5·9	0	0	31	0	0	0	0	1	16	5	9	0	0
Harnai	0830	20	1009·0	1006·7	+1·2	29·2	26·1	24·8	31·1	77	−1	4·5	+0·5	15·7	0	3	27	10	2	3	1	1	1	8	4	1	0
	1730	,,	1006·1	1003·8	..	29·8	26·5	25·1	31·9	76	..	3·4	..	24·3	0	26	5	0	0	0	0	0	0	20	11	0	0
Ratnagiri	0830	35	1008·9	1005·0	0	29·7	25·3	23·2	28·6	68	..	2·7	..	7·2	0	0	31	1	1	1	3	0	0	13	12	0	0
	1730	,,	1006·0	1002·1	..	31·5	26·1	23·7	29·3	63	..	3·9	..	16·8	0	11	20	3	0	0	0	0	0	11	17	0	0
Devgarh	0830	36	1008·9	1004·9	+0.7	29·9	26·5	25·2	31·9	77	0	3·3	−1.4	10·4	0	1	28	3	2	0	1	0	0	1	22	2	0
	1730	,,	1006·0	1002·0	..	31·8	27·8	26·3	34·0	72	..	2·6	..	26·0	0	26	5	0	0	0	0	0	0	1	30	0	0
Vengurla	0230	9	1007·1	1006·1	..	27·9	25·1	23·9	29·5	79	..	2·8	..	1·1	0	0	5	1	0	0	0	0	0	0	4	26	0
	0530	,,	1007·5	1006·5	..	27·2	24·9	23·8	29·5	82	..	4·1	..	1·3	0	0	8	3	0	0	0	0	0	3	2	23	0
	0830	,,	1009·4	1008·4	+1·2	29·8	25·7	23·9	29·7	71	−2	4·0	−0.8	2·5	0	0	18	8	1	0	1	0	3	2	3	13	0
	1130	,,	1009·4	1008·4	..	32·1	26·2	23·7	29·3	62	..	3·1	..	9·5	0	1	30	0	0	0	0	1	9	18	3	0	0
	1730	,,	1006·1	1005·1	..	31·3	26·3	24·2	30·0	66	..	2·7	..	10·7	0	1	30	0	0	0	0	0	2	20	9	0	0
	2330	,,	1008·4	1007·4	..	28·9	25·6	24·2	30·0	76	..	2·4	..	4·1	0	0	19	1	0	0	0	0	0	2	16	12	0
Panjim	0830	57	1009·0	1002·7	..	29·8	25·2	23·1	28·3	67	..	4·1	..	10·5	0	2	26	8	4	2	0	0	1	4	9	3	0
	1130	,,	1008·9	1002·6	..	32·5	25·6	22·4	27·3	56	..	3·4	..	17·9	0	10	21	1	0	0	0	0	0	19	11	0	0
	1430	,,	1006·8	1000·6	..	32·7	25·8	22·7	27·6	56	..	3·0	..	21·5	0	23	8	0	0	0	0	0	0	15	16	0	0
	1730	,,	1005·8	999·5	..	31·2	25·5	22·8	27·9	62	..	3·4	..	19·8	0	15	16	4	0	0	0	0	0	6	21	0	0
	2030	,,	1007·4	1001·1	..	29.3	25·3	23·5	28·9	71	..	3·3	..	13·5	0	1	30	7	0	1	0	0	0	5	18	0	0
Marmugao	0530	62	1006·9	1000·0	..	28·5	25·4	24·0	30·0	77	..	4·5	..	15.8	0	9	21	8	2	0	0	0	3	6	11	1	0
	0830	,,	1008·9	1002·0	..	29·5	25·8	24·1	30·0	73	..	5·0	..	14.8	0	12	18	7	4	0	0	0	3	4	12	1	0
	1130	,,	1008·9	1002·0	..	31·2	26·2	24·0	29·8	66	..	3·9	..	17·4	0	11	20	3	0	0	0	0	1	13	14	0	0
	1730	,,	1005·7	998·8	..	30·7	26·2	24·3	30·4	69	..	3·5	..	23·2	0	25	6	2	0	0	0	0	0	11	18	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1007·1	984·1	..	29·0	23·6	21·0	24·7	64	..	0·7	..	15·4	0	12	19	1	0	0	0	0	4	26	0	0	0
	1730	,,	1001·7	979·4	..	36·6	24·0	16·8	19·5	33	..	0·8	..	11·8	0	4	27	0	1	1	0	0	1	28	0	0	0
Jalgaon	0830	201	1006·4	984·0	−0·6	29·4	23·1	19·6	23·1	57	+3	0·9	−0·6	32.4	0	28	3	0	0	0	0	0	1	20	10	0	0
	1730	,,	1000·2	978·8	..	41·1	22·6	9·4	12·3	16	..	2·0	..	27.9	0	24	7	7	0	1	0	0	1	8	14	0	0
Malegaon	0830	437	1006·6	958·7	−0·2	29·5	21·6	16·6	19·4	47	0	0·7	−0.7	10·9	0	28	3	2	1	0	0	0	2	17	9	0	0
	1730	,,	1000·2	954·0	..	38·8	22·6	11·8	14·2	21	..	1·5	..	22·8	0	11	20	9	2	0	0	0	0	8	12	0	0
Deolali (Aerodrome)	0830	571	1008·7	945.8	..	26·1	21·4	18·9	22·1	65	..	1·6	..	21·0	0	14	17	0	0	0	0	0	19	11	1	0	0
	1730	,,	1003·5	942.4	..	33·6	21·8	14·8	17·5	35	..	1·8	..	26·6	0	23	8	0	0	0	1	0	12	12	6	0	0
Ahmednagar	0830	657	1006·6	935·3	−0.4	28.4	19.9	14.8	17.0	45	+4	0.5	−0.9	8.0	0	2	29	1	1	0	0	0	2	0	27	0	0
	1730	,,	999·5	930.9	..	37.8	20.5	8.6	11.2	18	..	2.1	..	15.0	0	7	24	2	1	1	0	0	3	0	24	0	0

(a) Mean of 30 days. (d) Mean of 27 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 32 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra (*Contd.*)																											
Poona (Aerodrome)	0230	593	1006·5	940·8	..	23·0	20·5	19·1	22·4	79	..	0·5	..	21·8	0	19	12	0	0	0	0	0	3	23	5	0	0
	0530	,,	1006·8	940·9	..	22·0	20·0	18·8	22·0	83	..	1·1	..	19·6	0	15	14	0	0	0	0	0	2	23	4	2	0
	0830	,,	1007·7	942·6	..	26·0	21·1	18·4	21·4	63	..	1·5	..	26·6	0	25	6	1	0	0	0	0	5	24	1	0	0
	1130	,,	1006·0	942·4	..	33·0	21·7	14·7	17·6	36	..	1·2	..	30·1	0	28	3	1	0	0	0	0	1	25	4	0	0
	1730	,,	1002·7	939·1	..	32·9	22·4	16·8	19·4	41	..	1·9	..	35·5	0	31	0	1	0	0	0	0	1	26	3	0	0
	2330	,,	1007·2	941·7	..	24·6	21·4	19·8	23·1	75	..	0·8	..	23·2	0	19	12	0	0	0	0	0	2	25	4	0	0
Poona	0530	559	1006·8	944·8	..	23·0	20·3	18·9	21·8	78	..	1·1	..	6·6	0	0	26	0	0	0	0	0	1	25	0	5	0
	0830	,,	1007·7	946·4	−0·3	26·7	21·6	19·0	22·0	63	+9	1·2	−0·8	8·6	0	3	23	0	0	0	0	0	4	22	0	5	0
	1130	,,	1006·1	946·1	..	33·0	22·3	16·4	19·0	38	..	1·1	..	9·4	0	1	28	1	0	0	0	0	1	20	7	2	0
	1430	,,	1003·0	943·7	..	35·7	22·8	15·8	18·3	32	..	1·4	..	13·2	0	6	24	1	0	0	0	0	0	22	7	1	0
	1730	,,	1002·7	942·9	..	33·5	22·7	17·1	19·6	39	..	1·5	..	15·4	0	7	24	0	0	0	0	0	3	23	5	0	0
	2030	,,	1005·7	944·7	..	27·9	22·3	19·6	22·8	62	..	1·1	..	10·6	0	2	29	0	0	0	0	0	1	29	1	0	0
	2330	,,	1007·2	945·6	..	25·3	21·5	19·5	22·8	71	..	0·8	..	7·7	0	1	27	0	0	0	0	0	1	27	0	3	0
Jeur	0830	521	1006·8	949·8	+0·7	27·7	21·6	18·4	21·3	58	0	1·2	−1·6	19·5	0	17	14	2	0	0	0	0	1	12	16	0	0
	1730	,,	999·3	944·6	..	38·7	22·0	11·5	14·1	22	..	3·2	..	20·9	0	17	14	6	3	0	1	1	0	8	12	0	0
Baramati	0830	551	1006·8	946·8	+0·9	28·3	21·7	18·3	21·0	56	−3	0·7	−2·3	11·6	0	29	20	2	1	0	0	0	2	15	11	0	0
	1730	,,	1000·1	942·0	..	36·5	23·4	16·3	19·1	32	..	0·9	..	24·5	0	26	5	2	1	0	0	0	0	20	8	0	0
Sholapur	0530	479	1005·2	952·5	..	26·4	21·2	18·3	21·3	62	..	1·5	..	9·6	0	0	31	0	0	0	0	0	4	13	14	0	0
	0830	,,	1006·8	954·5	−0·1	29·5	22·9	19·6	23·1	56	+8	1·2	−1·0	8·6	0	0	31	1	0	0	0	0	5	9	16	0	0
	1130	,,	1004·6	953·6	..	36·4	23·5	16·8	19·5	33	..	0·9	..	11·9	0	1	30	9	0	0	0	0	2	3	17	0	0
	1730	,,	998·9	948·8	..	40·2	24·5	16·3	19·1	26	..	2·4	..	9·0	0	1	30	7	2	0	0	0	4	7	11	0	0
	2330	,,	1004·0	952·3	..	32·0	22·6	18·0	20·5	44	..	1·6	..	13·5	0	2	29	2	0	0	0	0	2	15	12	0	0
Miraj	0830	554	1008·4	947·5	+0·5	25·9	22·4	20·8	24·4	73	+1	4·0	+1·3	..	..	..	..	0	0	0	0	0	1	18	2	10	0
	1730	,,	1001·9	943·1	..	35·0	24·2	18·9	22·2	41	..	4·8	..	..	..	..	..	0	0	1	0	0	8	20	1	1	0
Kolhapur	0530	570	1006·9	943·8	..	23·0	21·3	20·5	24·1	86	..	2·1	..	13·6	0	8	20	0	0	0	0	0	0	27	1	3	0
	0830	,,	1008·1	945·5	+0·1	26·0	22·0	20·1	23·5	70	−3	2·1	−0·6	13·9	0	4	27	0	0	0	0	0	0	30	1	0	0
	1130	,,	1006·4	945·2	..	32·2	23·0	18·4	21·3	44	..	1·4	..	12·4	0	2	28	1	0	0	0	0	0	26	3	1	0
	1730	,,	1002·7	941·7	..	32·2	23·8	19·9	23·2	49	..	2·0	..	23·4	0	22	9	0	0	0	0	0	0	30	1	0	0
	2330	,,	1007·2	944·3	..	24·5	21·9	20·6	24·4	79	..	0·5	..	16·3	0	7	22	0	0	0	0	0	0	29	0	2	0
Marathwada																											
Aurangabad	0830	581	1006·3	943·4	−0·5	30·2	20·9	15·4	17·8	43	−1	0·8	−0·9	16·8	0	10	21	3	3	0	0	0	2	16	7	0	0
	1730	,,	999·6	938·8	..	38·6	21·2	9·8	12·4	19	..	2·7	..	20·5	0	16	15	3	1	1	0	0	1	18	7	0	0
Aurangabad (Chikalthan)	0230	579	1004·1	940·8	..	26·2	20·8	17·6	20·6	61	..	0·2	..	19·0	0	11	19	2	0	0	0	0	0	20	8	1	0
	0530	,,	1005·0	941·2	..	24·6	19·6	16·4	19·1	62	..	0·6	..	17·2	0	7	24	1	0	0	0	0	1	22	7	0	0
	0830	,,	1005·7	943·1	..	30·5	23·0	19·1	22·7	53	..	0·8	..	19·0	0	13	16	5	0	0	0	0	1	9	14	2	0
	1130	,,	1004·1	942·7	..	36·3	24·4	18·1	21·8	38	..	0·8	..	20·8	0	18	12	7	2	0	1	0	0	10	10	1	0
	1430	,,	1000·7	940·0	..	38·9	24·5	16·6	20·1	31	..	1·8	..	20·3	0	13	18	2	1	2	0	0	0	15	11	0	0
	1730	,,	999·4	938·7	..	38·2	24·4	16·5	20·4	32	..	2·3	..	22·8	0	17	14	10	1	1	0	0	0	7	12	0	0
	2030	,,	1002·3	940·5	..	33·2	22·6	17·2	19·6	40	..	0·9	..	21·5	0	14	17	5	0	1	0	0	0	12	13	0	0
	2030	,,	1004·5	941·9	..	29·5	21·9	17·7	20·8	51	..	0·3	..	19·0	0	10	21	2	0	0	0	0	0	18	11	0	0
Parbhani	0830	423	1005·9	959·8	+1·0	31·2	21·4	14·6	17·5	39	−6	0·9	−1·7	13·5	0	4	27	3	0	0	0	0	0	10	18	0	0
	1730	,,	998·9	954·5	..	41·0	23·8	11·5	15·4	21	..	2·8	..	13·9	0	5	26	7	3	1	1	1	0	7	11	0	0
Nander	0830	358	1005·0	966·1	..	33·1	21·3	13·5	15·7	32	..	0·3	..	7·0	0	19	5	1	2	0	0	0	0	6	15	7	0
	1730	,,	999·4	961·6	..	41·1	22·2	8·3	11·3	15	..	1·7	..	7·2	0	0	25	2	8	0	0	0	2	3	10	6	0
Bir	0830	519	1006·6	950·2	..	29·8	21·2	16·4	18·9	46	..	0·5	..	10·5	0	1	30	1	0	0	0	0	2	1	26	0	1
	1730	,,	1000·6	946·2	..	39·6	25·0	17·6	20·9	30	..	1·3	..	8·4	0	0	30	0	4	0	1	0	6	0	19	1	0
Vidharbha																											
Gondia	0830	313	1003·6	969·7	+0·1	34·2	20·5	9·6	12·9	24	−13	0·8	−1·4	5·4	0	0	30	11	5	1	0	7	4	0	2	1	0
	1730	,,	997·8	964·8	..	40·9	21·2	4·7	8·5	12	..	2·5	..	7·3	0	0	30	15	0	0	2	1	2	6	4	1	0
Nagpur (Sonegaon)	0230	310	1000·9	966·9	..	30·7	17·0	3·4	8·3	19	..	0·6	..	10·0	0	1	27	6	1	0	0	2	1	4	14	3	0
	0530	,,	1002·0	967·9	..	29·2	16·7	4·4	8·9	23	..	1·3	..	9·2	0	1	28	7	1	0	0	0	1	4	16	2	0
	0830	,,	1003·5	970·0	−0·5	34·8	19·3	5·3	9·8	18	−12	0·9	−1·2	15·9	0	9	21	8	1	3	0	0	1	2	15	1	0
	1130	,,	1002·1	969·2	..	40·1	20·9	4·2	9·1	12	..	0·7	..	13·9	0	7	24	4	5	2	1	0	0	5	14	0	0
	1430	,,	998·9	966·2	..	42·1	21·0	1·5	7·6	10	..	2·7	..	15·8	0	10	21	8	0	2	1	0	2	9	9	0	0
	1730	,,	997·6	964·9	..	41·0	20·2	−0·4	6·8	9	..	2·3	..	16·6	0	9	22	3	2	4	0	0	0	9	13	0	0
	2030	,,	999·9	966·6	..	35·7	18·9	2·8	8·2	15	..	1·1	..	8·9	0	1	30	6	1	0	1	1	2	5	15	0	0
	2330	,,	1001·3	967·6	..	32·9	17·9	3·4	8·4	17	..	1·3	..	10·0	0	2	28	5	0	1	0	0	3	7	14	1	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Amraoti	0830	370	1004·5	964·4	−0.2	32·9	21·1	12·8	15·7	32	−3	0·4	−1.2	7·2	0	0	31	1	3	1	0	0	6	9	11	0	0
	1730	,,	998·6	959·6	..	40·0	22·1	8·1	10·8	16	..	2·5	..	10·8	0	1	30	7	2	2	0	2	3	2	13	0	0
Akola Aerodrome—	0530	309	1002·6	968·5	..	28·9	20·4	14·8	17·0	43	..	1·2	..	15·8	0	8	23	2	0	0	0	1	1	17	10	0	[illegible]
	0830	,,	1004·4	970·5	..	31·5	22·1	16·5	19·0	41	..	0·7	..	11·5	0	4	27	0	0	0	0	0	0	14	17	0	0
	1130	,,	1002·9	969·8	..	38·1	23·1	13·7	16·0	25	..	1·0	..	15·1	0	6	25	4	2	1	0	0	1	10	13	0	0
	1730	,,	998·2	965·4	..	40·5	21·9	7·8	11·1	15	..	3·2	..	15·0	0	7	24	0	2	1	0	0	2	9	17	0	0
	2330	,,	1001·7	968·2	..	33·5	20·0	9·8	12·3	25	..	0·7	..	13·3	0	6	25	2	1	0	0	0	3	13	12	0	0
Akola	0830	282	1004·9	974·0	−0·4	31·8	22·8	17·7	20·4	44	+8	0·4	−1·4	3·7	0	0	29	0	0	0	0	0	0	8	21	2	0
	1730	,,	998.7	968·8	..	41·0	23·4	11·9	14·4	19	..	2·5	..	3·0	0	0	30	0	0	0	0	0	4	15	11	1	0
Brambapuri	0830	229	1004·0	979·0	..	34·0	21·8	13·6	16·2	31	..	1·1	..	4·8	0	0	30	7	3	2	2	6	6	3	1	1	0
	1730	,,	998·1	973·9	..	41·8	22·0	5·4	10·3	13	..	2·5	..	4·1	0	0	31	5	5	1	2	2	3	4	9	0	0
Buldana	0830	650	1005·8	935·2	+0.7	27·7	20·4	16·1	18·5	51	0	0·8	−2·1	17·8	0	12	19	11	1	0	0	0	0	0	19	0	0
	1730	,,	999·3	931·2	..	37·1	20·2	8·5	11·3	19	..	1·5	..	9·1	0	1	28	8	4	0	1	0	0	1	15	2	0
Yeotmal	0830	451	1003.7	955·1	+0.1	33·3	19·9	9·0	12·2	24	−14	1·0	−2·1	12·3	0	2	29	7	0	1	0	1	0	13	9	0	0
	1730	,,	997·7	950·5	..	40·4	20·0	−0·1	6·8	9	..	2·8	..	10·0	0	3	27	10	1	1	0	1	1	13	3	1	0
Chandas	0830	193	1003·8	982·7	−0.1	34·4	21·4	12·2	14·9	28	−5	1·1	−0·9	11.8	0	6	25	5	1	2	2	5	3	5	8	0	0
	1730	,,	997·9	977·5	..	42·2	21·8	5·8	9·5	12	..	2·8	..	14·8	0	6	25	8	1	1	1	1	1	7	10	0	1
Pasad	0830	334	1004·9	968·6	..	33·5	23·1	16·8	20·0	39	..	1·1	..	18·3	0	4	17	5	1	0	0	0	2	3	20	0	0
	1730	,,	999·2	963·9	..	41·3	23·8	12·9	15·2	20	..	3·1	..	14.3	0	16	25	4	2	0	2	0	1	4	18	0	0
Sironcha	0830	123	1004·8	991·2	+0·3	33·3	24·1	19·0	22·3	45	−7	1·3	−2·0	7·0	0	0	31	0	3	1	19	0	1	1	6	0	0
	1730	,,	998·6	985·4	..	42·6	24·0	12·9	14·5	19	..	1·6	..	7·3	0	0	31	1	2	3	3	1	3	1	17	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1005·7	1005·0	+0·2	31·4	28·0	26·5	35·0	76	+4	2·3	−1·2	13·0	0	6	25	0	1	0	2	10	11	5	2	0	0
	1730	,,	1001·6	1000·3	..	31·4	28·2	26·9	35·6	75	..	1·4	..	16·5	0	10	21	0	2	0	3	12	11	0	0	0	0
Vishakhapatnam	0230	3	1003·1	1002·7	..	28·9	26·4	25·4	32·2	82	..	4·5	..	5·4	0	1	17	0	1	1	1	2	7	3	3	13	0
	0530	,,	1003·7	1003.3	..	28·5	26·2	25·2	32·0	83	..	4·3	..	3·4	0	0	11	1	0	0	1	2	4	3	0	20	0
	0830	,,	1005·4	1005.0	−0.4	31·9	27·0	24·9	31·5	67	−7	3·3	−1·4	10·9	0	3	21	0	0	0	3	1	12	7	0	7	1
	1130	,,	1004·5	1004·1	..	35·0	28·1	25·3	32·2	57	..	2·2	..	17·5	0	10	20	0	0	0	4	8	17	1	0	1	0
	1430	,,	1002·2	1001·8	..	34·7	28·1	25·4	32·4	59	..	2·9	..	20·4	0	16	15	1	0	1	4	8	17	0	0	0	0
	1730	,,	1001·8	1001·4	..	31·3	27·0	25·3	32·0	71	..	5·0	..	15·3	0	3	28	0	0	0	2	9	18	1	1	0	0
	2030	,,	1003·9	1003·5	..	29·7	26·8	25·5	32.8	78	..	4·5	..	8·8	0	1	23	0	1	1	3	3	11	4	1	7	0
	2330	,,	1004·4	1004·0	..	29·3	26·6	25·4	32·4	80	..	4·4	..	5·7	0	1	17	1	0	1	2	3	9	0	2	13	0
Kakinada	0830	8	1005·4	1004·5	−0·8	30·4	27·2	25·9	33·4	77	+6	4·0	−0·4	11·4	0	0	31	0	8	0	12	0	11	0	0	0	0
	1730	,,	1001·2	1000·3	..	33·2	27·9	26·0	33·2	66	..	3·1	..	16·6	0	0	31	0	0	0	28	0	1	0	2	0	0
Nidadavole	0830	12	1005·3	1003·9	..	30·8	26·7	24·9	31·5	71	..	5·6	..	3·6	0	0	23	0	3	7	4	3	3	1	2	8	0
	1730	,,	1000·5	999·1	..	36·0	28·1	24.9	31·5	53	..	4·9	..	5·3	0	1	29	0	2	9	2	5	9	2	1	1	0
Repachintala	0830	106	1004·5	992·8	..	34·5	25·5	20·9	25·3	46	−7	2·3	−1·9	2·8	0	0	30	1	0	1	1	7	4	13	3	1	0
	1730	,,	999·3	988·9	..	41·7	25·6	16·9	19·6	25	..	2·2	..	2·2	0	0	29	6	0	2	3	6	2	8	2	2	0
Cannavaram	0230	24	1002·8	1000·1	..	29·1	27·0	26·1	33·8	84	..	1·8	..	8·5	0	2	23	0	0	9	5	8	2	1	0	6	0
	0530	,,	1003·3	1000·6	..	28·5	26·7	25·8	33·4	86	..	3·3	..	6·3	0	1	24	2	1	11	4	4	1	1	1	6	0
	0830	,,	1005·0	1002·3	−0·5	32·8	28.0	26·5	34·4	73	+7	4·1	0	9·6	0	3	22	1	1	5	2	10	3	1	2	6	0
	1130	,,	1003·9	1001·3	..	37·5	28.2	24·1	30·5	48	..	2·8	..	12·5	0	5	26	6	1	4	0	6	4	4	5	0	1
	1430	,,	1001·0	998·4	..	40·2	27.6	21·7	26·6	38	..	3·0	..	11·2	0	5	25	4	1	7	1	6	2	4	5	1	0
	1730	,,	1000·1	997·5	..	38·4	27·9	23·1	28·9	46	..	3·9	..	17·4	0	12	19	2	0	5	10	12	0	1	1	0	0
	2030	,,	1002·9	1000·3	..	31·8	26.9	24·7	31·3	68	..	2·5	..	12·7	0	3	28	0	0	11	4	15	1	0	0	0	0
	2330	,,	1003·7	1001·1	..	30·0	26.9	25·6	32·8	78	..	2.4	..	9·5	0	4	24	3	0	7	3	12	2	1	0	3	0
Nagarjuna Konda (R)	0830	126																									
	1730	,,																									
Masulipatam	0830	3	1004.9	1004·6	−1.1	32·1	27·6	25·7	33·2	70	−2	4·9	+1·2	4·1	0	0	30	1	1	5	1	12	2	3	1	1	4
	1730	,,	1000·8	1000·5	..	33·4	28·2	26·1	34·0	67	..	4·3	..	5·7	0	0	31	0	0	1	11	5	0	1	0	0	13
Ongole	0830	12	1004·7	1003·4	..	33·9	29.2	27·4	36·5	68	..	3·0	..	3·3	0	0	25	0	6	0	5	1	7	3	3	6	0
	1730	,,	1000·2	998·9	..	36·9	29.6	27·0	35·4	62	..	4·4	..	(a) 6.2	0	1	27	1	3	0	12	0	4	5	3	2	0
Nellore	0530	20	1003·4	1001·2	..	29·9	25.1	2·7	27·9	66	..	5·1	..	4·8	0	0	28	0	0	4	6	2	6	9	1	3	0
	0830	,,	1005·1	1002·9	−0·9	33·7	26.1	2·3	27·6	52	−8	5·0	+1.2	3·9	0	0	28	0	0	0	8	0	5	14	1	3	0

(R) Register not received. (a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd.*)																											
Nellore—*Contd.*	1130	20	1004·4	1002·2	..	38·6	26·2	20·3	23·8	35	..	3·6	..	8·6	0	2	28	0	0	2	5	1	1	18	3	1	0
	1730	,,	1000·8	998·6	..	37·8	27·0	21·8	26·7	43	..	4·3	..	7·2	0	0	30	0	0	3	14	0	5	6	2	1	0
Telangana	2330	,,	1003·9	1001·7	..	31·6	26·5	24·1	30·4	66	..	4·7	..	4·8	0	0	23	0	0	4	13	2	0	4	0	8	0
Ramagundam	0830	156	1003·9	986·7	—0·7	32·7	22·8	16·7	19·7	40	—6	1·3	—1·9	5·7	0	1	24	1	0	1	4	12	4	3	0	6	0
	1730	,,	998·5	981·8	..	42·5	24·8	13·9	16·7	20	..	2·5	..	4·2	0	0	25	5	1	4	3	1	3	6	2	6	0
Nizamabad	0830	381	1004·6	963·3	—0·7	32·8	20·7	12·1	14·5	29	—12	0·7	—1·5	0·7	0	0	7	0	0	0	1	0	0	6	0	24	0
	1730	,,	998·1	958·2	..	41·7	22·8	9·8	12·3	15	..	2·8	..	0·9	0	0	11	0	2	0	0	0	6	0	3	20	0
Hanamkonda	0830	239	1004·1	974·8	—1·2	32·5	23·7	18·7	21·9	47	0	1·2	—1·8	3·7	0	0	31	6	2	0	6	14	0	0	3	0	0
	1730	,,	999·0	971·6	..	41·4	24·6	15·2	17·1	22	—	2·0	..	2·0	0	0	31	8	4	1	4	1	1	9	3	0	0
Hakimpet (Aerodrome)	0530	613	1003·3	936·8	..	27·7	20·0	15·1	17·8	48	..	3·8	..	17·5	0	11	19	5	2	0	2	2	5	4	10	1	0
	0830	,,	1004·2	938·4	..	31·4	21·6	16·2	18·6	41	..	3·3	..	22·4	0	19	11	7	0	0	1	3	3	3	13	1	0
	1130	,,	1002·7	938·0	..	36·6	22·6	14·6	17·1	29	..	2·5	..	22·3	0	17	14	9	4	0	2	2	0	3	11	0	0
	1730	,,	999·3	935·1	..	38·1	21·7	11·7	13·9	21	..	3·7	..	17·6	0	9	21	13	1	1	2	0	2	1	10	1	0
	2330	,,	1002·2	936·6	..	31·3	20·6	14·1	16·4	37	..	2·5	..	13·8	0	3	24	5	0	1	6	2	5	5	3	4	0
Bhadrachalam	0830	111	1004·4	992·1	—1·0	32·9	25·9	22·6	27·6	56	—5	2·0	—2·0	7·5	0	1	30	0	8	1	7	0	8	0	7	0	0
	1730	,,	999·0	987·1	..	39·4	23·9	14·4	16·2	26	..	3·2	..	6·1	0	0	31	1	13	0	5	0	7	0	5	0	0
Hyderabad (Begampet)	0230	545	1002·0	943·1	..	29·2	19·3	12·6	15·2	38	..	2·3	..	6·0	0	1	22	0	0	2	6	0	4	4	7	8	0
	0530	,,	1003·2	944·1	..	27·9	19·1	13·1	15·7	43	..	3·0	..	8·4	0	2	23	0	0	0	3	0	4	6	12	6	0
	0830	,,	1004·7	946·0	—0·3	31·2	20·5	13·8	16·3	37	—14	3·0	0	14·5	0	10	20	3	0	0	3	1	3	4	16	1	0
	1130	,,	1003.0	945·4	..	36·5	21·2	11·4	13·9	24	..	2·6	..	14·0	0	7	24	9	0	0	3	1	2	3	13	0	0
	1730	,,	998·5	941·5	..	38·6	20·1	6·4	9·6	15	..	4·2	..	11·4	0	1	30	10	3	2	0	2	2	2	10	0	0
	2330	,,	1002·6	943·9	..	30·8	20·1	13·5	15·6	36	..	2·6	..	4·8	0	1	16	0	0	0	8	2	2	4	1	14	0
Khammam	0830	112	1004·6	992·3	..	32·9	27·6	25·3	32·6	66	..	3·5	..	4·4	0	0	26	2	0	8	11	4	0	0	1	5	0
	1730	,,	996.2	984·2	..	40·0	27·9	22·3	27·6	38	..	4·4	..	4·8	0	1	21	8	1	8	1	1	0	3	0	9	0
Mahbubnagar	0830	505	1005·3	950·6	..	30·9	22·2	17·3	19·7	46	..	2·7	..	13·4	0	3	28	1	0	0	1	0	7	11	11	0	0
	1730	,,	998·7	945·7	..	38·8	22·7	13·4	15·7	23	..	5·0	..	6·1	0	0	31	6	2	2	1	1	2	9	8	0	0
Rayala Seema																											
Kurnool	0830	281	1006·1	975·1	—0·7	30·3	23·7	20·7	24·0	50	+1	3·0	—0·1	23·5	0	21	10	0	0	0	5	0	26	0	0	0	0
	1730	,,	999·5	969·7	..	40·1	23·8	13·7	16·1	22	..	3·7	..	8·5	0	1	30	0	1	0	5	0	23	0	1	0	1
Nandyal (R)	0830	212																									
(R)	1730	,,																									
Anantapur	0530	350	1005·2	996·4	..	26·9	23·2	21·3	25·3	72	..	4·6	..	16·7	0	10	19	1	0	0	0	0	10	17	1	2	0
	0830	,,	1006·9	968·4	+0·6	29·3	24·3	21·8	26·3	64	+3	2·9	—0·7	18·8	0	12	19	0	0	0	0	1	3	24	3	0	0
	1130	,,	1005·2	967·5	..	35·0	24·5	18·9	22·1	39	..	1·8	..	16·6	0	8	23	1	0	0	0	0	2	17	11	0	0
	1430	,,	998·8	964·2	..	38·7	24·3	16·1	18·5	27	..	2·9	..	11·7	0	5	23	4	1	0	0	0	3	8	12	3	0
	1730	,,	998·2	962·7	..	38·7	23·6	14·2	16·7	25	..	3·8	..	11·7	0	3	23	2	0	0	1	0	2	9	12	5	0
	2030	,,	1001·9	964·2	..	34·6	22·6	15·2	17·6	33	..	3·1	..	10·3	0	5	19	1	0	1	0	1	6	15	0	7	0
	2330	,,	1003·7	965·6	..	31·8	22·9	17·8	20·6	45	..	3·0	..	18·6	0	14	16	0	0	0	1	1	16	12	0	1	0
Cudappah	0830	130	1006·7	992·3	—0·4	32·9	26·1	23·0	28·1	57	+3	2·9	—0·3	4·3	0	0	24	0	0	0	0	0	0	18	6	7	0
	1730	,,	1000·2	986·3	..	40·9	27·3	21·1	25·0	33	..	3·1	..	1·9	0	0	12	0	2	1	0	0	0	3	6	19	0
Arogyavaram	0830	701	1006·1	930·6	..	28·6	21·4	17·6	19·6	52	..	3·3	..	9·3	0	0	31	4	0	0	0	4	2	14	7	0	0
	1730	,,	1000·1	926·7	..	35·6	21·4	12·3	13·9	26	..	4·0	..	11·0	0	0	30	14	3	1	0	2	0	0	10	1	0
Madras State																											
Madras	0830	6	1005·8	1005·1	..	32·4	25·8	22·7	27·7	58	..	4·2	..	11·3	0	3	28	0	0	0	1	4	16	10	0	0	0
Madras (Minambakkam)	0230	16	1003·7	1002·0	..	30·0	26·0	24·2	30·4	72	..	2·5	..	10·5	0	3	25	0	0	0	0	23	3	2	0	3	0
	0530	,,	1004·0	1002·3	..	29·4	25·0	23·0	28·1	69	..	4·5	..	8·5	0	2	24	0	0	0	0	15	6	4	1	5	0
	0830	,,	1005·8	1004·1	—0·8	32·5	25·8	22·7	27·6	57	—3	4·7	+1·3	14·1	0	5	26	0	0	0	2	8	12	8	1	0	0
	1130	,,	1004·9	1003·2	..	37·4	25·4	19·4	22·5	36	..	4·0	..	13·4	0	7	24	0	0	0	1	4	6	15	5	0	0
	1430	,,	1002·3	1000·6	..	38·3	27·2	22·1	26·9	41	..	4·0	..	17·1	0	10	21	0	0	5	11	5	5	4	1	0	0
	1730	,,	1001·9	1000·2	..	34·8	26·8	23·3	28·6	52	..	4·3	..	18·3	0	10	21	0	0	3	17	9	2	0	0	0	0
	2030	,,	1004·2	1002·5	..	31·7	27·0	25·0	31·9	69	..	2·9	..	14·5	0	5	25	0	0	1	9	17	3	0	0	1	0
	2330	,,	1005·0	1003·3	..	30·7	26·6	24·8	31·5	72	..	2·3	..	12·3	0	4	25	0	0	0	6	16	6	1	0	2	0
Vellore	0530	214	1005·0	981·1	..	27·9	23·5	21·3	25·3	68	..	4·4	..	2·5	0	0	16	0	0	0	2	1	4	2	7	15	0
	0830	,,	1006·3	982·1	+0·1	30·4	24·3	21·3	25·3	59	—4	4.7	+2.1	8.8	0	0	29	2	1	0	0	1	3	13	9	2	0
	1130	,,	1005·3	982·4	..	35·8	25·2	20·0	23·4	40	..	4.1	..	8.4	0	11	18	0	0	0	0	0	7	15	7	2	0
	1730	,,	1001·0	977·9	..	36·8	24·2	17·3	19·9	34	..	5.7	..	6.5	0	2	27	3	5	2	2	2	4	4	7	2	0
	2330	,,	1005·2	981·6	..	30·6	23·9	20·4	24·3	56	..	3.3	..	2.8	0	0	18	0	0	1	3	4	2	1	2	16	0

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State —(*Contd.*)																											
Tambaram (Aerodrome)	0830	29	1005.5	1002.4	..	32.8	27.0	24.5	30.9	62	..	4.8	..	18.1	0	10	21	0	0	0	1	3	17	8	2	0	0
	1730	,,	1002.0	998.8	..	35.5	27.5	24.3	30.0	53	..	4.5	..	25.3	0	25	6	0	0	3	23	3	2	0	0	0	0
Tiruppattur	0830	390	1007.5	964.5	..	27.8	24.6	23.1	28.3	76	..	6.3	..	3.8	0	0	31	23	1	0	0	0	0	6	1	0	0
	1730	,,	1001.7	959.4	..	33.3	25.1	21.1	25.2	51	..	7.3	..	8.0	0	0	31	21	7	1	0	0	0	2	0	0	0
Mettur Dam R.S.	0830	..	..	..	..	30.4	26.9	25.2	32.6	75	..	2.9	..	3.9	0	0	28	0	14	0	7	0	0	0	7	3	0
	1730	..	..	..	..	32.5	28.9	27.5	36.9	75	..	4.9	..	5.6	0	0	30	0	7	0	8	0	7	0	8	1	0
Cuddalore	0530	12	1004.4	1003.1	..	27.7	25.4	24.1	30.4	78	..	5.9	..	5.3	0	0	30	0	2	0	5	7	15	1	0	1	0
	0830	,,	1000.3	1005.0	−0.9	31.3	25.7	23.1	28.4	62	−6	5.6	+2.3	6.9	0	0	29	1	0	1	3	4	20	0	0	2	0
	1130	,,	1005.5	1004.2	..	36.1	26.4	21.9	26.3	45	..	5.0	..	8.7	0	0	31	0	0	0	12	0	19	0	0	0	0
	1730	,,	1002.2	1000.9	..	32.3	28.0	26.3	34.2	72	..	4.5	..	18.6	0	16	15	0	0	1	26	2	2	0	0	0	0
	0230	,,	1005.5	1004.2	..	30.1	26.4	24.9	31.5	74	..	4.6	..	8.9	0	1	28	0	2	0	14	4	9	0	0	2	0
Kallakkurichchi	0830	127	1006.0	991.9	..	31.2	26.6	24.6	31.1	69	..	3.5	..	5.9	0	1	24	0	4	3	6	0	9	0	3	6	0
	1730	,,	1001.3	987.5	..	37.0	27.6	23.4	29.1	48	..	4.7	..	12.5	0	4	27	0	2	2	12	2	10	0	3	0	0
Salem	0530	278	1005.7	974.7	..	25.9	23.1	21.7	25.9	78	..	6.0	..	1.5	0	0	15	0	1	0	0	1	5	8	0	16	0
	0830	,,	1007.3	976.5	−0.5	28.9	24.1	21.8	26.1	66	−5	5.7	+2.3	2.8	0	0	19	0	0	0	1	0	5	10	3	12	0
	1130	,,	1005.9	975.7	..	33.7	24.7	20.1	23.7	45	..	5.3	..	5.5	0	0	27	0	1	1	0	0	5	18	2	4	0
	1730	,,	1001.4	971.4	..	35.0	24.2	18.3	21.3	40	..	6.1	..	5.3	0	0	25	0	2	3	0	4	9	6	1	6	0
	2330	,,	1006.6	975.7	..	27.6	23.2	21.0	24.9	68	..	6.1	..	3.8	0	0	17	0	0	1	3	0	7	6	0	14	0
Coimbatore (Pilamedu)	0530	399	1006.6	962.1	..	24.4	23.8	23.5	28.9	95	..	4.3	..	14.1	0	3	27	1	0	0	0	11	18	0	0	1	0
	0830	,,	1008.1	963.9	..	26.9	24.7	23.7	29.3	83	..	3.7	..	14.3	0	3	28	0	0	0	0	13	18	0	0	0	0
	1130	,,	1006.6	963.3	..	32.0	25.7	22.8	27.9	58	..	3.6	..	13.2	0	7	20	0	0	0	3	13	5	1	0	4	5
	1730	,,	1003.3	959.9	..	31.0	25.2	22.5	27.3	62	..	4.6	..	24.0	0	21	10	0	1	0	0	12	17	0	0	0	1
	2330	,,	1007.6	963.3	..	25.7	24.2	23.5	28.9	88	..	4.7	..	16.9	0	9	21	0	0	0	0	12	17	1	0	1	0
Coimbatore	0830	409	1007.8	962.7	−0.2	26.9	23.8	22.3	26.9	76	−2	4.5	+1.1	17.5	0	11	20	0	0	0	3	14	13	1	0	0	0
Nagapattinam	0830	9	1007.1	1006.0	−0.5	31.5	25.5	22.8	27.7	61	−8	5.0	+1.2	13.6	0	5	26	1	0	0	1	0	20	9	0	0	0
	1730	,,	1003.0	1002.0	..	32.8	27.5	25.3	32.2	65	..	4.6	..	20.1	0	17	14	0	0	2	7	13	9	0	0	0	0
Tiruchchirappalli	0230	88	1004.6	994.8	..	28.5	23.6	21.1	25.0	65	..	4.6	..	18.6	0	18	11	1	0	0	1	1	0	24	2	2	0
	0530	,,	1005.8	994.9	..	27.7	23.8	21.8	26.3	71	..	4.7	..	18.5	0	15	14	0	0	0	0	1	2	25	1	2	0
	0830	,,	1006.6	996.7	−1.3	30.5	24.7	21.8	26.3	60	−5	4.2	+0.8	26.7	0	24	7	0	0	0	0	0	5	25	1	0	0
	1130	,,	1005.8	996.1	..	35.3	25.7	21.1	25.2	45	..	3.9	..	27.7	0	24	7	0	0	0	0	0	4	26	1	0	0
	1430	,,	1002.6	993.1	..	38.3	25.8	19.5	22.9	35	..	4.3	..	22.0	0	20	10	1	0	0	0	0	8	16	5	1	0
	1730	,,	1001.7	992.1	..	37.8	24.9	18.2	20.9	32	..	4.8	..	14.8	0	10	20	2	1	1	5	2	7	6	6	1	0
	2030	,,	1004.8	995.1	..	32.2	24.8	21.2	25.2	53	..	5.1	..	19.0	0	14	16	1	0	1	3	11	5	8	1	1	0
	2330	,,	1006.2	996.4	..	29.8	24.1	21.3	25.3	61	..	4.6	..	17.0	0	10	21	1	1	1	0	4	10	13	1	0	0
Vedaranniyam	0830	4	1007.1	1006.5	..	31.5	27.3	25.6	32.8	71	..	2.8	..	9.7	0	1	30	0	1	0	4	4	22	0	0	0	0
	1730	,,	1003.6	1003.1	..	31.5	27.6	26.1	33.8	73	..	2.4	..	14.1	0	5	26	0	0	0	7	9	15	0	0	0	0
Atirampattinam	0830	6	1006.9	1006.2	..	31.2	25.9	23.4	28.9	64	..	4.9	..	7.5	0	0	30	3	1	0	0	8	8	2	8	1	0
	1730	,,	1003.1	1002.4	..	31.9	27.6	25.9	33.4	71	..	4.5	..	27.6	0	27	4	0	0	1	1	25	4	0	0	0	0
Madurai	0830	133	1006.7	992.5	−0.5	30.3	24.5	21.6	25.9	60	−3	3.2	−1.1	6.0	0	0	31	6	0	1	0	0	3	4	16	0	1
Madurai Aerodrome	0530	131	1005.6	990.8	..	27.5	24.0	22.3	26.9	74	..	4.5	..	7.1	0	0	26	11	1	1	0	0	1	4	8	5	0
	0830	,,	1007.2	992.6	..	30.9	25.1	22.4	27.1	62	..	3.7	..	10.7	0	1	28	11	2	1	1	0	2	4	8	2	0
	1130	,,	1006.4	992.0	..	35.2	26.1	21.7	26.3	47	..	3.7	..	10.5	0	1	29	8	1	0	0	2	5	4	9	1	1
	1730	,,	1003.0	988.7	..	34.5	26.0	21.9	26.6	51	..	6.0	..	16.2	0	11	18	1	1	0	3	8	6	7	3	2	0
Tondi	0830	5	1007.3	1006.7	..	30.6	26.1	24.1	30.0	69	..	3.9	..	7.5	0	2	29	4	1	1	3	11	9	1	1	0	0
	1730	,,	1003.7	1003.2	..	31.3	28.0	26.7	35.0	77	..	4.1	..	33.1	0	29	2	0	0	0	13	17	1	0	0	0	0
Pamban	0830	11	1007.3	1006.0	−0.6	30.1	27.2	26.0	33.8	79	+1	2.5	−0.2	8.1	0	4	23	0	0	3	1	1	22	0	0	4	0
	1730	,,	1004.0	1002.7	..	30.7	27.5	26.3	34.0	77	..	2.8	..	11.9	0	5	26	0	0	0	3	9	18	1	0	0	0
Tuticorin	0830	4	1007.6	1007.2	+0.1	31.7	25.0	21.7	26.3	55	−11	3.1	−0.8	8.7	0	3	27	3	2	0	1	3	6	14	1	1	0
	1730	,,	1004.1	1003.6	..	33.3	26.9	24.1	30.2	59	..	4.9	..	17.2	0	12	18	1	0	0	4	13	6	6	0	1	0
Palayankottai	0830	51	1007.4	1001.8	+0.1	32.0	24.5	20.8	24.6	52	−8	2.8	−1.0	1.3	0	0	6	0	0	0	0	0	0	6	0	25	0
	1730	,,	1003.5	997.9	..	35.2	25.3	20.4	24.1	43	..	(a) 5.1	..	(a) 9.7	0	4	23	1	0	1	0	2	1	16	6	3	0
Kanniyakumari	0830	37	1007.9	1003.8	..	29.3	25.2	23.4	28.6	70	..	4.2	..	21.0	0	21	10	0	0	0	0	0	1	22	8	0	0
	1730	,,	1005.1	1001.0	..	30.0	26.1	24.3	30.7	72	..	4.6	..	20.1	0	18	13	0	0	0	0	0	3	24	4	0	0
Coastal Mysore																											
Karwar	0830	4	1009.2	1008.7	+1.3	29.3	26.5	25.2	32.2	79	−1	4.2	−0.8	11.0	0	6	25	0	3	2	1	0	0	3	20	0	2
	1730	,,	1006.1	1005.6	..	31.0	27.4	25.9	33.6	75	..	4.3	..	20.6	0	18	13	0	0	0	0	0	3	28	0	0	

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore—(*Contd.*)																											
Honavar	0830	26	1009·5	1006·6	+0·6	21·9	25·3	23·7	29·1	73	—4	6·7	+1·3	6·8	0	0	27	0	1	10	0	0	0	11	5	4	0
	1730	,,	1006·1	1003·2	..	31·3	26·1	23·8	29·7	65	..	5·3	..	11·9	0	1	30	0	0	0	0	0	0	21	10	0	0
Mangalore (Bajpe)	0230	102	1007·5	996·0	..	27·5	24·8	23·6	28·9	80	..	4·9	..	3·7	0	1	11	0	0	3	0	0	1	3	5	19	0
	0530	,,	1007·6	996·2	..	26·7	24·5	23·5	28·9	83	..	5·6	..	2·5	0	0	15	1	2	9	0	0	0	1	2	16	0
	0830	,,	1009·3	997·9	..	29·6	25·4	23·6	28.9	70	..	5·1	..	4·6	0	0	27	3	2	10	0	0	0	2	8	4	2
	1130	,,	1008·9	997·6	..	32·7	25·6	22·4	26·9	55	..	5·1	..	10·3	0	0	31	1	0	0	0	0	1	13	15	0	1
	1430	,,	1006·6	995·4	..	33·3	25·8	22·4	26·9	53	..	4·2	..	17·9	0	5	26	0	0	0	0	0	0	17	14	0	0
	1730	,,	1005·9	994·5	..	31·2	25·5	23·0	28·4	62	..	4·1	..	15·3	0	5	26	0	0	0	0	0	0	15	16	0	0
	2030	,,	1007·9	996·6	..	29·0	25·3	23·5	29·3	72	..	4·2	..	9·3	0	2	29	0	0	0	0	0	0	10	21	0	0
	2330	,,	1008·6	997·2	..	28·3	25·1	23·6	29·3	76	..	4·6	..	5·5	0	0	25	4	0	0	0	0	0	6	15	6	0
Mangalore	0830	22	1009·2	1006·8	—0·2	30·1	25·7	23·7	29·5	69	—5	4·7	—0·2	3·3	0	0	31	3	4	9	2	1	0	4	7	0	1
	1730	,,	1006·2	1003·8	..	31·6	26·1	23·6	29·3	63	..	3·3	..	9·1	0	0	31	0	0	0	0	0	0	9	16	0	6
Interior Mysore North																											
Bidar	0830	664	1004·8	933·5	..	30·7	20·6	14·3	16·9	39	—8	1·2	—1·2	17·9	0	12	19	3	2	0	1	0	1	6	18	0	0
	1730	,,	998·3	928·9	..	38·3	21·1	9·3	12·3	19	..	3·7	..	10·7	0	2	29	4	10	1	2	0	4	3	7	0	0
Gulbarga	0830	458	1006·1	956·2	—0·2	30·3	21·6	16·9	19·5	46	—5	2·3	+0·2	13·3	0	3	27	3	1	1	0	0	0	21	4	1	0
	1730	,,	998·7	950·7	..	39·9	21·1	8·5	11·2	16	..	4·0	..	17·6	0	3	27	7	1	3	1	0	3	8	7	1	0
Bijapur	0830	594	1007·3	942·3	—0·2	26·5	21·7	19·3	22·4	65	+6	1·5	—0·9	2·8	0	0	24	2	0	0	0	0	2	17	3	7	0
	1730	,,	999·1	937·0	..	38·8	22·1	12·2	14.3	21	..	1·9	..	1·5	0	0	18	4	1	0	0	0	1	3	9	13	0
Raichor	0830	400	1006·6	962·8	—0·2	30·2	24·8	22·3	26·9	63	+7	3·9	+1·6	11·3	0	6	25	0	0	0	1	0	9	6	10	0	5
	1730	,,	999·3	957·2	..	39·7	26·8	20·8	24·7	35	..	4·5	..	7 1	0	0	28	0	5	0	4	0	5	1	13	3	0
Belgaum	0830	753	1008·2	926·2	—0·3	24·4	21·4	19·9	23·2	76	0	2·9	—0·3	5·1	0	0	29	0	0	0	0	0	2	26	1	2	0
	1730	,,	1003·3	923·0	..	29·6	22·8	19·5	22·8	55	..	2·6	..	7·7	0	0	31	0	0	0	0	0	2	21	6	0	2
Belgaum (Samra)	0530	747	1007·4	925·1	..	21·6	20·2	19·5	22·7	88	..	3·6	..	10·5	0	3	27	0	0	0	0	0	7	21	2	1	0
	0830	,,	1008·5	926·9	..	24·4	21·1	19·4	22·7	74	..	4·3	..	14·6	0	8	23	0		0	0	0	5	22	4	0	0
	1130	,,	1006·4	926·6	..	30·6	21·3	16·1	18·5	43	..	3·1	..	13·9	0	6	25	2	0	1	1	0	1	14	12	0	0
	1430	,,	1003·0	924·2	..	33·9	21·9	15·2	17·4	34	..	3·9	..	16·1	0	11	20	2	0	0	0	0	3	19	7	0	0
	1730	,,	1002·8	923·4	..	31·0	22·7	18·6	21·4	48	..	3·6	..	21·0	0	23	8	0	0	0	0	0	5	20	6	0	0
	2030	,,	1006·1	924·9	..	25·0	21·8	20·1	23·5	74	..	2·3	..	18·6	0	17	14	0	0	0	0	0	9	18	4	0	0
Gadag	0530	650	1007·2	935·5	..	22·9	21·7	21·1	23·5	89	..	3·1	..	9·4	0	0	26	0	0	0	0	0	4	22	0	5	0
	0830	,,	1008·3	937·2	+0·4	25·4	22·6	21·2	25·3	78	+4	3·0	0	10·3	0	0	31	0	0	0	0	0	8	23	0	0	0
	1130	,,	1006·3	936·9	..	32·6	23·7	19·4	22·7	47	..	1·1	..	8 3	0	0	30	0	0	0	0	0	2	24	4	1	0
	1430	,,	1002·3	933·9	..	36·7	24·0	17·5	20·5	34	..	2·9	.	7·4	0	0	30	1	1	0	1	1	1	17	8	1	0
	1730	,,	1000·8	932·5	..	35·5	23·1	16·4	19·1	35	..	4·2	..	7 0	0	0	31	1	2	0	0	0	4	11	13	0	0
	2030	,,	1004·8	934·6	..	28·7	23·5	21·2	25·2	65	..	2·2	..	12·5	0	4	27	0	0	0	0	2	1	26	2	0	0
	2330	,,	1006·9	935·9	..	25·2	23·0	21·9	26·4	82	..	1·6	..	11·5	0	0	31	0	0	0	0	0	5	26	0	0	0
Interior Mysore South																											
Bellary	0830	449	1006·9	957·7	—0·3	28·9	24·6	22·3	27·3	68	+13	1·7	—1·7	7·1	0	1	26	0	0	0	6	0	2	0	19	4	0
	1730	,,	999·9	952·4	..	38·3	27·1	21·9	26·6	40	..	3·5	..	7·6	0	0	29	0	0	0	8	0	3	0	18	2	0
Chitraurga	0830	773	1008·3	928·3	+0·1	24·7	21·7	20·2	23·8	76	+5	4·1	—0·1	7·1	0	0	31	0	0	0	0	0	11	19	1	0	0
	1730	,,	1000·7	923·9	..	35·1	21·3	12·9	15·2	27	..	3·1	..	3·8	0	0	27	1	0	1	0	0	5	16	4	4	0
Shimoga	0830	571	1008·4	945·7	+0·6	25·8	22·4	20·8	24·6	73	—5	3·1	—2·0	4·6	0	0	28	0	0	0	0	1	15	9	3	3	0
	1730	,,	1002·2	941·5	..	33·4	23·6	18·9	22 0	43	..	0·7	..	7·1	0	0	30	0	0	0	0	0	12	18	0	1	0
Agumbe	0830	..	..	..	..	25·0	23·0	22·2	26·1	85	..	..	..	4·8	0	0	31	2	1	0	0	1	7	10	10	0	0
Balehonnor	0830	..	..	..	..	23.6	21.2	20.0	23.4	80	—6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1503.7	905.1	..	22.7	20.6	19.5	22.7	82	+7	3.4	—0·4	3.9	0	0	31	0	0	0	0	0	0	31	0	0	0
	1730	..	1481·9	901·7	..	28.9	22.6	19.5	22.7	58	..	3.3	..	4.5	0	0	31	0	0	1	0	0	7	21	2	0	0
Bangalore	0230	921	1477·2	906·4	..	23.1	20.8	19.6	22.9	81	..	3.2	..	7.6	0	3	21	0	0	0	0	2	12	9	1	7	0
	0830	,,	1500.7	908.7	+0.1	24.1	21.2	19.7	22.8	76	+3	4.0	+0.1	8.7	0	0	28	0	0	0	0	0	7	16	5	3	0
	1130	,,	1507·3	908.2	..	29.5	22.2	18.6	21.3	53	..	3.3	..	8.2	0	0	30	1	0	0	0	0	6	15	8	1	0
	1430	,,	1489.6	905.8	..	33.0	22.4	16.8	19 3	39	..	3.9	..	7.0	0	0	27	2	0	0	0	0	2	11	12	4	0
	1730	,,	1478.1	904.9	..	31.7	21.5	15.6	17.4	40	..	5.1	..	6.2	0	1	27	1	0	1	1	1	1	11	12	3	0
	2030	,,	1486.6	906.6	..	27.2	20.9	17.4	20.1	57	..	3.7	..	16.6	0	1	18	2	0	3	2	1	2	7	2	12	0
	0530	897	1478.5	909.3	..	21.9	20.8	20.2	23.8	90	..	4.6	..	9·4	0	1	22	0	0	1	0	0	4	18	0	8	0
Bangalore Aerodrome	0830	,,	1500.1	911.2	..	24.1	21.6	20.4	23.8	80	..	4.2	..	12.5	0	1	27	0	0	0	0	0	1	26	1	3	0
	1130	,,	1504.8	910.5	..	29.1	22.3	18.9	22.0	54	..	3.3	..	11.0	0	0	30	1	0	0	0	0	1	23	5	1	0
	1430	,,	1486.0	907.9	..	32.5	22.5	17.4	20.0	41	..	4.2	..	9.6	0	0	29	3	0	0	1	0	0	17	8	2	0
	1730	,,	1475.0	907.1	..	31.2	21.8	16 7	19.3	44	..	5.2	..	8.8	0	1	29	6	0	1	1	1	3	10	8	1	0
	2030	,,	1484.3	908.9	..	27.2	21·5	18·5	21·3	61	..	4·1		6·8	0	1	22	0	1	2	3	1	1	11	4	8	0

Sub-Division and station	Hour of observation I.S.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in e.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variab
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
INTERIOR MYSORE SOUTH—Contd.																											
Bangalore Aerodrome—*Contd.*	2330	897	1389.7	910.0	..	24.8	21.6	28.0	23.5	77	..	3.7	..	11.3	0	5	20	0	0	0	1	0	9	15	0	6	0
Mysore	0830	767	1009.3	925.5	+0.4	24.0	20.9	19.3	22.4	75	0	2.7	−1.9	6.0	0	0	30	1	0	0	2	4	6	7	10	1	0
	1730	,,	1002.9	921.7	.	31.9	22.3	17.2	19.9	42	..	4.7	..	7.2	0	0	30	3	1	0	2	6	6	7	5	1	0
Kerala	0530	5	1007.6	1007.2	..	27.3	25.1	24.1	30.0	83	..	4.2	..	7.6	0	4	21	3	15	3	0	0	0	0	4	6	0
Calicut	0830	,,	1009.4	1008.8	+0.1	29.5	25.9	24.3	30.4	74	−6	4.1	−0.9	9.3	0	1	28	4	5	3	0	0	0	1	16	2	0
	1130	,,	1009.4	1008.8	..	32.0	26.9	24.8	31.1	66	..	3.2	..	16.6	0	9	22	0	0	0	0	0	0	9	22	0	0
	1730	,,	1006.5	1005.9	.	31.2	27.1	25.5	32.6	72	..	4.5	..	20.0	0	17	14	0	0	0	0	0	0	20	11	0	0
	2330	,,	1009.2	1008.6	..	29.0	26.3	25.1	31.9	79	..	4.2	..	16.9	0	16	13	1	0	2	0	0	0	4	22	2	0
Palghat	0830	97	1008.6	997.6	..	28.6	25.2	24.0	29.8	76	..	3.9	..	11.7	0	0	31	0	0	0	0	0	1	28	2	0	0
	1730	,,	1005.1	994.5	..	31.6	25.4	22.5	27.4	59	..	4.4	..	15.2	0	1	30	0	0	1	0	0	1	27	2	0	0
Fort Cochin	0830	3	1009.0	1008.7	−0.6	28.8	26.6	25.6	33.0	83	+3	6.5	+1.5	6.3	0	0	28	2	11	9	3	0	0	1	2	3	0
	1730	,,	1006.4	1006.1	..	30.0	27.6	26.5	35.0	82	..	6.6	..	12.3	0	5	25	2	0	1	0	0	1	9	17	1	0
Cochin (Naval Air station)	0230	3	1007.9	1007.6	..	27.1	25.7	25.0	31.9	89	..	6.0	..	2.8	0	0	7	2	1	0	0	1	0	1	2	24	0
Ramagarh	0530	,,	1007.8	1007.5	.	26.3	25.3	24.9	31.5	91	..	6.0	..	1.7	0	0	5	0	1	2	0	0	0	0	2	26	0
	0830	,,	1009.3	1009.0	..	29.1	26.7	25.7	33.0	82	..	5.1	..	2.6	0	0	10	1	2	1	0	0	0	1	4	21	1
	1130	,,	1009.3	1009.1		31.5	27.4	25.7	33.0	72	..	5.5	..	15.6	0	10	19	2	0	0	0	0	3	9	15	2	0
	1730	,,	1006.9	1006.6	.	30.5	27.0	25.5	32.6	75	..	6.0	..	14.4	0	1	25	0	0	1	0	0	2	8	18	2	0
	2330	,,	1009.3	1009.0	.	28.1	26.3	26.4	32.6	85	..	6.2	..	4.9	0	0	13	0	1	1	0	0	0	2	9	18	0
Alleppey	0830	4	1009.1	1008.7	+0.2	28.7	26.5	25.6	33.0	84	+2	5.8	−0.6	7.0	0	0	28	3	8	5	3	0	1	2	6	3	0
	1730	,,	1006.9	1006.5	..	31.3	27.0	25.3	32.4	71	..	5.5	..	19.8	0	18	13	1	0	0	0	0	0	4	26	0	0
Punalur	0830	34	1009.3	1005.4	..	27.3	25.6	24.7	31.5	86	..	5.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1007.5	1003.7	..	30.9	26.5	24.5	30.9	69	..	7.2	..	4.3	0	0	29	2	0	0	0	2	9	10	6	2	0
Trivandrum	0230	64	1007.5	1000.2	..	26.6	24.9	24.1	35.0	86	..	4.2	..	4.9	0	0	23	4	7	0	0	0	0	1	11	8	0
	0530	,,	1007.5	1000.2	..	26.1	24.8	24.2	30.2	89	..	4.5	..	6.3	0	0	27	13	3	0	0	0	0	1	10	4	0
	0830	,,	1009.2	1002.0	−0.1	28.3	25.6	24.4	30.7	80	−1	4.5	−0.9	7.6	0	1	29	8	3	0	0	0	0	0	19	1	0
	1130	,,	1008.8	1001.4	..	31.4	25.9	23.5	28.9	63	..	5.5	..	14.1	0	2	29	4	0	0	0	0	1	9	17	0	0
	1430	,,	1006.6	999.5	..	31.7	26.2	23.8	29.4	63	..	5.0	..	15.2	0	9	22	1	0	0	0	0	1	14	15	0	0
	1730	,,	1006.3	999.1	..	30.5	25.9	24.0	29.8	69	.	5.1	..	13.7	0	5	26	3	0	0	0	0	0	11	17	0	0
	2030	,,	1008.3	1001.3	..	27.9	25.3	24.1	30.0	80	..	4.0	..	7.4	0	0	29	3	2	0	0	0	0	4	20	2	0
	2330	,,	1009.2	1001.9	..	27.1	25.2	24.1	30.5	85	..	4.0	..	6.9	0	0	30	11	1	0	0	0	0	1	17	1	0
Trivandrum*	0830	8	1009.5	1008.6	..	29.2	25.8	24.5	30.4	85	..	4.4	..	19.4	0	14	17	25	1	0	0	0	0	2	3	0	0
Amini*	0530	4	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	.	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	0530	1	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	1430	,,	.	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	.	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
	2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Dalhousi	0830	1959	1411.0	797.7	+0.2	17.3	10.2	3.5	7.9	43	−16	1.2	−0.5	3.0	0	0	26	2	13	3	3	0	2	1	0	5	2
	1730	,,	1404.4	797.2	..	18.5	12.0	5.7	9.6	46	..	3.9	..	4.0	0	0	24	0	7	0	1	0	1	1	2	7	12
Dharamsala	0830	1121	1510.2	880.1	+1.0	24.7	15.0	6.3	10.1	34	−3	1.9	−0.3	1.7	0	0	7	0	25	0	2	0	0	0	0	4	0
	1730	,,	1500.2	878.5	..	26.2	15.2	6.4	9.3	27	..	3.5	..	2.4	0	0	30	0	0	0	0	0	0	27	0	3	0
Simla	0830	2202	1462.0	780.3	−0.2	17.6	9.7	1.7	7.2	37	+2	2.4	+0.3	1.5	0	0	23	4	3	0	6	5	3	0	1	8	1
	1730	,,	1455.2	779.9	..	18.3	13.6	10.2	12.7	61	..	4.8	..	1.7	0	0	27	0	6	0	0	0	21	0	0	4	0
Lokod	0830	,,	..	..	..	.	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received

*Data given as addenda in December 1964 issue

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind Speed (Km. p.h.): 62 or more	Wind Speed (Km. p.h.): 20 to 61	Wind Speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
HILL STATIONS. excluding Kashmir (*contd.*)																											
Badrinath (R)	0830																										
Joshimath (R)	0830																										
(R)	1730																										
Mussoorie	0830	2042	..	..	..	18·0	10·5	3·3	7·7	42	−3	2·3	+0·1	2·1	0	0	20	7	3	0	1	3	2	0	4	11	0
	1730	,,	..	..	..	19·4	11·2	3·6	7·9	41	..	4·1	..	3·3	0	0	20	7	1	0	3	7	2	0	5	5	0
Mukteswar (Kumaun)	0830	2311	3126·9	771·4	−0·4	15·7	8·3	0·6	6·4	36	−3	2·5	+0·5	8·6	0	0	27	0	4	1	0	1	1	9	3	1	0
	1730	..	3115·9	769·7	..	18·1	11·5	5·6	9·1	43	..	2·5	..	18·0	0	10	21	0	2	2	0	1	1	13	9	0	0
Nainital	0830	1953	1461·7	803·0	+0·4	18·7	11·3	4·5	8·4	39	+1	2·6	−0·3	6·2	0	0	22	4	2	7	5	0	0	2	2	9	0
	1730	..	1433·0	800·7	..	19·6	12·2	5·0	8·7	36	..	2·1	..	8·3	0	2	27	7	1	4	4	2	2	8	1	2	0
Kalimpong	0830	1209	1464·9	876·1	−0·7	20·8	18·2	16·9	19·3	78	−1	..	..	7·0	0	0	31	0	0	0	2	0	0	0	29	0	0
	1730	,,	1462·2	875·7	.	21·3	19·2	18·1	20·8	82	..	..	..	7·4	0	1	30	0	9	0	29	0	0	0	2	0	0
Darjeeling	0830	2128	1407·4	790·0	+2·5	15·9	13·6	12·1	14·1	80	0	5·5	0·1	1·3	0	0	13	11	1	0	0	0	1	6	0	18	0
	1730	,,	1467·2	787·2	..	15·6	13·9	12·8	14·3	85	..	6·3	..	1·5	0	0	23	3	1	0	0	0	5	12	1	3	1
Kohima	0830	1406	1541·0	863·5	..	20·3	17·0	16·5	18·8	81	..	5·0	..	2·2	0	0	31	0	0	0	5	0	0	0	26	0	0
	1630	,,	1510·0	860·3	..	21·5	19·2	17·9	20·5	80	..	5·9	..	2·2	0	0	31	1	0	0	3	0	2	0	25	0	0
Shillong	0830	1500	1484·7	848·7	+0·9	20·5	17·4	15·3	17·4	73	+5	1·3	−0·7	3·0	0	2	3	0	0	1	0	1	1	2	0	26	0
	1730	,,	1465·9	846·7	..	19·9	18·3	17·4	19·9	84	..	7·0	..	1·0	0	0	5	0	0	0	0	1	4	0	0	26	0
Cherrapudjee (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1496·9	879·9	+0·7	25·4	16·5	9·6	12·0	41	+5	0·2	−0·6	2·0	0	0	25	0	0	0	1	0	3	11	5	6	0
	1730	,,	1470·4	877·0	..	30·4	17·9	8·3	11·0	27	..	0·3	..	1·0	0	0	26	0	0	0	0	1	12	11	2	5	0
Aijal	0830	..	..	..	..	22·0	19·8	18·6	21·4	83	..	5·8	..	2·0	0	0	31	5	1	11	3	3	5	5	0	0	0
	1730	..	..	..	..	22·0	20·1	19·1	22·1	84	..	5·1	..	2·2	0	0	31	1	2	6	0	4	1	12	5	0	0
Pachmarhi	0830	1075	1497·5	891·7	+0·2	28·4	17·1	8·0	11·2	31	−4	0·9	−1·1	4·5	0	0	30	4	3	2	1	0	1	2	17	1	0
	1730	,,	1469·4	888·2	..	33·7	17·1	1·9	7·4	15	..	2·2	.	4·7	0	0	31	1	0	0	1	0	0	11	18	0	0
Mahabaleshwar	0830	1382	1499·3	861·8	−0·1	21.5	16.5	11.3	15.1	62	+9	2·1	−0·8	4·5	0	0	31	0	13	0	0	0	3	0	15	0	0
	1730	,,	1480.4	859·3	..	24.9	20·5	18.2	20.9	68	..	2·8	..	10·5	0	0	31	0	11	0	0	0	1	0	19	0	0
Mercara	0830	1152	1501·9	885·3	+0·4	21.1	19·4	18 6	21.3	85	+1	3·9	−1·2	12·3	0	2	29	3	0	0	0	0	0	23	5	0	0
	1730	,,	1485·0	882·9	..	26·3	21·7	19·4	22·7	67	..	3·4	..	12·1	0	3	28	1	0	0	0	0	0	26	4	0	0
Ootacamand	0830	2249	1502·5	779·9	+0·6	17·1	13·8	11·6	13·7	70	+6	2·7	−1·2	1·5	0	0	16	1	13	2	0	0	0	0	0	15	0
	1730	,,	1478·9	778·3	..	18·3	15·5	13·7	15·7	74	..	5·1	..	1·4	0	0	16	4	8	3	0	0	0	0	1	15	0
Coonor (R)	0830	..																									
Kodaikanal	0830	2343	3164·7	771·6	+0·8	17·6	13·7	10·9	13·7	66	+3	4·5	+0·9	3·9	0	0	21	7	4	2	2	0	0	0	6	10	0
	1130	,,	3174·6	771·8	..	20·4	15·1	11·5	13·7	58	..	5·4	..	6·6	0	1	25	10	6	1	2	0	0	0	4	5	0
	1730	,,	3141·3	769·8	..	16·3	14·4	13·3	15·2	83	..	6·8	.	6·6	0	1	24	9	1	2	3	1	1	0	3	6	0
Nepal Katmandu	0830	1324	1473·0	865·5	..	20·6	16·4	13·7	15·6	65	..	2·8	..	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
	1130	,,	1471·3	864·5	..	25·4	17·7	12·5	14·7	47	..	4·5	..	0·7	0	0	6	0	0	0	1	0	0	2	3	25	0
	1730	,,	1445·7	862·1	..	23·9	17·8	13·9	15·9	56	..	4·2	..	1·7	0	0	12	2	1	1	0	0	2	2	4	19	0
Sikkim Lauchen	0830	..	..	..	..	13·2	10·4	8·1	10·8	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
HYDROMETEOROLOGICAL OBSERVATORIES—Damodar Catchment																											
Tilaiya	0830	..	..	..	..	31·2	23·0	18·1	20·8	49	..	1·2	..	6·5	0	0	25	2	1	5	2	0	1	12	2	6	0
	1730	..	..	..	..	33·9	20·0	7·1	10·1	28	..	1·2	..	6·6	0	0	23	3	0	5	3	1	0	8	3	8	0
Hazaribagh	0830	615	1002·5	936·3	..	30·3	22·5	18·3	21·0	53	..	1·1	..	5·3	0	0	28	0	0	4	2	6	7	8	1	3	0
	1730	,,	998·5	932·9	..	31·9	21·6	15·4	17·5	43	..	2·1	..	5·6	0	0	26	6	0	6	2	2	0	2	8	5	0
Konar	0830	..	..	..	..	30·6	23·1	19·1	22·1	52	..	2·0	..	7·8	0	0	31	0	0	7	11	0	0	7	6	0	0
	1730	..	..	..	..	33·2	22·1	15·5	17·6	36	..	1·2	..	8·0	0	0	31	0	0	17	1	0	0	12	1	0	0
Bokaro	0830	242	1000·0	973.6	..	31·6	25·1	22·1	26·6	59	..	4·2	..	4·6	0	0	27	0	0	4	15	2	5	1	0	4	0
	1730	,,	995·6	969.5	..	35·0	23·4	16·9	19·3	38	..	5·1	..	7·7	0	0	31	4	2	3	10	1	3	2	6	0	0
Maithon	0830	..	..	..	..	30·7	25·1	22·1	26·6	62	..	2·5	..	3·2	0	0	26	1	3	1	9	1	7	1	0	5	0
	1730	..	..	..	..	34·6	25·0	20·9	23·8	44	..	2·7	..	3·0	0	0	25	1	1	0	14	2	6	1	0	6	0
Ramgarh	0830	..	..	..	..	31·1	23·5	19·0	22·7	50	..	1·2	..	2·6	0	0	26	2	4	6	3	0	4	7	0	5	0
	1730	..	..	..	..	35·3	22·6	15·0	17·0	29	..	2·5	..	3·1	0	0	31	2	2	10	1	1	4	6	5	0	0
Panchet Hills	0830	..	..	..	..	30·6	24·9	22·3	26·9	61	..	1·3	..	4·6	0	0	25	0	5	0	11	0	7	0	2	6	0
	1730	..	..	..	.	34·7	25·4	20·9	24·7	45	..	2·3	..	3·4	0	0	20	0	9	0	7	0	0	0	4	11	0
Durgapur	0830	..	..	..		30·0	26·3	24·7	31·1	75	..	4·0	..	6·3	0	0	31	2	3	4	5	15	1	1	0	0	0
	1730	..	..	..	.	34·3	26·8	23·4	28·8	56	..	4·6	..	6·3	0	0	31	1	5	2	7	16	0	0	0	0	0

(R) Register not received.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observations—*contd.*																											
Mahanadi Catchment																											
Gondabahar	0830	..	..	..	..	31·1	22·1	15·7	20·0	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakund	0830	159	1003·4	988·9	..	32·8	24·8	20·9	24·7	50	..	0·8	..	3·5	0	0	28	0	0	2	16	6	3	0	1	3	0
	1130	,,	1002·4	985·3	..	37·3	25·4	19·5	22·7	37	..	0·9	..	3·3	0	0	29	0	0	3	4	5	8	1	7	2	1
	1730	,,	997·9	980·6	..	39·5	24·0	15·1	17·1	24	..	2·2	..	2·3	0	0	20	0	0	1	5	2	1	1	10	11	0
Sambalpur	0830	..	..	..	..	27·9	24·3	22·6	27·4	73	..	3·3	..	1·0	0	0	8	1	0	0	2	4	1	0	0	23	0
	1730		..	..	..	31·9	33·9	19·8	23·1	51	..	3·9	..	4·1	0	1	21	0	3	0	8	3	7	0	1	9	0
Sonepur	0830	..	..	..	..	33·5	26·3	23·1	28·3	56	..	..	..	5·0	0	0	31	0	5	19	4	0	1	1	1	0	0
Khujrawan	0830	..	..	..	..	33·8	22·7	15·7	18·5	37	..	0	..	6·5	0	1	26	2	3	1	5	5	6	0	2	4	3
	1730		..	..	..	39·0	21·8	8·4	12·1	17	..	0	..	6·6	..	..	28	4	1	2	1	3	5	2	9	3	1
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	32·8	20·0	9·9	12·9	27	..	0·7	..	10·7	..	..	31	2	0	3	0	1	7	10	8	0	0
	1730	..	..	..	..	32·6	20·7	4·5	8·9	12	..	1·1	..	9·3	..	..	31	0	2	1	2	0	2	9	15	0	0
Punasa	0830	..	..	..	..	32·1	22·2	16·3	18·3	40	..	1·1	..	9·9	0	1	30	2	1	1	0	0	4	16	7	0	0
	1730	..	..	..	..	40·7	21·9	8·0	10·9	14	..	2·2	..	13·3	0	2	29	2	1	1	0	0	9	13	5	0	0
Thikri	0830	..	..	..	..	31·0	24·4	21·1	25·0	56	..	1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	28·7	18·8	11·4	13·7	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	39·1	21·5	8·7	11·2	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	16·0	9·5	4·1	8·2	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·8	9·5	4·3	8·3	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khani Bazar	0830	..	..	..	..	23·0	18·7	16·7	19·0	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·9	19·9	17·7	20·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	20·5	13·5	8·3	10·9	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	14·0	9·6	11·9	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chhara	0830	..	..	..	..	22·8	18·7	16·3	18·5	68	..	2·6	..	1·0	0	0	4	1	0	0	2	0	1	0	0	27	0
	1130	..	..	..	..	25·8	19·5	16·0	18·1	56	..	3·3	..	4·1	0	0	24	1	0	1	10	11	1	0	0	7	0
	1730	..	..	..	..	23·5	18·9	16·3	18·5	67	..	4·8	..	2·0	0	0	15	6	2	0	3	0	0	0	4	16	1
Gorkha	0830	..	..	..	..	21·2	17·9	15·9	18·1	74	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	..	..	..	..	23·9	19·3	16·6	19·0	66	..	2·2	..	0·6	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	..	..	..	..	23·5	18·1	14·7	16·7	60	..	4·0	..	1·8	0	0	4	0	1	3	0	0	0	0	0	27	0
Nawakot	0830	..	..	..	..	23·3	19·1	16·7	19·0	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·7	20·4	17·5	20·0	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	20·5	15·7	12·3	14·3	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·1	17·4	13·0	15·0	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	17·4	11·6	6·9	9·9	58	..	2·6	..	6·9	0	0	28	2	3	12	6	1	0	0	4	3	0
	1130	..	..	..	..	20·8	13·1	6·9	10·1	45	..	3·4	..	6·8	0	0	30	2	3	2	3	3	2	0	15	1	0
	1730	..	..	..	..	20·4	13·0	7·2	10·2	46	..	3·5	..	7·3	0	2	29	2	1	0	2	1	10	2	15	0	0
Sallyana	0830	..	..	..	..	22·8	17·0	13·0	15·0	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·8	17·5	13·9	16·2	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·5	22·0	17·7	20·2	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	33·0	23·0	17·4	19·9	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu*																											
Kosi Catchment																											
Chautwra†	0830	..	..	..	..	19·1	16·1	14·3	16·3	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·5	15·7	12·1	14·1		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data included under Nepal.

†Observations for 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean account	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observation—contd. Region)																											
Kosi Cantonment—contd.																											
Chepua	0830	..	..	..	..	16·6	13·2	11·5	13·6	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·3	13·3	11·8	13·8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchang Gdo	0830	..	..	..	..	10·3	7·1	4·3	8·3	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·0	7·5	6·3	9·5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taple thok	0830	..	..	..	..	19.6	16·1	13·8	15·8	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	16·1	13·4	15·4	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·1	16·3	14·1	16·2	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·8	15·9	14·2	16·2	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapkejang	0830	..	..	..	..	18·9	15·4	13·1	15·3	70	..	4·0	..	..	0	0	4	2	0	0	0	0	0	2	0	27	0
	1130	..		..	..	21·2	16·4	13·6	15·6	63	..	4·9	..	..	0	0	24	4	2	1	2	3	1	4	4	7	0
	1730	..	..	..	..	18·6	15·1	13·1	14·9	71	..	5·5	..	..	0	0	19	2	3	2	1	3	2	1	0	12	0
Okheldhunga	0830	.	..	..	..	19·1	15·8	13·8	15·9	72	..	1·8	..	0·3	0	0	3	2	0	0	0	1	0	0	0	28	0
	1130	..	..	..	.	20·8	16·3	13·4	15·7	65	..	1·6	..	1·6	0	0	15	1	0	2	1	4	2	3	2	16	0
	1730	..	..	..	..	18·7	15·2	12·9	15·1	71	..	2·5	..	4·7	0	0	22	0	0	1	0	3	0	15	1	9	0
Chainpur	0830	..	..	..	..	21·0	17·7	15·7	17·8	72	..	..	..	..	..		..	..	..	.	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	17·9	15·8	17·9	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	(a) 21·9	(b) 17·9	(b) 15·5	(b) 17·6	(b) 67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·2	(c) 17·9	(c) 15·3	(c) 17·4	(c) 66	..	..	.	..	..	..	..	..	..	..	.	..	..	..	..	.	..
Barahakshetira	0830	146	1005·7	989·4	..	27·9	22·2	19·1	22·1	60	..	2·7	..	3·0	0	0	22	0	0	0	1	2	13	3	3	9	0
	1130	,,	1004·5	988·4	..	31·5	23·9	19·9	23·5	51	..	3·4	..	5·8	0	0	28	0	0	0	0	0	22	4	2	5	0
	1730	,,	1001·4	985·2	..	30·4	23·3	19·5	22·8	50	..	3·5	..	3·3	0	0	18	0	0	0	0	1	15	2	0	13	0
Tista Cantoment																											
Gangtok	0830	1812	1473·3	817·3	..	17·0	14·5	12·9	14·9	77	..	5·2	..	1·3	0	0	11	2	8	0	0	0	1	0	0	20	0
	1130	,,	1466·9	817·0	..	20·7	15·6	14·2	16·3	63	..	5·0	.	2·5	0	0	25	4	11	0	1	1	4	1	0	6	0
	1730	,,	1444·1	814·7	..	18·0	15·3	13·6	15·7	77	..	6·0	..	3·0	0	0	17	1	6	1	2	3	2	0	0	14	0
Gezing	0830	..	..	..	..	19·4	16·8	15·4	17·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..
	1730	..	..	..	..	19·3	17·1	15·9	18·1	81	..	..	..	..	..	..	..	..	.	..	..	..	.	..	..		..

(a) Mean of 30 days. (b) Mean of 30 days. (b) Mean of 28 days.

MONTHLY MEANS OF UPPER WINDS

May, 1964 (*Vaisakha* 11—*Jyaistha* 10, 1886 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0 and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°03′	88°16′	2115	1st June, 1963	0530		1730	
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	28th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
47.	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

† Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May, 1964 (Vaisakha 11 —Jyaistha 10, 1886 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·0	1·3	136	31	1·9	0·8	149	31	2·2	0·6	143	31	1·8	1·5	155	31	1·8	1·2	247	31	4·4	3·8	236
0·5 a. g. .	30	5·6	3·2	153	31	4·0	1·7	153	30	4·2	1·6	161	31	5·6	4·3	169	31	5.8	4·1	252	31	4·8	3·8	234
0·3 a. m. s. l. .	30	5·8	3·0	351	31	3·7	2·0	169	30	4·7	2·5	174	31	6·2	4·9	183	31	6·7	4.9	262	31	5.0	3.8	237
0·6 ,, .	30	6·2	3·3	211	31	4·2	2·7	184	30	5·3	3·3	182	31	6·3	5·0	197	31	7·2	5·6	276	31	5·3	4·0	247
0·9 ,, .	29	6·8	4·0	227	31	5·0	3·2	202	30	5.3	3·5	199	31	5·9	4·3	208	31	7·0	5·7	282	31	5·9	4·1	265
1·5 ,, .	27	6·5	3·9	250	25	7·0	4·0	246	29	5·6	3·9	245	30	5·8	3·5	236	31	6·4	5·1	285	31	6·7	5·1	272
2·1 ,, .	25	6·7	4·4	270	18	6·3	4·1	270	25	7·2	5·5	267	25	4·7	2·7	267	31	6·9	5·3	286	28	6·2	4·7	282
3·0 ,, .	22	7·3	5·2	304	11	6·0	2·3	270	21	8·3	7·1	288	21	6·2	3·8	292	31	7·0	4·8	298	24	5·6	3·8	300
3·6 ,, .	15	7·3	4·9	240					20	9·0	8·0	297	[illegible]	2·5	2·2	085	31	7·7	5·9	318	24	6·1	4·1	313
4·5 ,, .	8	5·7	3·8	253					15	8·0	8·2	258	1	4.0	4.0	140	31	9·5	8·5	311	23	6·8	5·0	318
5·4 ,, .	7	5.1	2·8	273					12	9.4	8.2	266					31	11·6	10·0	317	22	8·4	6·9	315
6·0 ,, .	5	4·6	3.7	246					9	9.2	8.1	251					31	12·0	10·5	316	22	9.9	8.4	313
7·2 ,, .									5	14.3	13.4	233					31	13·4	12·0	310	16	14.9	13.5	315
9·0 ,, .									2	14.3	14.2	235					31	18.2	16.6	297	4	15.6	15.2	284

Station	AHMEDABAD								ALLAHABAD/BAMHRAULI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·0	252	30	4·3	3·1	230	31	0·6	0·1	290	31	1·1	0·2	332	31	1·8	1·4	341	31	0·5	0·4	042
0·15 a. g. .	31	5·5	4·5	247	30	5·3	6·3	235	31	5·3	0·3	086	30	3·5	1·3	341	31	6·2	4·4	342	31	6·1	4·1	024
0·3 a. m. s. l. .	31	6·6	5·5	248	30	8·2	7·2	241	31	5·3	0·3	086	30	3.5	1·3	347	31	6.2	4·4	342	31	6.1	3.9	024
0·6 ,, .	31	6.2	5·1	248	30	9·1	8·3	256	31	5·5	1·6	306	31	3.5	1·2	316	31	5·9	4·4	331	31	5·6	3·5	002
0·9 ,, .	31	6·6	5·7	253	30	8·4	8·0	268	31	5·3	2·5	308	31	3·3	1·5	292	31	5·7	4·4	320	31	5·8	3·6	332
1·5 ,, .	31	7·1	6·1	263	30	6·9	6·0	277	31	6·5	4·9	296	30	5·2	4·2	289	31	5·8	5·3	300	31	6·9	6·0	301
2·1 ,, .	31	7·5	6·5	266	27	6·1	5·1	284	31	8·1	7·7	298	27	7·5	6·4	274	31	7·6	7·0	284	29	10·2	7·6	281
3·0 ,, .	31	7·3	6·4	280	25	6·2	3·8	299	31	11·3	10·5	2·5	25	10·1	9·6	297	31	10·9	10·1	280	15	9·5	9·2	278
3·6 ,, .	30	8·9	6·2	300	6	6·8	3·5	311	31	12.4	11.6	275	25	11·7	11·0	294	30	12·3	10·9	284	1	11·0	11.0	294
4·5 ,, .	30	9.6	7.3	312	2	8·3	7·9	296	31	13.4	12.3	273	18	13·2	11·8	292	30	12·9	11·8	290				
5.4 ,, .	30	11.3	9.8	307					29	15.2	14.0	271	18	14·8	13·8	288	30	14·3	13·7	290				
6·0 ,, .	29	13.0	11.7	310					29	16.6	15.4	268	16	14·4	12·9	269	30	15·1	14·3	289				
7·2 ,, .	29	15.5	14.3	312					28	19.6	18.6	269	9	17.9	17·1	289	29	18·2	16·6	288				
9·0 ,, .	29	17.4	15.0	302					12	26.5	24.6	266	2	21·7	21.6	287	21	25.5	23.5	279				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	AMBALA																ANANTAPUR							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	0·5	043	31	2·8	0·2	090	31	3·1	1·3	323	31	2·5	0·8	353	31	4·5	4.2	260	31	3 2	2·9	331
0·15 a. g. .	31	6.9	3·1	031	31	4.7	0·7	117	31	6·5	3·2	321	30	9·8	4·8	351	31	8·5	8·1	259	31	4·9	4·0	326
0·3 a. m. s. l. .	31	3.3	1.5	035	31	3.1	0.4	132	31	3·9	1·8	315	30	4·7	2·1	352								
0·6 ,, .	31	6·9	2·0	026	31	5·3	0·9	103	31	7·0	3.5	323	30	9·5	4·9	347	31	9·8	9·6	261	31	4·5	3 7	313
0·9 ,, .	31	7·0	2·2	356	31	6.4	0·6	042	31	7·1	4·1	311	30	8·9	4·9	339	31	9·7	9·2	281	31	4·5	3·6	311
1·5 ,, .	31	7·0	3·6	319	31	7.3	0·9	294	31	7·5	5·0	303	30	7·7	4·3	336	31	8·2	7.7	317	31	4·9	4·2	318
2·1 ,, .	30	7·8	5·5	313	28	7·3	1.8	289	28	8·7	6.9	300	27	7·6	6·2	321	31	6·0	5·2	331	31	5·3	4·4	327
3·0 ,, .	27	10·3	8·8	309	27	8·2	4·9	305	23	8·1	5.9	320	21	8·5	6·6	300	23	5·9	3·8	024	31	6·0	4·8	355
3·6 ,, .	19	10·4	9·3	309	23	9·7	8·5	309	21	9·1	8·1	310	3	10.0	9.2	288	20	7·9	6·5	033	24	6·1	5·0	021
4·5 ,, .	12	12 9	10·9	301	21	12·8	12·0	306	19	11·9	10·6	301	2	10.5	9.4	278	15	7·7	6·1	046	22	6·3	5·1	038
5·4 ,, .	5	8·4	6·7	317	17	14·2	13·6	299	17	13·9	12·8	296	2	8.5	7.5	282	14	6·3	4·6	037	17	7·9	5·9	037
6·0 ,, .	5	14·7	13·0	301	16	16·6	15·7	296	15	14·9	13·7	308	1	5.0	5.0	310	11	5·9	4·0	013	15	8·8	6·7	036
7·2 ,, .					6	16.4	15.7	288	5	14·4	13·4	303					10	6.2	4.2	358	12	8·0	5·7	019
9·0 ,, .									1	13·0	13·0	315					6	7.1	4.5	056	4	4.7	3·5	034

Station	ANANTAPUR				ASANSOL																AURANGABAD CHIKALTHAN			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·8	4·1	257	31	1·1	0·5	137	31	1·9	0·4	138	31	1·4	0·7	100	31	2·3	1·8	135	31	5·0	4·7	278
0·15 a. g. .	31	9·1	7·8	261	30	4·9	2·1	152	31	4·5	1·2	168	31	4·2	1·6	093	30	7·2	5·6	140	31	8·2	7·2	293
0·3 a. m. s. l. .					30	5·1	2.1	172	31	4·7	1·3	168	31	4·3	1·6	097	30	7·6	5·7	146				
0·6 ,, .	31	8·9	7·6	261	29	5·1	3·1	206	31	4·0	1·5	172	31	4·9	1·4	125	30	9·1	7·3	147				
0·9 ,, .	31	7·4	6·1	271	26	5·0	3·1	226	29	3·6	1·3	200	31	4·6	1·2	143	29	8·2	6·4	160	31	11·2	10·5	320
1·5 ,, .	31	4·7	3·4	296	26	5·0	2·6	258	27	4·9	3·0	271	31	4·4	2·2	269	29	5·2	2·2	216	31	12·1	10·7	326
2·1 ,, .	31	4·7	3·2	344	26	6·1	3·6	292	18	5·1	3·1	286	30	6·4	5·3	292	27	5·5	4·6	297	29	8·0	5·5	324
3·0 ,, .	28	6·5	4·8	011	20	10·4	9·3	290	6	7·7	5·3	282	26	9.1	8.3	298	26	10·6	9·8	295	14	5·1	0·9	233
3·6 ,, .	23	7·1	5·8	031	9	10·7	10·0	311					21	11.0	10.3	296	20	12·5	11·3	298	2	4.3	4.0	201
4·5 ,, .	4	5·9	4·7	013	6	6.8	5.7	320					20	15.1	14.2	295	7	11·5	11·1	296				
5·4 .	2	6·0	6·0	066	6	3.2	1.5	257					16	12.9	11.7	292	3	5·3	2·0	298				
6·0 ,, .	1	7·5	7·5	040	5	6.0	5.2	244					15	13.0	11.6	285	2	7·0	6·8	223				
7·2 ,, .					4	9.9	9.9	236					9	13.6	10.2	273	1	8·5	8·5	231				
9·0 ,, .					3	13.7	13.5	238					3	22.8	22.6	217								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	AURANGABAD/ CHIKALTHAN								BAHRAICH												BANGALORE			
Time in I. S. T.	1730				2330				0530				1130				1730				0530@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·9	4·2	310	31	5·4	4·9	285	31	2·0	1·6	078	31	1·7	1·4	087	31	1·2	0·4	272	31	3·2	3·0	273
0·15 a. g.	31	7·0	6·1	310	31	9·6	8·9	294	31	8·7	5·6	094	30	5·1	3·5	113	30	4·0	1·5	279	29	7·0	6·8	268
0·3 a. m. s. l.									31	9·2	5·7	103	30	5·2	3·7	113	30	4·1	1·6	268				
0·6 ,,									31	8·5	4·3	113	30	4·9	2·6	119	30	4·8	2·2	272				
0·9 ,,	31	7·0	5·8	305	31	10·8	10·1	308	31	6·4	1·3	106	30	4·7	1·4	137	30	5·3	2·3	276				
1·5 ,,	31	6·6	5·8	307	31	11·8	10·7	318	31	5·8	2·3	297	30	5·3	1·9	255	30	6·0	4·1	272	29	7·3	6·4	299
2·1 ,,	31	6·0	5·3	309	30	8·4	6·7	326	31	7·0	5·0	294	29	6·5	4·7	285	29	7·3	7·0	286	28	5·8	4·3	335
3·0 ,,	22	6·3	5·6	305	27	6·1	[illegible]	3	[illegible]	13·5	8·3	290	26	9·4	7·7	288	29	10·2	9·5	293	28	6·3	5·1	030
3.6 ,,	19	6·1	4·9	298	3	5·3	0·6	[illegible]	2[illegible]	12·1	10·3	290	25	11·1	8·2	289	28	12·3	11·4	297	27	7·6	6·3	040
4·5 ,,	17	6·3	4.6	315					18	11·0	9·7	280	25	13·7	12·0	293	26	15·1	14·5	301	26	7·6	6·2	040
5·4 ,,	11	7·2	5.7	328					9	8·1	6·5	284	22	15·3	14·7	297	23	17·8	17·1	301	24	6·8	4·3	032
6·0 ,,	11	6·8	5·8	338					6	9·8	7·5	258	22	17·0	16·3	295	21	17·7	17.1	297	21	5·7	3·6	049
7·2 ,,	1	3·0	3·0	158					4	11·0	8·7	260	19	19·9	18·8	289	12	16·5	16·0	285	19	6·4	3·2	154
9·0 ,,									1	21·5	21·5	330	10	24·7	23·8	280	3	18·3	16·7	273	16	5·3	3·9	016

Station	BANGALORE												BAREILLY								BEGAMPET			
Time in I. S. T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·8	279	31	2·6	1·8	319	31	2·8	2·0	254	31	1·3	0·6	062	31	1·4	0·2	268	31	2·7	1·8	284
0.15 a. g.	31	5·0	4·8	284	31	5·7	4·4	335	29	7·1	5·7	247	31	6·4	1·6	038	31	4·8	2·3	297	31	8·1	5·6	297
0·3 a. m. s. l.													31	6·0	1·7	039	31	4·5	2·1	303				
0·6 ,,													31	7·2	2·0	351	31	6·1	2·7	298	31	6·0	3·8	298
0·9 ,,													31	7·6	3·1	324	31	6·6	3·0	289	31	11·0	7·5	320
1·5 ,,	31	5·4	5·1	312	31	5·4	4·6	327	29	7·6	3·1	267	31	7·6	4·5	305	31	6·4	4·0	282	31	10·1	6·5	325
2·1 ,,	31	5·7	5·1	348	30	5·5	4·7	332	27	5·8	4·0	342	30	8·4	5·7	295	31	7·3	5·8	283	31	6·9	3·7	345
3·0 ,,	31	6·5	4·9	030	29	6·8	5·4	009	27	6·5	5·6	033	24	8·0	5·5	279	28	9·5	8·1	290	31	6·0	3·8	0 1
3·6 ,,	30	7·8	6·2	046	28	8·0	6·3	033	25	8·2	7·1	053	19	9·2	6·1	281	25	11·5	10·2	295	26	6·7	4·2	014
4·5 ,,	28	7·2	6·1	048	26	7·2	5·9	041	11	7·7	7·1	039	16	9·1	6·1	295	18	12·7	11·9	298	21	6·2	3·7	028
5·4 ,,	24	6.3	3.8	050	25	6·4	5·2	036	4	11·0	9·1	066	9	9.4	7·8	297	14	12·6	11·8	287	16	6·9	4·1	360
6·0 ,,	22	6.4	4.2	038	24	6·8	5·4	026	1	5·0	5·0	325	4	7·1	6·3	305	11	14·4	13·5	290	14	7·6	4·5	018
7·2 ,,	20	6·7	5·4	018	23	7·1	4·5	028					3	9·2	7·6	264	9	16·8	15·4	282	6	7·5	5·4	011
9·0 ,,	18	5.2	3.2	028	18	4·5	2·1	021					1	8·0	8·0	275	2	22·5	19·4	284	4	7·0	2·5	037

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	BEGAMPET								BHAGALPUR												BHOPAL/ BAIRAGARH			
Time in I. S T.	1730				2330				0530				1130				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	2·0	307	31	1·9	0·6	205	31	2·2	1·6	100	31	2·2	1·2	078	31	2·2	1·7	061	31	3·9	2·2	281
0·15 a. g.	31	4·8	3·2	319	30	5·8	1·5	211	30	6·9	5·1	112	30	4·0	3·4	070	31	5·7	4·6	060	31	8·5	6·4	285
0·3 a. m. s. l.									30	7·7	5·5	120	30	4·1	3·4	071	31	5·8	4·5	058				
0·6 ,,	31	4·8	3·2	320	31	4·4	1·0	212	30	6·5	4·3	150	30	4·2	2·8	087	31	5·5	3·0	056	31	7·6	5·8	281
0·9 ,,	31	4·7	3·6	328	31	6·3	0·8	207	28	5·5	2·3	178	28	4·7	2·0	131	31	4·5	0·8	044	31	9·4	6·9	304
1·5 ,,	31	5·0	4·0	333	31	5·6	1·3	338	25	5·6	2·1	265	28	5·0	2·4	245	31	5·6	3·9	267	30	8·0	6·8	304
2·1 ,,	31	5·4	4·4	334	31	5·4	3·3	339	25	6·6	5·0	299	25	5·8	4·0	276	30	8·0	7·1	279	29	7·0	6·2	307
3·0 ,,	31	5·8	4·5	330	31	6·5	5·4	330	23	10·9	10·3	293	17	10·2	8·3	290	28	11·3	10·9	285	27	7·2	5·1	302
3·6 ,,	30	6·6	5·2	326	21	7·6	6·7	333	20	12·6	12·0	296					26	13·2	12·2	280	22	7·5	5·1	304
4·5 ,,	25	7·1	5·2	325	2	14·0	13·9	341	15	10·7	10·0	290					21	14·1	12·4	288	15	8·1	7·0	295
5·4 ,,	20	7·4	5·7	354	1	4·0	4·0	320	11	9·7	7·7	282					19	12·2	11·2	280	11	10·5	9·5	287
6·0 ,,	14	8·6	6·7	355	1	3·0	3.0	230	7	7.9	5.7	260					17	10·7	9·9	269	9	11·1	10·6	303
7·2 ,,	9	8·1	6.3	335					2	9·3	8·6	265					8	11·1	9·9	236	7	13·2	13·0	310
9·0 ,,	4	6·7	5·4	289													2	27·0	25·0	221	6	17·6	17·2	299

Station	BHOPAL/BAIRAGARH								BHUBANESHWAR															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·1	3·1	295	31	3·8	2·1	323	31	3·1	2·1	199	31	4·7	4·1	190	31	6·7	4·5	180	31	4·8	3·3	180
0·15 a. g.	31	6·4	4·9	300	30	9·7	6·2	316	27	5·5	4·2	202	31	5·8	5·5	204	29	8·4	7·2	188	28	8·0	5·7	183
0·3 a. m . s. l.									27	6·6	5·9	210	31	5·9	5·6	205	29	8·9	7·1	193	28	9·0	6·9	187
0·6 ,	31	5·7	4·2	300	30	8·7	5·3	317	26	7·8	7·3	211	31	6·6	5·9	210	29	8·1	6·8	203	24	9·3	8·1	190
0 9 ,,	31	6·7	5·1	298	30	9·9	6·9	318	25	6·5	5·8	209	31	6·4	5·7	215	29	6·8	5·1	218	23	7·3	6·7	193
1·5 ,	31	6·7	5·2	294	30	8·5	6·3	308	20	4·8	2·7	226	22	4·4	3·1	265	26	4·7	3·4	278	22	3·8	2·5	208
2·1 ,,	31	7·0	5·5	293	30	7·4	5·8	293	18	4·5	3·1	295	18	4·1	3·0	293	23	5·7	4·3	306	19	5·7	3·4	298
3·0 ,,	31	7·0	6·0	293	27	7·1	5·5	281	17	6·6	5·5	327	8	5·0	3·4	325	21	8·1	6·9	319	19	8·3	7·3	328
3·6 ,,	27	7·0	6·0	297	11	7·5	6·5	297	16	7·8	6·3	330					20	9·6	9·0	323	7	7·6	6·9	305
4·5 ,,	24	7·9	7·1	296	9	6·0	6·0	275	10	8·1	6·7	325					17	10·2	9·6	325				
5·4 ,	16	10·0	9.1	300					6	7·7	5·3	290					12	11·0	10·1	319				
6·0 ,,	13	11·2	9·3	300					5	8·6	6·1	267					7	9·0	8·8	305				
7·2 ,,	9	13·7	11·5	308					3	6·7	6·3	255					1	6.0	6·0	325				
9·0 ,,	1	15·0	15·0	305					2	8·3	7·0	270												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	BHUJ/RUDRAMATA												BIKANER											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·1	3·6	241	31	7·2	6·7	255	31	5·9	5·6	243	31	1·4	0·9	206	31	2·3	1·0	286	31	2·1	0·7	091
0·15 a. g.	31	8·3	7·5	243	31	9·0	8·7	248	31	9·5	9·3	241	30	8·6	4·5	185	26	6·3	3·5	272	29	9·9	0·9	073
0·3 a.m.s.l.	31	9·5	8·7	250	31	9·0	8·5	248	31	10·4	10·1	247	30	6·6	3·4	177	27	5·3	2·7	270	29	7·7	0·9	082
0·6 ,,	31	11·8	10·9	268	31	8·7	8·6	258	31	11.6	11·1	265	29	9·2	3·6	204	26	6·9	3·9	275	29	9·2	0·9	010
0·9 ,,	31	10·9	10·1	275	31	8·8	8·3	267	31	10·1	9·5	272	27	7·7	3·5	242	26	6·3	4·2	270	27	8·9	1·7	300
1·5 ,,	28	8·7	7·5	276	31	7·2	6·4	282	31	7·2	6·0	283	27	7·8	5·5	277	26	5·7	4·5	272	23	7·8	4·3	294
2·1 ,,	27	7·5	5·6	279	30	6·9	5·7	295	31	7·1	5·2	295	25	7·4	5·8	278	25	6·2	4·6	272	20	7·6	5·7	269
3·0 ,,	21	7·4	4·1	312	29	7·6	5·5	307	27	7·1	4·8	302	25	10·2	8·9	290	19	7·4	5·5	280	17	9·5	8·3	284
3·6 ,,	5	8·0	7·3	305	28	8·3	6·3	317	11	6·9	4·8	313	21	10·1	8·7	299	18	8·4	7·6	283	8	9·2	7·2	252
4·5 ,,	2	7·0	6·7	337	28	9·0	7·2	320	1	11·0	11·0	290	19	12·9	10·8	296	17	11·6	10·6	290	2	6.7	5.9	256
5·4 ,,	1	12·0	12·0	340	25	10·0	8·5	317					17	15.9	14·2	295	17	15·1	14·3	295				
6·0 ,,					24	11·1	9·8	321					16	17·6	16·0	293	17	17·1	16·3	292				
7·2 ,,					17	12·1	11·5	303					14	22·3	20·7	282	16	19·5	18·6	294				
9·0 ,,					5	16·1	15·1	306					2	24·7	23·9	301	7	25·2	24·7	297				

Station	BOMBAY/SANTACRUZ																CALCUTTA/DUM DUM							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0·6	261	31	3·1	2·7	260	31	4·4	4·0	275	31	2·6	1·9	270	31	1·2	1·0	188	31	2·1	1·6	186
1·15 a. g.	31	4·1	3·2	270	31	5·4	4·9	257	31	6·9	6·2	273	31	4·7	4·0	262	31	6·0	4·7	193	31	4·4	3·2	181
0·3 a.m.s.l.	31	3·5	2·7	259	31	5·2	4·5	261	31	6·1	5·6	273	31	5·0	4·2	265	31	6·9	5·8	202	31	4·8	3·6	184
0·6 ,,	31	3·6	2·5	254	31	4·3	2·9	270	31	5·1	4·4	276	31	4·9	3·9	271	31	8·0	7·3	210	31	5·1	4·1	198
0·9 ,,	31	4·3	2·3	281	31	4·7	2·6	298	31	5·2	4·3	289	31	4·8	3·6	287	31	7·1	6·4	216	29	5·6	4·7	212
1·5 ,,	31	6·0	4·6	309	28	6·9	4·5	322	31	6·0	4·5	308	30	6·1	4·6	310	31	5·8	4·1	241	23	5·9	4·2	248
2·1 ,,	31	6·5	4·2	297	25	6·9	4·4	311	31	6·7	4·4	296	22	7·2	4·8	316	31	6·6	4·4	283	19	6·8	4·5	290
3·0 ,,	31	6·2	2·6	270	19	6·3	2·4	294	31	6·7	3·0	296	20	7·1	2·1	329	31	9·8	8·5	300	11	10·5	9·4	323
3·6 ,,	31	5·6	1·6	293	15	5·1	2·2	284	31	5·5	3·5	322	11	7·1	3·1	348	31	10·8	9·4	300	7	14·1	13·7	327
4·5 ,,	31	5·5	3·6	336	12	5.0	3.6	009	31	5·2	4·0	348	4	6·1	4·1	356	31	11·0	9·3	296	4	18.5	18.3	324
5·4 ,,	31	7·6	5·9	344	11	7.4	5.8	009	31	7·0	5·0	351	3	10·3	5·4	334	31	10·9	9·8	285	2	17.7	17.7	308
6·0 ,,	31	8·4	7·1	345	11	7.9	5.8	008	31	7·7	5·5	342	1	5·5	5·5	085	31	11·4	9·7	281	1	21.0	21.0	310
7·2 ,,	31	10·0	7·4	346	4	15.3	11.3	351	31	9·2	7·1	336					31	13·2	11·2	267				
9·0 ,,	28	8·8	6·5	307	3	15.7	14.0	338	25	8·6	6·7	319					31	17·1	14·0	253				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	CALCUTTA/DUMDUM								COCHIN/WILLINGDON†												DEHRADUN			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·7	2·2	165	31	2·0	1·6	185	31	0·7	0·6	053	31	4·2	3·5	292	31	1·6	1·3	318	31	0·5	0·4	008
0·15 a.g. .	31	5·7	3·9	171	31	6·8	5·4	189	31	3·6	1·2	022	31	5·9	5·3	295	29	4·2	3·3	312	30	3·3	1·5	050
0·3 a.m.s.l. .	31	6·0	3·9	179	31	7·4	6·3	196	31	4·1	2·7	317	31	6·8	6·4	294	29	4·8	4·3	310				
0·6 ,, .	31	5·9	3·4	181	31	7·3	6·6	199	31	5·9	4·9	309	31	7·8	7·5	298	29	5·8	5·5	303				
0·9 ,, .	31	5·2	3·4	206	27	6·1	5·0	203	31	6·3	5·5	307	30	7·6	7·2	299	29	6·1	5·9	301	30	3·1	1·9	032
1·5 ,, .	31	5·1	3·5	261	25	4·2	2·0	259	28	5·8	5·1	306	28	5·2	4·4	317	28	4·8	4·2	293	30	3·3	0·8	294
2·1 ,, .	31	6·5	4·9	298	23	5·9	4·1	304	24	4·3	2·8	351	22	3·8	2·8	003	23	3·2	1·5	340	29	4·6	2·4	282
3·0 ,, .	31	10·5	9·5	307	14	8·4	6·8	320	19	7·9	7·3	061	16	5·8	4·9	046	17	5·3	4·6	047	25	6·8	4·9	293
3·6 ,, .	31	13·0	11·7	307	5	7.3	6·3	317	15	6·8	6·1	059	15	6·3	5·3	053	11	6·5	5·6	049	17	8·7	7·2	310
4·5 ,, .	31	11·5	10·5	298					7	4·3	4·0	043	10	5·3	3·1	039	3	5.3	4.9	055	12	10·1	8·2	309
5·4 ,, .	31	11·8	10·2	286					4	8·5	6·1	350	4	4.0	1.0	296	2	4·0	3.5	033	4	9·6	6·4	275
6·0 ,, .	31	11·5	9·7	275					2	9.5	9.2	351	2	1.7	0·3	143	2	4.7	4·7	050	3	11.2	10.8	278
7·2 ,, .	31	13·3	10·9	262					1	8.0	8.0	315												
9·0 ,, .	30	16·2	13·6	245																				

Station	DEHRADUN				DIBRUGARH/MOHANBARI																GADAG			
Time in I.S.T.	1730				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·0	0·3	297	31	0·9	0·9	047	31	0·5	0·4	052	31	0·7	0·2	044	31	0·7	0·3	064	31	4·5	4·1	248
0·15 a.g. .	28	5·5	2·1	275	27	3·9	3·5	054	29	2·3	0·9	069	29	3·0	3·0	030	27	3·6	1·0	028	31	8·3	8·0	253
0·3 a.m.s.l. .					27	3·9	3·5	054	29	2·3	1·1	064	29	3·0	0·4	010	27	3·5	0·9	036				
0·6 ,, .					27	3·1	2·6	048	29	2·3	0·9	068	29	2·7	0·3	138	27	2·6	1·1	062				
0·9 ,, .	28	5·9	2·5	275	27	2·4	1·3	069	28	2·2	0·4	124	29	2·8	0·8	161	27	2·1	0·7	081	31	8·9	8·2	280
1·5 ,, .	28	4·6	2·7	276	26	2·5	0·7	145	28	3·2	1·2	218	28	3·2	1·6	190	27	3·0	1·2	202	30	9·6	8·3	324
2·1 ,, .	27	4·9	3·1	291	24	2·7	1·3	231	25	3·3	1·6	215	26	3·6	2·6	198	25	3·4	2·5	213	29	7·4	5·8	347
3·0 ,, .	21	4·5	3·8	294	23	3·5	2·0	220	21	3·0	1·3	232	24	5·3	2·5	222	22	3·6	3·0	230	29	5·4	3·0	017
3·6 ,, .	18	5·9	4·7	295	15	3.6	1·7	249	15	4·7	2·0	271	20	5·2	3·6	243	14	3·9	3·0	201	28	6·0	3·9	059
4·5 ,, .	15	8·2	6·5	298	13	5·4	2.8	221	9	4·7	2·6	242	14	5·0	3·7	250	3	3.5	2.0	279	24	6·4	4·7	072
5·4 ,, .	9	11·9	10·5	302	9	8.5	4.9	255	7	5·9	4·6	254	9	5·9	5·5	255	1	18·0	18.0	360	23	7·6	4·6	033
6·0 ,, .	7	14·0	12·9	308	7	10·0	6.4	260	7	8·4	6·6	266	9	9·2	8·5	250					21	7·0	4·8	025
7·2 ,, .	6	17·0	15·3	292	3	11.7	10.8	228	5	15·0	13·4	251	8	10.2	9.5	240					16	8·2	5·0	036
9·0 ,, .	2	13·5	10·7	246					2	17.2	17.0	237	4	15.3	15.0	222					11	6·5	4·8	009

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	GADAG								GANGTOK								GAUHATI							
Time in I.S.T.	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·8	2·8	279	31	5·3	5·1	263	31	1·0	0·9	023	31	1·1	0·3	080	31	0·8	0·2	104	31	2·2	1·4	025
0·15 a.g. .	31	5·8	4·5	283	31	9·6	9·4	257	22	2·0	1·3	343	19	3·7	1·9	165	31	2·8	0·8	099	30	3·9	2·9	043
0·3 a.m.s.l. .																	30	2·5	0·8	108	30	3·8	2·8	051
0·6 ,, .																	30	3·0	0·3	357	30	3·7	2·0	057
0·9 ,, .	31	5·8	4·8	289	31	10·6	10·4	268									30	3·0	0·4	277	30	3·6	1·0	105
1·5 ,, .	31	6·1	5·3	301	31	8·5	8·1	296									31	4·1	2·5	257	28	3·6	1·8	218
2·1 ,, .	31	6·0	4·8	320	30	5·1	3·9	321	22	1·5	0·1	128	19	3·4	2·1	172	31	5·0	4·0	250	28	5·3	4·2	231
3·0 ,, .	30	6·5	5·2	347	29	6·3	4·4	020	22	1·9	1·2	134	17	2·9	1·3	177	31	6·7	5·0	269	27	6·6	4·8	257
3·6 ,, .	29	6·2	4·9	005	29	7·6	5·7	035	21	2·7	0·9	145	14	2·9	1·6	246	31	8·0	6·0	267	24	3·0	5·4	260
4·5 ,, .	25	7·6	6·2	021	23	8·5	7·2	047	20	5·0	2·2	255	10	4·7	4·1	259	29	8·5	6·7	260	22	9·1	8·4	260
5·4 ,, .	23	7·8	6·3	037	11	8·2	6·0	059	16	8·2	6·4	244	7	8·2	6·5	260	28	9·9	8·6	255	20	11·3	10·7	255
6·0 ,, .	20	7·3	5·8	035	4	8·3	7·8	055	13	9·3	7·5	241	5	8·3	5·9	259	28	10·5	8.8	257	19	11·0	10·5	251
7·2 ,, .	13	9·5	7·5	005	1	6·0	6·0	315	10	13·9	11·9	235	2	5.0	4.9	206	28	14·6	12·8	255	17	16·5	15·5	245
9·0 ,, .	9	5·3	3·1	339	1	3·5	3·5	200	4	18·5	15·7	248	1	18·5	18·5	220	25	20·1	19·2	252	13	22·7	22·4	244

Station	GAUHATI								GAYA															
Time in I.S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·6	0·8	037	31	1·4	0·4	049	31	1·6	0·9	107	31	2·6	0·2	342	31	3·4	1·9	014	31	2·5	1·7	069
0·15 a. g. .	31	3·4	1·5	060	30	1·9	1·5	115	31	5·5	2·2	190	31	3·4	0·7	027	31	5·5	3·0	005	31	7·1	4·2	071
0·3 a.m.s.l. .	31	3·2	1·3	063	30	4·1	1·2	119	31	5·7	2·4	178	31	3·5	0·7	347	31	5·5	3·3	004	30	7·2	4·2	069
0·6 ,, .	31	2·7	0·1	118	30	4·3	1·2	100	31	5·1	2·3	163	31	3·5	0·8	310	31	5·8	3·4	358	30	6·3	2·7	073
0·9 ,, .	31	2·9	0·7	237	28	3·8	0·2	195	31	4·7	1·5	223	31	3·8	1·2	292	31	5·8	3·4	351	29	4·8	1·3	039
1·5 ,, .	31	4·5	3·5	237	28	4·2	2·2	232	31	5·4	3·2	292	31	4·4	3·2	277	31	5·9	4·4	307	31	5·3	3·4	301
2·1 ,, .	31	5·7	4·8	257	27	4·5	3·7	256	31	7·4	1·3	302	30	6·8	5·7	290	31	7·7	6·8	284	28	8·3	7·6	287
3·0 ,, .	30	6·8	5·3	269	25	5·4	4·2	260	30	11·4	10·7	292	23	9·8	8·7	292	30	11·1	9·9	275	25	11·5	10·9	284
3·6 ,, .	30	8·0	6·9	269	17	5·9	3·7	253	22	12·6	11·8	288					26	12·4	12·2	278	4	14·7	14·7	294
4·5 ,, .	29	8·1	7·3	274	10	5·2	3·4	225	12	13·0	12·3	280					22	14·1	13·4	288				
5·4 ,, .	30	9.6	9.1	268	7	4·6	3·9	250	3	7·8	7·4	261					17	14·0	13·1	286				
6·0 ,, .	30	12.5	11.4	267	6	6·3	5·7	245	3	8·5	8·5	279					13	12·7	11·5	276				
7·2 ,, .	30	15.1	13.5	259	3	13·8	13·7	246									7	11·6	10·0	253				
9·0 ,, .	26	21·2	19·2	252													1	21·0	21·0	225				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	3·9	208	31	6·9	6·2	199	31	4·9	4·1	196	31	1·9	1·7	065	31	0·9	0·3	050	31	1·1	0·7	283
0·15 a.g.	31	8·5	7·0	206	28	10·2	9·4	196	31	8·0	6·7	202	29	6·6	4·6	075	31	3·9	0·5	315	31	4·8	2·1	307
0·3 a.m.s.l.	31	8.5	7·7	212	28	10.5	9·7	200	31	8·7	7·1	202	29	7·1	4·9	087	31	4·3	0·4	317	31	3.9	1·7	301
0·6 ,,	30	8·1	7·6	215	28	7·8	6·7	206	30	7·3	5·8	204	29	6·6	4·1	117	31	4·8	0·7	295	31	7·0	3·4	320
0·9 ,,	30	7·2	6·9	220	28	5·2	3·0	243	30	5·2	4·1	200	26	5·9	2·5	130	31	5·3	1·5	278	31	7·2	4·1	308
1·5 ,,	29	4·9	3·8	236	27	4·0	2·7	291	29	3·6	1·1	215	25	4·6	2·2	286	31	6·2	4·3	273	30	7·6	5·9	297
2·1 ,,	25	5·2	3·0	292	26	4·9	3·6	320	25	3·9	2·7	321	25	7·9	6·7	294	31	7·8	7.1	285	27	8·3	7·4	293
3·0 ,,	19	7·8	6·7	377	26	7·0	5·7	329	20	8·0	7·1	334	23	10·7	9·4	292	29	11·9	11·1	286	25	12·2	10·9	297
3·6 ,,	15	9·4	7·4	335	25	8·6	7·8	333	4	10·5	7·6	323	16	11·1	9·7	287	28	14·0	12·9	290	21	13·6	11·7	298
4·5 ,,	12	8·0	7·2	330	24	8·7	7·7	328					9	7·4	6·2	280	23	13·9	13·4	288	16	13·5	11·9	308
5·4 ,,	7	6·3	5·3	324	22	8·5	6·9	318					5	7·4	6·7	275	14	13.5	13·1	292	14	16·0	14·5	308
6·0 ,,	6	6·6	5·6	318	22	9·3	6·6	306					1	13·0	13·0	272	10	11·9	11·5	290	14	17·1	15·6	301
7·2 ,,	2	8·0	7·8	326	20	9·3	6·9	289									2	10·7	10.5	268	12	17·3	16·5	294
9·0 ,,	1	8·5	8·5	215	15	7·8	5·9	250									1	8·0	8·0	260				

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I.S.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·3	308	31	2·6	1·9	318	31	1·7	0·2	327	31	0·3	0·2	066	31	1·7	1·0	267	31	2·8	1·4	277
1·15 a.g.	31	4·2	2·9	303	31	5·4	3·5	320	30	5·7	1·6	024	30	2·0	1·4	050	26	2·9	1·7	274	30	4·6	2·9	274
0·3 a.m.s.l.	31	3·9	2·8	305	31	5·0	3·3	322	30	4·4	1·0	013												
0·6 ,,	31	4·9	3·3	301	31	6·3	4·3	313	30	6·9	2·3	354												
0·9 ,,	31	4·6	3·2	299	31	5·9	4·3	310	30	6·7	2·9	323	30	1·9	1·3	048	26	2·7	1·5	269	30	4·5	2·5	273
1·5 ,,	31	5·4	4·1	294	31	6·1	5·1	301	30	6·9	5·4	297	30	3·3	1·1	286	26	3·7	2·6	250	30	4·1	3·4	263
2·1 ,,	28	7·1	6·1	303	31	7·0	6·1	292	28	8·2	7·2	289	30	5·3	3·1	257	26	4·9	3·7	246	29	5·5	3·9	259
3·0 ,,	28	10·0	8·5	304	26	9·3	8·5	288	21	10·9	10·3	285	25	7·3	4·4	266	24	7·4	5·8	266	28	7·1	5·7	267
3·6 ,,	24	11·9	9·4	306	24	11·2	10·2	291	4	10·6	9·1	295	20	8·4	5·0	258	20	8·3	6·3	264	22	7·1	5·2	261
4·5 ,,	21	13·3	10·3	304	23	13·8	12·9	293					10	8·1	4·9	254	11	9·0	5·9	248	14	8·3	6·8	266
5·4 ,,	20	14·1	13·2	304	21	16·3	15·4	299					7	8·3	7·3	225	5	8·7	6·5	220	8	9·9	8·9	252
6·0 ,,	20	15·7	14.9	300	21	16·5	15.6	299					4	6·5	6·3	227	4	10·9	8·2	219	6	12·9	11·4	257
7·2 ,,	14	26·1	18.0	295	19	19.3	18.6	298									1	13·5	13·5	280	2	12·7	10·6	261
9·0 ,,	6	23·7	23·0	288	8	20·1	18·6	281													1	8·0	8·0	295

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·3	311	31	1·0	0·6	273	31	2·6	2·1	320	31	0·9	0·3	351	31	0·6	0·4	192	31	1·5	0·8	219
0·15 a.g.	29	2·8	1·3	290	31	5·5	2·8	288	31	5·9	4·8	330	31	7·2	3·5	343	31	5·6	5·0	220	30	5·7	2·1	240
0·3 a.m.s.l.																								
0·6 "					31	6·0	2·6	313	31	6·1	5·0	328	31	7·5	4·2	344	31	3·0	2·7	220	30	4·1	1·6	239
0·9 "	29	2·7	1·2	287	31	7·5	5·0	329	31	6·9	6·0	321	31	8·5	5·8	344	31	7·1	6·0	233	30	5·8	2·1	274
1·5 "	29	2·0	1·9	253	31	7·5	6·1	318	31	6·4	5·7	316	31	7·9	6·4	328	31	6·0	4·6	275	30	5·1	3·0	288
2·1 "	29	4·7	3·4	255	31	8·4	7·4	309	31	7·6	6·3	305	30	8·3	6·9	312	31	5·9	4·8	320	28	5·4	4·2	301
3·0 "	25	6·7	5·4	262	30	9·3	8·0	299	27	7·3	6·7	291	24	8·7	7·5	301	29	6·6	5·8	333	23	6·8	6·1	320
3·6 "	18	7·0	5·0	265	25	9·9	7·8	297	25	8·5	7·5	287	15	8·6	7·6	290	24	6·4	5·8	336	21	7·8	7·1	324
4·5 "					11	9·1	8·5	300	22	9·6	8·5	291	2	6·0	6·0	296	18	6·2	5·4	340	16	9·6	8·2	328
5·4 "					7	7·6	6·2	310	20	11·9	10·2	301					11	5·7	4·3	351	11	9·9	8·8	346
6·0 "					4	8·9	5·7	327	17	13·1	11.2	300					11	6·0	3·7	339	9	10·8	10·0	342
7·2 "					1	11·0	11·0	305	12	15·3	14·7	297					5	5·7	0·7	285	3	11·2	10·7	336
9·0 "									3	18·8	18.3	287					1	7·5	7·5	290	1	7.5	7.5	280

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·5	165	31	0·8	0·3	002	31	2·6	2·1	306	31	1·6	0·3	039	31	0·9	0·0	255	31	1·4	0·7	217
0·15 a.g.	30	6·2	4·0	199	31	6·1	0·9	303	30	6·0	4·8	283	29	9·0	3·7	303	31	3·1	1·4	238	31	2·5	1·3	204
0·3 a.m.s.l.																	31	3·1	1·6	239	31	2·5	1·4	203
0·6 "	30	4·4	3·0	195	31	6·6	1·0	295	30	6·3	5·0	283	29	9·2	4·0	301	31	4·9	3·7	230	31	2·8	1·5	216
0·9 "	30	6·1	3·8	225	31	7·3	3·5	283	30	6·9	6·0	293	29	9·5	5·4	301	31	5·5	3·8	230	31	3·3	2·0	220
1·5 "	30	5·6	3·8	291	30	7·0	5·1	295	30	7·4	6·4	290	27	8·3	7·0	288	30	5·1	2·6	259	31	4·3	2·7	252
2·1 "	30	6·3	5·2	310	29	7·4	6·4	299	25	6·9	6·0	285	22	8·4	7·2	284	29	5·8	4.0	298	23	5·5	4·3	298
3·0 "	27	7·0	6·1	330	26	10·4	9·1	302	23	8·3	7·5	281	17	8·9	5·9	288	26	8·1	7·5	307	12	10·1	8·8	302
3·6 "	9	8·0	6·7	335	20	13·4	12·4	308	21	8·3	7·1	291	11	10·0	7·9	294	17	8·9	8·2	306				
4·5 "	3	7.0	6·1	335	10	14·8	13·9	322	21	11·4	10·3	301	3	14·7	11·9	321	10	9·1	8·6	309				
5·4 "	2	3.7	1.5	325	3	16·5	15·6	336	19	15·2	14·2	296	1	20.0	20·0	345	7	10·3	8·3	307				
6 0 "					2	15·5	15·5	335	18	16·4	15·5	299					1	4·0	4·0	225				
7·2 "					1	10·0	10.0	350	9	23.3	23.0	297					1	5·0	5·0	231				
8·0 "																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	1·3	091	31	2·0	1·4	111	31	2·1	0·5	265	31	3·2	2·3	136	31	3.9	2·5	236	31	3·8	3·1	223
0·15 a.g.	31	4·9	2·2	106	31	4·7	3·5	122	31	4·0	1·3	277	30	7·1	4·9	148	28	7·3	4·1	237	30	7·5	5·9	231
0·3 a.m.s.l.	31	4·9	2·3	106	31	4·0	3·0	114	30	3·9	1·1	273	30	6·3	4·4	141	28	7·1	4·0	237	30	6·8	5·5	234
0·6 ,,	31	4·4	2·0	098	31	4·7	2·8	184	31	4·2	1·9	281	30	7·0	4·1	162	28	7·8	5·4	239	30	7·7	6·3	230
0·9 ,,	30	4·1	0·5	062	31	5·2	2·6	187	31	4·3	2·3	284	30	6·1	2·9	191	28	7·8	5·8	249	30	7·6	6·4	233
1·5 ,,	29	4·5	2·0	308	31	4·8	0·9	265	31	4·5	3·4	293	30	4·7	2·5	282	28	7·4	6·3	262	26	5·9	4·7	241
2·1 ,,	26	5·8	4·8	300	31	5·3	3·4	312	31	5·2	4·6	296	30	6·0	4·7	297	28	7·5	6·2	261	25	6·2	4·8	270
3·0 ,,	22	7·0	6·6	302	27	7·7	6·9	309	30	7·6	7·1	303	26	7·3	6·0	307	28	7·2	6·2	289	24	7·0	5·5	284
3·6 ,,	18	9·1	8·8	300	23	9·4	8·8	303	25	8·4	7·9	305	4	6·7	4·8	340	26	9·1	7·8	305	22	7·7	6·6	285
4·5 ,,	8	11·2	10·6	301	13	9·3	8·9	305	18	9·5	8·8	305					25	11·5	9·9	307	22	9·2	7·4	291
5·4 ,,	6	9·6	9·0	301	7	7·6	5·8	303	11	12·9	11·3	303					24	13·2	11·7	302	20	11·9	10·4	295
6·0 ,,	3	13·5	12·9	291	4	6·0	5·9	330	7	14·6	12·0	303					24	14·3	12·6	302	18	14·7	13·3	295
7·2 ,,					2	5·5	3·8	307	3	13·7	13·2	309					24	17·8	16·5	295	18	18·8	17·6	297
9·0 ,,																	20	23·8	22·5	285	9	22·6	22·2	294

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·2	3·1	255	31	2·5	1·2	240	31	1·5	0·8	075	31	2·8	1·8	326	31	0·8	0·3	178	31	5·3	4·2	243
0·15 a.g.	30	7·4	4·8	259	29	12·4	6·7	231	31	6·6	1·5	045	30	4·2	2·4	314	31	5·9	1·5	052	31	6·9	5·5	242
0·3 a.m.s.l.	30	7·1	4·9	260	29	10·1	5·4	227	31	7·0	1·5	060	30	4·3	2·4	313	31	6·1	1·6	031	31	7·4	5·9	246
0·6 ,,	30	7·2	5·5	252	29	12·7	7·4	244	31	6·7	0·7	008	30	4·8	3·0	303	31	6·3	2·1	353	31	8·2	6·8	253
0·9 ,,	30	6·9	5·9	250	28	11·4	7·4	250	31	6·0	2·3	329	30	5·4	3·6	300	31	6·2	3·2	318	31	7·4	5·8	255
1·5 ,,	29	7·4	6·5	250	24	10·4	7·0	269	31	6·4	4·8	308	30	6·5	5·5	288	30	6·9	5·5	297	31	5·1	2·4	269
2·1 ,,	28	7·8	7·1	260	15	9·4	8·2	266	29	8·3	6·6	288	29	7·9	7·4	287	28	8·4	7·4	290	31	4·7	2·9	023
3·0 ,,	28	7·3	6·6	268	10	9·0	7·5	273	25	10·0	8·6	284	27	10·2	9·3	289	15	8·8	7·7	280	31	7·5	6·8	031
3·6 ,,	27	8·2	7·4	280	3	11·0	10·7	287	12	7·6	6·0	294	26	12·2	11·6	295	3	13·5	12·1	282	31	8·7	8·0	033
4.5 ,,	27	10·1	9·0	290					6	9·2	9·0	302	24	13·1	12·1	294	1	15·0	15·0	320	30	9·5	8·3	040
5.4 ,,	27	13·3	11·9	298					4	7·2	6·1	246	19	14·6	14·2	289					30	8·0	6·3	041
5.0 ,,	26	13·9	13·2	298					2	9·0	9·0	262	14	15·8	15·1	285					30	7·0	4·8	037
7.2 ,,	26	17·5	16·5	300					1	10·0	10·0	265	6	11·5	8·8	271					30	6·7	3·3	047
9.0 ,,	23	23·8	23·0	298									4	21·5	16·9	271					30	5·0	2·0	057

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·3	2·5	272	31	6·4	5·8	145	31	4·2	3·9	182	31	0·5	0·3	350	31	4·8	4·4	293	31	1·7	1·6	303
0·15 a.g.	31	4·9	4·1	269	31	7·0	6·4	145	31	7·4	6·9	186	31	3·5	2·8	330	31	6·8	6·6	294	31	5·0	4·8	307
0·3 a. m. s.l.	31	5·2	4·5	269	31	6·2	5·1	141	31	8·3	7·5	188	31	4·0	3·4	320	31	7·1	6·9	295	31	5·5	5·2	307
0·6 "	31	5·8	5·0	279	31	4·5	2·1	160	31	8·4	7·2	196	31	5·0	4·8	308	31	6·9	6·6	303	31	6·2	6·0	310
0·9 "	31	6·0	5·2	283	31	3·3	1·0	290	31	5·9	4·3	200	31	5·0	4·7	301	31	5·3	5·0	312	31	6·0	5·7	312
1·5 "	31	4·5	3·2	304	31	4·2	3·1	318	31	3·3	1·3	297	30	4·7	4·0	292	30	4·8	4·0	350	28	4·1	2·5	295
2·1 "	30	4·3	2·7	001	31	5·0	3·7	336	31	4·6	3·7	346	25	5·1	3·3	303	29	5·7	4·4	001	26	4·2	1·8	341
3·0 "	29	6·1	5·1	033	31	6·7	5·0	011	30	7·0	5·1	024	17	5·9	3·8	065	25	6·0	3·0	034	22	6·7	4·4	030
3·6 "	27	7·5	6·7	037	31	7·5	5·9	026	26	7·6	6·4	033	16	7·9	6·3	069	23	5·9	3·5	063	18	7·3	5·5	057
4·5 "	24	7·6	6·0	033	31	7·3	5·6	026	22	8·3	6·7	031	12	9·3	7·7	062	21	5·9	4·6	065	10	6·0	5·3	062
5·4 "	22	6·2	4·2	033	31	6·6	4·4	015	10	8·1	6·3	026	9	6·8	4·8	052	20	5·9	4·4	043	7	5·1	4·2	064
6·0 "	21	6·8	4·0	035	31	6·5	4·1	025	5	6·1	4·2	018	8	7·0	4·9	022	18	7·4	6·0	038	5	4·3	3·3	058
7·2 "	15	5·9	2·6	047	31	5·4	3·1	023					1	9·0	9·0	360	12	7·6	5·8	044				
9·0 "	7	4·4	1·7	064	30	4·7	2·1	042					1	10·0	10·0	005	9	6·9	5·5	044				

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130*				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	2·1	285	31	3·0	2·4	286	31	4·5	3·9	279	31	2·6	2·3	278	31	2·6	1·9	337	31	3·2	2·1	331
0·15 a.g.	30	4·8	3·9	287	31	4·8	4·0	292	31	6·6	5·8	278	31	5·1	4·3	282	31	7·5	6·0	343	31	5·0	3·9	341
0·3 a.m. s.l.	30	5·3	4·1	292	31	5·3	4·3	290	31	6·4	5·6	284	31	5·1	4·4	285								
0·6 "	30	5·1	4·0	295	31	5·4	4·4	292	31	5·8	5·1	289	31	4·9	4·1	286	31	7·5	6·1	346	31	5·0	3·5	345
0·9 "	30	4·7	3·6	296	31	5·1	4·0	293	31	5·3	4·6	292	31	4·4	3·5	287	31	7·6	6·1	353	31	4·3	2·7	341
1·5 "	28	3·2	1·5	302	30	4·1	2·8	302	31	3·6	2·6	299	30	2·9	1·3	294	31	6·6	4·5	349	30	4·0	2·6	324
2·1 "	26	3·7	1·5	048	25	3·6	2·0	015	31	3·2	1·2	005	27	3·1	1·7	062	31	5·6	4·0	331	30	5·1	3·6	311
3·0 "	23	5·3	3·2	085	20	5·4	3·7	065	31	5·8	4·4	069	22	5·2	3·7	077	31	4·7	3·4	302	30	6·0	4·5	292
3·6 "	21	4·8	2·5	092	13	5·6	3·4	068	31	6·6	5·1	069	16	5·2	3·5	074	31	5·3	3·9	285	30	6·4	4·7	290
4·5 "	17	3·1	0·7	021	12	5·7	2·3	051	31	5·2	3·0	046	7	5·4	4·0	062	31	5·5	4·0	292	30	7·3	5·9	304
5·4 "	14	3·4	1·8	018	8	6·6	3·9	059	31	5·8	2·5	032	3	5·2	1·8	021	31	7·9	6·4	312	30	8·0	7·1	312
6·0 "	12	3·7	1·1	328	8	7·4	3·5	052	31	5·9	2·6	027					31	9·2	7·7	321	30	9·0	8·2	314
7·2 "	11	2·5	0·8	053	7	5·6	3·8	093	30	5·2	2·9	033					31	10·6	9·3	307	29	10·0	9·6	312
9·0 "	3	3·7	1·4	137	6	6·3	1·4	083	29	5·3	3·0	076					29	11·7	9·9	296	17	11·5	10·2	290

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·9	3·0	318	31	2·5	1·8	306	31	2·7	0·6	345	31	4·1	1·2	310	31	2·7	0·5	328	31	3·2	1·0	032
0·15 a.g. .	31	4·9	3·6	311	31	7·0	5·5	319	31	6·4	2·8	350	31	5·3	1·3	290	31	5·3	1·7	332	30	8·3	3·3	010
0.3 a.m.s.l.									31	4·7	1·5	015	31	4·8	1·3	320	31	3·5	0·9	330	30	6·6	2·3	015
0·6 „ .	31	4·7	3·3	309	31	7·6	6·1	324	31	7·2	2·9	005	31	5·2	0·7	280	31	5·3	1·8	325	30	9·1	3·4	010
0·9 „ .	31	4·9	3·1	311	31	7·7	6·5	328	31	6·7	2·5	345	31	5·2	1·9	266	31	5·3	2·0	305	30	9·5	3·1	018
1·5 „ .	31	5·2	3·9	306	31	5·8	4·9	326	31	6·5	3·9	313	31	6·3	3·0	273	31	6·0	3·4	297	30	6·9	3·5	310
2·1 „ .	31	5·7	3·5	311	30	4·8	3·3	318	31	7·9	6·1	301	30	7·1	5·6	296	31	6·4	4·4	296	27	8·5	5·1	302
3·0 „ .	31	5·6	4·2	310	29	4·2	2·8	304	31	10·3	9·0	308	28	9·1	7·7	300	31	7·8	6·4	293	18	9·3	8·1	295
3·6 „ .	31	5·4	4·4	309	20	4·5	2·8	301	31	12·3	11·3	309	26	10·3	9·7	310	31	10·0	8·6	294	2	12·0	11·5	320
4·5 „ .	31	5·8	4·8	309	6	4·3	1·7	297	31	13·3	12·3	310	26	13·3	12·1	302	31	12·6	11·1	295				
5·4 „ .	31	7·3	6·5	324					31	14·0	12·9	307	23	15·6	14·2	294	31	14·5	13·5	296				
6·0 „ .	31	8·1	6·8	321					31	15·3	13·8	302	22	17·8	17·0	295	31	15·6	14·5	299				
7·2 „ .	31	9·6	8·1	325					31	18·5	17·0	294	17	50·9	49·0	298	31	18·8	17·9	295				
9·0 „ .	31	11·4	10·2	289					31	23·4	22·0	284	3	22·7	22·6	282	31	24·8	23·2	290				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·6	0·6	270	31	2·8	2·5	278	31	1·2	1·2	268	31	2·9	2·5	242	31	3·6	2·6	234	31	3·9	3·0	242
0·15 a.g. .	31	5·9	5·8	263	31	6·9	6·6	276	31	6·2	6·1	268	28	6·3	5·4	248	25	7·3	6·0	234	27	6·7	5·7	242
0·3 a.m.s.l. .													28	6·9	5·8	238	25	7·0	5·6	238	27	6·9	5·9	243
0·6 „ .	31	3·0	3·0	258	31	4·6	4·3	280	31	3·1	3·0	268	28	8·9	7·5	246	25	7·7	6·1	244	27	9·0	7·4	250
0·9 „ .	31	7·8	7·3	286	31	7·3	7·0	278	31	7·0	6·7	279	28	9·0	7·0	246	23	7·6	5·7	248	27	9·4	7·5	254
1·5 „ .	31	9·9	8·1	320	31	7·8	7·3	293	31	9·9	9·0	310	28	7·7	5·4	253	16	6·7	4·7	259	26	8·0	5·3	270
2·1 „ .	31	7·1	4·9	320	31	7·5	6·1	303	30	6·5	4·5	320	26	7·6	4·8	265	9	5·8	3·2	262	26	7·8	4·6	276
3·0 „ .	31	5·2	1·1	317	31	5·8	2·4	327	29	5·6	1·1	046	25	7·4	4·4	279	2	5·5	5·3	327	22	8·8	4·3	292
3·6 „ .	31	4·5	8·4	091	31	5·2	2·5	359	24	4·8	2·2	088	21	6·1	2·7	282	2	5·7	5·7	313	19	6·9	4·0	290
4·5 „ .	24	6·4	2·7	345	29	7·0	5·1	015	4	4·5	1·5	020	19	5·3	3·1	282					19	5·4	3·0	286
5·4 „ .	15	7·7	5·8	010	28	6·9	4·8	006	1	8·0	8·0	070	15	4·6	2·2	297					15	4·4	2·3	302
6·0 „ .	10	7·3	5·9	017	25	6·8	5.0	001	1	7·0	7·0	065	15	4·3	2·2	324					14	4·0	1·8	313
7·2 „ .	4	7·5	5·1	081	23	8·9	6·7	347					13	4·3	0·8	242					10	4·1	0·9	279
9·0 „ .	3	6·5	3·7	030	16	8·0	6·2	310					10	4·7	1·5	106					5	5·1	2·8	066

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11— Jyaistha 10, 1886 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·6	3·3	235	31	1·9	0·5	330	31	2·4	1·6	290	31	2·8	0·5	260	31	2·6	2·3	085	31	2·5	2·2	104
0·15 a.g. .	30	7·3	6·7	239	31	6·8	2·1	343	31	4·6	3·1	291	31	7·9	2·0	322	29	7·5	7·0	099	29	4·8	4·4	109
0·3 a.m.s.l. .	30	8·0	7·1	236													29	8·6	7·9	101	29	5·0	4·6	109
0·6 ,, .	30	8·9	8·0	241	31	7·6	2·3	007	31	4·9	3·5	291	31	8·4	2·6	325	29	8·1	7·5	109	29	5·2	4·6	110
0·9 ,, .	28	8·9	7·6	246	31	7·4	3·1	005	31	5·2	4·0	291	31	8·1	3·9	319	29	6·0	4·9	116	29	5·6	4·8	115
1·5 ,, .	20	6·4	5·5	263	31	6·7	4·5	348	31	5·4	4·4	290	31	6·9	5·0	306	29	4·9	1·0	157	23	4·5	2·0	113
2·1 ,, .	16	5·9	3·5	294	31	6·0	5·2	325	29	5·6	4·7	298	31	5·9	4·5	312	28	5·1	3·2	280	12	4·9	4·3	258
3·0 ,, .	13	5·6	2·6	305	31	7·1	6·2	304	27	6·3	6·3	297	30	6·2	5·0	311	25	9·2	8·1	294				
3·6 ,, .	2	6·3	5·3	349	27	8·3	7·3	295	26	6·7	6·7	299	17	6·6	4·8	305	19	11·8	10·7	292				
4·5 ,, .					20	8·6	7·7	302	23	8·3	7·8	306	4	5·9	4·8	309	10	10·7	10·2	277				
5·4 ,, .					13	7·0	6·1	313	15	11·3	9·9	304	2	7·5	7·5	320	5	8·5	7·8	286				
6·0 ,, .					8	6·7	6·7	320	11	11·5	10·3	299					4	6·3	5·4	276				
7·2 ,, .					4	5·5	4·5	322	8	12·1	10·5	289					1	12·0	12·0	240				
9·0 ,, .					4	13·3	9·3	311	4	10·9	9·3	269												

Station	RAXAUL				SILIGURI/BAGHDOGRA																SRINAGAR			
Time in I.S.T.	1730				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·9	0·3	130	31	2·2	1·8	076	31	3·1	2·3	099	31	3·2	1·9	076	30	2·7	1·9	063	25	0·2	0·1	327
0·15 a.g. .	31	4·1	1·2	132	29	5·4	4·9	078	31	4·0	2·7	111	31	4·0	2·4	080	30	4·5	3·4	076	25	1·8	1·2	145
0·3 a.m.s.l. .	31	4·3	1·1	138	29	5·5	5·1	079	31	4·1	3·1	160	31	4·2	2·4	082	30	4·5	3·8	080				
0·6 ,, .	31	4·3	1·4	127	29	5·4	4·9	088	31	3·9	2·9	106	31	4·1	2·3	095	30	4·9	4·0	095				
0·9 ,, .	31	4·0	0·8	135	27	5·2	4·4	084	27	4·0	2·7	095	31	4·5	2·1	096	30	4·5	2·5	091				
1·5 ,, .	31	4·8	1·1	271	24	3·3	2·0	090	21	4·0	1·0	116	27	3·9	0·6	250	22	3·8	1·6	200				
2·1 ,, .	31	6·8	4·1	282	20	4·1	1·5	272	14	4·1	0·7	296	24	5·1	4·4	274	12	4·6	2·7	184	25	1·8	0·3	048
3·0 ,, .	30	9·4	8·1	283	17	4·8	3·3	283	11	5·2	4·3	273	19	6·5	5·2	272	9	5·7	3·3	185	25	2·1	0·6	344
3·6 ,, .	21	11·3	10·3	285	16	6·0	3·3	288					17	7·2	6·8	278	3	7·2	6·7	277	25	3·1	0·4	344
4·5 ,, .	14	11·0	9·7	280	13	6·7	4·8	272					12	9·6	8·8	287					25	4·8	2·5	321
5·4 ,, .	7	8·2	6·0	280	10	8·9	7·6	270					11	9·7	9·1	273					25	7·1	5·5	305
6·0 ,, .	4	11·1	10·3	285	8	11·2	10·7	265					9	12·1	10·8	269					25	8·8	6·8	302
7·2 ,, .	1	16·0	16·0	260	3	11·8	11·4	256					6	13·5	13·2	265					24	12·8	10·0	294
9·0 ,,																					20	17·9	15·1	289

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	SRINAGAR				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I.S.T.	1730*				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	23	1·6	1·1	292	31	5·2	5·1	270	31	3·5	2·3	283	31	5·4	3·2	270	31	1·6	1·5	351	31	3·4	3·0	303
0·15 a.g.	23	2·6	1·3	277	31	9·4	9·1	273	31	4·5	3·1	281	30	9·1	6·0	265	31	7·1	6·9	336	31	6·3	5·6	301
0·3 a.m.s.l.					31	10·9	10·6	273	31	4·5	3·2	275	30	9·0	5·6	265	31	7·4	7·2	331	31	6·0	5·5	300
0·6 "					31	12·9	12·6	274	31	4·2	3·1	266	30	8·5	6·5	265	31	8·3	8·0	319	30	6·5	6·1	313
0·9 "					31	10·2	9·7	277	31	4·3	3·6	261	29	7·9	6·8	266	31	8·1	7·8	312	28	6·9	6·4	317
1·5 "					31	4·5	2·8	300	30	4·1	2·6	272	28	6·0	5·1	275	31	6·9	6·8	308	16	6·7	6·1	312
2·1 "	22	2·9	1·1	280	31	4·7	3·3	033	30	4·2	2·0	342	28	4·9	3·1	339	31	4·2	3·0	081	10	5·3	3·4	309
3·0 "	22	2·8	0·3	168	29	7·8	7·1	046	29	6·5	5·2	028	27	7·4	6·2	040	31	6·5	6·0	052	5	6·6	5·9	049
3·6 "	22	3·3	0·4	224	27	7·9	7·7	050	29	7·6	6·6	032	24	8·9	7·8	050	31	7·2	6·6	053	2	15·5	15·3	055
4·5 "	22	4·9	2·0	260	26	7·4	6·7	043	28	7·7	6·1	034	16	8·4	7·6	056	31	5·8	4·1	043	1	10·0	10·0	035
5·4 "	20	8·2	5·3	284	22	7·1	6·1	042	24	6·7	4·7	042	9	7·3	5·7	057	31	5·4	2·6	352	1	14·5	14·5	060
6·0 "	18	10·1	6·4	283	17	6·1	5·1	051	23	7·3	4·8	036	7	8·4	4·6	054	31	5·4	2·7	358	1	15·0	15·0	060
7·2 "	17	12·0	8·5	288	15	5·6	4·5	061	16	6·5	4·0	052	1	11·5	11·5	070	31	5·2	1·6	025	1	9·5	9·5	050
9·0 "	17	17·3	14·7	290	12	4·6	3·2	070	11	6·9	3·3	081					31	4·9	2·5	059	1	7·0	7·0	075

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·9	4·6	298	31	2·2	1·9	330	30	1·0	0·5	232	31	1·6	1·1	235	31	1·9	1·6	253	31	0·4	0·4	300
0·15 a.g.	30	8·9	8·7	299	31	6·4	5·8	322	30	4·1	2·4	267	31	5·7	3·9	249	31	5·5	4·0	260	31	4·0	3·4	313
0·3 a.m.s.l.	30	8·8	8·5	300	31	7·3	6·7	320													31	4·7	4·3	313
0·6 "	30	9·0	8·7	305	31	8·9	8·2	315													31	5·6	5·1	308
0·9 "	30	8.3	8·0	311	29	8·9	8·1	311	30	5·4	3·1	268	31	6·1	4·3	253	31	6·2	5·1	262	28	6·0	5·5	308
1·5 "	30	6·4	5·9	319	27	7·3	6·4	315	30	8·1	5·3	278	31	6·2	5·1	263	31	7·3	6·1	272	22	8·0	7·2	317
2·1 "	30	4·9	3·9	355	23	4·0	2·5	336	29	7·0	5·2	282	31	5·5	4·6	267	28	6·2	5·0	287	10	4·8	1·3	288
3·0 "	30	6·4	5·7	049	18	6·6	5·5	063	27	6·8	5·5	302	30	6·3	5·4	287	24	6·7	5·3	298	7	4·4	2·9	086
3·6 "	30	6·8	6·4	054	15	6·8	5·7	060	27	8·0	6·5	309	30	7·0	5·8	296	12	5·9	3·9	035	1	3·0	3·0	025
4·5 "	30	5·7	4·1	038	7	6·1	3·6	003	26	10·1	8·8	325	27	9·6	8·5	300	4	6·7	5·9	330				
5·4 "	30	5·6	2·6	008	4	4·3	1·2	020	24	11·9	9·2	306	27	11.5	10·6	302	2	9·7	9·6	329				
6·0 "	30	5·1	2·3	347	2	6·7	6·7	248	23	12·7	11·1	303	25	12·7	11·8	304	1	3·0	2·9	343				
7·2 "	30	5·5	2·0	012					21	14·2	13·0	302	21	15·8	14·9	304	1	9·5	9·5	31				
9·0 "	30	5·5	2·6	056					14	17·8	16·9	288	12	20·0	19·0	300								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·5	3·4	276	31	1·5	1·4	305	31	5·2	4·4	269	31	6·9	6·6	263	31	5·9	5·5	273	31	2·3	1·1	105
0·15 a.g. .	31	7·1	6·9	286	31	4·5	4·3	305	31	7·7	6·9	267	31	8.7	8.2	260	31	7·9	7·5	271	31	5·6	3·2	167
0·3 a.m.s.l. .	31	7·6	7·4	292	31	5·6	3·4	310	31	8·1	7·4	271	31	9·2	8·6	263	31	8·6	8·1	276	31	7·2	4·4	192
0·6 ,, .	31	6·6	6·2	308	31	6·1	5·8	310	31	8·7	8·0	272	31	9·2	8·2	269	31	9·3	8·7	281	30	8·8	6·3	216
0·9 ,, .	31	6·0	5·5	319	30	5·8	5·5	310	21	7·6	7·1	280	29	8·5	7·4	275	25	9·1	8·1	287	30	9·1	6·4	225
1·5 ,, .	30	7·0	6·0	339	27	6·9	6·2	323	16	6·6	4·8	286	26	6·9	4·8	284	19	7·2	4·7	286	26	6·2	3·9	242
2·1 ,, .	28	7·2	5·5	330	23	4·8	2·6	333	12	5·3	1·2	338	24	5·8	3·7	282	17	6·6	3·1	314	25	4·4	2·1	286
3·0 ,, .	28	4·6	2·3	005	20	5·2	3·2	083	10	4·7	1·7	327	22	6·0	3·0	310	17	7·3	3·4	321	24	6·3	5·5	002
3·6 ,, .	25	4.4	1.6	058	5	5·8	2·6	058	6	6·0	2·8	049	21	6·5	3·2	317	6	5·7	2·1	278	24	7·6	6·9	001
4·5 ,, .	22	5.8	3.6	032					3	4·8	2·2	011	20	7·5	4·9	334	4	5·3	1·5	016	22	8·5	7·4	006
5·4 ,, .	22	7.8	5.9	035					2	4·5	4·3	345	20	8·3	5·6	338	2	6·0	3·9	015	17	7·0	5·5	029
6·0 ,, .	22	8.7	6.5	033					1	5·0	5·0	311	20	9·2	6·8	339	1	5·5	5·5	055	16	6·3	4·5	029
7·2 ,, .	19	9.2	6.3	015									16	11.1	8.9	339					10	5·7	3·2	322
9 0 ,, .	4	7.1	5.9	331									9	11.7	11.1	329					7	4·4	3·7	316

Station	VIJAYAWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·2	1·3	154	31	3·3	2·7	151	31	3·6	2·7	275	31	4·4	3·7	212	31	4·1	3·0	255	31	2.0	1.4	212
0·15 a.g. .	31	4·5	2·1	153	30	6.6	5·6	165	30	5·3	4·0	272	31	5.3	4·7	205	30	4·5	3·0	246	31	3.8	2.5	206
0.3 a.m.s.l .	31	4·2	2·0	152	30	6·9	5·7	170	30	5·5	4·2	260	31	4.8	4·0	215	30	4·7	3·4	245	31	4.4	3.2	213
0·6 ,, .	31	3·8	1·1	169	30	6·5	5·0	172	30	6·0	4·8	237	30	4·6	4·0	243	30	5·1	4·1	244	29	4.7	3.7	227
0·9 ,, .	31	3·5	0·8	255	30	5·1	2·9	181	30	6·1	5·1	235	27	5·3	4·8	263	30	5·4	4·2	251	26	4.3	3.1	240
1·5 ,, .	31	4·1	2·8	328	30	3·2	0·9	333	30	5·7	4·1	240	28	4·9	3·4	285	30	4·8	3·0	292	25	3.6	2.5	270
2·1 ,, .	30	5·0	4·0	337	30	4·5	3·4	337	30	5·2	3·3	290	27	4·7	3·4	335	30	5·0	3·4	331	23	4.5	3.3	317
3·0 ,, .	27	6·7	5·1	347	29	6·5	5.1	338	30	7·7	5·7	332	24	6·3	5·8	358	29	6·5	5·4	347	22	6.4	5.6	345
3·6 ,, .	26	7·6	6·1	345	22	7·5	5·9	338	30	8·6	6·8	345	24	6·6	5.9	002	29	7·3	6·1	347	12	8.1	7.4	346
4·5 ,, .	26	6·9	5·2	342	18	7·0	5·8	358	30	9·1	7·2	350	23	5·9	5·0	013	28	7·4	6·1	342	6	5.3	3.2	003
5·4 ,, .	24	7·0	5·4	347	7	6·3	5·3	035	28	8·9	6·8	342	21	5·4	4·4	345	28	7·5	6·1	338	3	3.3	1.4	031
6·0 ,, .	23	7·0	4·4	345	5	6·5	6·0	040	28	7·8	5·5	345	21	5·7	3·9	326	28	8·0	5·7	332	3	4.2	0.8	292
7·2 ,, .	18	5.7	2.7	329	1	6.0	6·0	040	27	6·7	3·7	325	18	6·0	3·8	292	26	8.0	5.1	325	1	2.0	2.0	315
9.0 ,, .	9	5.7	4.1	339					20	6.8	4·3	333	15	5·9	4·9	258	17	7.9	3.8	303				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Ht in Km	n	V	v	D
		AGARTALA		
		1730 hr.		
10·5	1	12·0	12·0	230
		AHMADABAD		
		0530 hr.*		
10·5	26	18·3	16·6	291
12·0	24	19·3	18·5	280
14·1	15	18·6	17·5	272
16·2	10	18·1	17·5	274
18·0	2	8·5	7·6	287
		1130 hr.		
10·5	2	13·5	13·3	292
12·0	1	13·0	13·0	275
		1730 hr.*		
10·5	27	17·9	16.3	290
12·0	27	21·4	19·8	282
14·1	15	18·0	16·8	265
16·2	7	18·2	7·0	298
18·0	4	17·7	15·8	301
		ALLAHABAD/ BAMHRAULI		
		0530 hr.*		
10·5	1	25·0	25·0	210
		1730 hr.*		
10·5	12	27·1	24•3	25
12·0	5	26·1	25·3	266
		ANANTAPUR		
		0530 hr.		
10·5	3	6·7	5·7	066
12·0	2	8·5	7·9	078
14·1	2	11·7	11·7	101
16·2	2	15·5	15·5	083
18·0	2	15·0	14·9	109
21·0	1	10·0	10·0	065
		ASANSOL		
		0530 hr.		
10·5	2	15·3	15·2	216
12·0	2	22·5	22·5	211
14·1	2	18·3	16·6	202
16·2	1	15·0	15·0	180
18·0	1	6·0	6·0	080
21·0	1	7·5	7·5	090

Ht in Km.	n	V	v	D
		1730 hr.		
10·5	2	25·3	25·0	232
12·0	2	19·7	19·5	233
		BAHRAICH		
		1130 hr.		
10·5	3	30·8	30·6	247
12·0	2	38·7	38·5	237
14·1	1	51·5	51·5	225
16·2	1	40·5	40·5	225
		1730 hr.		
10·5	1	32·5	32·5	280
		BANGALORE		
		0530 hr.@		
10·5	13	4·2	1·4	050
12·0	9	5·4	3·0	100
14·1	7	9·2	8·9	088
16·2	4	12·1	12·0	086
18·0	3	11·3	3·8	066
21·0	1	8·0	8·0	070
		1130 hr.		
10·5	13	4·1	1·8	066
12 0	10	5·7	4·1	122
14·1	8	12·5	11·8	120
16·2	3	10·2	10·2	097
18·0	1	7·0	7·0	070
		1730 hr.@		
10·5	11	4·6	3·4	097
12·0	7	6·5	5·9	130
14 1	4	10·1	10·1	118
16·2	2	16·0	2·0	095
18·0	1	11·0	11·0	075
		BEREILLY		
		0530 hr.		
10·5	1	17·5	17·5	275
		BEGAMPET		
		0530 hr.		
10·5	4	4·0	2·0	319
12·0	2	6·3	5·2	071

Ht in Km.	n	V	v	D
		BHOPAL/BAIRAGARH		
		0530 hr.		
10·5	4	22·3	21·8	292
12·0	4	25·9	25·0	291
14·1	4	25·9	24·5	275
16·2	3	23·8	22·8	271
18·0	2	20·0	20·0	283
		BHUBANESHWAR		
		0530 hr.		
10·5	2	11·7	11·1	206
12·0	2	12·5	11·5	194
		BHUJ/RUDRAMATA		
		1730 hr.		
10·5	1	22·0	22·0	290
		BIKANER		
		1730 hr.		
10·5	1	25·5	25·5	285
12·0	1	20·5	20·5	280
		BOMBAY/SANTACRUZ		
		0530 hr.*		
10.5	26	8·7	6·4	295
12·0	21	8·0	6·1	279
14·1	10	6·5	2·9	266
16·2	2	3·3	1·5	273
		1730 hr.		
10·5	1	11·5	11·5	320
		1130 hr.*		
10·5	24	7·7	5·5	305
12·0	24	7·4	5·9	294
14·1	9	6·8	3·0	306
16·2	1	4·5	4·5	335
		CALCUTTA/DUMDUM		
		0530 hr.*		
10·5	31	17·4	15·5	245
12·0	30	19·5	17·6	237
14·1	29	18·0	15·8	238
16·2	26	13·4	9·3	233
18·0	10	9·3	1·4	150
21·0	3	10·0	8·2	097

Ht in Km.	n	V	v	D
		1730 hr.*		
10·5	30	16·9	14·5	245
12·0	29	17·1	15·2	238
14·1	28	15·5	13·0	239
16·2	24	11·9	7·3	241
18·0	7	11·3	8·8	212
		DIBRUGARH/ MOHANBARI		
		1130 hr.		
10·5	2	23·2	23·2	237
12·0	1	18·0	18·0	250
		1730 hr.		
10·5	4	16·3	13·0	252
12·0	1	22·0	22·0	215
		GADAG		
		0530 hr.		
10·5	4	4·5	2·7	013
12·0	4	4·4	1·0	358
14·1	1	8·5	8·5	090
16·2	1	2·0	2·0	130
		1730 hr.		
10·5	6	5·9	3·1	339
12·0	2	6·3	4·9	186
14·1	1	6·0	6·0	095
		GANGTOK		
		0530 hr.		
10·5	1	21·0	21·0	255
12·0	1	29·0	29·0	260
		GAUHATI		
		0530 hr.*		
10·5	22	22·7	21·6	249
12·0	20	25·3	24·3	249
14·1	16	22·6	21·8	252
16·2	10	19·7	18·1	249
18·0	1	19·0	19·0	265
		1130 hr.		
10·5	11	24·5	23·9	240
12·0	9	24·9	24·0	240
14·1	6	22·0	22·0	237

Ht. in Km.	n	V	v	D
16·2	3	10·5	10·1	220
18·0	2	9·5	4·8	195
		1730 hr.*		
10·5	24	26·3	23·9	249
12·0	20	26·0	23·7	252
14·1	16	22·4	21·0	252
16·2	12	15·7	14·5	240
18·5	6	11·5	9·3	250
21·0	1	10·5	10·5	080
		GOPALPUR		
		0530 hr.		
10·5	1	2·5	2·5	280
12·0	1	6·0	6·0	205
14·1	1	5·5	5·5	070
		1730 hr.		
10·5	13	8·8	6·6	242
12.0	12	8·5	5·1	215
14·1	8	9·5	4·9	155
16·2	6	9·7	7·4	112
18.0	4	10·3	7·3	105
21·0	1	1·5	1·5	165
24·0	1	21·0	21·0	290
		GWALIOR		
		1730 hr.		
10·5	8	26·3	22·6	280
12·0	4	30·9	27·7	254
14·1	2	26·5	26·5	234
		JABALPUR		
		1730 hr.		
10·5	1	20·0	20·0	280
		JAGDALPUR		
		0530 hr.		
10·5	1	9·0	9·0	325
12.0	1	5·0	5·0	315
14·1	1	6·0	6·0	030
		1730 hr.		
10·5	1	6·5	6·5	315

Table B—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

JODHPUR

0530 hr*

Ht. in Km.	n	V	v	D
10·5	15	26·5	25·4	277
12·0	11	29·0	27·9	273
14·1	3	31·0	30·8	278
16·2	1	13·0	13·0	280

1130 hr.

Ht. in Km.	n	V	v	D
10·5	4	33·9	33·2	294
12·0	1	37·0	37·0	280
14·1	1	37·0	37·0	285

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	16	31·8	30·3	295
12·0	10	32·5	31·7	283
14·1	4	31·5	30·1	275

MADRAS/MINAMBAKKAM

0530 h.*

Ht. in Km.	n	V	v	D
10·5	27	5·1	3·1	105
12·0	25	6·4	4·9	121
14·1	23	9·8	9·0	116
16·2	19	11·0	9·6	095
18·0	11	9·7	8·1	109
21·0	5	4·7	2·3	097
24·0	3	8·5	8·0	235

1130 hr.

Ht. in Km.	n	V	v	D
10·5	4	3·5	1·9	096
12·0	4	7·5	4·7	138
14·1	4	11·4	9·8	115
16·2	3	9.2	9·1	106
18·0	1	7·5	7·5	065

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	29	4·9	2 2	121
12·0	27	6·3	4 7	124
14·1	25	9·3	8·4	107
16·2	22	12·4	11·5	096
18·0	14	8·8	6·8	100
21·0	5	5·1	2 9	128

MANGALORE/BAJPE

1730 hr.

Ht. in Km.	n	V	v	D
10 5	3	7·2	5·5	084
12·0	3	7·2	5·9	094
15·1	1	15·0	15·0	095

MINICOY

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	5·5	5.5	095
12·0	1	15.0	15·0	100

1130 hr.

Ht. in Km.	n	V	v	D
10·5	4	3·6	2.9	047
12·0	2	8·5	7·3	089
14·1	2	14.5	14.5	081
16·2	1	16·5	16 5	080
18·0	1	11·5	11.5	080
21·0	1	14·0	14·0	090

1730 hs.*

Ht. in Km.	n	V	v	D
10 5	29	6.1	3.8	094
12·0	26	9·3	8·0	095
14·1	25	17·1	14·5	100
16·2	24	14·3	13.3	091
18·0	20	8·4	1.6	058
21·0	13	8.0	3·0	254
24·0	4	11.5	11·1	289

NAGPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	28	12.3	11.4	276
12·0	22	13·8	12·3	263
14·1	14	11·9	10·0	245
16·2	6	7·0	3·9	235
18·0	3	7·0	5·6	187

1130 hr.

Ht. in Km.	n	V	v	D
10·5	11	13·0	10·9	275
12·0	4	11·5	10·9	266
14·1	1	4·0	4·0	295

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	29	13.0	11·2	272
12·0	24	12·8	10·9	265
14·1	8	13.5	11·9	261
16·2	5	00·3	7·7	277

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10.5	30	29·9	28·7	280
12·0	27	32·6	27·0	275
14·0	24	31·7	30·7	277
16·2	17	15·6	13·7	272
18·0	16	10·5	6·9	284
21·0	6	7·5	3·9	104
24·0	4	9·9	4·0	081
27·0	1	6·0	6·0	265
30	1	6·0	6·0	210

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	31	29·9	28·4	289
12·0	26	34·0	31·5	284
14·1	23	29·2	27·4	279
16·2	19	18·7	17·4	275
18·0	15	10·2	8·3	270
21·0	7	5·9	2·8	038
24·0	5	8·8	3·9	113
27·0	4	6·0	3·7	102

POONA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	10	6·9	6·1	304
12·0	9	5·2	4·3	271
14·1	6	4·0	2·6	325
16·2	5	11·9	7·8	333
18·0	2	5·7	5·7	104

PORT BLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	9	6·5	3.0	115
12·0	9	10·8	8·1	115
14·1	7	15·1	13·3	095
16·2	5	15·0	14·4	097
18·0	2	11·3	11·1	105
21·0	1	3·0	3·0	030
24·0	1	12·0	12·0	085

1730 hr*

Ht. in Km.	n	V	v	D
10·5	3	9·0	7·6	099

RAIPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	15·5	15·5	283

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	16	21·4	20·6	294
12·0	12	24·6	23·4	287
14·1	6	20·5	18·5	289
16·2	2	16·3	15·7	281
18·0	2	9·0	4·2	323
21·0	1	6·5	6.5	060

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	14	20·4	18·1	292
12·0	12	26·9	26·3	297
14·1	6	21·2	20·0	311
16·2	4	17·4	9·9	312
18·0	3	11·8	11·8	266
21·0	1	5·0	5·0	070

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	10	5·7	4·4	093
12·0	9	8·1	7·7	100
14·1	3	9·8	9·3	108

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	6·1	5·7	079
12·0	6	7·7	7·1	099
14·1	5	13·4	12·9	093
16·2	3	11·7	11·1	080
18·0	3	11·2	10·5	075
21·0	3	12·3	10·6	091

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	31	6·7	4·7	079
12·0	31	8·7	7·4	094
14·1	29	15·7	15·3	093
16·2	23	17·0	16·2	087
18·0	20	9·6	7·3	089
21·0	9	8·4	3·6	269
24·0	1	7·5	7·5	145

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	10·5	10·5	080
12·0	1	10·5	10·5	080
14·1	1	13·5	13·5	070
16·2	1	14·0	14·0	090

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	30	5·9	4·0	101
12·0	30	9·8	7·9	098
14·1	29	17.4	16·8	097
16·2	27	14·4	13·4	098
18·0	19	8·6	4·8	098
21·0	11	7·2	3.9	291
24·0	3	10·5	7·0	243

UDAIPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	21·0	18·9	297
12·0	2	23·3	23·0	287

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	16·0	15·7	263
12·0	2	21·0	19·5	254

VERAVAL

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	12·4	12·0	303
12·5	5	11·5	11·2	281
14·1	1	11·0	11·0	260

VIJAYWADA/GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	4	5·1	4·4	226
12·0	3	4·3	3·6	199
14·1	1	8·0	8·0	085

1730 hr.

Ht. in Km.	n	V	v	D
10·5	2	6·0	5·5	345
12·0	1	8·5	8·5	070

VISHAKHAPATNAM

0530 hr*

Ht. in Km.	n	V	v	D
10·5	16	5·0	1·6	283
12·0	9	8·3	2·1	165
14·1	5	15·0	10·6	140
16·2	2	13·3	12·6	098
18·0	2	10·7	10·7	084
21·0	1	28·0	28·0	095

1130 hr.

Ht. in Km.	n	V	v	D
10·5	12	7·0	4·4	224
12·0	9	8·6	5·4	207
14·1	8	8·6	5·1	185
16·2	7	7·8	3·4	141
18·0	4	7·1	7·0	092
21·0	1	8·5	8·5	105

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	12	7·7	4·1	325
12·0	9	7·6	3·2	239
14·1	6	9·4	3·7	174
16·2	3	16·2	6·5	055
18·0	1	27·0	27·0	115
21·0	1	11·5	11·5	095

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in t list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 1 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July 1961	00 and 12	Fan type upto 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September 1954	00 and 12	Clock type upto 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-4 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours GMT.

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (996 mb)						ALLAHABAD/BAMHRAULI (988 mb)						BANGALORE (905 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	313·3	315	309	289·6	31	098	311·8	317	301	287·0	31	921	305·2	309	295	290·3
1000	31	014	..	..	..	..	31	—08	..	..	..	..	31	018	..	..	..	..
900	31	977	305·4	309	301	285·0	31	947	304·3	309	296	287·8	31	968	304·8	308	296	289·5
850	31	1486	300·6	305	298	282·2	31	1458	300·1	305	292	281·4	31	1478	299·7	302	294	286·0
800	31	2018	295·7	300	293	280·3	31	1985	295·3	300	288	279·3	31	2008	294·6	299	290	284·8
700	31	3160	286·5	290	283	271·6	31	3126	286·2	291	282	272·5	31	3147	284·4	287	277	278·6
600	30	4438	277·4	283	271	..	31	4398	276·2	279	271	..	31	4417	275·3	279	271	..
500	29	5896	268·1	272	262	..	31	5448	267·0	273	263	..	31	5869	267·2	273	263	..
400	29	6180	257·5	261	251	..	31	7565	256·8	265	252	..	31	7585	257·2	262	251	..
300	28	9738	243·7	249	238	..	31	9682	244·0	251	239	..	27	9704	243·1	247	236	..
250	28	11019	235·3	243	231	..	30	10916	235·7	239	229	..	21	10988	233·3	238	228	..
200	28	12523	224·9	231	221	..	29	12461	225·8	231	220	..	18	12475	221·6	229	214	..
175	28	13393	219·0	225	215	..	28	13338	220·4	226	212	..	15	13311	215·9	221	208	..
150	28	14370	212·8	219	208	..	26	14326	214·9	221	209	..	15	14287	209·5	218	200	..
125	25	15500	205·6	213	199	..	25	15465	208·7	215	203	..	9	15367	202·3	208	195	..
100	25	16826	200·2	206	195	..	22	16800	203·4	212	196	..	8	16721	196·7	203	190	..
80	23	18146	200·7	205	190	..	18	18130	204·3	215	199	..	7	17986	197·1	205	193	..
70	18	18935	205·1	208	199	..	16	18927	204·9	219	199	..	5	18803	203·0	208	199	..
60	13	19894	210·9	219	207	..	13	19831	208·7	218	201	..	..	..	..	..	..	..
50	9	21065	217·2	222	215	..	12	20960	213·8	224	206	..	..	..	..	..	..	..
40	6	22536	221·5	224	218	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1004 mb)						CALCUTTA/DUM DUM (1000 mb)						GAUHATI (996 mb)					
Surface	31	013	304·5	305	303	297·6	31	6	304·5	310	296	297·7	31	49	302·4	308	297	295·8
1000	31	052	..	..	..	..	31	8	..	..	..	..	31	17	..	..	..	..
900	31	982	297·5	301	293	287·1	31	949	299·2	305	293	291·0	31	948	296·7	301	292	290·6
850	31	1485	297·0	301	293	278·6	31	1452	296·3	301	291	286·3	31	1442	293·8	298	287	287·5
800	31	2013	294·4	299	289	276·1	31	1978	292·9	297	287	282·3	31	1966	289·9	295	282	282·7
700	31	3154	286·2	290	282	272·3	31	3113	284·5	289	278	274·6	31	3089	283·1	290	276	274·9
600	31	4428	277·4	281	273	263·0	31	4385	276·3	280	273	265·5	30	4362	276·0	281	272	..
500	31	5889	268·6	273	261	..	31	5844	268·8	276	262	..	30	5818	268·3	273	264	..
400	31	7613	257·6	262	253	..	31	7573	259·8	268	256	..	30	7543	258·9	265	253	..
300	27	9730	243·0	248	239	..	30	9712	246·4	253	241	..	24	9675	246·2	253	237	..
250	26	11011	233·9	239	230	..	29	11007	237·4	245	231	..	22	10975	237·9	247	230	..
200	25	12506	222·9	229	216	..	29	12523	226·1	234	220	..	21	12495	226·7	235	212	..
175	17	13381	217·3	227	211	..	28	13395	219·9	228	214	..	21	13350	221·2	229	211	..
150	16	14350	210·5	218	206	..	28	14376	213·0	221	206	..	20	14348	214·3	220	207	..
125	16	15462	204·3	212	198	..	28	15497	205·9	214	198	..	16	15447	207·4	212	199	..
100	15	16781	197·8	207	192	..	27	16832	200·0	213	192	..	13	16779	203·2	209	197	..
80	11	18061	198·3	208	191	..	16	18056	199·0	213	189	..	9	18078	198·8	205	191	..
70	8	18819	200·5	205	197	..	16	18839	200·2	213	192	..	8	18826	200·9	209	196	..
60	8	19757	205·4	212	199	..	11	19756	206·0	213	201	..	7	19770	204·1	213	198	..
50	7	20882	209·9	216	202	..	10	20837	210·0	216	201	..	5	20848	210·8	220	205	..
40	..	..	..	..	..	..	7	22187	213·7	220	205	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

May, 1964 (Vaisakha 11 –Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (976 mb.)						MADRAS/MINAMBAKKAM (1000 mb.)						MINICOY (1008 mb).					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	313·8	317	309	285·9	31	015	308·1	313	305	297·0	31	002	302·4	303	301	297·8
1000	31	0	..	..	..	..	31	017	..	..	..	..	31	071	..	..	..	..
900	30	958	306·9	311	303	282·0	31	963	303·0	306	297	289·7	31	1001	294·5	297	293	291·2
850	30	1467	302·0	307	297	278·3	31	1470	298·7	305	294	286·5	31	1496	292·0	294	289	286·5
800	30	2006	297·3	301	295	273·1	31	2000	295·1	301	290	283·0	31	2015	289·4	292	287	282·2
700	30	3144	287·8	291	285	269·3	31	3139	285·5	288	282	276·2	31	3140	283·4	286	280	274·9
600	29	4420	277·2	281	273	261·0	31	4407	275·8	279	273	268·0	31	4404	275·2	278	273	268·5
500	28	5878	267·7	271	263	..	31	5864	268·1	273	263	..	31	5854	267·3	271	265	..
400	26	7616	253·7	262	251	..	31	7587	258·4	263	254	..	30	7569	257·0	261	253	..
300	25	9745	243·8	251	237	..	29	9713	244·0	248	241	..	30	9671	241·8	247	237	..
250	25	10989	235·8	242	227	..	29	10992	233·7	241	231	..	29	10935	231·7	244	227	..
200	18	12518	225·8	232	222	..	27	12488	222·1	230	216	..	28	124·2	219·4	226	213	..
175	17	13347	220·2	225	215	..	26	13335	215·5	218	210	..	27	13238	212·9	221	207	..
150	17	14326	214·6	219	207	..	25	14302	208·2	214	201	..	27	14197	205·6	215	197	..
125	17	15458	209·2	215	202	..	24	15371	201·6	206	196	..	26	15262	199·5	209	191	.
100	15	16795	204·7	214	201	..	23	16710	195·1	204	190	..	25	16582	196·2	203	191	..
80	12	18147	206·3	217	197	..	18	18002	198·4	209	193	..	21	17860	198·9	209	190	..
70	11	18821	209·6	222	203	..	15	18792	202·5	206	196	..	19	18665	202·9	213	194	..
60	11	19883	210·3	220	200	..	11	19705	207·5	218	200	..	17	19575	205·6	213	201	..
50	11	21022	216·6	224	202	..	9	20730	209·2	214	203	..	13	20682	209·0	212	203	..
40	..	..	..	..	..	..	..	..	..	..	..	..	10	22050	212.0	215	208	..
30	..	..	..	..	..	..	..	..	..	..	..	..	5	23813	215·0	219	212	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NAGPUR/SONEGAON (965 mb.)						NEW DELHI /SAFDARJUNG (977 mb.)						PORT BLAIR (997 mb.)					
Surface	31	311	314·2	317	306	277·9	31	209	308·9	314	302	287·2	31	79	299·5	303	297	296·6
1000	31	018	..	..	..	..	31	00	..	..	..	..	31	051	..	..	..	..
900	31	951	308·2	312	303	280·1	31	950	303·9	311	297	282·2	31	971	294·7	297	292	290·4
850	31	1465	303·6	308	298	279·9	31	1456	299·4	305	293	280·5	31	1468	292·2	295	288	286·9
800	31	2002	298·5	302	293	278·1	31	1985	295·2	300	288	279·3	31	1986	289·0	294	285	283·5
700	31	3151	287·0	291	284	274·4	31	3123	285·3	290	279	272·2	31	3110	283·3	289	279	277·8
600	31	4425	275·3	278	271	..	31	4393	274·9	280	270	..	31	4376	276·0	279	273	270·6
500	31	5870	266·1	270	263	..	31	5835	264·9	270	257	..	29	5827	268·4	272	265	..
400	31	7578	255·6	261	240	..	31	7537	254·1	259	249	..	29	7559	258·3	264	254	..
300	31	9675	241·4	247	235	..	31	9621	240·5	247	233	..	25	9625	243·4	248	239	..
250	31	10970	232·1	241	224	..	31	10887	233·5	241	223	..	22	10961	232·6	243	224	..
200	31	12416	220·7	228	214	..	31	12395	225·7	233	217	..	20	12495	219·6	226	213	..
175	31	13264	214·3	223	206	..	31	13266	221·3	228	212	..	16	13308	212·1	218	205	..
150	31	14231	207·8	216	202	..	31	14258	216·1	222	209	..	16	14207	205·9	211	198	..
125	30	15312	202·5	208	193	..	29	15411	211·9	220	203	..	14	15308	201·1	209	196	..
100	30	16632	196·9	203	190	..	28	16784	206·0	213	204	..	13	16607	195·5	202	191	..
80	23	17966	197·8	203	193	..	26	18126	205·9	214	199	..	7	17888	195·8	203	191	..
70	18	18733	200·2	205	194	..	23	18940	208·3	218	200	..	5	19624	203·8	208	200	..
60	13	19746	203·9	209	199	..	20	19910	212·7	223	203	..	..	..	..		..	..
50	12	20734	209·2	213	205	..	18	21044	216·7	226	209	..	..	..	..	..	..	..
40	..	..	..	..	..	..	17	22487	221·8	235	215	..	..	..	..	..	..	..
30	..	..	..	..	..	..	12	24372	224·7	232	217	..	..	..	..	..	..	..
20	..	..	..	..	..	..	9	27116	228·8	237	220	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (837 mb.)						TRIVANDRUM (998 mb.)						VISHAKHAPATNAM (997mb)					
	No. of obs	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	24	1588	294.4	301	286	283.1	31	064	303.6	305	299	298.0	31	041	304·3	306	301	300·4
1000	24	034	..	..	..	..	31	055	..	..	..	..	31	017	..	..	..	..
900	24	963	..	..	..	..	31	989	296.1	298	293	291.9	30	958	300·3	305	297	291·6
850	24	1460	..	..	..	..	31	1487	293.2	295	291	289.1	30	1462	297·8	301	293	287·7
800	24	1982	290.6	294	282	277.1	31	2009	290.3	293	287	285.6	30	1990	294·1	297	289	283·7
700	24	3106	282.0	288	273	269.9	31	3140	284.3	288	281	276.9	30	3128	285 5	289	281	278·5
600	24	4358	271.3	277	265	..	31	4410	276.0	282	273	268.9	30	4399	276·2	280	269	..
500	23	5775	260.5	266	255	..	31	5866	268.2	271	265	..	30	5855	267 7	272	258	..
400	23	7444	249.2	257	244	..	31	7590	258.5	263	252	..	30	7577	259·1	263	252	..
300	22	9480	234.4	244	230	..	31	9709	243.2	248	236	..	30	9701	244·3	252	236	..
250	20	10722	227.9	234	221	..	30	10985	233.3	239	227	..	26	10984	235·6	243	231	..
200	17	12203	224.1	231	217	..	30	12474	221.1	228	216	..	21	12491	224·1	232	215	..
175	14	13073	223.3	232	217	..	29	13318	214.4	220	207	..	19	13342	217·7	226	209	..
150	12	14059	220.7	228	217	..	28	14284	207.8	215	199	..	19	14324	211·5	220	203	..
125	10	15248	217.8	224	215	..	28	15369	201.0	206	193	..	16	15421	205·1	212	197	..
100	9	16629	214·9	220	210	..	25	16275	196.4	202	192	..	15	16773	198·6	205	193	..
80	7	18008	212·6	217	209	..	22	17971	200.1	211	192	..	8	18036	197·9	209	191	..
70	6	18835	213·0	226	205	..	20	18755	202.5	216	193	..	7	18857	200·7	212	197	..
60							18	19667	206.8	219	199	..	7	19779	204·9	215	201	..
50							15	20789	210.9	223	204	..	6	20902	209·3	220	205	..
40							8	22174	212·5	217	209	..						
30																		
20																		
10																		

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

Means are not worked out for less than five observations at standard pressure surfaces.

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (998 mb.)						ALLAHABAD/BAMHRAULI (991 mb.)						BANGALORE (907 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	301.0	304	298	293.7	31	098	299.3	303	294	289.3	31	091	294.8	296	293	293.1
1000	31	040	..	..	..	..	31	013	..	..	..	..	31	072	..	..	..	..
900	31	972	299.7	305	294	284.6	31	948	301.1	309	293	284.2	31	993	294.5	296	293	292.5
850	31	1474	296.9	302	292	279.1	31	1451	297.6	304	290	281.2	31	1488	293.5	297	291	287.5
800	31	2002	294.0	298	290	275.8	31	1977	293.5	299	286	278.8	31	2015	292.2	295	289	283.7
700	31	3139	285.5	291	279	269.6	31	3113	284.3	288	280	273.4	31	3150	284.4	287	280	277.5
600	31	4411	275.5	281	272	259.0	31	4378	274.6	280	269	264.8	31	4420	275.4	280	272	269.7
500	31	5863	266.6	271	261	..	30	5822	265.6	272	263	..	31	5875	267.8	273	263	262.0
400	31	7574	256.6	263	251	..	30	7531	255.4	258	252	..	31	7595	257.3	262	249	..
300	30	9684	243.2	248	237	..	30	9633	243.1	248	237	..	29	9712	243.0	247	239	..
250	29	10960	234.2	239	227	..	30	10910	234.9	240	228	..	25	10987	233.4	238	229	..
200	29	12463	223.9	231	217	..	30	12419	225.7	233	221	..	23	12476	222.1	229	216	..
175	29	13328	218.0	227	211	..	28	13295	219.8	228	213	..	22	13319	215.5	223	209	.
150	29	14293	211.0	219	202	..	28	14276	213.3	222	204	..	21	14295	208.8	218	203	..
125	28	15408	204.2	212	195	..	27	15394	206.8	216	195	..	17	15391	203.2	212	195	..
100	22	16709	198.4	206	191	..	25	16747	203.1	209	197	..	17	16719	198.1	204	193	..
80	16	18000	200.0	208	193	..	21	18064	204.3	219	198	..	13	18031	199.5	207	195	..
70	13	18791	204.4	211	193	..	16	18878	207.1	222	200	..	13	18818	202.7	210	196	..
60	9	19755	210.7	217	201	..	13	19824	209.9	225	205	..	8	19738	205.4	214	197	.
50	6	20910	215.3	223	204	..	12	20974	216.8	227	207	..	7	20806	208.4	219	199	.
40	..	..	..	..	..	..	7	22453	222.4	231	218	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1005 mb.)						CALCUTTA/DUMDUM (1003 mb.)						GAUHATI (1000 mb.)					
Surface	31	013	300.4	302	197	296.3	31	6	299.3	302	295	298.1	31	049	297.7	303	295	294.8
1000	31	059	—	..	..	..	31	027	..	..	..	..	31	048	..	..	..	..
900	31	986	295.6	303	293	288.2	31	955	296.7	299	294	290.5	31	968	294.1	299	290	289.3
850	31	1486	296.0	300	291	277.5	31	1455	295.1	299	291	286.1	31	1461	291.7	297	288	283.1
800	31	2013	293.9	297	289	274.0	31	1981	292.5	299	288	282.3	31	1979	288.8	293	285	283.6
700	31	3150	284.9	289	281	271.0	31	3527	284.2	289	280	274.7	31	3096	281.6	290	277	276.2
600	31	4423	276.3	281	272	260.1	31	4355	274.5	281	271	267.4	28	4352	274.9	280	270	267.8
500	31	5876	267.6	273	265	..	31	5828	265.5	272	263	..	28	5800	266.8	273	262	..
400	31	7593	257.5	262	252	..	31	7551	258.2	263	254	..	28	7515	257.7	265	251	..
300	28	9704	242.1	246	235	..	31	9676	245.2	249	241	..	24	9643	245.1	252	239	..
250	27	10975	232.7	238	225	..	31	10958	236.6	241	231	..	21	10924	236.8	244	230	..
200	27	12461	221.7	232	216	..	31	12475	225.5	229	222	..	20	12445	226.7	232	219	..
175	24	13310	214.6	221	211	..	30	13348	219.7	224	214	..	18	13314	220.0	227	212	..
150	22	14264	208.3	215	203	..	28	14317	212.9	218	205	..	18	14300	213.9	222	207	..
125	20	15367	202.1	209	195	..	27	15449	205.8	210	198	..	18	14144	208.8	217	201	..
100	20	16675	197.0	206	193	..	27	16773	199.8	206	195	..	15	16730	202.5	207	195	..
80	13	17995	199.5	206	193	..	18	18049	198.4	205	195	..	6	17945	200.0	205	196	..
70	9	18786	205.7	217	199	..	17	18861	200.8	211	195	..	5	19878	202.0	210	196	..
60	7	19707	207.3	215	203	..	10	19744	202.2	207	198	..	..	..	..	..	..	..
50	6	20795	211.3	219	203	..	8	20801	206.5	214	201	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (977 mb.)						MADRAS/MINAMBAKKAM (1002 mb.)						NAGPUR/SONEGAON (968 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	302·0	305	298	287·2	31	015	302·5	304	301	302·5	31	311	302·0	305	296	278·6
1000	30	16	..	..	..	..	31	036	..	..	..	..	31	020	..	..	..	..
900	30	951	302·1	307	297	281·7	31	969	299·5	304	295	289·0	31	960	303·6	308	299	279·3
850	30	1455	299·6	304	293	276·5	31	1471	296·7	300	292	285·0	31	1471	299·9	305	293	277·5
800	30	1984	295·8	299	290	275·1	31	1997	293·3	297	289	281·7	31	1998	295·5	299	289	276·1
700	30	3123	286·5	291	280	270·0	31	3137	284·7	291	281	275·7	31	3137	285·5	289	282	272·1
600	29	4395	276·5	281	271	263·9	30	4398	275·0	279	271	265·7	31	4403	274·7	278	271	263·6
500	29	5849	267·0	271	261	..	30	5849	267·1	271	263	..	31	5849	266·3	271	261	..
400	29	7564	256·2	261	252	..	30	7568	257·7	262	254	..	31	7560	256·3	263	247	..
300	26	9670	243·0	247	238	..	29	9681	242·8	247	237	..	30	9667	243·1	249	238	..
250	26	10946	234·5	242	229	..	29	10954	233·0	239	227	..	30	10943	233·5	242	227	..
200	22	12448	223·5	229	216	..	28	12444	221·3	229	215	..	30	12437	222·5	231	217	..
175	21	13317	218·2	224	211	..	26	13272	214·4	222	210	..	30	13290	217·1	223	212	..
150	18	14317	213·0	218	207	..	26	14246	207·2	217	201	..	30	14325	210·5	218	205	..
125	14	15413	206·9	214	203	..	24	15298	200·7	207	193	..	30	15357	204·8	215	195	..
100	12	16693	200·7	211	199	..	21	16656	196·1	203	189	..	30	16700	199·0	211	190	..
80	7	18051	203·2	208	196	..	13	17974	200·0	214	197	..	18	18051	200·0	207	196	..
70	6	18793	205·0	210	200	..	11	18784	201·7	203	197	..	16	18825	203·4	209	197	..
60	6	19749	201·1	215	204	..	9	19730	206·9	207	203	..	11	19751	210·3	215	206	..
50	5	20875	216·2	224	211	..	8	20832	208·6	211	206	..	7	20861	214·6	220	209	..
40	..	..	..	..	..	..	7	22214	214·1	219	212	..	..	..	..	..	..	..
30	..	..	..	..	..	..	5	23036	217·4	222	213	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (978 mb.)						PORT BLAIR (998 mb.)						SRINAGAR (839 mb.)					
Surface	31	209	297·5	305	293	287·1	31	079	298·7	299	292	296·9	25	1588	282·8	290	279	281·2
1000	31	14	..	..	..	..	29	060	..	..	..	..	25	104	..	..	..	..
900	31	945	300·5	307	295	279·0	29	983	294·5	297	293	290·3	25	1030	..	..	..	..
850	31	1448	297·3	303	291	276·3	29	1477	292·4	298	290	287·1	25	1483	..	..	..	..
800	31	1973	293·4	298	287	274·6	29	1996	289·3	293	287	283·7	25	1984	282·9	289	277	276·7
700	31	3107	283·8	288	281	267·2	29	3119	282·7	287	279	276·7	25	3085	277·4	283	269	271·8
600	31	4370	274·2	279	271	256·5	28	4385	275·6	280	273	269·6	25	4311	269·6	275	267	..
500	31	5810	263·9	268	260	..	27	5841	268·1	273	263	..	25	5737	259·3	266	253	..
400	31	7502	252·8	257	244	..	27	7563	258·2	265	252	..	25	7389	247·2	253	240	..
300	31	9577	239·3	248	232	..	23	9676	243·6	247	236	..	22	9415	234·3	244	230	..
250	31	10837	232·2	241	226	..	22	10956	233·5	242	226	..	17	10694	226·5	232	221	..
200	31	12327	223·8	232	217	..	20	12487	220·9	227	213	..	14	12098	222·3	229	216	..
175	31	13198	219·3	226	213	..	17	13291	214·2	221	206	..	13	12957	221·7	226	216	..
150	31	14176	214·3	220	207	..	15	14250	207.2	215	199	..	9	13946	219·9	227	216	..
125	31	15302	209·4	221	201	..	14	15365	202·9	207	199	..	7	15092	217.4	227	214	..
100	31	16657	204·0	209	198	..	11	16662	197·3	207	191	..	6	16477	212.5	218	210	..
80	28	17984	203·3	212	196	..	7	17889	197.9	208	193	..	6	17856	210.0	212	207	..
70	28	18802	206·0	215	199	..	7	18677	202.3	214	194	..	5	18700	210.4	214	208	..
60	23	19749	210·2	219	201	..	6	19613	207.0	215	202	..	5	19637	212.6	215	211	..
50	17	20875	215·3	223	211	..	6	20742	211.0	220	202	..	5	20766	215.0	215	213	..
40	14	22297	219·9	228	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	12	24157	225.1	232	218	..	..	..	..	..	..	..	..	..	..	..	..	..
20	8	26776	229.0	236	224	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours GMT.

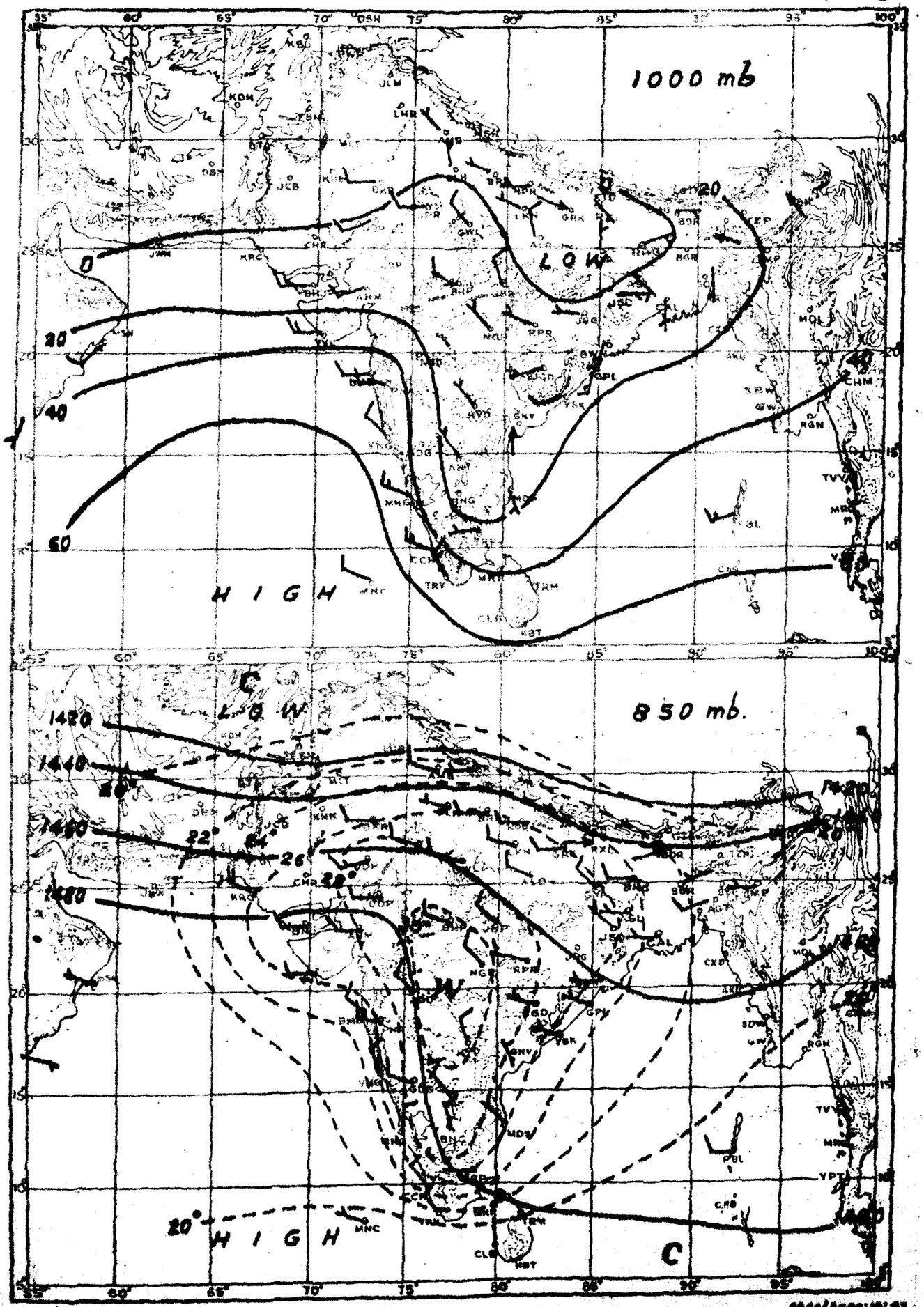
May, 1964 (Vaisakha 11—Jyaistha 10, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1000 mb.)						VISHAKHAPATNAM (995 mb.)											
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	299·7	301	299	297·3	31	041	302·1	304	299	299·1						
1000	31	66	..	..	..	..	31	33	..	..	..	..						
900	31	991	294·8	299	292	290·9	30	967	293·3	303	293	291·1						
850	31	1489	292·0	295	289	288·0	30	1468	296·7	300	291	284·8						
800	31	2009	290·0	293	285	284·0	30	1992	294·1	297	287	281·6						
700	31	3138	283·9	287	280	275·2	30	3135	285·5	288	276	275·6						
600	31	4406	275·2	279	271	268·2	30	4407	275·4	279	269	..						
500	31	5857	267·4	271	265	..	29	5858	266·7	271	263	..						
400	31	7575	257·3	260	254	..	29	7576	258·5	262	254	..						
300	31	9686	242·7	248	238	..	29	9702	245·3	259	239	..						
250	31	10957	232·6	237	226	..	29	10986	235·0	240	225	..						
200	31	12448	221·3	225	216	..	25	12486	220·4	230	212	..						
175	30	13285	214·8	219	210	..	23	13324	217·6	223	212	..						
150	30	14257	207·9	212	205	..	23	14322	212·0	218	208	..						
125	29	15339	202·1	209	195	..	20	15412	205·3	213	200	..						
100	26	16674	198·5	204	193	..	18	16772	200·3	207	193	..						
80	23	17982	200·6	209	191	..	14	18066	201·5	211	197	..						
70	21	18827	205·3	218	196	..	12	18843	203·0	211	195	..						
60	19	19710	210·3	227	201	..	9	19782	205·9	211	200	..						
50	15	20829	214·0	225	201	..	9	20848	209·9	216	203	..						
40	9	22197	215·1	223	207	..												
30																		
20																		
10																		

GIPN—S5—411 D.D.G.Obs. P/67—20-5-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **MAY 1964** Plate I

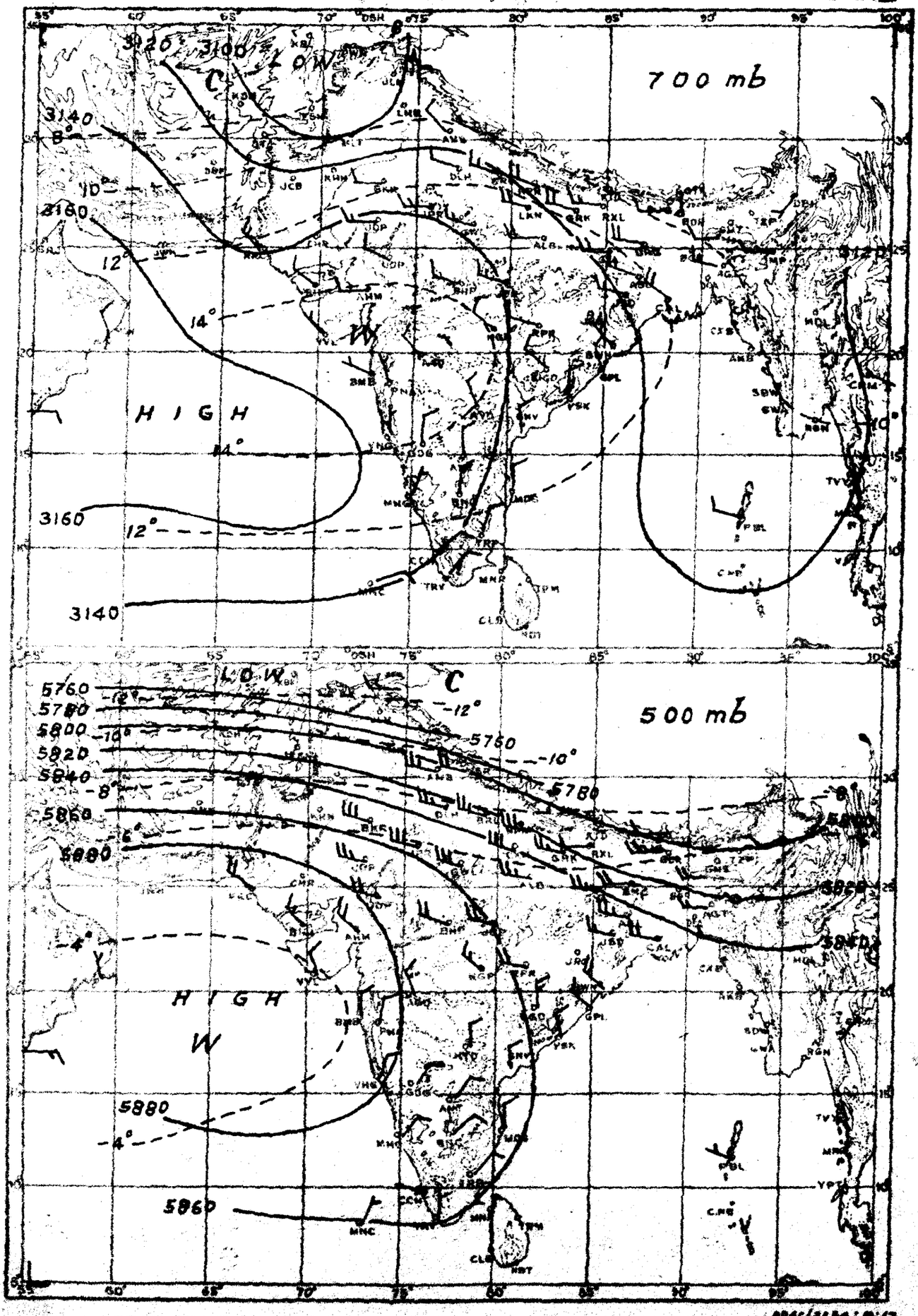


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

- - - - - Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. — MAY 1964 — Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres.

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

June

Published by authority of the Government of India

Chief features: —

(i) Rapid advance of the southwest monsoon over the country outside northwest India, despite its arrival over the extreme south Peninsula a few days later than normal date;

(ii) Fairly good activity of the monsoon in the Peninsula and northeast India;

(iii) Heavy rains in Assam leading to floods particularly during the first and third weeks;

(iv) Movement of a severe cyclonic storm in the Arabian Sea causing large scale distruction of life and property in Saurashtra and Kutch and along Kathiawar coast; and

(v) Moderate to severe heat wave conditions in Bihar State during the first fortnight.

The southwest monsoon advanced slowly and set in over south Kerala on 5th which is about five days later than the normal date. A trough of low pressure developed over the east central Arabian Sea off the Kanara coast on 6th. Moving northwards it intensified and concentrated into a depression with centre near Lat. 17°N and Long. 71°E by the morning of 9th. Thereafter, it moved northnorthwestwards and further intensified into a cyclonic storm of small extent by the next morning and into a severe cyclonic storm with a core of hurricane winds by the morning of 11th when it lay centred about 100 kms southwest of Veraval. It began to recurve northeastwards from the evening of 11th and crossed coast just north of Naliya during the day time of 12th. Thereafter it rapidly weekened into a depression by 13th and later into a low and finally broke up over the Western Himalayas by 14th. Under its influence the monsoon rapidly advanced northwards and set in over the entire west coast by 12th. Heavy rains also occurred in Gujarat State, Rajasthan and the Punjab(I). Some of the noteworthy amounts of rainfall recorded were : Trivandrum and Tiruchchirappalli 8 cm each on 6th, Mangalore 12 cm, Calicut 10 cm and Mercara 8 cm on 8th, Karwar 15 cm on 9th and 10 cm on 10th, Panjim(Goa) 9 cm on 9th, Porbandar 7 cm on 11th and Ratnagiri 10 cm and Veraval 8 cm on 13th. As the severe cyclonic storm was moving close to the Kathiawar coast the coastal observatories recorded very stong winds of speed 40-55 knots on 11th and 12th. At Naliya the maximum speed of the surface wind reached 73 knots from the east at 0830 hrs. I.S.T. on 12th. According to press reports, tidal waves as high as 15 feet and the cyclonic winds caused considerable havoc to public property along the Kathiawar coast. 27 persons including 20 on board three sailing vessels which were wrecked by the storm were feared to have been killed. A number of country crafts and a barge loaded with bauxite were also reported to have sunk in the stormy seas.

There was considerable thunder shower activity over Assam during the first week with heavy to very heavy rains occurring at a number of places. Silchar recorded 11 cm of rain on 4th, 12 cm on 5th, 13 cm on 6th and 15th cm on 7th, Goalpara 12 cm on 4th, Kailashahar 11 cm on 5th, Haflong 11 cm on 5th and 14 cm on 6th and Pasighat 11 cm on 8th. According to press reports, all the rivers in Assam rose in spate following the heavy rains. The hevy rains continued in Assam during the second week following the onset of the monsoon there. The monsoon advanced into lower Assam on 11th and steadily extended into the remaining parts of northeast India by 15th. Cooch Behar recorded a very heavy fall of 18 cm of rain on 11th. The monsoon activity was fairly good and sustained over northeast India during the second half of the month also. Some of the noteworthy amounts of rainfall recorded during this period were : Dhubri 15 cm on 17th, Pasighat 15 cm on 21st, Siliguri 14 cm on 22nd, Forbesganj 22 cm on 26th, Jalpaiguri 13 cm on 27th and Majbat and Patna 13 cm each on 28th. According to newspaper reports, the level of the Brahmaputra rose above the danger level at many places in Assam particularly during the third week inundating and damaging vast areas of paddy and jute crops. More than four lakh persons were also reported to have been badly affected by the floods during the month. In north Bengal also the Torsa and Teesta were in high floods during the last week.

A low pressure area formed over the northwest Bay of Bengal off the Orissa coast on 18th, moving northwestwards, it passed inland on 20th and persisted over northeast Madhya Pradesh and

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adjoining east Uttar Pradesh from 21st to 25th. Later it became unimportant. Under its influence the monsoon extended further into east Uttar Pradesh, Gujarat State and most parts of Madhya Pradesh by 25th. Some of the heavy rainfall reported were : Akola 11 cm, Ambikapur 10 cm and Faizabad 9 cm on 23rd, Ambikapur 11 cm and Gondia 10 cm on 24th, Brahmapuri 11 cm, Raipur 10 cm and Jagdalpur and Amraoti 9 cm each on 25th and Forbesganj 22 cm and Pachmarhi 20 cm on 26th. Another low pressure area developed over north Orrisa and adjoining Gangetic West Bengal and lay over Bihar Plateau and neighbourhood on the last day of the month. Under its influence, the monsoon was again quite active over the central parts of the country and in Orissa and Bihar State towards the end of the month. Patna and Pendra recorded 13 cm of rain each on 28th, Patna 9 cm on 29th and Raigarh 15 cm and Champa 9 cm on 30th.

After the initial spell of heavy rains which occurred at the time of the setting in of the monsoon, the monsoon remained weak to moderate for the rest of the month along the west coast However, in association with the movement of the two low pressure areas mentioned earlier, the monsoon activity increased appreciably over the Konkan and coastal Mysore during the second half of the month. The other parts of the Peninsula also received a few spells of showers with increased rainfall during the last week. Some of the noteworthy amounts of rainfall recorded in Maharashtra and Gujarat states were : Dahanu 13 cm on 26th, Mahabaleshwar 13 cm and Indore 12 cm on 27th, Bhira 18 cm and Mahabaleshwar 15 cm on 29th and Khandala and Porbandar 15 cm each and Mahabaleshwar 13 cm on 30th.

During the first week two feeble western disturbances moved from Afghanistan across the Western Himalayas causing a few dust or thunderstorms over many parts of northwest India. As mentioned earlier, the severe cyclonic storm in the Arabian Sea moved into the Punjab(I) as a low on 14th. Simultaneously a well marked trough in the westerlies also moved eastwards across the Western Himalayas. In association with these developments a spell of good rains occurred over northwest India. The rainfall was particularly heavy in Jammu and Kashmir. According to press reports, the water level in the Jhelum near Srinagar rose and the Srinagar-Jammu road was breached at some places disrupting traffic. Mainly dry weather prevailed over northwest India during the second fortnight except for the rainfall in the Western Himalayas during the last week due to the advancing monsoon current in the low levels.

Day temperatures were appreciably above normal in West Bengal, Bihar State, east Uttar Pradesh and the central parts of the country during the first fortnight. Moderate to severe heat wave conditions prevailed over Bihar State from 3rd to 13th and over northeast Madhya Pradesh and east Utter Pradesh from 11th to 13th. Thereafter it subsided as a result of the advance of the monsoon over the areas. According to press reports, 38 people died due to the heat wave in Bihar State.

The total rainfall during the month was in large excess in Saurashtra and Kutch and Rayalaseema in moderate excess in east Madhya Pradesh, and the Arabian Sea Islands and in slight excess in, Assam, Sub-Himalayan West Bengal and Vidarbha. It was normal in the Bay Islands, Bihar Plateau Jammu and Kashmir, west Madhya Pradesh the Konkan and costal Andhra Pradesh, in slight defect, in east Rajasthan, Gujarat Region, Madhya Maharashtra and the Mysore State and in large defect in Gangetic West Bengal, west Uttar Pradesh, and the Punjab(I). It was in moderate defect over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Gangetic West Bengal, Bihar State and Uttar Pradesh and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Gangetic west Bengal and below normal in Jammu aud Kashmir and east Rajasthan. It was normal over the rest of country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Saurashtra and Kutch and Rayalaseema and below normal in Uttar Pradesh. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Sub-Himalayan West Bengal, the Madras State, north Interior Mysore and the Arabian Sea Islands and below normal in west Uttar Pradesh. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I. S. T. of the date given in the succeeding column.

POONA 5,
The 6th November, 1965

R. ANANTHAKRISHNAN,
for *Director General of Observatories*.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	502·4	120	30·5	23·4	86	80	6·6	6·5
	+82·7		−0·5	−0·6	+3		+0·2	
2. West Bengal	271·3	77	34·9	26·9	79	72	5·6	5·6
	−79·3		+1·3	+1·0	0		−0·2	
3. Orissa	116·2	54	35·4	26·4	74	68	5·9	6·0
	−100·9		+0·7	−0·1	−1		+0·4	
4. Bihar	144·6	76	37·2	26·3	69	59	4·5	5·0
	−46·5		+2·0	+0·2	−2		−0·4	
5. Uttar Pradesh	63·3	52	40·0	27.0	52	39	2·7	2·8
	−59·5		+1·7	−0·3	−7		−0·5	
*6. Punjab (India) (Including Himachal Pradesh and Delhi)	21·9	42	40·3	26·7	46	30	1·9	2·7
	−30·7		+0·1	−0·3	+1		−0·1	
7. Jammu and Kashmir	49·5	102	25·7	12·5	53	44	3·3	4·4
	+1·1		−1·9	−1·6	−4		0	
Sub-Division								
1. Bay Islands	592·3	107	29·5	23·2	84	87	6·9	7·2
	+39·8		+0·4	−0·7	+2		+0·2	
2. Assam (Including Manipur, Tripura)	502·4	120	30·5	23·4	86	80	6·6	6·5
	+82·7		−0·5	−0·6	+3		+0·2	
3. Sub-Himalayan West Bengal	680·1	114	32·5	24·7	85	75	6·8	5·7
	+81·3		+0·6	+0·1	+1		+1·3	
4. Gangetic West Bengal	122·7	47	35·6	27·5	77	72	5·2	5·6
	−137·7		+1·5	+1·3	−1		−0·6	
5. Orissa	116·2	54	35·4	26·4	74	68	5·9	6·0
	−100·9		+0·7	−0·1	−1		+0·4	
6. Bihar Plateau	215·5	106	37·4	25·7	65	55	4·5	6·1
	+11·3		+1·8	−0·3	−4		−0·4	
7. Bihar Plains	106·0	58	37·1	26·7	73	62	4·4	3·9
	−78·0		+2·2	+0·5	−1		−0·4	
8. Uttar Pradesh (East)	80·5	63	40·0	27·3	55	41	3·0	2·8
	−47·3		+1·8	−0·1	−8		−0·5	
9. Uttar Pradesh (West)	37·5	32	40·1	26·4	48	34	2·3	2·8
	−77·9		+1·6	−0·6	−7		−0·7	
10. Punjab (India) (Including Delhi).	21·9	42	40·3	26·7	46	30	1·9	2·7
	−30·7		+0·1	−0·3	+1		−0·1	
11. Himachal Pradesh	62·1	..	32·4	25·9	60	39	1·9	2·1
	..		..	..	..	..	..	
12. Jammu and Kashmir	49·5	102	25·7	12·5	53	44	3·3	4·4
	+1·1		−1·9	−1·6	−4		0	
13. Rajasthan (West)	19·4	68	40·1	27·3	60	31	2·5	2·3
	−9·0		−0·7	−0·9	+4		+0·4	
14. Rajasthan (East)	61·4	82	38·7	26·3	52	34	2·7	4·2
	−13·7		+0·1	−1·2	−3		+0·2	
15. Madhya Pradesh (West)	138·5	103	38·1	25·9	58	42	4·3	5·3
	+4·1		+0·9	−0·2	−4		+0·3	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—(contd								
8. Rajasthan	40·4	78	39·4	26·7	56	33	2·6	3·4
	−11·4		−0·2	−1·1	0		+0·3	
9. Madhya Pradesh	180·8	115	37·7	26·1	60	46	4·6	5·6
	+23·9		+0·9	+0·1	−2		+0·2	
10. Gujarat State	114·6	123	35·5	26·5	80	63	4·4	3·7
	+21·6		−0.3	−0·5	+3		−0·1	
11. Maharashtra State	298·2	97	34·7	24·5	74	58	5·5	6·0
	−8·2		+0·5	−0·1	0		+0·2	
12. Andhra Pradesh	108·8	98	36·3	26·3	70	54	6·2	6·2
	−2·6		−0·2	−0·3	+4		+0·7	
13. Madras State	23·2	62	35·5	26·2	62	53	5·6	6·2
	−14·5		0	+0·3	−2		+1·2	
14. Mysore	233·3	82	31·0	22·5	81	66	6·4	6·7
	−51·2		+0·4	+0·5	+2		+0·5	
15. Kerala	346·3	53	30·0	24·1	88	81	6.9	6·9
	−312·3		+0·7	+0·3	+1		−0·1	
Sub-Division—(contd.)								
16. Madhya Pradesh (East)	234·6	126	37·3	26·3	61	50	4·9	5·9
	+49·1		+0·9	+0·4	0		+0·1	
17. Gujarat Region	101·4	75	36·8	26·3	76	51	4·6	3·5
	−33·3		+0·5	−0·3	−1		−0·4	
18. Saurashtra and Kutch	121·8	175	34·7	26·6	83	70	4·4	3·9
	+52·1		−0·9	−0·7	+6		0	
19. Konkan	614·5	97	31·0	25·2	86	82	6·1	6·0
	−17·6		+0·1	−0·3	+4		−0·1	
20. Madhya Maharashtra	160·8	89	34·7	22·9	74	54	5·3	6·2
	−19·2		+1·0	−0·2	+1		+0·4	
21. Marathwada	79·0	58	36·2	23·8	70	47	5·4	6·1
	−57·9		+0·5	+0·1	−1		+0·3	
22. Vidarbha	208·4	115	37·4	26·2	63	46	5·2	5·8
	+27·6		+0·3	+0·1	−3		+0·3	
23. Coastal Andhra Pradesh	108·8	104	35·9	26·8	72	60	6·3	6·0
	+4·4		−0.6	−0·6	+3		+0·6	
24. Telangana	109·2	74	36·9	26·2	67	49	6·0	6·1
	−38·1		+0·4	0	+3		+0·7	
25. Rayalaseema	108·3	159	35·9	25·3	71	50	6·2	6·5
	+40·4		−0·4	−0·3	+6		+1·0	
26. Madras State	23·2	62	35·5	26·2	62	53	5·6	6·2
	−14·5		0	+0·3	−2		+1·2	
27. Coastal Mysore	794·9	81	29·7	24·0	87	84	7·2	7·3
	−191·5		+0·4	−0·2	−1		+0·4	
28. Interior Mysore (North)	94·9	84	33·1	23·2	77	59	6·5	6·7
	−18·1		+0·4	+0·8	+3		+1·4	
29. Interior Mysore (South)	111·3	85	29·6	21·2	81	64	5·9	6·4
	−19·3		+0·3	+0·6	+2		−0·3	
30. Kerala	346·3	53	30·0	24·1	88	81	6·9	6·9
	−312·2		+0·7	+0·3	+1		−0·1	
31. Arabian Sea Islands	376·1	113	30·5	25·3	83	81	7·2	7·3
	+44·6		+0·1	−0·1	+1		+1·3	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Participation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Maya Bandar	29·8	..	32·2	4	24·2	..	22·2	8	253.0	594.4	..	155·0	23	22	..	17·2	11.1	..	0	27	0	0	16	0	0	0	0	0	0
Long Island	29·7	..	32·1	2	24·4	..	21·7	8	163.2	360·2	..	79·0	23	20	..	6·6	4·8	..	0	23	0	0	7	0	0	0	0	0	0
Port Blair	29·5	+0·4	32·1	3	23·2	−0·7	21·6	28	226·7	592.3	+39·8	117·6	27	21	−0·5	23·5	18·1	−3·9	1	25	0	0	10	0	0	0	0	12	0
Car Nicobar	30·4	..	31·6	19	24·7	..	21·6	12	155·6	358·9	..	69·0	9	16	..	7·5	5·2	..	0	21	0	0	5	0	0	0	0	0	0
Nancowry	30·0	..	31·4	2	25·3	..	22·3	7	53.1	163·1	..	39·0	7	13	..	12·8	10·3	..	0	18	0	0	4	0	0	0	0	1	0
Kondul	29·4	..	30·3	15	25·1	..	23·6	24	123·4	261·8	..	80·2	10	16	..	..	..	..	0	19	0	0	2	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	28·2	..	35·8	1	21·6	..	20·1	9	607·2	1432·8	..	145·8	21	27	..	4·7	5·1	..	0	27	0	0	3	0	0	0	0	0	0
Dibrugarh (Mohanbari)	29.3	−1.3	35.2	1	21·5	−1·9	19·3	9	135·2	548·9	+49·3	83·2	19	25	+5·4	6·7	5·0	+0·8	0	28	0	0	17	0	0	0	0	0	0
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	29.6	−0.5	35·1	1	22·5	−1·5	20·7	5	159·4	987·3	+375·3	168·0	4	25	+4·6	7·8	6·2		0	27	0	0	15	0	0	0	0	0	0
Sibsagar	31·2	−0·2	35·0	1	24·6	+0.1	22.3	9	71·8	301·5	−82·8	41·1	26	18	+0·9	5·8	5·2	+1.7	1	21	0	0	14	0	0	0	0	0	0
Gohpur	30·7	..	34·4	25	24·2	..	20·5	7	67·6	551·0	..	54·4	22	23	..	6·2	4·9	..	0	23	0	0	0	0	0	0	0	0	0
Majbat	30·5	..	34·2	1	23.8	..	22·1	17	73·0	814·0	..	134·2	28	20	..	7·6	4·1	..	0	21	0	0	7	0	0	0	0	0	0
Jorhat (Aerodrome)	32.2	..	35.0	26	24·3	..	21·7	9	48·1	283·8	..	44·6	20	17	..	..	..	..	0	22	0	0	19	0	0	0	0	0	0
Tangla	30.8	..	34·5	30	24·0	..	22·4	6,9	23·2	615·5	..	102·3	29	21	..	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Tezpur	30·7	−0·7	34·4	1	24·6	−0·1	22·6	5,9	58·8	286·6	−21·8	43·4	5	21	+5·0	5·8	4·7	+1·6	0	23	0	0	5	0	0	0	0	0	0
Golaghat	31·8	..	35·5	25	24·7	..	23.3	11	65·6	211·0	..	39·6	1	12	..	(f) 3·8	3·9	..	0	12	0	0	0	0	0	0	0	0	0
Rangia	32·4	..	36·0	26	24·1	..	21·8	5 day 10	(c) 66·9	418·8	..	64·4	26	23	..	(c) 6.2	4·7	..	0	25	0	0	8	0	0	0	0	0	0
Chaparmukh (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati	30·7	−0·9	35.0	1,2	..	..	..	..	..	294·0	−18 4	61·4	16	17	+2·3	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjos)	31·6	0	35·2	1	24·2	0	21·6	11	82·2	399·7	+87·3	69·6	22	20	+5·3	7·2	5·1	..	1	23	0	0	20	0	0	0	0	3	0
Dhubri (Rupsi)	30·9	..	35·0	1	23·9	..	21·3	13	161·0	1186·2	..	164·2	12	21	..	6·7	6·0	..	1	26	0	0	24	0	0	0	0	0	0
Dhubri	30·4	+0·6	36·1	1	24·7	+0·2	21·4	9	132·2	825·6	+213·2	152·0	17	20	+1.9	11·1	9·8	+2 9	0	22	0	0	0	0	0	0	0	0	0
Lumding	33·1	+1·0	36·5	29	24·3	+0·2	20·3	14	23·6	106·4	−138·7	29·0	29	10	−3·7	7·6	4·8	..	0	16	0	0	2	0	0	0	0	0	0
Tura	29·4	..	33·2	7	20·3	..	16·3	16	185·7	547·8	..	92·4	17	16	..	8·7	10·0	..	0	20	0	0	2	0	0	0	0	0	0
Haflong	27.1	..	30·8	29	20·6	..	17·7	5	167·5	623·7	+182·0	144·1	6	18	−0·3	..	..	..	0	23	0	0	6	0	0	0	0	0	0
Silchar (Kumbhirgram)	..	..	..	..	23·4	..	20·6	6	274·7	832·9	..	169·4	6	25	..	7·1	6·8	..	0	28	0	0	17	0	0	0	0	0	0
Silchar	28·7	−3·1	34·3	28	24·4	−0·2	21·2	6	317·4	895·4	+306·9	151·2	7	23	+1·7	3·0	1·8	−0·9	1	28	0	0	17	0	0	0	0	0	0
Imphal (Tulihal)	28·4	−0·3	31·1	25	19·8	−1.4	17·4	6	113·7	377·2	+98·9	45·9	16	20	+5·0	6·1	4·6	−2·3	0	24	0	0	12	0	0	0	0	0	0
Kailashahar	31·6	.	33·9	2	24·1	..	19·8	5	296·8	517·9	..	113·7	5	16	..	12·6	8·3	..	0	21	0	0	18	0	0	0	0	1	0
Agartala	31·8	+0·3	34·3	5	23·4	−1·3	20·6	7	249·8	383·0	−58·9	95·2	14	15	−2·9	14·5	11·8	+2·1	0	21	0	0	11	0	0	0	0	1	0
Sub-Himalayan (West Bengal)																														
Baghdogra	31·3	0	34·4	1	24·1	+0.1	22·4	2	83·9	825·5	+196·9	139·1	22	21	+0·9	16·2	15·2	+7·5	0	24	0	0	19	0	0	0	0	2	0
Jalpaiguri	30·7	−0·7	34·6	3	24·5	+0·2	22·8	1	133·8	792·2	+133·3	127·0	27	20	+0·9	11·7	9·2	+5·8	0	23	0	0	19	0	0	0	0	0	0
Cooch Behar	30·9	..	34·4	1	23·5	..	19·4	5	280·1	970·1	+111·8	184·3	11	24	+3·4	8·0	5·7	..	0	28	0	0	25	0	0	0	0	4	0
Balurghat	33·8	..	41·6	6,7	25·9	..	22·8	14	44·7	150·6	..	46·7	13	13	..	11·5	8·9	..	1	17	0	0	0	0	0	0	0	0	0
Malda	35·6	+2·5	43·4	7,8	25·6	−0·1	22·9	15	120.0	132·6	−116·8	44·8	23	8	−3.5	4·9	4·3	−4·4	0	10	0	0	8	0	0	0	0	0	0
Gangetic West Bengal																														
Berhampore	36·0	+2·3	44·3	9	26·4	+0·6	23·4	18	109·1	205·1	−40·5	40·4	18	12	−0·3	6·6	6·9	+0.9	0	14	0	0	2	0	1	0	0	0	0
Suri	37·0	..	43·9	8	26·5	..	23·2	3	..	107·5	..	25·4	24	10	..	..	10.1	..	0	13	0	0	2	0	0	0	0	0	0
Asansol	38·6	+2·0	45·4	13	27·0	+0·8	24·4	2	39·2	81·9	−159.6	25·5	30	8	−3·7	10·0	8·7	+0·2	0	16	0	0	15	0	0	0	0	0	0
Shanti Niketan	36·9	..	43·9	8	26·4	..	23·6	18	191.7	291·0	..	84·2	18	10	..	11·9	11·3	..	0	17	0	0	14	0	0	0	0	0	0
Krishnanagar	35·2	+1·4	41·1	8	26·9	+1.1	23·3	15	158·4	220·4	−42·0	68·0	28	10	−2·7	14·1	14·1	+6·1	0	13	0	0	12	0	0	0	0	0	0
Purulia	37·6	+1·4	43 7	8	27·5	+1·4	24·4	21	41·2	143·0	−50·4	59·4	15	7	−3·8	8·5	7·1	+0·2	0	8	0	0	0	0	0	0	0	0	0
Bankura	38.3	..	44.8	7	25·8	..	23·1	23 16	19·5	57·4	−210·1	11·6	18	8	−3·1	2.4	2.0	..	0	9	0	0	0	0	0	0	0	0	0
Burdwan	37.2	+3·0	43·0	7,8,9	29.4	+3·4	24·7	15	66·6	138·1	−129·1	50·0	30	11	−1·4	14·2	13·3	+8·3	0	11	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	34.8	..	38·2	8	26·8	..	23·1	17	69·6	163·5	..	44·6	30	9	..	..	..	..	0	13	0	0	10	0	0	0	0	0	0
Calcutta (Dum Dum)	34·5	+0.5	37·8	8	27·0	+0·7	22·8	14	44·5	132·6	−123·3	40·0	20	9	−2·7	16·9	13·3	+0.8	1	15	0	0	11	0	0	0	0	0	0
Calcutta	34·8	+1·2	38·4	8	27·5	+1·6	24.5	14	35·4	96·5	−200·4	28·0	20	9	−4·2	15·6	10·6	+3·7	2	14	0	0	10	0	0	0	0	2	0
Midnapore	37·0	+2·4	43·6	8	27·4	+1·2	22·7	1	88·0	131·0	−128·3	36·0	27	9	−3.4	10·7	9·9	+4·4	0	9	0	0	2	0	0	0	0	0	0

(R) Register not received. (f) Mean of 25 days. (c) Mean of 28 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storms	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal— (*contd.*)																													
Contai	32·9	+0·4	35·7	8	27·8	+1·0	24·2	1	18·6	67·4	—211·7	17·6	25	9	−2·5	20·3	16·0	+1·8	0	9	0	0	0	0	0	0	0	0	0
Sagar Island	32·4	+0·4	33·8	12	28·4	+1·2	24·7	21	20·5	75·9	−219·5	22·8	20	6	−6·1	32·3	32·9	+11·7	1	10	0	0	2	0	0	0	0	0	0
Sandheads	31·7	..	36·5	11	27·6	..	24·1	1	47·2	171·0	−28·9	34·6	20	11	+1·6	..	..	..	0	13	0	0	2	0	0	0	0	0	0
Orissa																													
Baripada	37.9	..	44·8	8	26·8	..	24·9	20, 30	97·8	143·8	..	58·4	28	6	..	6·4	5·6	..	0	13	0	0	20	0	0	0	0	0	0
Jharsuguda	36·6	−0·9	44·8	8	26·7	+0·1	22·3	20	63·6	210·3	−11·8	80·0	30	9	—1·5	10·3	9·0	−1.0	0	12	0	0	11	0	0	0	0	1	0
Keonjhargarh	35·3	..	41·7	7,8	25·3	..	22·8	29, 30	89·1	153·2	..	40·3	10	6	..	10·9	8·8	..	0	8	0	0	0	0	0	0	0	0	0
Balasore	35·5	+1·5	41·4	7	25·6	−0·6	22·6	1	93·0	138·0	−94·9	45·0	24	7	−4·1	16·1 (c)	14·0 (c)	+6·3	0	11	0	0	10	0	0	0	0	0	0
Sambalpur	37·7	+1·3	45·2	10	..	..	..	..	36·7	259·3	+3·0	68·1	27	11	+0·3	10·9	7·3	+0·9	0	11	0	0	0	0	0	0	0	0	0
Angul	37·2	+1·7	43·7	8	23·8	−2·3	17·4	1	79·5	61·3	−155·6	24·4	25	6	—5·6	8·9	9·4	+1·0	0	9	0	0	0	0	0	0	0	0	0
Cuttack	36·6	+1·3	43·4	14	27·5	+1·1	24·3	19	17·2	59·6	−193·1	27·8	19	4	—7·4	9·4	8·3	+3·5	1	9	0	0	7	0	0	0	0	0	0
Chandbali	35·1	+0·7	41·0	14	25·9	−0·6	24·0	1	29·8	62·2	−159·8	18·6	1	8	—3·3	19·0	14·0	+1·1	0	9	0	0	0	0	0	0	0	0	0
Bolangir	37·2	..	44·8	7,8	26·1	..	21·8	20	13·2	212·8	..	62·2	21	9	..	10·8	11·9	..	0	15	0	0	2	0	0	0	0	0	0
Phulbani	34·2	..	41·3	9	24·6	..	22·2	21	23·4	88·4	..	15·1	23	11	..	8·6	4·4	..	0	15	0	0	9	0	0	0	0	0	0
Titlagarh	37·1	..	44·2	8,10	26·3	..	22·6	19	51·6	257·6	..	62·2	21	9	..	8·4	6·1	..	0	12	0	0	0	0	0	0	0	0	0
Bhubaneswar	35·7	+0·4	42·7	9	26·9	+0·5	23·9	19	106·0	122·2	−100·3	39·6	27	6	−6·4	18·1	17·4	−1·7	0	12	0	1	13	0	0	0	0	1	0
Puri	31·8	+0·1	35·6	16	27·9	+0·7	24·9	1	52·6	73·7	−115·8	32·2	19	7	−1·1	31·0	26·7	+7·2	0	10	0	0	2	0	0	0	0	0	0
Gopalpur	32.1	0	34·6	16	26·9	+0·1	24·3	22	15·6	59·3	--79·4	29·7	22	3	−4·6	24·1	20·7	+3·6	0	7	0	0	3	0	0	0	0	0	0
Koraput (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateu																													
Dumka	36·5	+2·0	43·4	8	26·8	+1·0	23·5	2	88·7	190·5	−63·5	48·2	22	12	+0·1	10·6	7·0	+2·5	0	15	0	0	5	0	1	0	0	0	0
Daltonganj	38·8	+0·9	44.0	12,13	24·8	−2·4	18·6	22	189·5	225·8	+72·9	42·2	30	10	+1·8	9·4	5·2	−2·2	0	12	0	0	6	0	0	0	0	0	0
Hazaribagh	..	..	..	..	..	..	..	..	53·9	182·7	−28·9	36·1	21	13	+2·3	11·1	8·7	—2·2	0	15	0	0	15	0	0	0	0	0	0
Dhanbad	37·4	..	44·0	7	27.1	..	23·5	15	78·4	131·4	..	23·0	28	11	..	4·8	6·6	..	0	12	0	0	2	0	0	0	0	0	0
Ranchi	35·3	+2·0	41·9	6,7	23·9	−0·2	19·8	20	100·1	193·6	−24·6	25·0	23	13	+1·6	7·0	5·8	−3·1	0	13	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	34·6	..	40·5	7	24·3	..	21·5	15	83·7	175·9	..	34·6	29	12	..	12·6	6·3	..	0	13	0	0	11	0	0	0	0	2	0
Jamshedpur	38·3	+2·2	44·4	8	26·6	−0·1	21·6	16	76·5	271·5	+80·8	90·4	28	13	+2·3	9·7	7·8	+0.4	0	14	0	0	4	0	0	0	0	0	0
Jamshedpur(P.B.O.)	37·8	..	44·4	8	27·4	..	23·2	16	112·6	346·0	..	143·1	28	11	..	9·9	7·6	..	0	16	0	0	16	0	0	0	0	0	0
Chaibasa	38·0	+1·9	44·3	7,8	26·8	+0·6	21·6	16	128·2	228·8	+30·9	75·0	25	9	−1·7	7·1	5·1	+0·8	0	11	0	0	2	0	0	0	0	0	0
Bihar Plains																													
Motihari	36·6	+2·4	41·3	8	25·9	+0·5	21·8	15	13·7	71·1	−150·1	18·7	27	6	−3·4	3.4	2·7	−5·0	1	7	0	0	2	0	1	0	0	0	0
Forbesbganj	34·5	..	40·8	5,6,7	25·6	..	24·0	27	11·0	420·8	..	219·0	26	9	..	14·3	11·7	..	0	11	0	0	8	0	0	0	0	0	0
Darbhanga	36·5	+2·7	42·2	5	26·6	+0·8	24·1	22	10·5	115·7	−76·8	37·8	15	5	−3·8	8·0	9·0	+2·1	0	5	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	61·7	−133·9	22·4	23	4	−4·1	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Chapra	39·2	..	44·1	12	27·4	..	25·0	17	10·6	12·4	−138·2	10·6	17	1	−6·2	9·4	7·6	..	1	2	0	0	3	0	1	0	0	0	0
Purnea	35·1	+2·1	42·1	6	25·6	+0·4	23·4	14	44·2	81·8	−178·0	22·6	30	7	−4·8	11·6	8·9	+4·1	0	11	0	0	0	0	0	0	0	0	0
Patna	38·0	+2·3	43·9	5,12	27·6	+1·0	24·0	19	87·8	348·6	+167·2	137·4	28	7	−1·0	8·6	9·0	+1·0	0	8	0	0	5	0	0	0	0	0	0
Patna Aerodrome	37·9	..	44·3	12	26·4	..	22·8	19	96·0	215·3	..	107·2	28	5	..	8·9	6·3	..	1	7	0	0	5	0	1	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	7·6	−149·9	3·7	19	1	—6·5	..	..	..	1	7	0	0	0	0	0	0	0	0	0
Bhagalpur	37·2	+1·9	43·4	8	26·7	+0·3	24·2	16	48·6	105·0	−102·6	42·4	21	8	−0·7	11·4	9·0	+0·8	0	11	0	0	12	0	0	0	0	0	0
Sabaur	36·9	+2·2	42·8	7,8	26·6	+0·4	25·0	18	60·2	121·2	−35·8	30·4	24	10	+2·2	12·9	10·5	+1·3	0	13	0	0	9	0	0	0	0	0	0
Jamu	38·8	..	45·6	4	26·2	..	21·5	19	90·2	250·9	..	125·2	15	8	..	5.9	4·1	..	0	9	0	0	0	0	0	0	0	0	0
Denri	39·4	..	45·3	12	28·7	..	25·0	24	64·6	94·2	−42·2	60·2	24	6	−0·9	9·1	6·1	..	0	7	0	0	2	0	0	0	0	0	0
Gaya	39·3	+1·8	45·2	13	27·7	+0·3	23·5	20	99·6	146·6	−17·2	33·4	24, 27	9	+1·5	13·6	10·0	+0·2	0	13	0	0	14	0	0	0	0	3	0
Uttar Pradesh (East)																													
Kheri	39·6	+1·9	44·4	4days	27·3	+1·0	22·5	23	62·2	115·4	−19·3	50·7	2	5	−1·3	8·4	5·7	+0·6	0	6	0	0	5	0	0	0	0	0	0
Bahraich	39·6	+2·5	44·9	13	27.8	+1·1	25·6	9,7	67·7	75·3	−82·2	40·1	23	6	−0·1	13·9	9·5	+4·0	0	6	0	0	4	0	1	0	0	0	0
Nautanwa	38·5	..	44·4	7	25·3	..	20·8	18	60·6	128·8	..	54.6	18	7	..	11·6	8·3	..	0	7	0	0	0	0	0	0	0	0	0
Hardoi	40·4	+0·8	43·8	11	26·4	−1·2	23·4	28	4·4	8·6	−115·7	4·2	29	1	−3·1	12·0	8·6	+1·2	1	2	0	0	0	0	2	0	0	0	0
Gonda	39·7	+3·1	45·0	4days	27·0	+0·3	24·2	1	54·1	56·5	−129·2	23.3	23	5	−3·3	10·6	8·1	+0·1	0	6	0	0	1	0	0	0	0	0	0
Lucknow	39·0	+1·1	43·0	12	26·5	−1·1	23·3	27	184·4	184·4	+71·1	111·0	28	3	−2·5	3·7	2·5	−1·7	0	4	0	4	0	0	2	0	0	0	0
Lucknow (Amausi)	39·8	+1·9	43·6	12,14	26.6	−0·6	22·2	1	115·0	122·3	+9·0	69·0	22	4	−1·5	15·9	10·5	..	2	4	0	0	5	0	0	0	0	2	0
Faizabad	38·8	..	43·7	12	25·9	..	22·2	1	91·4	157·5	..	90·8	23	5	..	6·2	4·1	..	0	6	0	0	4	0	0	0	0	0	0
Gorakhpur	39·7	+3·6	44·4	14	26·3	+0·1	22·5	18	14·5	57·9	−133·9	30·1	16	5	−3·3	4·5	2·3	−2·2	1	5	0	0	0	0	0	0	0	0	0
Kanpur	40·3	+1·0	43·7	12	28·4	+0·1	25·1	28	40·1	40·1	−40·9	25·4	27	2	−2·5	17·4	12·7	—0·5	0	3	0	0	2	0	2	0	0	0	0
Kanpur (Aerodrome)	41·0	..	44·7	31	28.9	..	26·4	1,23	94·0	94·0	..	55·9	26	3	..	..	..	..	0	3	0	0	4	0	3	0	0	0	0
Sultanpur	39·6	..	45·0	12	26·9	..	23·9	28	71·0	71·0	..	40·2	24	2	..	8·0	5·9	..	0	3	0	0	3	0	0	0	0	0	0

(R) Register not received.

(c) Mean of 28 days.

Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from norma	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Azamgarh	39·8	..	45.4	12	27.2	..	24·6	1	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	40·8	+1·4	45·0	14	28·2	—0·1	25·2	1	31·8	35·2	—52·2	10·8	23	4	—3·8	11·5	7·0	—0·2	0	6	0	0	3	0	0	0	0	0	0
Ballia	38·4	..	44·0	12	23·9	..	20·5	22	61·0	143·4	..	65·2	22	7	..	9.4	6·6	..	0	7	0	0	1	0	0	0	0	0	0
Banda	41·3	..	45·0	2,3	28·6	..	25·5	1	85·6	86·6	..	49·8	22	3	..	6·6	4·1	..	0	3	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	40·4	+1·1	45·3	11	28·5	+0·2	25·8	23, 24	44·2	45·6	—82·4	22·0	29	3	—1·3	10·2	6·7	—1·8	0	9	0	0	8	0	1	0	0	0	0
Varanasi ((Babatpur)	40·3	+1·5	45·0	4,12	28·1	—0·2	24·6	24	36·3	117·3	+15·7	65·6	24	5	+0·6	12·3	8·8	—3·3	0	8	0	0	5	0	0	0	0	0	0
Varanasi	40·0	+1·7	45·3	12	26.5	—1·3	21·5	1	33·0	108·3	—7·8	52·0	24	4	—2·0	8·9	6·1	—0·3	0	7	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	26·2	..	29·3	11	17·1	..	14·1	12	103·0	207·8	..	40·7	20	11	..	..	..	..	0	16	0	0	15	8	0	0	0	0	0
Tehri	38·1	..	40·9	11,14	22·5	..	19·5	12	10·5	40·9	..	19·6	25	4	..	5·3	3·8	..	0	10	0	0	8	1	0	0	0	0	0
Dehra Dun	36·5	+2·2	40·6	10	22·6	—0·8	20·2	23	67·2	154.4	—62·8	54·0	24	7	—2·4	5·7	4·1	+1·0	0	11	0	0	8	0	0	0	0	0	0
Mansiari	23·5	..	27·3	14	15·2	..	12·0	12	..	231·0	..	40·6	18	18	..	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Roorkee	39·7	+1·8	43·1	11	21·7	—4·3	19·2	5,6	15·0	77·3	—37.0	29·7	30	4	—1·4	10·8	8·4	+3·3	0	5	0	0	5	0	1	0	0	0	0
Najibabad	39·9	..	42·9	14	24.7	..	20·7	26	0	116·8	..	56·8	24	5	..	12·5	9.9	..	0	6	0	0	8	0	5	0	0	0	0
Meerut	39·9	+1·4	42·0	4 days	26.4	—0·6	24·8	1,29	..	0	—86·4	0	..	0	—4·1	..	9·7	..	0	0	0	0	1	0	0	0	0	0	0
Bareilly	41·0	+3·1	44·4	11	28·2	+1·3	25·6	29	0	0	—32·8	0	..	0	—5·4	14·2	11·0	+6·3	0	0	0	0	1	0	0	0	0	0	0
Aligarh	39·5	+0·5	42·0	20	27·9	—0·2	25·2	15	0·8	1·4	—135·5	0·8	17	0	—4·6	13·9	11·1	+2·1	0	2	0	0	2	0	2	0	0	0	0
Mainpuri	41·8	+1.4	44·8	12,16	..	..	..	..	14·2	12·0	—53·1	4·2	28	3	—0·8	9·2	6·0	+1·5	0	3	0	0	0	0	0	0	0	0	0
Agra	41·7	+1·7	44·1	21	29·5	+0·9	25·4	15	0	0	—62.0	0	29 ..	0	—3·8	5·5	3·8	—4·2	0	0	0	0	0	0	1	0	0	0	0
Agra (Aerodrome)	42·1	..	44·3	22	28·2	..	25·5	9,15	1·5	3·3	..	2·3	19	0	..	..	..	..	0	2	0	0	2	0	2	0	0	0	0
Orai	40·8	..	44.4	6	29·2	..	25·0	7	30·0	30·0	..	19·0	27	3	..	12·3	10·1	..	0	3	0	0	0	0	0	0	0	0	0
Jhansi	41·0	+1·0	44·3	22	28·6	—0·6	23·0	30	197.5	54.7	—51.2	27·3	26	2	—3·5	7·3	7·1	—0·9	0	3	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	39·2	—1·0	42·2	22	24·9	—1·2	18·0	15	53·6	75·0	+17·2	54·6	15	3	—0·4	..	..	..	0	3	0	0	6	0	3	0	0	0	0
Amritsar (Rajasansi)	39·5	—1·0	43·2	30	24·9	—0·4	16·6	7	18·0	41·9	+14·7	23·0	14	2	+0·1	10·9	10·1	—1·5	0	5	0	0	7	0	3	0	0	5	0
Adampur (Aerodrome)	40·6	..	43·8	22	25·5	..	20.0	6	0.5	9.2	..	5·6	26	2	..	..	..	..	0	3	0	0	8	0	4	0	0	0	0
Ludhiana	42·5	+2·1	46·2	22	27·1	—0.1	22·9	6	0	0	—57·9	0	..	0	—3·5	6·3	5·5	+1·6	0	0	1	0	6	0	0	0	0	0	0
Ferozepore	40·4	..	44·5	29	25.9	..	21.0	14, 20	0	14·0	..	14·0	14	1	..	5·7	4·0	..	0	1	0	0	0	0	4	0	0	0	0
Halwara (Aerodrome)	40·1	..	43·3	20,30	25·9	..	21.7	4,6	0	5·1	..	5·1	25	1	..	..	..	..	0	1	0	0	5	0	4	0	0	0	0
Chandigarh	39·4	—0.1	42·5	22	28·2	+1·8	24·5	25	7·0	24·2	—37.5	15·4	25	2	—1·0	..	..	..	0	4	0	0	0	0	1	0	0	0	0
Ambala	40·8	+1·0	44·2	11	26·4	—0·7	21·4	13	1·6	1·6	—75·6	1·6	27	0	—4·4	13·0	11·2	+4·9	0	1	0	0	1	0	1	0	0	0	0
Ambala (Aerodrome)	40·0	..	43·2	21	26·7	..	20·6	1	3·8	3·8	..	3·5	27	1	..	..	..	..	1	2	0	0	3	0	5	0	0	0	0
Patiala	40·8	..	44·1	11,22	27·3	..	23·1	4	0	2·0	—28·0	2·0	12	0	—2·0	13·7	8·6	..	0	1	0	0	0	0	3	0	0	0	0
Bhatinda	42.3	..	45·4	28	27·2	..	20·9	16	0	2·0	..	2·0	18	0	..	5·1	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Karnal	40·3	..	42·8	11	26·1	..	21·8	26	41·0	45·0	..	41·0	27	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	40·7	—0.2	44·0	30	27·5	—0·4	22·1	16	1·4	5·2	—26·8	2·4	12	0	—2·9	11·0	9·5	0	0	3	0	0	2	0	6	0	0	0	0
New Delhi (Safdarjung)	40.0	—0.2	42·5	22	28·0	—0·7	22·1	17	18·1	24·9	—52·1	18·1	27	2	—2·2	18·0	16·3	+1·5	0	3	0	0	4	0	8	0	0	0	0
Palam (Aerodrome)	41·1	..	43·0	20,22 23	28·3	..	22·2	16	0	7·2	..	5·2	8	1	..	..	..	..	0	2	0	0	5	0	7	0	0	0	0
Himachal Pradesh																													
Mandi	35·8	—0·7	38.5	11	..	..	..	..	19.7	108·2	—0·4	43.0	28	7	0	2·9	2·5	—1·0	0	8	0	0	7	0	0	0	0	0	0
Bilaspur	29·0	..	31·6	27	25·9	..	19·0	22	2·0	16·0	..	13·0	25	1	..	4.9	3.9	..	0	3	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	6·6	—10.7	3.3	14	2	0	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Sonamerg	..	..	..	..	..	..	..	..	..	47·8	—25·6	12·2	8	4	—3·2	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Leh	19·7	—2·1	26 0	30	3·6	—3·2	0·1	9	0·1	8·1	+3·5	6·0	15	1	+0·3	4·6	5·4	+1·4	1	2	0	0	0	0	0	0	0	0	0
Srinagar	26·2	—3·5	33·9	30	13·5	—0·6	8·7	6	23·3	77·0	+41·4	36·9	14	4	+0·6	5·2	4·6	+0·4	1	9	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome)	25·1	..	32·5	30	13·4	..	8·3	6	20·1	61·5	..	36.6	14	4	..	..	..	..	0	4	0	0	8	0	0	0	0	0	0
Gulmarg	16.9	—3·0	26·0	30	5.2	—2·1	0·7	6	58·2	130·0	+39·8	45·2	14	11	+3·2	9·6	5·9	—0·1	0	19	0	0	16	4	0	0	0	0	0
Qazigund	24.9	..	32.6	30	12·6	..	9.2	8	92.4	202·1	..	103.2	14	6	..	4.1	3.8	..	0	10	0	0	13	0	0	0	0	0	0
Banihal	27·3	..	34·0	30	13·1	..	6·3	15	69·5	155·1	..	71·4	15	5	..	..	..	..	0	8	0	1	10	0	0	0	0	0	0
Jammu	40·1	+0·9	44·0	22	27.5	—0·6	21·6	14	22·6	27·2	—42·1	12·4	15	3	—0·7	6·9	5·9	..	0	4	0	0	3	0	1	0	0	0	0
Jammu (Aerodrome)	39·1	..	43·8	22	27·2	..	21·9	15	24.6	30·5	..	13·2	15	3	..	..	..	..	0	3	0	0	6	0	2	0	0	0	0

(R)—Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hour	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																													
Ganganagar	41·8	−0·9	45·4	25	27·7	−1·2	21·6	14	2·1	3·7	−17·4	2·1	15	0	−1·2	8·1	5·7	−2·	0	2	0	0	1	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	41.6	..	45.5	30	29·1	..	22·5	11	..	..	..	..	..	..	..	15·2	11·0	..	..	..	0	4	4	0	0	0	0	0	0
Churu	40·8	..	44.2	30	28·2	..	22·0	15	5·2	10·9	..	3·6	7	3	..	17·8	14·6	..	0	4	0	0	5	0	5	0	0	0	0
Bikaner	40·5	−0·8	43.9	28	28·4	−0·9	20.9	14	2.2	19·0	−11·7	8.0	11	3	+0·8	11·0	9.0	−3·1	0	4	0	0	3	0	1	0	0	0	0
Nagaur	40·5	..	43.4	22	27·5	..	21·7	11	0	2·0	..	1·0	6,11	0	..	17.5	16·0	..	0	2	0	0	2	0	2	0	0	0	0
Phalodi	40·3	..	43·0	26	26·2	..	19·8	14	0	10·1	−16·1	6·0	14	2	+0·3	24·9	21·1	..	0	2	0	0	1	0	2	0	0	0	0
Jaisalmer	38·8	..	43·5	10	26.1	..	21·3	14	4·2	4·6	..	4·2	14	1	..	23.2	21.0	..	1	1	0	0	0	0	0	0	0	0	0
Jodhpur	39·5	−0·3	42.5	10	27.1	−0·8	20.7	1	1·2	23·9	−12·2	18·1	1	2	−0·1	16.7	15·4	−4·9	0	4	4	0	2	0	0	0	0	2	0
Barmer	38·8	−0.9	41·5	5, 10	26·0	−0·8	16·2	14	17.3	40·2	+12·3	16·4	13	5	+3·5	12·9	11·0	−2·2*	0	5	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam)	38·2	..	42·1	10	26.6	..	21·8	4	2.1	53·6	..	26·0	27	2	..	7.4	7.7	..	0	4	0	0	0	0	0	0	0	0	0
Munabao(R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																													
Pilani	40·7	..	43·7	29	27·0	..	23·0	15	0	0	..	0	..	0	..	18·5	16·7	..	0	0	0	0	0	0	1	0	0	0	0
Sikar	39·7	..	42·8	27	26·8	..	21·4	15	0	0	..	0	..	0	..	16·4	10·4	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	41·1	..	46·1	27	30·1	..	25·4	2	25·9	18·3	..	10.6	7	2	..	5·8	4.0	..	1	5	0	0	0	0	1	0	0	0	0
Jaipur (Sanganer)	39·4	+0.1	42·4	21	27·2	+0·3	22·7	15	18.7	12·5	−44·4	12·5	28	1	−2·9	..	..	..	0	1	0	0	5	0	3	0	0	0	0
Dholpur	42·2	..	45·0	22	29.5	..	24·2	15	5·2	1·8	..	1·8	15	0	..	12·0	8·0	..	0	1	0	0	2	0	2	0	0	0	0
Ajmer	38·1	+0.1	40·7	22	27·1	−0·6	21·6	15	17·3	31·7	−30·0	16·5	10	3	+0 3	17.3	14.9	+3·2	1	5	0	0	4	0	2	0	0	0	0
Tonk	40.8	..	43·0	22	27·8	..	22·5	2	0	1·2	..	1·2	24	0	..	14·9	13·1	..	0	1	0	0	4	0	1	0	0	0	0
Bhilwara	38·8	..	40·9	1	25·8	..	20·3	1	24·0	95·3	..	41·3	27	5	..	13·5	12·2	..	0	5	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	40·6	..	43·0	20	28·1	..	20·9	5	51·4	73·3	..	34·9	24	4	..	18.8	18·2	..	2	6	0	0	12	0	1	0	0	0	0
Kota	40·0	−0·4	43·0	20	28·5	−1·0	22·6	2	6·6	87·5	+20·4	63·4	24	3	−1·1	14·3	12·7	+4·7	1	5	0	0	0	0	2	0	0	0	0
Chambal (Rawat Bhatta Dam)	38·9	..	41.9	21	27·0	..	21·9	7	0·8	54·3	..	16·4	24	4	..	14·7	12·0	..	0	6	0	0	8	0	0	0	0	0	0
Udaipur	36·3	−0·3	39·5	10	25·3	−0·8	20·3	1	21·8	100·5	+23·3	52·4	26	4	−0·6	7·1	5·6	..	0	5	0	0	7	0	0	0	0	0	0
Jhalawar	39·9	+1·2	42·8	21	27.5	+0·2	24·1	25	14·0	75·0	−37·8	51.0	28	5	−2·1	14·2	12·7	+2·6	0	8	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	41·4	+0·2	44·4	22	29·6	−0·7	25·7	15, 30	19·8	20·7	−25·3	16.8	27	2	−1·8	15·8	10·8	..	0	4	0	0	5	0	0	0	0	0	0
Sheopur	41 0	+0·6	44·8	21	27.9	−0·7	22·4	1	4·6	19·6	−51·0	13·0	29	2	−2.3	15.7	12.4	+2·2	0	5	0	0	1	0	0	0	0	0	0
Shivpuri	39·4	..	46·0	21	24·8	..	20·5	29	36·2	64·0	..	40·6	29	3	..	14·4	10·8	..	0	4	0	0	1	0	0	0	0	0	0
Nowgong	40·8	+1·5	43·6	11	28·0	−0·2	24·0	30	39·0	174·7	+36·5	127·7	30	4	−2·1	11.0	7·2	+1·4	0	5	0	0	5	0	0	0	0	0	0
Guna	39·6	+1·7	42·5	11	25·8	−0.4	22.1	8	44·6	76·2	−77·0	35·4	29	7	−0·2	19·6	15.0	..	0	8	0	0	13	0	0	0	0	0	0
Nimach	37·1	+0·2	40·0	5	25·4	0	22·0	27	0·3	74·6	−32·8	29·8	25	4	−0·8	18.0	16·4	+1.3	0	7	0	0	7	0	0	0	0	0	0
Rajgarh	39·9	..	43·9	7	26·8	..	22·3	23	16·0	44·6	..	21·3	28	4	..	18·0	15·2	..	1	5	0		0	0	0	0	0	0	0
Sagar	38·0	+1·3	41·0	11	..	..	..	..	42·6	112·4	−44·8	29.8	30	7	−1·1	..	..	..	1	10	0		10	0	0	0	0	0	0
Ratlam	36·3	+0·2	39·3	3,5	24·1	−1·1	19·5	23	13·8	190·4	+94·9	72·4	27	9	+4·3	14·9	13·2	−0·3	0	12	0	0	8	0	0	0	0	0	0
Bhopal (Bairagarh)	37·4	+0·9	41·0	2	24·4	−0·6	21·0	23, 27	24·7	114·6	−58.9	33·4	23	6	−3.4	22·3	20.0	+5.8	1	10	0	0	11	0	0	0	0	4	0
Ujjain	36·5	..	40·2	5	25·8	..	22·1	23	61.0	187·6	..	63·4	26	7	..	22·7	19·7	..	0	9	0	0	4	0	0	0	0	0	0
Narsinghpur	38·9	..	43·0	2,3	26·8	..	22·8	30	70·2	146·8	..	61·1	30	7	..	10·9	7·6	..	0	8	0	0	1	0	0	0	0	0	0
Hoshangabad	38·4	+1.3	42·0	6	26·4	−0·1	21·6	23	116·7	203.5	+54·4	44·6	23	8	−0·2	11·8	9·3	+3·0	0	11	0	0	8	0	0	0	0	0	0
Indore	35·9	+0·1	40·1	6	24·1	0	20·0	26	140·0	298·4	+151·1	124·6	27	7	−0·3	24·8	23·4	..	1	8	0	0	6	0	0	0	0	3	0
Rajpur (Jhabua)	36·3	..	40·2	10	25·2	..	22·4	26, 27	22·4	52·2	..	19·2	26	3	..	16·8	14·7	..	0	3	0	0	3	0	0	0	0	0	0
Chhindwara	35·9	+0·9	40·2	1	25·5	+0·8	21·1	25	87·3	233·2	+84·6	70.1	26	7	−2·7	14·0	10·4	+1·1	0	10	0	0	7	0	0	0	0	0	0
Seoni	37·3	+2·2	41·8	6	25·5	+1·4	21·9	25	111·6	144·8	−72·6	35·4	18	8	−3·1	11·7	8·3	+1·2	1	13	0	0	7	0	0	0	0	0	0
Betul	35·5	+0·6	38·7	13	23·6	−0·8	21·1	26	78·2	199·1	+64·1	76·8	25	7	−1·2	10·7	7·9	−0·5	0	9	0	0	6	0	1	0	0	0	0
Khandwa	38·3	+1·2	42·4	2,10	25·9	−0·1	20·4	30	16·0	76·6	−65 6	24·0	24	5	−2·0	21·0	15·6	+2·4	0	9	0	0	3	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	40·0	+1·9	45·1	13	28·2	+0·5	22·9	23	126·0	131·5	−9·2	73·9	30	3	+3·3	12·4	8·3	−0·9		5	0	0	6	0	0	0	0	0	0
Sidhi	39·9	..	44·6	11	28·4	..	23·6	24	61·4	146.2	..	57·0	24	6	..	11·3	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	38·9	+2·3	45·2	3	27·1	+0·7	22·8	29	69.5	109·4	−71·4	36·5	26	7	−3.0	9·6	7 2	+0·1	0	7	0	0	1	0	1	0	2	0	0
Jabalpur	39·1	+2·4	43·4	3	27·4	+1·5	23·0	30	53.0	64·6	−114·0	26·5	30	6	−2·8	2.5	8·7	+2·9	1	9	0	0	7	0	0	0	0	0	0
Ambikapur	35·7	−0·1	41·8	6	25·1	0	21·8	22	307·8	515·8	+372.8	109.6	24	11	+1·4	10·2	7·2	−2·8	0	12	0	0	5	0	0	0	0	0	0
Pendra	35·7	+1·8	41·5	7,8	25·5	+1.2	21·5	28	269·1	492·1	+290·7	129.3	28	12	+0·3	10·3	9·7	..	0	13	0	0	18	0	0	0	0	2	0
Mandla	38·3	+0·8	42·6	3	25·9	+0·6	22·2	23	88·8	164·6	+32·9	51.0	28	9	+0·3	10·1	5·9	−0·5	0	10	0	0	8	0	0	0	0	0	0
Champa	38·1	−0·5	45·4	10	26·2	−1·5	22·8	23	92·6	195·2	+39·1	87·4	30	11	+2·4	11·4	8·8	−0·4	0	15	0	0	8	0	0	0	0	0	0
Raigarh	38·3	−0·3	45.2	9	26·9	−0·8	23·5	30	103·8	241·6	+73·9	147·6	30	8	−0·5	8.5	6·4	−0.9	0	11	0	0	1	0	0	0	0	0	0
Raipur	37.3	+0.7	44·3	10	26·7	+0.5	21·7	17	135·4	385·7	+155·6	98·7	25	11	+1.3	13·7	13·1	−0·3	0	16	0	0	9	0	1	0	0	0	0
Kanker	35·8	+0·9	42·0	2, 3	26·8	+1·3	22·6	19	69·4	138·3	−125·9	52·3	16	8	−2·3	16·6	12·2	+3·7	1	9	0	0	6	0	0	0	0	0	0
Jagdalpur	33·3	+0.1	40·5	9	23·7	0	21·3	16	12·2	141·4	−104·2	21·5	15	13	+1·7	9·2	7·5	..	1	17	0	0	14	0	0	0	0	4	0

(R) = Register not received. * Departure indicated relates to 1940 normals accepted provisionally.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat Region																													
Deesa	38·1	..	41·8	10	25·2	..	21·6	2	(b) 10·7	(b) 22·9	..	..	..	..	..	(b) 14·6	(b) 13·9	..	..	..	0	0	0	0	0	0	0	0	0
Radhanpur	38·0	..	41·9	10	..	..	..	..	..	..	..	..	..	..	..	14·5	11·9	..	..	..	0	0	0	0	0	0	0	0	0
Idar	37·7	..	42·3	10	25·9	..	23·2	6	0	14·8	..	11·4	26	2	..	12·0	10·2	..	0	2	0	0	2	0	0	0	0	0	0
Ahmedabad	38·2	−0·6	42·3	1	26·8	−0·3	24·5	14	19·2	36·4	−56·6	9·5	14	5	+0·3	9·9	9·5	−1·8	1	5	0	0	3	0	0	0	0	0	0
Dohad	36·5	+0·4	39·4	3	24·8	−0·9	20·7	27	1·2	50·6	−57·6	27·6	27	3	−1·8	25·2	25·7	−3·6	0	5	0	0	7	0	2	0	0	0	0
Vallabh Vidyanagar	38·1	..	42·6	1	26·7	..	24·8	14	14·8	16·6	..	9·6	28	2	..	13·5	11·4	..	1	4	0	0	1	4	0	0	0	0	0
Baroda Aerodrome	37·4	..	42·0	1	26.7	..	23·6	14	56·3	82·5	..	46·2	14	6	..	14·8	14·9	..	0	7	0	0	6	0	1	0	0	0	0
Baroda	38·0	+0.8	42·7	1	27·1	+0·1	24·1	14	46·2	95·5	−3·8	48·0	14	5	+0·7	4·9	3·4	−6·3	0	7	0	0	1	0	0	0	0	0	0
Broach	36·4	+1·0	42·1	10	26·3	−0·6	22·8	14	19·0	80·8	−73·4	35.0	14	8	+0·6	11·0	8·5	−3·6	1	9	0	0	0	0	0	0	0	0	0
Surat	34·8	+1·0	41·8	10	26·7	+0·1	24·3	29	128·4	248·9	+25·0	106·0	29	8	0	12·4	13·7	+1·8	0	11	0	0	3	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	33·5	..	37·6	11	26·5	..	23·6	11	13.8	58·5	..	45·7	12	2	..	27·9	23·6	..	0	2	0	0	0	0	0	0	2	0	0
Bhuj (Rudramata)	35·9	−0·9	41·9	10	26·5	−0.2	22·8	13	43.8	80·3	+45·2	36·5	12	3	+1·1	22·4	20·4	−1·3	0	4	0	0	0	0	0	0	0	0	0
Kandla (Aerodrome)	36·4	..	40·9	4	26·5	..	19·4	13	42·9	58·9	..	17·4	30	5	..	29·5	27·7	..	0	6	0	0	0	0	0	0	1	0	0
New Kandla	34·6	..	37·5	8	27·0	..	23·4	11	45·8	72·2	..	22·0	14	6	..	28·2	26·8	..	0	7	0	0	1	0	0	0	0	0	0
Mandvi	32·3	−0·7	33·5	30	27·3	−1·1	20·0	13	16.3	46·7	+19·5	27·7	12	2	+0·5	31·5	31·9	−0·9	0	3	0	0	0	0	0	0	2	0	0
Surendranagar	38·0	−1·1	41·4	7,10	26·5	−0·7	24·2	11, 12	13·6	32·0	−21·9	9·8	11	5	+1·3	16·5	17·7	−2·5	0	6	0	0	2	0	1	0	0	0	0
Okha	31·9	..	33·1	25	26·9	..	20·4	12	21.8	77·6	..	45·4	12	5	..	26·5	25·1	..	0	7	0	0	1	0	0	0	3	0	0
Jamnagar (Aerodrome)	33·2	−2·7	35·6	26	26·2	−0·7	22·2	11	157·7	123·3	+58·0	88·9	30	4	+1·0	..	..	..	0	4	0	0	2	0	0	0	0	0	0
Dwarka	31·8	0	35·2	11	27·6	−0·4	24·0	12	30.4	66·3	+15·2	46·6	12	5	+2·7	23·2	22·2	+1·1	0	6	0	0	0	0	0	0	1	0	0
Rajkot	36·9	−0·8	40·6	10	25·2	−0·8	22·6	11	90·6	70·0	−23·0	19·8	11	5	−0·3	27·2	26·1	−2.0	0	9	0	0	7	0	1	0	1	0	0
Bhavnagar (Aerodrome)	37·0	−0·7	42·7	1	26·6	−0·2	22·6	11	18·8	71·1	−28·0	33·9	11	7	+2·3	28.5	25.4	+2·5	0	8	0	0	8	0	1.	0	0	1	0
Porbander (Aerodrome)	32·2	+0·1	34·5	10	26·9	−1·1	22·7	13	200·3	262·6	+178·2	148·2	30	7	+2·8	24·1	20·2	..	0	8	0	0	3	0	0	0	0	0	0
Keshod	33.6	..	38·6	10	25·4	..	22·7	13	150·3	272·1	..	87·3	30	10	..	25·0	22·8	..	1	11	0	0	0	0	1	0	1	0	0
Mahuva	33·6	..	38·2	3	25·2	..	23·6	5	114·5	136·6	..	48·3	29	8	..	19·7	16·3	..	0	8	0	0	0	0	0	0	0	0	0
Veraval	31·7	..	36·5	10	26·5	..	23·3	13	118·5	344·3	+225·9	77·4	13	8	+4·1	24·3	24.2	..	0	12	0	0	3	0	0	0	5	4	0
Konkan																													
Dahanu	31.5	−0.8	33.7	21	..	..	..	..	300·2	664·1	+194·7	127·0	26	14	+2·0	19·9	18·2	−0·9	0	17	0	0	1	0	0	0	0	0	0
Bombay (Santacruz)	32·1	+0·7	34·5	1	25.2	−0·7	22·7	14	213·2	550·6	+90·3	76·2	29	16	+1·8	19.2	15·6	..	0	19	0	0	6	0	0	0	1	4	0
Bombay	31·7	+0.3	34·7	9	26·1	+0.2	22·7	14	239·3	654·8	+170·7	102·8	28	15	+0.4	9·3	8·6	−6·5	2	16	0	0	3	0	0	0	0	7	0
Alibag	31·1	+0·5	33·7	10	25·6	−0·2	22·6	14	..	511·6	−87·6	85·1	29	16	−0·7	..	21.4	+1·3	1	21	0	0	4	0	0	0	0	0	0
Bhira	32·8	..	41·5	1	24·7	..	22.1	8,23	428·2	874·9	..	175·2	29	21	..	5·0	3·3	..	0	22	0	0	3	0	1	0	0	0	0
Harnai	29·8	0	32·0	8	25·2	−0.3	20·7	25 29	240·0	517·2	−159·8	73·4	29	17	−1·6	18.8	17·9	+2·2	0	21	0	0	7	0	0	0	0	0	0
Ratnagiri	30·3	..	33·4	1,3	23·9	..	21·5	14	339·2	785·4	+12·2	99·8	13	20	−0·5	19·3	15·4	..		23	0	0	6	0	0	0	0	0	0
Devgarh	30·1	−0·3	33·8	1	24·7	−0·7	21·6	10	178·2	517·4	−142·8	50·0	26	22	+2·0	23·3	20·5	−0·4	0	23	0	0	2	0	0	0	0	0	0
Vengurla	30·5	+0·3	34·7	4	24·5	−0·1	22·4	15	229·0	714·6	−218·8	109·5	15	22	+0·2	13.9	10·0	..	0	23	0	0	8	0	0	0	0	0	0
Panjim	30.7	..	34.0	4	23.8	..	21.7	16	155.2	753.8	..	109.4	16	22	..	18.3	15.0	..	0	22	0	0	4	0	0	0	0	0	0
Marmu	29.7	..	32.3	1	23.7	..	17.0	10	194.8	754·3	..	113.1	16	22	..	23.7	21.3	..	0	23	0	0	5	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	37·5	..	41·6	10	25·2	..	22·1	26	12·5	60·6	..	40·3	26	3	..	13·5	11·4	..	3	7	0	0	0	0	0	0	0	0	0
Jalgaon	38·6	+0·6	43.9	1	26·0	−0·1	22·4	23	39·9	208·8	−79·3	53·4	28	9	+2·0	23.7	21.4	+0·3	0	10	0	0	14	0	0	0	0	0	0
Malegaon	36·5	+0·8	41·5	2	23·9	0	21·9	8	2·2	53·2	−57·3	22·6	20	4	−2·7	16·0	13·7	−1·4	0	6	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	33·1	..	39·7	1	22·5	..	20·2	8	59·7	139·0	..	67·5	8	9	..	20.2	17·3	..	0	11	0	0	6	0	1	0	0	0	0
Ahmednagar	34·8	+1·3	40.7	1	21·5	−0·7	20·1	8	46·6	89·4	−43·4	20·6	22	7	−0·5	15.0	11·7	−1·7	0	8	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..		..	..	..	693·6	−147·9	151·1	30	16	−4·3	..	..	..	0	21	..	..	..	..	..		..	..	..
Poona (Aerodrome)	32·5	..	40·0	1	22·5		21·1	29,30	51·9	78·7	..	20·3	29	8	..	..	..	..	0	11	0	0	6	0	0	0	0	0	0
Poona	32·2	+0·3	40·0	1	22·1	−0·8	19·4	7	166·3	227·5	+113·4	38·8	8	11	+3·7	14·5	11.5	..	0	14	0	1	6	0	0	0	0	3	0
Jeur	36·2	+1·3	41·3	1	23·1	+0·2	20·4	13	39·7	71·2	−17·6	35·4	25	6	+0·3	18·7	16·1	−1·2	0	9	0	0	6	0	0	0	0	0	
Baramati	34·5	+0·7	41·6	1	22·8	−0·1	21·4	8	46·8	59·2	−28·5	44·0	16	3	−2·6	19·6	16·0	−0·3	0	6	0	0	3	0	0	0	0	0	0
Sholapur	35·3	+0·2	41·7	2	23·7	+0.5	22.0	10, 25	2·0	72·8	−40·0	47·0	15	4	−2·5	13·7	12·1	−3·5	0	10	0	0	0	0	0	0	0	0	0
Miraj	33·0	+1·8	39·4	4	22·3	+0·1	20·5	14	41·9	56·1	−12·7	26·3	20	5	−0·9	..	..	..	0	12	0	0	5	0	0	0	0	0	0
Kolhapur	31·6	+1.8	38·8	4	22·0	−0·2	19·7	14	38·6	76·3	−37·2	21·5	27	8	+0·2	22·6	17·5	−0·8	0	13	0	0	4	0	0	0	0	0	0
Marathwada																													
Aurangabad	35·3	+0·7	40·0	2,4	23·2	+0·4	21·0	8	37·0	109·0	−29·2	37·2	8	8	+0·3	18·8	17·2	−0·8	1	12	0	0	7	0	0	0	0	0	0
Aurangabad (Chikalthan)	35·7	..	40·2	2	23·2	..	21.2	9	8·7	42·5	..	11·2	19	5	..	20·6	18·4	..	0	10	0	0	6	0	0	0	0	0	0
Parbhani	37·1	+0·2	42·0	1,3	24·4	−0.2	20·6	22	2·0	49·0	−86·6	13·2	27	7	−0·9	16·7	13·8	−2·0	0	8	0	0	5	0	0	0	0	0	0
Nander	37·4	..	43·3	7	25·1	..	20·9	1	0	90·9	..	54·5	22	5	..	12·0	10·4	..	0	7	0	0	0	0	0	0	0		0
Bir	36·6	..	41·4	1	23·5	..	20·2	8	0	111·5	..	47·8	18	4	..	16·2	11·9	..	0	6	0	0	0	0	0	0	0		

(b) Mean or Total for 29 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·2 mm.)	Precipitation (0·mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha																													
Gondia	38·2	+0·6	44·3	10	27·1	0	22·4	23	41·2	220·8	+58·6	103·5	24	9	+0·5	9·6	7·1	+0·3	0	11	0	0	5	0	0	0	0	0	0
Nagpur (Sonegaon)	38·1	−0·2	43·7	3	26·6	−0.3	20·5	20	75·6	249·7	+25·7	58·6	24	10	−0·2	18·6	15·3	..	0	12	0	0	11	0	0	0	0	5	1
Amraoti	37·5	+0·7	43·2	3	25·6	+0·2	21·4	25	57·5	232·9	+66·5	85·4	25	9	+0·3	20·6	16·6	+4·7	0	11	0	0	7	0	0	0	0	0	0
Akola (Aerodrome)	37·5	..	43·0	5	25·5	..	21·2	22	15·8	258.9	..	79.2	23	11	..	16·3	14·6	..	0	13	0	0	7	0	0	0	0	0	0
Akola	37·4	+0·2	42·5	5	..	..	..	..	13·5	276.1	+135·6	105·4	23	9	+0·9	15·1	13·4	+1·0	0	9	0	0	0	0	0	0	0	0	0
Bramhapuri	38·3	..	44·0	1,4,10	27·2	..	22·1	24	64·5	260·8	..	123.7	24	9	..	11·0	9·2	..	0	10	0	0	4	0	0	0	0	0	0
Buldana	34·4	+0·4	39·2	2	23·1	−0·4	19·5	22	39·7	210·7	+51·3	66·5	28	6	−2·8	15·2	15.0	+0·5	0	8	0	0	0	0	0	0	0	0	0
Yeotma	37·1	+0·1	43·3	5	25·8	+0·4	21·2	22	59·1	143·7	−41·4	32·0	23	9	−0·2	21·6	19·7	+0·5	0	12	0	0	0	0	0	0	0	0	0
Chanda	38·4	+0·8	44·4	9	27·9	+1·3	23·1	25	32·0	128·4	−76·1	29·4	25	9	−0·8	15·6	11·8	+3·3	0	10	0	0	6	0	1	0	0	0	0
Pusad	38·2	..	43·4	2	27·1	..	21·9	22	21.5	92·6	..	33·4	28	5	..	17·0	13·8	..	0	7	0	0	1	0	0	0	0	0	0
Sironcha	37·9	0	44·7	1	27·4	−0.3	23·2	24	3·7	204·8	+0·3	55·8	16	8	−0·7	10·4	7·7	+0·7	0	11	0	0	4	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	32·9	−0·9	38·6	14	25·7	−1·2	22·9	15	52·3	222·8	+103·7	79·0	15	10	+3·7	17·6	15·4	+2·5	0	10	0	0	0	0	0	0	0	0	0
Vishakhapatnam	35·1	−0·2	40·3	12,14	27·1	+0.1	23·9	30	8·0	37·9	−67·3	8·1	10	6	−0·5	22·2	16·1	+4·2	3	8	0	0	6	0	0	0	2	0	0
Kakinada	35·4	−0·6	42·1	14	26·7	−0·5	23.7	17	26·4	85·0	−33·9	11·8	21	9	+1·9	15·9	12·2	+2·4	0	10	0	0	4	0	2	0	0	0	0
Nidadavole	35·2	..	41·0	8	26·0	..	22.0	2	7·0	88·2	..	30·0	2	9	..	12.8	10·6	..	0	10	0	0	7	0	0	0	0	0	0
Rentachintala	38·0	+0·4	44·6	1	27·1	−0.7	24·1	17	0	80·6	−11·6	22·0	16	7	+0·4	14.0	11·8	−5·1	0	7	0	0	1	0	0	0	0	0	0
Gannavaram	36·8	−0·7	42·5	8	26·6	−0·7	23·0	1	15·5	204.6	+48·8	92·3	22	10	+1·5	19·2	15·7	−2·6	0	13	0	0	9	0	0	0	0	0	0
Nagarjuna Konda (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..
Masulipatam	35·3	−1.5	42·2	8	26·2	−0·9	23·0	1	34·2	100·2	−7·0	29·0	21	9	+2·8	6·4	5·3	−6·8	0	13	0	0	10	0	0	0	0	0	0
Ongole	37·2	..	42.4	8	27·7	..	24·3	17, 18	9·8	54·6	..	13·4	4 17	7	..	14.7	11.0	..	..	8	0	0	0	0	0	0	0	0	0
Nellore	38·1	−0·5	44·0	18	27·9	0	24·2	17	9·6	30·2	−2·1	8·1	26	4	+1·1	12.1	7.5	−1.8	0	7	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	38·3	−0·2	44·6	1,8	27·7	−0·3	23·5	16, 28	9·6	149·2	−13·0	62·4	16	9	+1·9	10·2	9·1	+0·3	0	10	0	0	5	0	1	0	0	0	0
Nizamabad	37·6	+1·5	44·4	2	26·3	+1·1	21·5	22	5.0	74·6	−73·0	49·8	22	6	−2·7	13.5	10.4	+1.1	0	7	0	0	3	0	0	0	0	0	0
Hanamkonda	37·2	+0·9	43·6	8	26·4	0	23·2	29	0	86·6	−66·1	46·8	16	6	−2·2	14·0	12·0	+0·6	0	10	0	0	3	0	0	0	0	0	0
Hakimpet (Aerodrome).	34·8	..	41·5	6	23·5	..	21·1	16, 23	95·4	174·6	..	44·2	23	8	..	..	..	..	0	13	0	0	9	0	0	0	0	1	0
Bhadrachalam	36·9	−0·7	43·6	8	27·0	−0.5	22·6	23	30·0	106·0	−55·8	30·0	16	10	0	9.2	7.6	−2.6	0	12	0	0	5	0	0	0	0	0	0
Hyderabad (Begampet)	34·6	+0·3	40·5	2	23·5	−0.1	19·9	30	52·5	129·6	+17·6	33·4	23	10	+3·5	23·6	22·0	+2·2	1	12	0	0	14	0	0	0	14	0	0
Khammam	37·2	..	43·6	1	26·8	..	22·9	27	13.9	133·1	..	29·0	16	9	..	11·6	9·0	..	0	10	0	0	3	0	2	0	0	0	0
Mahbubnagar	35·2	..	42·4	1	24·1	..	22·1	17, 27	35·4	112.5	..	18·8	30	10	..	14·0	12·5	..	0	14	0	0	5	0	0	0	0	0	0
Rayalaseema																													
Kurnool	35·4	−0·8	43·5	1	24·2	−1·1	21·8	6	22·6	146.5	+72·1	61·8	4	8	+2·5	20·2	17·8	+1·5	1	13	0	0	0	0	0	0	0	0	0
Nandyal (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
Anantapur	35·4	+0·5	41·5	1	25·0	+0·2	22·2	14, 17	18.2	81·9	+27·4	35·0	14	6	+2·8	19·3	17·7	−1·1	0	10	0	0	5	0	0	0	0	0	0
Cuddapah	36·8	−0.9	43·8	1	26·8	−0·1	22·1	17	24.8	96·6	+21.7	48·8	17	5	+0·2	4·0	2·8	−8·1	0	8	0	0	0	0	0	0	0	0	0
Arogyavaram	32·6	..	37·6	1	21·8	..	19·4	5	0	49·6	..	30·0	5	4	..	17·0	13·7	..	0	5	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	36·9	..	40·8	1	27·6	..	21·9	2	..	27·3	..	14·3	2	3 ays	..	..	11.7	..	0	4	0	0	3	0	0	0	0	0	0
Madras (Minambakkam).	37·5	−0·1	40·7	1	27·7	+0·4	22·7	2	0·4	20·3	−26·9	7·8	2	3	−0.7	19·1	14·7	−2·8	0	7	0	0	2	0	0	0	0	5	0
Vellore	36·5	+0·3	40·4	2	25·7	−0·2	22·5	5	1·0	25·0	−45·4	10·8	5	2	−2·9	13.4	10·2	+1·7	0	7	0	0	3	0	0	0	0	0	0
Tambaram (Aerodrome)	39·2	..	42·1	8	27·7	..	24·2	2	3·3	16·0	..	10·2	28	2	..	..	..	..	0	5	0	0	5	0	0	0	0	0	0
Tiruppattur	34·5	..	36·3	9,28	23·1	..	20·8	6	0	47·2	..	15·7	15	4	..	10.3	8·2	..	0	4	0	0	1	0	0	0	0	0	0
Mettur Dam R.S.	37·0	..	42·0	5	25·1	..	23·5	6	4·6	7·7	..	4·6	26	2	..	6·1	7·6	..	0	2	0	0	1	0	0	0	0	0	0
Cuddalore	36·9	−0·1	39·4	9	27·3	+0·5	25·5	1	1·4	5·8	−29·5	2·6	16	1	−0·6	14·1	12·0	+3·5	0	3	0	0	0	0	0	0	0	0	0
Kallakkurichchi	35·7	..	38·1	8	26·1	..	24·4	1	2·4	15·8	−35·0	11·6	4	2	−1·3	11·6	9·9	..	0	4	0	0	1	0	0	0	0	0	0
Salem	35·1	−0·1	37·3	5	24·9	+1·1	23·7	6	0	13·2	−66·3	8·6	6	2	−3·4	9·1	7·5	+0·4	1	2	0	0	6	0	0	0	0	0	0
Coimbatore (Pilamedu)	32·3	..	35·5	1	22.5	..	20·9	23	2·8	13·4	..	6·5	1	1	..	31·8	30·4	..	0	6	0	0	2	0	0	0	0	0	0
Coimbatore	31·8	+0·2	34·3	6	22·1	−0·1	20·5	23	..	14·6	−24·0	9·0	1	2	−2·2	..	15·0	+5·0	0	5	0	0	0	0	0	0	0	0	0
Nagapattinam	36·4	−0·1	38·4	16	27·1	+0·5	24·6	23	0	13·2	−18·0	13·2	23	1	−1·2	15·9	12·6	+2·1	0	1	0	0	4	0	0	0	0	0	0
Tiruchchirappalli	36·3	−0·8	38.8	2	26·1	0	22·1	6	3·8	110·5	+69·4	76·6	6	2	−0·4	18·3	15·7	−10·4	0	7	0	0	7	0	0	0	1	0	0
Vedaranniyam	34·4	..	37·4	9	26·5	..	22·9	23	12.2	12·2	..	12·2	23	1	..	13.6	10·0	..	0	1	0	0	0	0	0	0	0	0	0
Atirampattinam	33·9	..	37.6	13	26·3	..	23·4	5,17	16.0	36·8	..	16·0	17	4	..	20·8	14·1	..	0	4	0	0	3	0	0	0	0	0	0
Madurai	37·3	+1·1	39·5	2	26·1	+0·5	22·9	6	..	27·0	−12·9	27·0	6	1	−1·5	..	6·8	−1·1	0	1	0	0	5	0	0	0	0	0	0
Madursi (Aerodrome)	35·7	.	38·4	2	26·3	..	22·9	4	25·1	89·5	..	5·6	4	2	..	20·3	17·4	..	0	2	0	0	6	0	1	0	0	0	0
Tondi	34·1	..	39·2	9	26·9	..	24·6	29	2.2	3·4	..	2·2	23	0	..	23·8	17·4	..	0	2	0	0	1	0	0	0	0	0	0
Pamban	32·8	+0·5	35·1	9	27·7	+0·9	25·4	29	0	0	−3.8	0	..	0	−0·3	23·4	17·7	..	0	0	0	0	1	0	0	0	0	0	0
Tuticorin	36·2	+0·7	38·0	11	26.6	−0·2	24·9	17	0	6.5	+1·6	6.5	6	1	+0·5	20·5	17·2	−1·0	0	1	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind Speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—(Contd.)																													
Palayankottai	34·1	−1·2	37·2	2	26·6	−0·1	24·8	3	26·2	26·2	+16·7	26·2	3	1	0	15·9	10·1	−5·2	0	1	0	0	2	0	0	0	0	0	0
Kanniyakumari	30·9	..	34·2	9	24·8	..	22·6	24	16.3	33·5	..	11.5	17	4	..	19·8	17·3	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	29·5	+0·1	32·8	1	24·4	−0·4	21·8	18	310.6	809.4	−165·1	149.4	9	20	−3·3	(b) 16·6	13.3	..	0	25	0	0	3	0	0	0	0	0	0
Honavar	29·2	−0·3	33·1	1	23·7	−0·4	21·1	6	350.7	860.3	−182·6	104.1	17	24	−1.6	13·6	11·6	+6·0	0	24	0	0	5	0	0	0	0	0	0
Mangalore (Bajpe)	30·0	..	33·7	1	23·2	..	21·4	18	168.1	673.9	..	101.6	8	24	..	12·3	9·3	..	1	27	0	0	7	0	0	0	0	0	0
Mangalore	30·5	+1.3	33·9	1	23·9	+0.1	21·9	17	207.1	714.9	−226.9	120.2	8	22	−2·6	11·6	9·5	+0·8	0	26	0	0	0	0	0	0	0	0	0
Interior Mysore North																													
Bidar	34·0	+0·2	40·2	1	23·4	+1·0	19·0	27	97.2	146·0	+19.5	44·8	14	11	+3·6	20·2	19·3	−1·0	0	11	0	0	0	0	0	0	0	0	0
Gulbarga	36·0	+0·6	41·2	1	24·6	+1·2	22·2	18	29.6	35·2	−77·6	12·0	22	6	−0·9	24·9	17·5	+1·2	0	7	0	0	3	0	0	0	0	0	0
Bijapur	34·3	+0·9	41·4	1	23·3	+1·0	21·4	17	20.2	62·2	−14·5	29·0	8	3	−2.4	10·3	7.9	−5·8	1	4	0	0	0	0	0	0	0	0	0
Raichur	36·1	+0·9	42·2	2	24·7	+0·9	22·0	17	35.8	90.7	−1·2	33.3	17	6	0	20·1	20.0	+3·7	0	10	0	0	3	0	0	0	0	0	0
Belgaum	29·1	+1·5	36·4	4	21·1	+0·8	20.0	15	70·8	137.2	−65·5	39·4	27	11	−1·9	11·7	9·6	−3·4	1	17	0	0	1	0	0	0	0	0	0
Belgaum (Samra)	29·8	..	36·2	4	21.0	..	19.6	14	42·5	106·2	..	21·7	27	11	..	20·2	15·8	..	1	16	0	0	1	0	0	0	0	0	0
Gadag	29·4	−1·7	38·1	2	21·9	+0·1	20·3	17	65.5	98·4	+30 6	32·8	17	7	+1·4	18 7	17·3	−0.1	0	14	0	0	4	0	0	0	0	0	0
Interior Mysore South																													
Bellary	34·3	−0·5	40·7	1	25·0	+0·6	21·9	6	10.0	117.0	+73·8	63.0	20	5	+1·7	16·7	13·4	+0·7	0	5	0	0	0	0	0	0	0	0	0
Chitradurga	30·8	+0·2	36·5	1	21.8	+0·6	19·8	17	8.8	40.4	−25·4	18.8	17	3	−2·2	14·1	13·2	+0·8	0	5	0	0	3	0	0	0	0	0	0
Shimoga	29·4	+0·5	35·6	3	23·0	+1·3	21·4	5, 8	12.6	58.5	−87·3	12.7	8	6	−3.9	10·7	7·2	−0·1	0	10	0	0	0	0	0	0	0	0	0
Agumbe	25·0	..	30·6	1	9·6	..	17·8	9	..	213·9	..	51.0	28	12	..	..	5·6	..	3	26	0	0	0	0	0	0	0	0	0
Balehonnur	26·5	+1·6	32·2	1	19·4	+0·6	17·5	18	..	256·2	−176·6	48·2	7	13	−8·1	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Hassan	27·2	0	34·6	2	19·0	−0·1	16 1	17	133.3	197.3	+105·6	78.6	2	10	+0·7	15·2	11·7	+0·4	0	16	0	0	5	0	0	0	0	0	0
Bangalore	29·7	+0·6	36·2	1	20·1	+0 8	19·3	19, 29	30.7	82·6	+10·0	47.2	5	7	+1·1	17.6	14·7	+1·5	0	11	0	1	5	0	0	0	0	2	0
Bangalore (Aerodrome)	29·7	..	34·9	1	19·2	..	16·9	2	10.8	63.6	..	26·9	2	5	..	..	..	..	0	10	0	0	7	0	0	0	0	0	0
Mysore	29·4	0	34·5	1,3	20·4	+0·3	19·1	19	1.7	27.2	−35·3	24.3	1	1	−4·8	17·1	16·5	+2·3	0	4	0	0	1	0	0	0	0	0	0
Kerala																													
Calicut	30·0	+0·7	33·6	1	24·3	+0·4	21·9	18	123.5	533.5	−306·7	98.4	8	20	−4·1	11·2	9·7	+0·8	0	22	0	0	4	0	0	0	0	0	0
Palghat	30·0	..	35 2	1	23·3	..	21·6	23	104.2	278·8	..	33·0	28	17	..	15·6	11 9	..	0	21	0	0	1	0	0	0	0	0	0
Fort Cochin	29·3	+0 3	31·3	2	24·0	+0·1	22·4	23	93.3	414·0	−309 4	68 0	6	23	−1·3	9·2	7·3	−0·3	0	27	0	0	11	0	0	0	0	0	0
Cochin (Naval Air Station).	29.9	..	32·3	2	23·8	..	21·9	23	118.7	441·0	..	72·7	6	20	..	9 6	7·8	..	0	28	0	0	13	0	0	0	0	9	0
Alleppey	30·3	+0·7	33·3	1	24·2	+0 1	22·7	16	95.4	284·0	−451·4	57·6	8	20	−3 5	10·1	7·8	−4·3	0	24	0	0	3	0	0	0	0	0	0
Punalur	29·9	..	34·7	1	23·3	..	22·0	5	84.6	256.6	..	53·4	5	17	..	2·7	3·6	..	0	19	0	0	0	0	0	0	0	0	0
Trivandrum	30·5	+1.0	33·1	1	24 1	+0·4	22.1	24	58 8	153 6	−181·2	82·1	6	10	−7·1	15·5	9·9	+1·4	0	14	0	0	4	0	0	0	0	0	0
Trivandrum (Aerodrome)	30.2	..	31·8	1	24·4	..	22·5	24	..	122·0	..	33·2	6	10	..	..	11·8	..	0	14	0	0	3	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	26·8	−1.1	30·0	11, 22	16·5	−1·6	11·0	15	141·0	204·0	+90·5	182·0	15	3	−3·3	6·3	5·1	+0·3	0	8	0	0	3	3	0	0	0	0	0
Dharmsala	31·1	−1 1	34·9	22	21.3	−1·5	15·8	16	69.9	85·8	−56·5	41·2	15	7	+0.1	5·9	5·3	+0·1	0	7	0	0	5	0	0	0	0	0	0
Simla	24·2	+0·3	26·8	21	16·1	+0·5	11·7	4	30·2	88·6	−64·8	20·6	30	9	−0·8	1.0	0.6	−1·7	1	11	0	0	6	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	15·4	−111·6	6·4	28	3	−3·5	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Lokpal	5·6	..	10·3	25, 28	−0·5	..	−4·8	1	..	83·2	..	15·4	4,12	8	..	..	..	..	0	12	0	0	0	19	0	16	0	0	0
Badrinath (R)																													
Joshimath	27·1	..	30·4	11	16·6	..	11·7	16	64·4	152·7	..	80·0	16	7	..	7·0	6·6	..	0	15	0	0	2	1	0	0	0	0	0
Mussoorie	24·5	+0·6	27·8	7	16·4	+0·3	11·8	12	6·7	113·3	−109.7	61·0	30	7	−3·2	11·0	8·1	−0·8	0	10	0	0	2	1	0	0	0	0	0
Mukteswar Kumaun)	25·0	+2·1	29·6	14	15·1	+0·7	12·1	16	37·4	56.2	−130·2	16·0	27	8	−2·1	14·6	13·5	+3·5	0	11	0	0	9	6	0	0	0	0	0
Nainital	24·5	+0.5	28.0	13	16·5	−0·4	14·0	21	57·0	207·0	−66·3	107·0	21	9	−2·4	9 7	7.1	−0·4	0	10	0	0	0	0	0	0	0	0	0
Kalimpong	26·5	+2·5	30·1	2	17·9	−1·2	13·1	4 days	103.3	766.7	+397·1	114.3	24	14	−2·4	10·9	7.6	−1·7	0	14	0	0	0	4	0	0	0	0	0
Darjeeling	19·6	+0·8	22·2	7	14·6	+0·1	13·4	10	66.0	339.8	−274·4	59.0	23	19	−2·0	3.6	3·1	−0·1	0	20	0	0	1	11	0	0	0	0	0
Kohima	24·1	..	25·7	5 days	18·2	..	16·2	5	109·2	336·0	..	42·4	27	21	..	..	1·9	..	0	22	0	0	0	18	0	0	0	0	0
Shillong	24·9	+1.3	26.5	27,28	18·2	+1·0	16·1	1	43.8	216·3	−245·0	53.4	11	14	−6·0	7.7	7·1	+2·6	0	19	0	0	1	0	0	0	0	0	0

*Data given as addenda in December 1963 issue. (b) Mean of 29 days. (R) Register not received.

Sub-Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir— *(Contd.)*																													
Cherrapunji (R)																													
Abu	28·3	−0.4	33·4	10	18·6	−1·7	15·4	14	26.2	81.0	−37·1	23.6	14	5	−0·8	23·6	18·1	+5·2	0	7	0	0	2	0	0	0	0	0	0
Aijal	25·2	..	27·6	11	19·4	..	16·6	23	(b) 78·5	(b) 171.4	..	..	..	..	..	(j) 10·8	(k) 12·2	..	..	..	0	0	0	0	0	0	0	0	0
Pachmarhi	31·4	+0 4	35·0	4,12	22·3	+0·1	17·5	25	234.2	354.6	+125·0	204.0	26	10	−0·3	11·3	10·3	+0·3	0	15	0	0	14	0	0	0	0	0	0
Mahabaleshwar	23·1	+1·7	31·3	1	17·0	+0·1	15·3	23	504.4	928.8	−155.5	147·0	29	21	−1·2	16·4	17·0	+0·6	0	24	0	0	3	26	0	0	0	0	0
Mercara	22·5	+0·2	28·4	1	17·0	−0.3	15·4	17, 18	137.0	404.0	−243·9	84.2	8	21	−2·2	12.7	12·1	+2·9	0	26	0	0	4	0	0	0	0	0	0
Ootacamund	18·2	+0·4	24·0	8	9·5	−1·8	8·2	19	37.4	68.4	−98·5	22·4	6	7	−7·1	14·0	7·7	−0 8	0	14	0	0	3	0	0	0	0	0	0
Coonoor (R)																													
Kodaikanal	19·9	+1.8	22·7	16	11·8	0	10·5	19	36·9	73·2	−34·5	33.5	1	7	−2·9	11·2	13·4	−1·7	2	12	0	0	6	0	0	0	0	0	0
Nepal																													
Katmandu	31 1	..	36.1	12	18·7	..	14·3	8	101.0	279.7	..	84·2	21	11	..	2·4	1·5	..	0	15	0	0	15	0	0	0	0	0	0
Sikkim																													
Lachen	18·6	..	20·5	1	10.5	..	8·9	8	..	229·4	..	22·6	18	20	..	..	..	..	1	27	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	36·4	..	42 3	12	26 9	..	23·2	16	51·6	118·8	..	56.6	30	8	..	13·0	8·6	..	0	10	0	0	6	0	0	0	0	0	0
Hazaribagh	35·0	..	40·9	12	24·4	..	19·1	17	53·8	179 2	..	28.2	30	12	..	12·2	6·6	..	0	14	0	0	14	0	0	0	0	0	0
Konar	35·5	..	41·9	12,13	25·6	..	21·5	15	142.7	228·8	..	95.6	21	10	..	8·4	8·0	..	0	13	0	0	1	0	0	0	0	0	0
Bokaro	37·5	..	43·4	8	26·0	..	22·7	30	43·4	115·8	..	45·2	21	7	..	7·8	5 0	..	1	11	0	0	3	0	0	0	0	0	0
Maithon	38·8	..	44·4	5	24·9	..	22·5	21	54·2	96.8	..	25.4	28	8	..	5.5	4.1	..	1	12	0	0	10	0	0	0	0	0	0
Ramgarh	37·8	..	44·3	12	26·9	..	23·5	28	137.2	230·4	..	73.2	28	7	..	4·8	2·8	..	0	12	0	0	0	0	0	0	0	0	0
Panchet Hills	37·9	..	44·5	12,13	27·7	..	23·7	2	75.9	147.5	..	24·7	21	13	..	7·6	7·3	..	0	15	0	0	0	0	0	0	0	0	0
Durgapur	37·9	..	43.5	8,13	27·1	..	22·3	2	83.5	193.8	..	63.0	2	15	..	13·4	13·0	..	0	19	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	35·9	..	42·9	8	24·1	..	20·7	16	..	287.4	..	105·8	29	14	..		..	..	1	16	0	0	7	0	0	0	0	0	0
Hirakund	37·0	..	44·3	8	27·2	..	23 0	15	48.8	175.4	..	50·7	30	11	..	6·9	5·9	..	1	12	0	0	9	0	0	0	0	1	0
Bhimkund	35.2	..	42 0	8	25·1	..	23·0	2	47.7	87·4	..	28 0	30	8	..	7·6	4·0	..	0	14	0	0	22	0	0	0	0	0	0
Sonepur	36·5	..	44·4	8	27·8	..	23·8	15, 21	..	205.7	..	41.6	30	9	..	..	9·4	..	0	14	..	..	..	..	..	..	..	..	..
Khijrawan	36·4	..	42.6	8	..	..	..	..	0	138.3	..	61.0	23	9	..	16·3	11·5	..	0	12	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	38·5	..	44·8	12	27·7	..	22·2	23	82.9	78·2	..	16·3	23	8	..	11·5	9·1	..	0	11	0	0	0	0	0	0	0	0	0
Punasa	38·3	..	42·6	11	25·7	..	21·7	23	10·8	36.1	..	13.9	26	4	..	11·7	9·5	..	0	7	0	0	0	0	0	0	0	0	0
Thikri	37·1	..	40·7	1,20	24·7	..	20·4	23	..	117·6	..	44·2	24	3	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	40.3	..	43·6	1	25·3	..	22·2	2	0	88.0	..	88.0	26	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	..	..	..	..	12·1	..	7·7	30	0	15·0	..	10·0	17	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	127.2	555·0	..	153·0	16	17	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Timure	28·9	..	32 8	14	18·1	..	16·0	18	0	141·7	..	27·0	26	12	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Pokhara	30·8	..	34·0	8	21·6	..	18·2	3	112·2	541·6	..	99·6	16	17	..	3·3	2.7	..	1	22	0	1	24	0	0	0	0	0	0
Gorkha	30.3	..	34.2	5	22.6	..	20.0	17	11.4	208.9	..	93.3	15	10	..	0	10	..	0	14	0	0	13	13	0	0	0	0	0
Nuwakot	33.4	..	37.7	5	22.3	..	19.1	17	24.6	301.6	..	80.2	28	12	..	..	..		0	13	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	30.1	..	35·2	13	18·3	..	15·3	1	35·6	216·8	..	50·0	16	10	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	27·9	..	32·5	14	17·7	..	14·7	23	4.8	144.9	..	71·0	21	10	..	7·4	5·8	..	0	12	0	0	5	7	0	0	0	0	0
Sallayana (R)																													
Butwal	37·6	..	44·4	8	26·5	..	23·4	18	133.4	274.2	..	85.0	23	10	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..

(R) Register not received. (k) Means of 20 days. (j) Mean of 21 days. (b) Total for 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories *(Contd.)*																													
Baghmati Catchment																													
Katmandu* .																													
Kosi Catchment																													
Chautara . .	29·6	..	34·1	12	18·3	..	15·7	18	21·5	298·7	..	70·1	15	23	..	..	..	..	0	14	..	..	..	..	..	..	..	..	
Chepua . .	..	..	..	..	..	..	..	..	28·8	297·6	..	30·6	26	25	..	..	..	..	0	27	..	..	..	..	..	..	..	..	
Walungchung Gola	16·0	..	18·2	2	9·7	..	7·4	7	54·1	216·4	..	24·3	28	16	..	..	..	..	2	22	..	..	..	..	..	..	..	..	
Taplethok . .	28·7	..	30·9	5	18·6	..	16·3	17	54·6	333·8	..	55·2	15	18	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
Bhojpur . .	24·6	..	28·7	5	18·3	..	14·9	9	27·4	136·4	..	33·4	10	10	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Taplejung . .	24·9	..	28·1	5	17·2	..	15·3	17	25·7	251 0	..	34·4	16	19	..	..	..	..	0	21	0	0	4	15	0	0	0	0	0
Okhaldhunga .	25·1	..	27·7	1	17·4	..	15·4	2	129.8	253·9	..	88·5	15	13	..	4·2	3·7	..	1	17	0	0	11	11	0	0	0	0	0
Chainpur . .	28·5	..	31·5	6	20·1	..	17·7	1	46·6	214·0	..	67·2	14	14	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Angbung . .	(d) 27·5	..	29·5	27	18·9	..	14·8	1,2	108·3	332·9	..	55·7	12	14	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Barahakshetra .	33·7	..	37·7	7	24·9	..	23·5	15,16	84·1	138·6	..	62·6	17	7	..	11·3	6·3	..	1	16	0	0	5	0	0	0	0	0	0
Tista Catchment																													
Gangtok . .	23·1	..	25 3	1,4	16·4	..	15·0	1	106·6	683·4	..	122·8	12	24	..	3·0	2·3	..	0	27	0	0	3	26	0	0	0	0	0
Gezing . .	25·5	..	28·2	3	17·8	..	16·2	2,6	11·7	332·8	..	37·5	23	19	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..

*Data included under Nepal.

(d) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007·3	1004·2	..	26·9	25·4	24·7	31·1	88	..	6·9	..	10·9	0	8	17	0	0	0	0	1	24	0	0	5	0
	1730	,,	1005·5	1002·4	..	27·1	25·3	24·5	30·7	86	..	6·7	..	12·9	0	6	24	0	0	0	0	1	23	5	0	0	1
Long Island	0830	25	1007·4	1004·7	..	27·2	25·7	25·1	31·9	88	..	6·8	..	1·9	0	0	16	0	0	0	0	0	12	4	0	14	0
	1730	,,	1005·4	1002·6	..	27·0	25·3	24·5	30·7	87	..	6·4	..	1·9	0	0	13	0	0	0	0	0	8	5	0	17	0
Port Blair	0530	79	1006·6	997·7	..	25·1	24·1	23·6	29·1	92	..	6·9	..	12·2	0	7	22	0	0	0	0	1	19	7	2	1	0
	0830	,,	1007·9	999·0	+0·5	27·4	25·3	24·3	30·4	84	+2	6·9	+0·2	20·8	0	19	11	0	0	0	0	0	26	3	1	0	0
	1130	,,	1007·0	998·2	..	28·1	25·3	24·1	30·0	80	..	7·0	..	24·3	0	23	7	0	0	0	0	1	26	1	2	0	0
	1730	,,	1005·9	997·0	..	26·6	24·9	24·1	30·0	87	..	7·2	..	15·6	0	8	22	0	0	0	0	1	24	4	1	0	0
	2330	,,	1007·1	998·2	..	25·6	24·4	23·9	29·7	91	..	5·7	..	13·1	0	8	20	0	0	0	0	2	25	1	0	2	0
Car Nicobar	0830	10	1008·5	1007·3	..	28·3	25·8	24·7	31·1	82	..	5·9	..	3·5	0	0	25	0	0	0	0	0	24	1	0	5	0
	1730	,,	1006·5	1005·3	..	27·3	25·3	24·4	30·5	83	..	6·3	..	1·5	0	0	17	0	0	0	0	0	16	1	0	13	0
Nancowry	0830	26	1009·3	1006·4	..	28·1	25·5	23·7	29·3	81	..	5·6	..	11·6	0	5	23	0	0	0	0	0	23	4	1	2	0
	1730	,,	1006·9	1004·0	..	27·3	25·2	24·3	30·4	83	..	5·6	..	9·7	0	2	27	0	0	0	0	0	18	8	3	1	0
Kondul	0830	8	..	..	..	28·1	25·7	24·7	31·1	82	..	6·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,		..	..	27·6	25·3	24·3	30·4	83	..	6·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1003·0	985·3	..	24·8	23·9	23·5	28·9	93	..	7·2	..	5·3	0	1	18	1	2	2	2	0	0	0	12	11	0
	1730	,,	999·7	982·2	..	26·2	24·8	24·2	30·2	89	..	6·0	..	3·2	0	0	14	0	2	0	0	1	2	0	9	16	0
Dibrugarh (Mohanbari)	0230	111	1000·3	987·8	..	24·2	23·6	23·3	28·6	95	..	7·3	..	3·8	0	0	13	2	8	2	0	0	0	1	0	17	0
	0530	,,	1001·1	988·6	..	23·8	23·5	23·3	28·6	97	..	7·5	..	4·0	0	0	18	1	9	7	1	0	0	0	0	12	0
	0830	,,	1002·2	989·7	−1·1	25·6	24·5	24·1	30·0	92	+6	7·4	+1·2	6·1	0	0	27	3	8	12	2	0	0	1	1	3	0
	1130	,,	1001·5	989·0	..	26·9	24·9	24·0	29·8	85	..	7·0	..	7·3	0	0	30	3	15	9	1	0	1	1	0	0	0
	1430	,,	999·2	986·9	..	28·1	25·5	24·4	30·5	81	..	6·7	..	8·6	0	0	28	3	15	7	0	0	0	2	1	2	0
	1730	,,	998·9	986·5	..	26·9	24·9	24·0	29·5	84	..	6·4	..	6·2	0	0	24	4	9	7	0	1	2	1	0	6	0
	2030	,,	1000·7	988·2	..	25·5	24·3	23·8	29·5	91	..	6·3	..	4·1	0	0	19	2	11	3	0	0	2	0	1	11	0
	2330	,,	1000·7	988·2	..	24·6	24·0	23·6	29·1	94	..	6·6	..	4·8	0	0	18	1	14	2	0	0	1	0	0	12	0
Digboi (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1002·7	991·2	−0·1	25·7	24·7	24·5	30·7	94	+6	7·7	+0·7	4·5	0	0	24	3	14	3	0	2	1	0	1	6	0
	1130	,,	1001·6	990·2	..	27·4	25·5	24·7	31·1	85	..	7·3	..	8·3	0	2	28	1	13	5	5	2	3	0	0	0	1
	1430	,,	999·3	987·9	..	28·6	25·9	24·7	31·1	80	..	7·1	..	8·1	0	2	26	0	12	2	5	1	8	0	0	2	0
	1730	,,	999·3	987·9	..	27·1	25·4	24·6	30·9	87	..	7·4	..	6·7	0	0	27	2	17	3	2	1	2	0	0	3	0
Sibsagar	0830	97	1002·7	991·9	−0·2	27·1	25·4	24·7	31·1	87	+2	7·8	+0·8	3·6	0	0	27	8	4	1	5	5	3	0	1	3	0
	1730	,,	999·4	988·6	..	28·5	25·8	24·7	31·1	80	..	7·0	..	3·6	0	0	25	7	7	3	2	4	2	0	0	5	0
Gohpur	0830	..	..	..	..	25·9	25·0	24·6	30·9	93	..	7·4	..	3·1	0	0	27	0	16	2	2	0	4	1	2	3	0
	1730	..	..	..	..	28·2	25·9	24·9	31·5	83	..	6·3		4·1	0	0	28	0	10	0	9	0	3	1	5	2	0
Majbat	0830	77	..	..	..	26·4	24·9	24·3	30·4	89	..	6·5	..	2·1	0	0	19	0	2	6	2	3	4	2	0	11	0
	1730	,,	..	..	..	28·5	26·4	25·5	32·6	84	..	4·4	..	1·8	0	0	19	1	4	3	2	2	7	0	0	11	0
Jorhat (Aerodrome)	0530	90	1000·6	990·5	..	24·9	24·6	24·5	30·7	98	..	7·4	..	4·4	0	0	17	1	8	0	0	0	1	3	4	13	0
	0830	,,	1002·0	991·9	..	27·4	25·5	24·7	31·1	86	..	7·8	..	7·4	0	0	24	3	8	2	0	0	5	5	1	6	0
	1130	,,	1000·9	990·9	..	29·9	26·5	25·1	31·9	76	..	6·7		7·0	0	0	25	4	10	0	0	1	5	3	2	5	0
	1730	,,	998·3	988·4	..	28·4	25·9	24·9	31·5	81	..	6·4	..	8·8	0	0	26	0	12	3	0	2	2	2	5	4	0
	2330	,,	1000·7	990·5	..	25·3	24·8	24·5	30·7	96	..	7·0	..	5·2	0	1	12	0	7	1	0	0	2	0	3	17	0
Tungla	0830	78	1002·6	993·9	..	26·6	25·1	24·5	30·7	88	..	4·	[illegible]	0·9	0	0	7	0	0	0	1	0	6	0	0	23	0
	1730	,,	998·7	990·1	..	28·6	26·4	25·5	32·6	83	..	3·9	..	1·3	0	0	1	0	0	0	0	0	1	0	0	29	0
Tezpur	0830	79	1002·8	993·9	−0·5	26·4	25·3	24·9	31·5	91	+7	5·9	−0·3	2·2	0	0	29	0	11	7	2	6	2	1	0	1	0
	1730	,,	999·1	990·4	..	28·7	26·2	25·1	31·9	79	..	5·3	..	2·0	0	0	29	1	7	6	3	4	4	3	1	1	0
Golaghat	0830	95	1002·5	091·8	..	26·7	25·1	24·4	30·5	88	..	6·8 (f)	..	1·5 (f)	0	0	16	3	2	3	0	8	0	0	0	14	0
	1730	,,	998·9	988·3	.	29·4	26·4	25·1	31·9	78	..	3·4	..	2·3	0	0	23	0	7	0	9	2	1	0	4	2	0
Rangia	0830	60	1003·2	996·3	..	27·6	25·9	25·1	31·9	85	..	6·5 (c)	..	5·9 (c)	0	0	30	0	2	11	3	1	6	6	1	0	0
	1730	..	1000·1	993·5	..	29·6	26·5	25·3	32·2	77	..	5·3	..	4·4	0	0	22	1	4	7	1	1	3	4	1	6	0
Chapamukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goalpara (R)	0830	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati	0830	..	..	..	..	27·5	25·0	23·9	29·7	83	+1	2·6	−3·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(c) Mean of 28 days. (f) Mean of 25 days. (R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —(*Contd.*)																											
Gauhati (Bhorjor)	0230	54	999·9	993·7	..	25·5	24·8	24·5	30·7	94	..	6·9	..	2·5	0	0	10	0	4	0	1	2	1	1	1	20	0
	0530	,,	1000·8	994·6	..	25·5	24·7	24·3	30·4	94	..	7·7	..	2·7	0	0	10	0	3	2	1	2	2	0	0	20	0
	0830	,,	1001·9	995·7	−0·6	27·6	25·4	24·4	30·5	84	+3	7·4	+1·2	5·1	0	0	23	5	7	2	1	1	1	1	5	7	0
	1130	,,	1000·9	994·8	..	29·7	26·5	25·3	32·2	77	..	7·2	..	7·8	0	0	27	6	8	3	0	2	0	6	2	3	0
	1430	,,	998·8	992·7	..	29·5	26·5	25·3	32·2	78	..	6·8	..	7·1	0	0	24	4	9	0	2	2	0	1	6	6	0
	1730	,,	998·2	992·0	..	29·5	26·5	25·2	32·1	78	..	6·5	..	5·1	0	0	22	2	6	2	0	2	3	6	1	8	0
	2030	,,	1000·3	994·2	..	26·6	25·2	24·6	30·9	89	..	6·1	..	5·3	0	0	16	5	1	3	0	1	1	3	2	14	0
	2330	,,	1000·5	994·4	..	25·8	24·9	24·5	30·7	92	..	6·0	..	1·9	0	0	8	0	4	0	0	2	1	1	0	22	0
Dhubri (Rupsi)	0530	36	1000·2	995·1	..	24·7	24·3	24·1	30·0	96	..	7·0	..	3·5	0	0	13	0	7	3	1	0	0	0	2	17	0
	0830	,,	1001·3	996·2	..	26·6	25·4	24·9	31·5	88	..	7·0	..	5·1	0	0	23	0	5	10	3	3	1	0	1	7	0
	1130	,,	1000·6	995·5	..	28·7	26·4	25·5	32·6	83	..	6·8	..	6·8	0	0	25	1	6	6	4	6	2	0	0	5	0
	1730	,,	997·7	992·6	..	28·8	26·5	25·5	32·6	82	..	6·3	..	4·3	0	0	20	1	2	7	0	5	5	0	0	10	0
Dhubri	0830	35	1002·3	998·3	+0·1	26·8	25·1	24·3	30·4	87	+1	6·8	+0·7	7·2	0	0	26	1	11	7	6	1	0	0	0	4	0
	1730	,,	998·6	994·7	..	28·2	26·1	25·3	32·2	83	..	5·8	..	0·7	0	0	5	0	5	0	0	0	0	0	0	25	0
Lumding	0830	149	1002·2	985·7	..	27·9	25·2	23·9	29·7	79	−2	5·4	..	2·6	0	0	19	0	0	5	6	4	4	0	0	11	0
	1730	,,	998·2	981·8	..	30·2	25·6	23·6	29·1	67	..	4·5	..	3·0	0	0	27	1	0	0	11	4	8	0	3	3	0
Tura	0830	370	1002·5	961·6	..	26·0	25·5	25·3	32·2	96	..	7·9	..	5·5	0	0	28	0	3	1	10	7	6	1	0	2	0
	1730	,,	998·3	957·7	..	27·9	27·0	26·7	35·0	93	..	7·8	..	3·7	0	0	27	3	2	1	6	5	6	4	0	3	0
Haflong	0830	682	1005·8	930·9	..	23·2	21·7	20·9	24·7	87	..	6·3	..	10·0	0	1	29	0	0	0	0	11	19	0	0	0	0
	1730	,,	999·4	925·0	..	25·0	22·5	21·3	25·3	79	..	4·8	..	9·0	0	0	30	0	0	0	0	3	27	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1001·0	990·1	..	24·3	23·9	23·6	29·1	96	..	7·5	..	6·5	0	0	28	0	3	22	1	0	0	2	0	2	0
	0830	,,	1002·0	991·2	..	26·5	24·7	23·9	29·7	87	..	7·1	..	5·6	0	0	25	0	0	19	2	0	1	3	0	5	0
	1130	,,	1000·9	990·2	..	28·6	25·2	23·7	29·3	76	..	6·6	..	6·7	0	0	26	2	3	7	1	0	2	6	5	4	0
	1730	,,	998·5	987·7	..	27·5	25·2	24·1	30·0	82	..	6·7	..	5·2	0	0	24	0	1	9	1	1	3	8	1	6	0
Silchar	0830	29	1003·2	999·9	−0·3	26·6	25·2	24·6	30·9	89	+5	6·8	+0·7	1·3	0	0	15	1	4	4	1	2	1	1	1	15	0
	1730	,,	999·7	996·4	..	27·7	25·5	24·5	30·7	83	..	6·3	..	1·3	0	0	16	2	1	1	1	0	3	4	4	14	0
Imphal (Tulihal)	0530	781	1003·1	917·7	..	22·1	21·3	20·9	24·7	93	..	7·4	..	1·7	0	0	6	1	1	0	0	2	1	1	0	24	0
	0830	,,	1003·4	918·8	−0·6	24·5	22·3	21·3	25·3	82	+2	7·2	+0·4	3·0	0	0	12	2	1	1	4	1	0	2	1	18	0
	1130	,,	1001·9	917·8	..	26·3	23·8	22·7	27·6	80	..	7·2	..	7·7	0	0	27	5	3	1	3	5	3	3	4	3	0
	1430	,,	999·2	915·6	..	27·3	24·7	23·8	29·5	79	..	6·5	..	12·3	0	5	25	3	2	2	2	3	2	4	11	0	1
	1730	,,	999·6	915·4	..	25·3	22·8	21·7	25·9	81	..	6·8	..	9·0	0	0	26	3	0	4	2	6	2	6	3	4	0
	2030	,,	1002·0	917·3	..	23·8	22·3	21·7	25·9	88	..	6·0	..	4·9	0	1	15	0	2	2	3	2	2	2	3	14	0
	2330	,,	1002·5	917·5	..	22·9	21·9	21·4	25·5	92	..	6·5	..	1·4	0	0	5	0	0	2	1	1	0	0	1	25	0
Kailashshar	0530	29	1002·3	999·0	..	25·3	24·5	24·1	30·0	92	..	7·0	..	2·3	0	0	14	0	0	3	2	9	0	0	0	16	0
	0830	,,	1003·1	999·9	..	28·1	25·4	24·3	30·4	79	..	7·0	..	5·9	0	0	26	0	1	5	0	18	2	0	0	4	0
	1130	,,	1002·6	999·4	..	29·6	26·3	24·9	31·5	77	..	6·8	..	6·6	0	0	30	1	2	3	2	12	8	0	1	0	1
	1730	,,	1000·4	997·1	..	27·2	25·8	25·2	32·1	88	..	6·5	..	4·7	0	0	25	3	3	1	0	12	5	0	1	5	0
Agartala	0230	16	999·9	998·1	..	25·5	24·6	24·1	30·0	93	..	6·4	..	13·4	0	4	26	1	0	3	18	8	0	0	0	0	0
	0530	,,	1000·6	998·8	..	25·5	24·5	24·1	30·0	92	..	7·0	..	14·3	0	6	23	0	1	2	22	4	0	0	0	1	0
	0830	,,	1001·6	999·8	−0·3	28·4	26·0	25·0	31·7	82	−2	6·7	0	19·5	0	17	13	0	0	2	14	13	1	0	0	0	0
	1130	,,	1004·3	1002·5	..	29·	26·7	25·5	32·6	78	..	2·0	..	19·4	0	15	15	1	1	0	11	16	1	0	0	0	0
	1430	,,	999·0	997·2	..	29·6	26·4	25·1	31·9	78	..	6·6	−0·2	18·3	0	12	18	0	0	2	8	17	3	0	0	0	0
	1730	,,	998·6	996·8	..	28·6	26·1	25·1	31·9	81	..	6·7	..	15·7	0	8	22	0	1	2	10	16	1	0	0	0	0
	2030	,,	1000·7	998·9	..	26·5	25·1	24·5	30·7	89	..	6·5	..	15·0	0	2	28	0	1	1	15	9	3	0	1	0	0
	2330	,,	1000·7	998·9	..	25·8	24·7	24·3	30·4	91	..	6·2	..	12·7	0	2	26	0	0	1	18	9	0	0	0	2	0
Sub-Himalayan West Bengal.																											
Baghdogra	0230	131	999·5	984·7	..	25·2	24·3	23·9	29·7	93	..	7·7	..	11·0	0	5	20	1	10	14	0	0	0	0	0	5	0
	0530	,,	1000·0	985·3	..	25·0	24·2	23·8	29·5	93	..	7·7	..	7·8	0	0	23	1	12	10	0	0	0	0	0	7	0
	0830	,,	1001·1	986·4	−0·4	26·9	25·2	24·5	30·7	86	+2	7·4	+0·7	15·0	0	9	20	0	11	16	2	0	0	0	0	1	0
	1130	,,	1000·4	985·8	..	29·0	26·0	24·7	31·1	79	..	7·2	..	16·2	0	7	23	1	9	17	3	0	0	0	0	0	0
	1730	,,	997·3	982·9	..	28·9	25·7	24·3	30·4	77	..	6·7	..	14·5	0	6	23	0	12	16	1	0	0	0	0	1	0
	2330	,,	1000·1	985·3	..	26·2	24·9	24·3	30·4	90	..	7·4	..	12·7	0	2	25	2	9	15	0	1	0	0	0	3	0
Jalpaiguri	0830	83	1001·0	991·7	−1·1	26·4	25·0	24·4	30·5	89	+3	7·0	+2·2	8·8	0	0	28	3	12	11	1	1	0	0	0	2	0
	1730	,,	997·3	988·2	..	29·2	26·3	25·1	31·9	79	..	5·0	..	9·7	0	1	28	3	12	10	4	0	0	0	0	1	0
Cooch Behar	0830	43	1001·3	996·5	..	26·9	25·6	25·1	31·9	90	..	7·0	..	8·8	0	1	27	0	5	16	4	2	0	0	1	2	0
	1130	,,	1000·5	995·8	..	28·9	26·6	25·7	33·0	84	..	6·4	..	9·5	0	1	29	0	5	14	5	4	0	0	1	0	1
	1730	,,	997·8	993·0	..	28·6	26·6	25·8	33·2	85	..	6·2	..	6·6	0	0	27	0	8	12	4	2	0	0	1	3	0
Balurghat	0830	26	999·7	996·8	..	28·9	26·3	25·2	32·1	82	..	6·5	..	5·1	0	0	30	0	0	4	17	7	2	0	0	0	0
	1730	,,	996·2	993·3	..	30·8	26·9	25·3	32·2	74	..	5·8	..	4·3	0	0	29	1	0	8	14	5	1	0	0	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Nil
1	2	3	4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Sub-Himalayan West Bengal— *Contd*																											
Malda	0830	31	999·6	996·1	−1·5	29·6	26·9	25·9	33·4	80	−1	5·9	+0·9	2·6	0	0	29	0	1	3	12	9	4	0	0	1	0
	1730	,,	996·4	992·9	..	31·7	26·5	24·3	30·4	69	..	5·5	..	2·7	0	0	28	2	3	5	8	4	1	0	5	2	0
Gangetic West Bengal																											
Berhampore	0830	19	999·1	996·9	−1·7	29·3	27·3	26·5	36·3	85	+4	6·3	+0·2	4·6	0	0	30	1	1	10	2	14	1	1	0	0	0
	1730	,,	996·8	994·8	..	31·8	26·9	24·9	31·5	70	..	6·1	..	3·3	0	0	24	0	0	11	1	10	0	2	0	6	0
Suri	0830	..	..	..	..	30·5	26·7	25·1	31·9	74	..	5·2	..	4·9	0	0	30	0	0	3	7	16	3	1	0	0	0
Asansol	0230	126	997·5	983·5	..	28·4	26·1	25·1	31·9	83	..	4·0	..	5·7	0	0	21	0	0	4	4	9	3	1	0	9	0
	0530	,,	998·2	984·2	..	27·9	25·9	25·1	31·9	85	..	5·6	..	4·8	0	0	25	0	1	3	6	11	2	1	1	5	8
	0830	,,	998·9	985·1	−0·9	31·3	26·8	24·9	31·5	70	−4	5·0	−0·3	7·6	0	0	30	0	1	2	7	9	8	2	1	0	0
	1130	,,	998·0	984·4	..	35·8	27·3	23·7	29·3	54	..	5·0	..	7·1	0	0	30	1	1	1	8	5	5	6	2	0	1
	1430	,,	995·7	982·1	..	36·9	27·4	23·7	29·3	50	..	5·3	..	7·7	0	0	30	2	2	3	3	9	3	3	5	0	0
	1730	,,	995·4	981·7	..	34·4	26·8	23·5	28·9	56	..	5·8	..	8·3	0	0	30	2	5	5	4	7	0	2	5	0	0
	2330	,,	998·2	984·3	..	29·1	26·4	25·3	32·2	80	..	4·3	..	9·3	0	1	28	0	0	5	7	10	5	2	0	1	0
Shanti Niketan	0830	59	999·4	992·9	..	30·3	26·9	25·5	32·6	77	..	5·3	..	10·9	0	5	22	1	0	3	4	14	5	0	0	3	0
	1130	,,	999·1	992·5	..	34·1	26·9	23·8	29·5	58	..	4·5	..	8·1	0	0	29	0	1	3	7	8	6	2	2	1	0
	1730	,,	996·3	989·7	..	32·5	26·5	23·9	29·7	65	..	5·9	..	9·2	0	5	22	0	1	5	4	12	2	1	2	3	0
Krishnanagar	0830	15	1000·0	998·4	−0·9	30·3	27·5	26·4	34·4	80	+1	4·0	−1·7	2·2	0	0	19	0	0	0	0	19	0	0	0	11	0
	1730	,,	996·9	995·3	..	31·8	27·4	25·6	32·8	72	..	4·1	..	2·1	0	0	21	0	0	0	0	21	0	0	0	9	0
Purulia	0830	255	998·4	971·0	0·8	31·1	25·2	22·5	27·3	63	−8	7·0	+1·6	5·8	0	0	30	0	1	1	14	0	6	2	6	0	0
	1730	,,	995·0	967·8	..	33·5	25·1	21·1	25·0	55	..	7·1	..	5·1	0	0	30	0	0	0	18	0	9	0	3	0	0
Bankura	0830	100	998·4	987·5	..	31·2	26·6	24·7	31·1	69	..	3·7	..	1·0	0	0	13	0	1	2	5	4	1	0	0	17	0
	1730	,,	994·4	983·4	..	34·6	26·3	22·6	27·4	55	..	4·5	..	1·4	0	0	16	0	2	1	4	4	2	2	1	14	0
Burdwan	0830	32	999·3	995·7	−1·1	31·1	28·1	26·9	35·4	77	−3	3·5	−2·4	4·0	0	0	24	0	0	2	4	6	11	1	0	6	0
	1730	,,	995·8	992·3	..	32·6	28·3	26·7	35·0	72	..	4·8	..	9·5	0	2	27	0	0	8	5	16	0	0	0	1	0
Barrackpore (Aerodrome)	0530	7	999·7	998·9	..	27·6	26·4	25·9	33·4	90	..	5·4	..	7·5	0	0	25	0	0	2	8	8	6	1	0	5	0
	0830	,,	1000·6	999·9	0.0	30·5	27·7	26·6	34·8	80	0	5·7	−0·6	11·6	0	4	22	0	0	0	5	9	9	2	1	4	0
	1130	,,	999·9	999·2	..	32·8	28·3	26·5	34·6	70	..	5·4	..	12·2	0	3	22	0	0	0	5	8	10	2	0	5	0
	1730	,,	997·6	996·9	..	30·8	27·5	26·1	33·8	77	..	6·0	..	10·4	0	3	23	1	0	2	3	14	5	1	0	4	0
	2330	,,	1000·0	999·3	..	28·2	26·5	25·8	33·2	87	..	3·9	..	6·7	0	1	16	0	0	0	3	10	3	1	0	13	0
Calcutta (Dum Dum)	0230	6	998·1	997·4	..	27·6	26·5	26·1	33·8	92	..	5·0	..	[illegible]	0	2	26	0	0	2	10	14	2	0	0	2	0
	0530	,,	998·7	998·0	..	27·5	26·5	26·1	33·8	92	..	6·6	..	6·5	0	0	27	0	0	2	8	14	3	0	0	3	0
	0830	,,	999·9	999·1	−0·6	30·6	27·8	26·7	35·0	80	+1	6·7	+0·4	10·0	0	3	26	0	0	1	5	15	8	0	0	1	0
	1130	,,	999·1	998·4	..	32·8	28·5	26·9	35·4	72	..	6·5	..	11·5	0	4	26	0	0	0	9	14	7	0	0	0	0
	1430	,,	997·3	996·6	..	32·6	28·3	26·7	35·0	72	..	6·6	..	10·9	0	3	27	0	0	2	10	14	3	1	0	0	0
	1730	,,	996·8	996·1	..	31·1	27·8	26·5	34·6	78	..	6·4	..	10·4	0	2	28	0	0	3	7	15	4	1	0	0	0
	2030	,,	998·9	998·2	..	29·1	27·3	26·6	34·8	86	..	4·8	..	9·0	0	1	28	0	0	1	8	17	2	0	1	1	0
	2330	,,	999·1	998·4	..	28·1	26·8	26·3	34·2	90	..	5·0	..	8·8	0	2	26	0	0	3	11	13	1	0	0	2	0
Calcutta	0830	6	999·7	999·0	−0·9	31·0	27·3	25·9	33·4	74	−5	5·2	−0·9	9·3	0	1	29	0	0	0	7	12	10	0	1	0	0
	1130	,,	999·0	998·3	..	33·2	27·8	25·6	32·8	66	..	5·5	..	10·3	0	1	29	0	0	2	5	10	8	4	1	0	0
	1730	,,	996·6	995·9	..	31·2	27·2	25·6	32·8	72	..	5·5	..	10·2	0	0	30	0	0	1	9	17	3	0	0	0	0
Midnapore	0830	45	999·4	994·4	−0·9	30·3	27·5	26·4	34·4	80	+2	3·9	−1·1	5·6	0	0	27	0	1	0	0	17	9	0	0	3	0
	1730	,,	996·1	991·2	.	32·4	28·1	26·5	34·6	72	..	5·7	..	5·9	0	0	28	0	1	1	1	15	9	1	0	2	0
Contai	0830	11	999·9	998·7	0·	30·7	27·5	26·2	34·0	77	−4	4·3	−0·9	10·5	0	4	25	0	0	1	3	10	15	0	0	1	0
	1730	,,	997·1	995·9	..	30·5	27·5	26·3	34·2	78	..	3·9	..	14·7	0	10	20	0	0	0	3	17	9	1	0	0	0
Sagar Island	0830	3	999·9	999·7	−0·5	30·3	28·4	27·7	37·1	85	+7	5·9	−0·6	29·0	0	21	9	0	0	1	1	11	15	1	1	0	0
	1730	,,	996·9	996·6	..	30·3	28·2	27·4	36·5	85	..	6·0	..	33·4	0	29	1	0	0	0	3	16	11	0	0	0	0
Saugeheads	0530	10	998·6	997·5		29·3	27·3	26·5	34·6	84	..	6·5	..	22·5	0	19	11	0	0	0	1	10	17	2	0	0	0
	0830	,,	999·7	998·5	−1·4	30·0	27·5	26·5	34·6	81	+1	5·9	+0·2	20·1	0	17	13	0	0	0	0	7	20	3	0	0	0
	1130	,,	999·1	998·0	.	30·0	27·6	26·5	34·6	81	..	6·0	..	20·3	0	15	15	0	1	0	0	7	21	1	0	0	0
	1730	,,	997·2	996·1	..	29·9	27·5	26·6	34·8	82	..	7·1	..	23·2	0	20	10	0	0	0	1	11	17	1	0	0	0
	2330	,,	999·0	997·9	..	29·7	27·6	26·7	35·0	84	..	1·5	..	24·1	0	19	11	0	0	0	0	7	23	0	0	0	0
Orissa																											
Baripada	0830	54	1000·2	994·2	..	31·0	27·5	26·1	33·8	76	..	4·5	..	6·4	0	0	27	1	2	1	1	8	10	3	1	3	0
	1730	,,	997·2	991·2	..	31·4	27·5	25·9	33·4	74	..	6·4	.	5·3	0	0	27	1	0	2	6	9	6	1	1	3	1
Jharsuguda	0230	230	998·1	972·7	..	28·2	23·9	21·8	26·1	72	..	6·5	..	8·3	0	1	22	0	2	0	2	11	4	4	0	7	0
	0530	,,	998·6	973·1	..	27·5	23·8	23·1	26·6	75	..	6·7	..	5·3	0	0	20	0	0	1	4	7	6	2	0	10	0
	0830	,,	999·8	974·5	−0·2	29·8	24·5	21·9	26·3	66	+1	6·2	+0·5	8·5	0	1	25	0	0	1	3	6	8	8	0	4	0
	1130	,,	998·7	973·7	..	33·0	24·7	20·6	24·3	53	..	5·6	..	11·6	0	3	27	0	2	0	0	4	13	10	1	0	0
	1730	,,	995·5	970·6	..	33·6	24·2	19·4	22·5	51	..	6·6	..	13·3	0	4	25	1	0	3	3	6	4	9	3	1	0
	2330	,,	998·4	973·1	..	29·3	24·0	21·5	25·6	67	..	6·2	..	10·3	0	2	26	1	2	0	2	13	6	3	1	2	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa (*Contd.*)—																											
Keonjhargarh	0830	463	997.0	946.8	..	29.7	24.2	21.9	26.3	63	..	3.8	..	2.0	0	0	30	2	2	1	2	0	4	13	6	0	0
	1730	,,	993.4	943.8	..	30.7	24.4	21.7	25.9	61	..	4.0	..	1.9	0	0	29	1	0	0	2	2	7	15	2	1	0
Balasore	0830	20	999.6	997.4	−0.7	30.6	27.4	26.1	33.8	77	0	5.8	+0.4	13.0	0	7	22	1	0	0	1	11	15	1	0	1	0
	1730	,,	996.7	994.5	..	30.8	27.5	26.1	33.8	77	..	5.9	..	14.1	0	9	21	0	0	0	6	11	11	1	1	0	0
Sambalpur	0830	148	1000.0	983.7	−0.5	30.2	25.0	22.6	27.4	67	+1	5.2	0	4.5	0	0	29	0	0	1	2	7	15	4	0	1	0
	1730	,,	996.6	980.5	..	33.6	24.6	20.1	23.5	51	..	5.2	..	4.3	0	1	24	2	1	1	2	3	12	2	2	5	0
Angul	0830	139	1000.3	984.9	−0.2	30.2	25.9	24.1	30.0	69	−3	6.9	+1.1	4.7	0	0	30	2	4	1	2	3	1	11	6	0	0
	1730	,,	996.6	981.6	..	33.9	26.5	23.3	28.6	55	..	5.3	..	5.7	0	0	30	2	6	1	1	2	6	2	10	0	0
Cuttack	0830	27	1000.4	997.5	−0.6	31.1	26.9	25.2	32.1	71	−4	5.5	−0.2	7.9	0	0	20	1	1	0	1	3	9	2	3	10	0
	1730	,,	997.4	994.4	..	32.0	26.5	24.1	30.0	65	..	6.2		10.2	0	0	25	0	1	1	1	8	10	3	1	5	0
Chandbali	0830	6	1000.5	999.8	−0.4	30.3	27.2	25.9	33.4	77	−2	6.0	+0.2	9.5	0	1	29	1	0	2	1	11	11	2	2	0	0
	1730	,,	997.5	996.8	..	30.8	26.7	24.9	31.5	74	..	6.2	..	12.1	0	4	26	0	0	5	6	10	8	0	1	0	0
Bolangir	0830	190	1000.5	979.5	..	30.6	26.5	24.7	31.1	71	..	5.4	..	6.9	0	0	30	0	0	1	3	14	12	0	0	0	0
	1730	,,	996.6	975.9	..	33.4	27.3	24.7	31.1	64	..	6.5	..	5.5	0	0	30	0	0	0	5	14	10	1	0	0	0
Phulbani	0830	464	998.5	948.2	..	28.6	23.7	21.3	25.3	67	..	5.1	..	1.5	0	0	9	0	0	0	0	0	5	4	0	21	0
	1730	,,	994.7	945.1	..	31.7	23.9	19.9	23.2	56	..	5.3	..	0.3	0	0	2	0	0	0	0	0	2	0	0	28	0
Titlagarh	0830	211	1000.8	977.6	.	29.9	24.5	21.9	26.3	65	..	4.2	..	4.9	0	0	30	0	1	0	9	0	19	0	1	0	0
	1730	,,	996.8	973.8	..	33.0	25.1	21.3	25.3	53	..	4.8	..	4.8	0	0	30	0	2	0	5	0	21	0	2	0	0
Bhubaneswar	0230	46	998.7	993.5	..	27.9	26.2	25.5	32.6	87	..	4.4	..	12.8	0	8	19	0	0	1	0	14	11	1	0	3	0
	0530	,,	999.2	994.0	..	27.7	26.2	25.5	32.6	88	..	5.7	..	9.9	0	3	22	0	0	1	0	8	14	2	0	5	0
	0830	,,	1000.6	995.4	−0.1	30.6	26.7	25.1	31.9	73	−5	4.9	−1.2	13.9	0	3	25	1	1	0	0	3	17	4	2	2	0
	1130	,,	999.7	994.6	.	33.2	26.6	23.8	29.5	59	..	5.3	..	13.5	0	7	23	0	1	0	1	3	19	3	3	0	0
	1430	,,	997.8	992.7	..	33.6	26.7	23.7	29.3	59	..	5.7	..	16.5	0	10	20	1	0	0	2	9	10	4	4	0	0
	1730	,,	997.6	992.4	..	31.0	26.0	23.8	29.5	67	..	5.9	..	13.3	0	8	21	0	0	0	1	11	11	5	1	1	0
	2330	,,	999.9	994.7	..	28.3	26.5	25.8	33.2	86	..	4.7	..	15.8	0	10	20	0	0	0	0	8	20	2	0	0	0
Puri	0830	6	1000.8	1000.1	−0.3	30.1	27.6	26.7	35.0	81	0	5.9	+0.6	17.3	0	12	18	1	1	0	0	5	22	1	0	0	0
	1730	,,	998.2	997.5	..	29.7	27.5	26.6	34.8	83	..	6.2		21.3	0	17	13	0	0	0	0	5	23	2	0	0	0
Gopalpur	0530	17	999.4	997.5	..	28.0	26.5	25.9	33.4	89	..	6.1	.	16.1	0	13	14	1	0	0	0	7	16	1	2	3	0
	0830	,,	1000.9	999.0	−0.2	29.8	27.8	26.1	33.8	81	0	6.4	+1.9	19.3	0	15	13	2	0	0	0	10	14	0	2	2	0
	1130	,,	1000.5	998.6	..	30.9	27.8	26.6	34.8	78	..	6.2	.	21.3	0	15	15	1	0	0	2	15	11	0	1	0	0
	1730	,,	998.2	996.3	..	29.6	27.8	27.1	35.9	86	..	6.4	.	25.6	0	23	7	0	0	0	1	14	14	1	0	0	0
	2330	,,	1000.4	998.5	..	28.3	26.9	26.3	34.2	89	..	5.3	..	20.3	0	19	9	0	0	0	0	7	21	0	0	2	0
Koraput (R)	0830	913	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730		..	..	.	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau Dumka	0830	149	999.1	982.7	−1.0	30.6	26.3	24.5	30.7	72	−3	4.6	−0.1	6.6	0	0	26	0	3	5	6	4	5	3	0	4	0
	1730	,,	995.8	979.5	..	32.6	25.6	22.4	27.1	61	.	5.1	..	5.6	0	0	23	0	2	5	7	4	3	1	1	7	0
Daltonganj	0830	221	998.3	974.4	−0.6	33.3	25.6	22.1	26.6	55	−5	2.0	−1.5	9.2	0	1	27	1	2	1	8	0	6	5	5	2	0
	1730	,,	993.6	969.6	..	35.8	25.9	21.3	25.3	50	..	4.7	..	4.9	0	0	30	2	7	3	0	2	3	10	3	0	0
Hazaribagh	0830	611	..	932.9	−0.7	..	..	..	..	..	..	6.3	+0.6	9.0	0	1	29	1	1	2	2	4	4	7	9	0	0
	1730	,,	..	929.8	..	..	..	..	..	..	..	7.1	..	10.3	0	1	27	2	3	7	1	1	0	2	12	2	0
Dhanbad	0830	257	998.6	970.4	..	30.3	25.6	23.5	28.9	68	..	3.8	..	3.2	0	0	26	0	2	1	11	0	6	1	1	4	4
	1730	,,	995.1	967.2	..	33.9	24.8	20.3	23.8	53	..	4.0	..	2.8	0	0	14	0	3	2	3	1	0	0	2	16	3
Ranchi	0830	655	999.0	929.1	+0.5	30.2	24.3	21.7	25.9	63	−5	5.0	0	1.3	0	0	16	0	3	1	1		5	0	2	14	0
	1730	,,	994.6	924.8	..	30.6	23.1	19.5	22.7	55	..	6.0	..	1.2	0	0	18	0	5	1	1	1	4	0	6	12	0
Ranchi Aerodrome	0530	652	998.1	927.4	..	25.5	22.6	21.3	25.3	80	..	5.0	..	8.8	0	1	28	1	2	2	1	3	15	5	0	1	0
	0830	,,	998.4	928.4	..	28.6	24.1	22.1	26.6	71	.	4.5	..	10.5	0	1	27	1	2	1	1	3	12	7	1	2	0
	1130	,,	997.1	927.9	..	32.1	24.8	21.7	25.9	59	..	4.5	..	13.2	0	4	26	4	5	1	0	5	6	5	4	0	0
	1430	,,	994.8	926.0	..	33.3	24.7	20.9	24.7	54	..	5.5	..	13.7	0	2	28	7	3	0	3	2	6	3	6	0	0
	1730	,,	994.7	925.4	..	30.9	23.9	20.7	24.4	60	..	6.1	.	12.1	0	2	27	2	6	2	4	2	6	3	4	1	0
Jamshedpure	0830	129	998.9	984.8	−1.0	30.7	26.1	24.1	30.0	68	−2	4.5	−0.9	7.3	0	0	30	0	4	2	3	1	7	11	2	0	0
	1730	,,	995.0	981.1	..	33.9	25.5	21.5	25.6	54	..	6.8	.	7.0	0	1	27	3	1	4	4	2	3	5	6	2	0
Jamshedpure(P.B.O.)	0530	142	998.2	982.5	..	28.1	25.1	23.8	29.5	79	..	5.0	..	2.8	0	0	15	0	4	4	1	3	3	0	0	15	0
	0830	,,	999.1	983.5	..	30.8	25.5	23.1	28.3	66	..	4.6	..	4.1	0	0	22	1	1	3	2	4	8	3	0	8	0
	1130	,,	997.8	982.5	..	34.7	25.5	21.1	25.0	51	..	4.3	..	5.3	0	0	23	1	1	1	0	8	7	3	2	7	0
	1430	,,	995.4	980.1	..	35.9	25.4	20.3	23.8	47	..	5.7	..	6.0	0	0	26	4	1	3	3	4	6	4	1	4	0
	1730	,,	995.2	979.8	..	33.2	24.7	20.5	24.1	55	..	6.6	..	6.3	0	0	28	0	4	7	1	1	4	8	3	2	0
	2330	,,	998.1	982.4	..	29.7	25.1	23.0	28.1	71	..	4.3	..	4.5	0	0	24	1	4	9	4	2	1	2	1	6	0
Chaibasa	0830	226	998.8	974.0	−0.8	30.7	25.2	22.7	27.6	65	−4	4.4	−0.7	4.3	0	0	28	0	1	0	3	2	21	1	0	2	0
	1730	,,	995.6	971.0	..	33.3	25.1	21.2	25.2	55		7.2	..	3.9	0	0	26	1	3	0	4	0	11	0	7	4	0

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE 1964 (JYAISTHA 11—ASADHA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C:	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Motihari	0830	66	998.8	991.5	−1.6	29.9	25.9	24.2	30.2	72	−5	(b) 4.0	−0.1	(b) 2.2	0	0	25	0	9	9	5	1	0	1	0	4	0
	1730	,,	995.1	987.8	..	33.4	27.4	24.9	31.5	62	..	1.8	..	0.9	0	0	6	0	0	4	0	0	0	2	0	24	0
Forbesganj	0830	61	1000.0	993.2	..	28.7	25.7	21.4	30.5	78	..	5.0	..	6.7	0	0	30	0	1	27	2	0	0	0	0	0	0
	1730	,,	996.2	989.6	..	32.2	26.3	23.7	29.3	63	..	3.6	..	6.1	0	1	29	1	0	21	5	0	0	3	0	0	0
Darbhanga	0830	49	1000.2	994.7	−0.2	29.9	26.5	25.1	31.9	80	+3	4.1	−0.7	7.6	0	0	29	0	6	18	2	2	0	1	0	1	0
	1730	,,	997.0	991.6	..	34.7	31.4	30.3	43.2	77	..	3.3	..	5.1	0	0	24	0	6	13	1	0	0	2	2	6	0
Chapra	0830	58	999.1	992.7	..	32.6	26.9	24.5	30.7	65	..	3.3	..	3.8	0	0	27	0	12	1	9	0	1	1	3	3	0
	1730	,,	995.0	989.6	..	35.4	26.2	22.0	26.4	51	..	2.4	..	4.2	0	0	28	0	8	2	5	0	4	2	7	2	0
Purnea	0830	38	999.9	995.7	−1.1	28.8	26.2	25.1	31.9	81	−1	5.3	−0.1	4.4	0	0	29	0	5	24	0	0	0	0	0	1	0
	1730	,,	996.0	991.9	..	32.3	26.7	24.3	30.4	66	..	4.1	..	8.3	0	0	30	0	11	14	1	0	0	4	0	0	0
Patna	0830	53	998.9	993.1	−0.9	30.5	25.3	22.9	27.9	67	−5	4.1	−0.4	8.6	0	0	28	1	19	5	0	0	0	3	0	2	0
	1730	,,	995.2	989.3	..	35.6	25.9	21.4	25.5	49	..	4.0	..	7.9	0	1	25	1	12	5	0	0	0	7	1	4	0
Patna Aerodrome	0530	60	997.3	990.5	..	27.6	24.5	23.1	28.3	78	..	4.8	..	6.8	0	0	25	1	3	14	6	0	0	1	0	5	0
	0830	,,	998.5	991.8	..	31.1	25.5	23.0	28.1	65	..	4.0	..	10.1	0	1	26	0	1	15	6	1	0	2	2	3	0
	1130	,,	997.8	991.1	..	34.8	26.1	22.1	26.6	51	..	3.9	..	13.1	0	3	26	1	6	10	5	0	0	3	4	1	0
	1430	,,	995.4	988.9	..	36.5	25.7	20.5	24.1	46	..	3.8	..	15.1	0	6	23	0	7	10	4	1	0	2	5	1	0
	1730	,,	994.5	987.9	..	35.6	25.3	20.3	23.8	47	..	3.9	..	11.7	0	5	20	0	3	7	5	0	0	2	8	5	0
	2330	,,	997.1	990.4	..	30.1	25.1	22.8	27.7	67	..	3.4	..	10.1	0	3	20	0	1	10	9	0	0	1	2	7	0
Bhagalpur	0530	49	998.6	992.9	..	27.4	25.4	24.5	30.7	85	..	5.7	..	6.7	0	1	26	0	3	18	5	1	0	0	0	3	0
	0830	,,	999.3	993.8	−1.0	30.9	26.5	24.6	30.9	71	−5	5.4	−0.1	8.0	0	1	26	0	2	16	6	1	2	0	0	3	0
	1130	,,	998.6	993.2	..	34.6	26.8	23.4	28.8	56	..	5.0	..	10.5	0	2	28	1	3	11	7	1	1	3	3	0	0
	1730	,,	995.8	990.4	..	33.6	26.0	22.6	27.4	59	..	5.5	..	13.0	0	5	24	0	3	11	7	1	1	4	2	1	0
	2330	,,	998.4	992.9	..	29.3	25.4	23.7	29.3	75	..	4.6	..	7.7	0	0	30	0	1	19	6	1	3	0	0	0	0
Sabaur	0830	37	999.2	995.0	−1.4	30.2	27.3	26.1	33.8	78	+1	4.7	−1.1	7.5	0	1	28	0	5	13	4	1	1	2	3	1	0
	1730	,,	995.6	991.5	..	33.6	28.0	25.8	33.2	69	..	4.7	..	9.7	0	0	30	1	3	15	2	2	0	1	6	0	0
Jamui	0830	82	998.3	989.2	..	32.3	26.6	24.1	30.0	65	..	1.3	..	3.2	0	0	26	0	1	16	1	0	0	7	1	4	0
	1730	,,	995.3	986.3	..	34.0	27.1	24.2	30.2	60	..	1.3	..	3.9	0	0	30	0	1	18	0	0	0	9	2	0	0
Dehri	0830	107	998.0	986.3	..	33.4	24.6	20.2	23.7	51	..	3.2	..	3.3	0	0	30	1	3	3	7	2	5	8	1	0	0
	1730	,,	994.5	982.9	..	35.9	24.3	18.1	20.8	43	..	3.5	..	4.9	0	0	30	1	7	6	0	0	1	9	6	0	0
Gaya	0230	116	996.9	984.1	..	29.2	24.2	21.8	26.1	67	..	3.2	..	3.7	0	0	20	0	0	8	5	0	6	0	1	10	0
	0530	,,	997.4	984.5	..	28.4	23.9	21.7	25.9	70	..	4.2	..	4.5	0	0	20	0	1	8	1	1	8	1	0	10	0
	0830	,,	998.5	985.9	−0.5	32.8	25.4	22.0	26.4	59	+6	3.5	−0.2	11.3	0	3	26	0	1	11	2	1	3	6	5	1	0
	1130	,,	997.8	985.2	..	36.3	25.7	20.9	24.7	46	..	3.5	..	11.4	0	3	26	3	3	7	5	0	0	1	10	1	0
	1730	,,	994.8	982.2	..	35.3	25.4	20.7	24.4	52	..	4.2	..	12.4	0	7	23	5	6	5	2	1	1	1	9	0	0
	2330	,,	997.5	984.6	..	30.3	24.7	22.1	26.6	65	..	3.6	..	5.5	0	0	21	0	0	9	5	1	4	0	2	9	0
Uttar Pradesh (East)																											
Kheri	0830	147	997.8	981.6	−1.1	29.9	23.9	20.5	24.1	61	−8	2.6	−1.3	3.4	0	0	29	0	0	15	2	0	0	11	1	1	0
	1730	,,	993.7	977.7	..	36.7	25.6	19.4	22.5	43	..	2.3	..	3.5	0	0	24	0	1	10	0	0	0	13	0	6	0
Bahraich	0830	124	998.8	985.1	−0.4	31.9	25.2	21.8	26.1	58	−9	3.1	+0.2	10.6	0	1	27	0	1	14	6	0	1	6	0	2	0
	1730	,,	994.5	981.1	..	36.4	25.8	20.3	23.8	44	..	3.3	..	10.9	0	2	28	2	1	10	1	1	3	12	0	0	0
Nautanwa	0830	99	998.5	987.5	..	31.2	24.7	22.4	26.1	65	..	3.3	..	6.4	0	0	30	0	3	18	5	0	1	2	1	0	0
	1730	,,	994.9	984.1	..	37.0	25.6	19.6	23.5	46	..	2.5	..	4.0	0	0	27	0	6	11	2	0	2	2	4	3	0
Hardoi	0830	142	..	..	..	31.8	24.0	19.7	22.9	49	−12	2.3	−0.8	6.9	0	0	30	3	1	10	4	0	0	7	5	0	0
	1730	,,	..	..	..	38.0	25.3	18.5	21.3	35	..	1.1	..	4.3	0	0	28	3	2	8	2	0	0	9	4	2	0
Gonda	0830	110	998.5	986.5	..	32.6	25.0	20.8	25.5	55	−14	2.5	−1.9	4.7	0	0	26	0	0	19	0	0	0	1	6	4	0
	1730	,,	994.4	982.6	..	36.6	25.6	19.5	23.8	46	..	2.9	..	3.1	0	0	22	0	1	12	0	0	0	3	6	8	0
Lucknow	0830	111	998.2	986.5	−0.3	31.9	24.8	21.0	24.9	56	−5	2.3	−1.0	2.2	0	0	20	0	4	3	4	0	3	4	2	10	0
	1730	,,	994.1	982.4	..	36.4	26.1	21.0	24.9	44	..	2.5	..	2.8	0	0	21	0	5	1	2	0	2	10	1	9	0
Lucknow (Amausi)	0230	128	996.4	982.3	..	29.1	23.6	20.6	24.3	63	..	2.3	..	3.0	0	0	16	1	0	6	3	0	0	3	3	14	0
	0530	,,	996.7	982.7	..	27.9	23.3	20.6	24.3	68	..	2.6	..	4.0	0	0	17	1	1	6	1	0	1	5	2	13	0
	0830	,,	998.2	984.1	−0.9	32.4	25.1	21.2	25.1	55	−1	3.2	−0.1	12.7	0	11	17	2	1	6	5	0	0	5	9	2	0
	1130	,,	997.7	983.8	..	36.3	25.8	20.1	23.5	44	..	2.9	..	14.2	0	10	18	2	5	3	5	2	0	3	8	2	0
	1430	,,	995.5	981.7	..	38.0	25.9	19.3	20.4	40	..	3.4	..	16.6	0	12	16	1	2	4	3	2	0	9	7	2	0
	1730	,,	994.1	980.4	..	37.0	25.6	19.4	22.5	42	..	2.9	..	14.4	0	6	22	3	2	6	6	0	0	7	4	7	0
	2030	,,	995.7	981.7	..	32.9	25.1	20.7	24.4	53	..	2.3	..	5.5	0	0	25	0	1	7	4	2	1	6	4	5	0
	2330	,,	996.9	982.8	..	30.5	24.5	21.0	24.9	60	..	2.3	..	4.9	0	0	19	0	0	3	5	1	1	4	5	11	0
Faizabad	0830	102	998.1	986.9	..	31.7	25.1	21.7	25.9	59	..	2.7	..	4.5	0	0	25	0	3	6	8	1	0	7	0	5	0
	1730	,,	994.6	983.5	..	35.6	26.0	21.0	25.0	48	..	3.2	..	4.7	0	0	25	0	5	2	5	0	1	10	1	6	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur	0830	77	998·3	990·0	−1·4	32·7	26·3	23·0	29·0	62	−11	2·9	−0·5	2·1	0	0	30	1	4	17	2	1	0	4	1	0	0
	1730	,,	993.6	985·3	..	37·7	26 1	19·9	24·4	41	..	2·6	..	2·8	0	0	29	3	9	1	2	0	5	8	1	1	0
Gorakhpur (P.B.O.)	0230	78	997.0	998·4	..	30·0	24·4	21·8	26·1	66	..	2·7	..	6·6	0	0	27	1	7	8	4	0	0	5	2	3	0
	0530	,,	997·7	989·0	..	28·2	24.0	21·8	26·1	70	..	3·3	..	6·3	0	0	27	2	8	8	4	0	0	4	1	3	0
	1130	,,	997·8	989·5	..	35·2	27·0	23·9	29·7	56	..	3.4	..	9·3	0	0	30	0	3	6	8	5	1	4	3	0	0
	1430	,,	995.7	987.2		37.3	26·7	22.2	26.7	48	..	3.7	..	9.3	0	0	27	1	1	6	8	0	1	8	2	3	0
	2030	,,	986.5	987.9		33.1	25.2	21.7	25.9	55	..	1.9	..	5.4	0	0	25	1	6	7	3	0	3	5	0	5	0
	2330	,,	997·5	988·8	..	31·5	24·9	21·9	26.3	61	..	2·2	..	6·5	0	0	28	0	7	5	7	0	3	4	2	2	0
Kanpur	0830	126	998.3	984·4	−0.6	32·9	25·7	22·2	26·7	56	−2	2·7	+0·5	10·1	0	0	29	5	3	6	0	0	1	9	5	1	0
	1730	,,	994·7	981·2	..	38·0	27·2	22·2	26·7	44	..	2·5	..	10·6	0	2	26	5	2	6	0	0	1	9	5	2	0
Kanpur (Aerodrome)	0530	126	996·7	983·1	..	29·5	22·5	17·9	20·5	55	..	3·4	..	7.9	0	0	23	1	3	4	3	2	0	7	3	7	0
	0830	,,	998·3	984·6	..	33·6	23·8	17·7	20·1	44	..	3·3	..	14.8	0	3	26	4	1	3	8	1	0	6	6	1	0
	1130	,,	997·7	984·2	..	36·2	24.5	16·2	18·4	33	..	3·2	..	16.4	0	6	24	5	2	2	5	1	2	4	9	0	0
	1730	,,	994.3	980·9	..	38·1	23·4	14 6	16·6	32	..	3·4	..	13.8	0	6	24	2	1	4	2	1	0	9	11	0	0
	2330	,,	997·0	983·3	..	32·3	23·4	17·8	20·4	47	..	2·5	..	10·6	0	1	25	0	1	7	2	1	2	8	5	4	0
Sultanpur	0830	97	999·6	988.9	..	32·7	25·2	21.1	25·0	53	..	2·9	..	2·4	0	0	22	0	1	7	4	0	0	5	5	5	0
	1730	,,	994·3	983·8	..	37·9	26·2	20·0	23·4	43	..	3·0	..	2.1	0	0	21	0	3	9	0	0	1	5	3	9	0
Azamgarh	0830	78	998·1	989·5	..	32·1	29·9	29 0	39·8	86	..	3·3	..	6.5	0	0	30	4	1	13	1	1	1	8	1	0	0
	1730	,,	994·3	986·2	..	38·8	32·9	31·6	47·5	64	..	2·4	..	6·1	0	0	30	2	1	13	0	0	0	14	0	0	0
Fatehpur	0830	114	998·4	985·9	..	33·7	24·3	18·7	21·6	46	−16	3·4	−0·2	7·5	0	0	25	2	3	4	4	0	0	5	7	5	0
	1730	,,	994·6	982.3	..	37·9	24·8	16·7	19·0	36	..	3·2	..	9·6	0	0	28	0	4	3	4	0	1	6	10	2	0
Ballia	0830	64	999·9	993·6	..	31·5	25·9	23·2	28·4	64	..	3·5	..	2·1	0	0	16	0	0	8	4	0	0	2	2	14	0
	1730	,,	995·4	983·4	..	36·8	28·1	25 0	31·7	54	..	3·3	..	2·5	0	0	21	0	0	5	6	0	0	9	1	9	0
Banda	0830	121	999·2	985·9	..	34·4	24·4	19·0	22·4	45	..	2·9	..	3·2	0	0	25	0	3	1	2	0	5	2	12	5	0
	1730	,,	994·9	982·1	..	37·5	25·4	18·2	20·0	34	..	3·4	..	5·7	0	0	27	1	3	2	2	0	4	7	8	3	0
Allahabad (Bamrauli)	0230	98	996·5	985·7	..	30·7	23·3	19·5	22·7	54	..	2·8	..	1·8	0	0	19	1	2	3	1	0	3	9	2	11	0
	0530	,,	997·0	986·7	..	29·7	23·1	19·0	22·0	57	..	3·7	..	2·3	0	0	21	1	3	6	0	0	2	8	1	9	0
	0830	,,	998.3	987·6	−0·6	30·3	24·6	19·4	22 5	48	−8	3·4	−0·4	4·[illegible]	0	0	28	2	3	9	0	0	1	11	2	2	0
	1130	,,	997·6	987·1	..	38·1	24·6	17·7	20·2	36	..	3 2	..	6·1	0	0	27	2	3	6	0	1	0	8	7	3	0
	1430	,,	995·7	985.1	..	38·9	25·3	17·4	19·9	36	..	4·0	..	7·4	0	0	29	2	4	5	1	0	0	10	7	1	0
	1730	,,	991 5	983·9	..	37·6	24·8	16·9	19·3	39	..	3·6	..	6.9	0	0	30	2	4	3	2	1	1	8	9	0	0
	2030	,,	996.0	985.3		34.0	24.6	18.7	21.6	48	..	3.2	..	2.3	0	0	19	0	4	3	2	1	1	6	2	[illegible]	0
	2330	,,	997.0	986.2		31.9	24.2	19.7	22.9	54	..	2.7	..	1.1	0	0	10	0	0	3	1	1	0	5	0	20	0
Varanasi (Babatpur)	0530	85	997·9	988·3	..	29·4	22·6	18·5	21.3	58	..	3 9	..	6·4	0	0	22	0	3	11	1	1	1	4	0	8	1
	0830	,,	999·3	989·7	−0·2	32·9	24·7	20·2	23·7	54	−7	3·6	−0·1	11·4	0	4	22	0	2	8	1	1	0	7	5	4	2
	1130	,,	998·6	989·2	..	36·1	25·5	19·5	22·7	41	..	3 5	..	12·9	0	7	23	0	2	8	2	0	0	4	7	0	7
	1730	,,	995·4	985·8	..	37·6	25·2	17·2	19·6	41	..	2·9	..	14·7	0	9	20	0	1	5	2	0	0	9	8	1	4
	2330	,,	997.7	988·2	..	31·7	23·9	19·1	22·1	54	..	3·0	..	5·7	0	0	16	0	0	10	0	0	0	4	2	14	0
Varanasi	0830	76	998·1	989·6	−1.2	31·4	25·3	22·4	27·1	62	+1	4·1	+0·1	2.1	0	0	29	1	10	3	3	0	0	11	1	1	0
	1730	,,	994·1	986·1	..	37·1	25·7	18.5	21·3	42	..	4·0	..	2.5	0	0	29	4	5	3	0	0	1	9	7	1	0
Uttar Prades (West)																											
Mukhim	0830	..	..	..	..	20.7	15.3	11.5	13.6	60	..	4.0	..	3.4	0	0	25	1	0	8	1	7	4	3	1	5	0
	1730	..	..	..	..	22.4	16.1	11.5	13.6	55	..	5.5	..	4.9	0	0	22	0	5	4	0	0	2	10	1	8	0
Tehri	0830	..	..	..	..	27.2	20.0	15.6	17.7	52	..	2.9	..	1.4	0	0	13	1	3	5	0	2	1	0	1	17	0
	1130	..	..	..	..	33.3	21.4	14.2	16.2	34	..	3.1	..	3.0	0	0	22	8	3	2	5	3	0	0	0	8	1
	1730	..	..	..	..	35.2	21.6	13.0	15.0	30	..	4.1	..	8.2	0	0	29	1	1	0	6	8	3	4	6	1	0
Dehra Dun	0530	692	998.3	924·1	..	24·7	19·8	16·6	18.9	64	..	3.5	..	0.7	0	0	7	3	2	0	0	0	0	1	1	23	0
	0830	,,	998·4	925·1	−0·7	28·4	21·7	17.8	20·4	56	−4	3·3	−0·1	1.4	0	0	18	3	0	1	2	4	2	5	1	12	0
	1130	,,	997·1	924·9	..	33·1	22·5	16·4	18·6	42	..	3·8	..	3·0	0	0	21	2	1	0	2	4	4	8	0	9	0
	1730	,,	993·6	921·8	..	33·7	22·7	16·3	18·2	41	..	3·5	..	3·9	0	0	27	2	1	1	1	6	5	10	1	3	0
	2330	,,	997·2	923·8	..	27·9	21·5	17.7	20·2	57	..	3·0	..	1·7	0	0	13	5	5	0	0	1	0	0	2	17	0
Mansiari	0830	..	..	..	..	17.9	13.8	11.4	13.5	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18.9	14.2	11.1	13.2	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	999·1	969·1	0	30·9	22.7	17·8	20·3	49	−8	3·2	+0·3	1·4	0	0	20	0	0	0	13	0	0	0	7	10	0
	1730	,,	995·0	965·8	..	37·6	24·2	16·1	18·3	33	..	3·0	..	1·7	0	0	23	0	0	0	9	0	0	0	14	7	0
Najibabad	0830	270	998·9	969·3	..	30·9	23·3	18·0	21·8	52	..	2·7	..	5·9	0	0	27	0	0	8	9	0	2	5	3	3	0
	1730	,,	996·5	967.4	..	36·2	24·7	18·3	21·0	38	..	2·5	..	7·9	0	1	29	0	0	6	6	0	2	16	0	0	0
Meerut	0830	222	998·6	974·3	−0·5	31·4	23·9	19.7	22·9	52	−4	2·1	−1·0	0·9	0	3	27	1	0	3	9	0	0	0	17	0	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1964 (JYAISTHA 11—ASADHA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd.*)																											
Bareilly	0830	173	998·1	979·2	−0·9	33·6	24·0	18.5	21 3	45	−19	3·0	−0·3	9·1	0	2	28	5	1	0	5	10	1	2	6	0	0
	1730	,,	993·9	975·4	..	38·3	24·8	17·0	19·4	32	..	2·2	..	7.3	0	2	28	5	0	1	5	7	0	0	12	0	0
Bareilly (P B O.)	0230	172	996·6	984·9	..	31·0	22 6	18·3	21·0	49	..	2·1	..	6·9	0	0	29	1	2	9	3	0	1	9	4	1	0
	0530	,,	997·2	984·8	..	29·4	22·2	18·3	21·0	54	..	2.7	..	5·9	0	0	29	1	2	12	0	0	0	5	9	1	0
	1130	,,	997·7	979·0	..	36·9	24·3	18·3	21·0	38	..	3·1	..	10.1	0	3	27	2	0	0	9	4	0	1	6	8	0
	1430	,,	995.3	976.8	...	38.6	24.5	17·7	20·2	32	..	3.6	..	9.5	0	0	29	2	2	6	2	0	2	7	8	1	0
	2030	,,	995.9	976.7	..	34.6	23.9	18·6	21.4	41	..	1.6	..	7.4	0	0	29	0	0	11	2	0	0	12	4	1	0
	2330	,,	996·7	977·9	..	32·4	23·2	18·6	21.1	47	..	2·0	..	5·8	0	0	25	0	0	12	1	1	1	7	3	5	0
Aligarh	0830	187	998·2	977·6	..	32·3	23 6	18·5	21·3	47	−9	2·8	+0·5	4·5	0	0	30	1	0	9	2	1	3	8	6	0	0
	1730	,,	994·0	973·9	..	38·2	24·2	15.6	17·7	29	..	2·5	..	4·3	0	0	29	5	0	8	0	1	2	12	1	1	0
Mainpuri	0830	157	998·1	980·9	−0.5	32·9	25·1	21·4	25·5	51	−2	0·5	−2·5	2·0	0	0	28	2	8	2	1	3	5	2	5	2	0
	1730	,,	994·0	977.1	..	39·0	26·4	20·4	23.7	36	..	0·7	..	2·0	0	0	30	4	4	1	2	2	8	3	6	0	0
Agra	0830	169	998·7	980·4	+0 1	33·9	24·4	19·1	22·1	44	1	0·7	−1·9	0.4	0	0	2	0	0	0	1	0	1	0	0	28	0
	1730	,,	994·4	976·4	..	39·4	26·1	19·3	22·8	34	..	3·5	..	2·3	0	0	9	0	2	0	0	0	4	0	3	21	0
Agra (Aerodrome)	0530	169	997·3	978·7	..	30·1	24·1	21·1	25.0	64	..	2·7	..	11·3	0	5	20	2	0	4	4	1	0	7	7	5	0
	0830	,,	998·5	980·0	..	33·1	25.8	22·2	26·8	55	..	2 7	..	17·6	0	8	20	1	0	2	4	2	1	9	9	2	0
	1130	,,	997.9	979·8	..	38·1	27.7	22.7	27·6	41	..	3·0	..	20·0	0	13	17	5	1	1	3	2	0	6	11	0	1
	1730	,,	994·6	976·4	..	38 9	27.2	21·7	25·9	41	..	3·9	..	22·3	0	12	18	3	3	3	1	1	1	7	11	0	0
	2330		997·0	978·5	..	32·0	25.2	21·5	25·6	56	..	2·3	..	15·4	0	7	21	3	0	5	4	0	1	7	7	2	1
Orai	0830	141	999.7	984·4	.	35·0	25·9	21·4	25·9	48	..	1·0	..	2·7	0	0	30	0	6	0	1	0	8	0	15	0	0
	1730	,,	996·7	981.5	..	37·6	26·8	21·9	26·3	45	..	0·8	..	2·6	0	0	29	0	2	2	1	0	8	1	15	1	0
Jhansi	0830	251	999·7	972·1	+0·1	33·4	23.3	17·7	20·2	42	−8	2·4	−0.3	2.9	0	0	27	8	1	1	0	0	0	3	14	3	0
	1730	,,	994.8	968·2	..	38·4	24.1	15·1	17·0	31	..	4·1	..	1.2	0	0	25	9	1	3	0	0	0	5	7	5	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	997·5	963.2	..	28·5	20.5	15·3	17·4	47	..	2·7	..	4.4	0	0	15	1	5	4	2	2	1	0	0	15	0
	0830	,,	998·5	961·6	+0·6	32·2	21.5	14·2	16·2	37	+2	2·4	−0·2	10·6	0	3	24	2	14	2	4	4	0	0	1	3	0
	1130	,,	997·8	964·3	..	35·7	22·6	13·6	15·6	30	..	2·8	..	11·5	0	3	23	1	2	1	2	8	8	3	1	4	0
	1730	,,	994·1	960·9	..	37·9	22·9	11·6	13·6	24	..	3·3	..	13·5	0	3	26	6	0	2	0	0	10	8	3	1	0
	2330	,,	996·4	962 5	..	31·2	21.4	15·5	17·6	39	..	2·7	..	6·5	0	0	20	3	6	5	2	1	1	2	0	10	0
Amritsar (Rajasansi)	0530	234	997·5	971.3	..	26·1	21·3	18·5	21·3	65	..	2·6	..	8·9	0	3	18	1	2	6	6	0	1	1	4	9	0
	0830	,,	998 3	972·7	+0·7	31·0	23·1	18·6	21·4	50	+3	2·0	+0·4	11·1	0	6	15	2	1	3	7	1	3	3	1	9	0
	1130	,,	998·0	972·7	..	35.8	24·2	17·6	20 5	37	..	2·3	..	11·7	0	2	25	2	3	4	5	3	2	6	2	3	0
	1430	,,	996 0	971.0	..	38·2	24·2	15.9	18·1	30	..	1.9	..	10·3	0	2	27	4	3	1	3	3	3	7	5	1	0
	1730	,,	994·1	969·2	..	38·3	23·6	14·6	16·6	27	..	2·4	..	12·5	0	4	20	1	3	1	0	0	4	7	8	6	0
	2030	,,	995·3	969·8	..	32.2	23·2	18·2	20·9	45	..	2.6	..	9·3	0	3	19	1	2	2	1	0	1	9	6	8	0
Adampur (Aerodrome)	0830	249	998·3	971·1	..	31·7	23·6	20·2	23·7	52	..	2·4	..	7·1	0	14	12	3	0	0	11	2	2	3	4	4	1
	1730	,,	994 3	967·7	..	31·7	24·1	17·8	20·4	33	..	2·4	..	19·0	0	21	8	1	1	0	3	0	0	13	11	1	0
Ludhiana	0830	247	997·9	970·8	−0·5	31·8	23·2	18·2	20·9	46	−3	1·7	−0·2	3·9	0	0	25	2	4	1	8	3	1	3	3	5	0
	1730	,,	994.1	967·5	..	39·8	24·0	14·4	16·4	24	..	2·0	..	3·8	0	0	28	2	1	2	2	0	0	2	19	2	0
Ferozepur	0830	200	998·5	976·4	..	30·8	23·6	20·1	23·5	53	..	1·2	..	3·9	0	0	27	1	10	0	2	0	5	1	8	3	0
	1730	,,	995·7	974·3	..	38·4	25·8	19·2	22·2	35	..	0·7	..	1·9	0	0	22	1	7	0	0	0	1	0	13	8	0
Halwara (Aerodrome)	0830	242	999.3	973·1	..	32·0	23·0	17·6	20·1	45	..	1·8	..	13·5	0	7	22	6	1	1	8	1	3	3	6	1	0
	1730	,,	995·5	970.0	..	38.9	23·3	13·3	15·3	24	..	2·4	..	12·0	0	4	26	4	1	1	3	2	1	1	17	0	0
Chandigarh	0830	347	997·9	959·9	+0·4	32·1	22·5	16·3	18·5	42	−4	1·3	−0·1	2·4	0	0	19	0	0	0	6	0	0	0	13	11	0
	1730	,,	993·0	956·0	..	36·7	24.8	18·0	20·6	36	..	2·1	..	3·2	0	0	25	0	3	0	0	0	0	0	22	5	0
Ambala	0830	272	998.2	968·7	0	31·4	22·2	16·3	18·5	42	−5	1·9	−0·3	2.9	0	0	19	1	0	0	10	0	1	2	5	11	0
	1730	,,	993.9	964·9	..	38·2	24·2	15.1	17·2	27	..	1·6	..	4.7	0	0	26	0	5	0	5	0	2	5	9	4	0
Ambala (P.B.O.)	0230	278	996·1	965·7	..	30·3	21·9	17·7	20·2	49	..	(b) 1·7	..	10·9	0	2	26	2	1	2	10	0	0	5	8	2	0
	0530	,,	996·6	966·0	..	28·9	21·6	17·9	20·5	53	..	3·0	..	8·4	0	3	20	3	1	4	8	0	0	3	4	7	0
	1130	,,	997.3	967·4	..	35·9	24·6	19·8	23·1	41	..	2·5	..	10·7	0	4	21	2	1	1	8	1	0	3	9	5	0
	1430	,,	995·2	965·3	..	38·5	25·1	19·3	22·4	35	..	2 8	..	11·8	0	4	26	0	3	1	8	1	0	6	11	0	0
	2030	,,	994·4	964·5	..	34·7	23·3	17·8	20·4	39	..	2·7	..	8·0	0	0	28	2	1	1	8	0	0	5	11	2	0
	2330	,,	995 9	965·7	..	32·3	22·6	17·9	20·5	45	..	(b) 2.1	..	10·3	0	1	25	1	1	2	8	0	0	3	11	4	0
Ambala (Aerodrome)	0530	274	996·9	966·6	..	27·7	21·2	17·1	19·5	54	..	2·7	..	12.3	0	7	19	2	1	10	2	0	1	4	6	4	0
	0830	,,	997·8	968·0	..	31·7	22·7	17·1	19·5	45	..	2·4	..	5.8	0	7	20	1	1	2	11	0	0	5	7	3	0
	1130	,,	997·1	967·6	..	36·1	23·6	15·6	17·7	33	..	2.1	..	17.3	0	12	16	1	0	0	11	0	1	4	10	2	1
	1730	,,	993·3	964·2	..	38·1	23·9	14·0	16·0	27	..	2·4	..	20.0	0	16	12	0	0	4	3	0	2	7	12	2	0
	2330	,,	996.0	966·1	..	31·0	22·1	16·3	18·5	44	..	(b) 1·9	..	14·3	0	4	20	1	0	8	3	0	1	6	5	4	0

(b) Mean of 29 days

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)																											
Patiala	0830	251	998·9	971.6	..	32·3	23·6	19·1	22·1	47	..	1·8	..	9·3	0	3	17	1	0	0	11	0	0	0	8	10	0
	1730	,,	993·9	967·3	..	39.1	24·4	16·5	18·8	28	..	2·0	..	9·8	0	3	21	0	0	0	3	0	0	0	21	6	0
Bhatinda	0830	211	998.3	975.2	..	34·1	26·4	22·8	27·7	53	..	1·0	..	3·9	0	0	23	0	2	0	5	0	3	1	12	7	0
	1730	,,	992·9	970·5	..	39·5	28·4	23·1	28·3	40	..	0.5	..	2·3	0	0	20	2	3	0	4	0	0	0	11	10	0
Karnal	0830	249	997·7	970.5	..	31·3	24·6	21·6	25·8	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	993.4	966.9	..	37·7	25·5	19·2	22·2	37	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	997·6	973.0	..	28·5	23·4	20·8	24.7	64	..	2·6	..	3·9	0	1	19	0	1	1	3	1	5	5	4	10	0
	0830	,,	998·7	974·5	+0·6	31.4	25·7	23·0	28.1	62	+14	1·6	+0·1	6·0	0	1	29	3	0	0	4	2	3	16	2	0	0
	1130	,,	997·9	974.0	..	37.0	27·8	23·7	29.6	48	..	2·7	..	7·5	0	0	29	2	0	1	0	1	8	8	9	1	0
	1730	,,	994.4	970.7	..	38.2	27·4	22·4	27 1	42	..	4·1	..	9·0	0	3	24	2	2	2	1	3	3	9	5	3	0
	2330	,,	996·7	972.5	..	31.7	24·5	20·9	24·7	53	..	(d) 2·3	..	3.7	0	0	17	1	1	1	1	0	2	4	7	13	0
New Delhi (Safdarjung)	0230	216	996·9	973·2	..	31.0	22·4	17·2	19.6	45	..	2.0	..	12.0	0	3	26	0	0	6	4	1	4	10	4	1	0
	0530	,,	997.3	973·5	..	29.8	22·3	17·8	21·7	51	..	2.5	..	11.0	0	1	27	0	0	7	2	0	4	8	7	2	0
	0830	,,	998·6	974·9	−0·3	32.1	23·0	17.7	20.2	45	−1	2·2	−0·3	16.7	0	10	20	0	1	5	2	1	3	10	8	0	0
	1130	,,	998·1	974·5	..	36.5	24 3	17.3	19.7	33	..	2·2	..	18.0	0	15	15	2	3	4	1	0	2	6	12	0	0
	1430	,,	995·9	973·2	..	38.4	24·4	16.3	18.5	29	..	3·0	..	19·0	0	15	13	5	2	2	0	0	1	9	9	2	0
	1730	,,	994.6	971·4	..	38.2	23·9	15·1	17·1	28	..	3·6	..	19·0	0	11	17	0	2	2	0	2	3	8	11	2	0
	2030	,,	994·9	972·6	..	34·9	23·5	16·8	19·1	36	..	3·3	..	13·0	0	5	21	0	1	5	2	1	5	7	5	4	0
	2330	,,	996·8	973·2	..	32·7	23·1	17·3	19·7	41	..	1·6	..	13·0	0	5	25	0	1	5	5	1	7	5	6	0	0
Palam (Aerodrome)	0230	230	997·1	971·5	..	30·5	21·9	16·4	18.6	46	..	1·8	..	13·7	0	4	26	2	1	1	6	2	3	11	4	0	0
	0530	,,	996·4	970·3	..	28·8	21·7	17·3	19·7	52	..	2·6	..	13·2	0	6	23	2	1	0	7	1	6	7	5	1	0
	0830	,,	998·5	972·9	..	32·2	23·1	17·8	20·4	43	..	2·1	..	8·4	0	10	19	3	0	0	3	4	2	8	9	1	0
	1130	,,	998·0	972·9	..	37·3	23·8	16·2	18.4	30	..	2·2	..	19·2	0	9	20	8	0	1	2	0	5	3	9	1	1
(R)	1430	,,																									
	1730	,,	994·5	969·8	..	38·8	24·1	15·3	17·4	27	..	3·9	..	21·4	0	10	20	4	0	2	4	0	3	8	9	0	0
(R)	2030	,,																									
	2330	,,	996·8	971·5	..	32·6	22·6	16·4	18·6	39	..	1·5	..	15·7	0	7	22	2	1	1	5	5	4	5	6	1	0
Himachal Pradesh																											
Mandi	0830	761	999·6	917·5	0	25·6	19·9	16·7	19·0	61	+4	3.7	+1·5	0·2	0	0	3	0	0	0	0	0	0	0	3	27	0
	1730	,,	994·7	914·8	..	32·8	21·1	13·5	15·5	35	..	4·2	..	0·4	0	0	4	0	0	0	0	0	0	0	4	26	0
Bilaspur	0830	587	1000·3	936·5	..	29·3	23·0	20·1	23·5	59	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	995·7	933·9	..	35·8	24·0	20·4	23·9	42	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3100·7	665·9	..	4·1	0·3	−5·1	4·0	51	..	1·7	..	6·0	0	0	27	18	4	0	0	2	2	0	1	3	0
	0830	,,	3105·9	666·5	+1·0	11.7	5·1	−1·2	5·5	40	−2	3·2	+0·1	3·1	0	0	22	0	0	0	0	18	3	0	1	8	0
	1730	,,	..	..	..	16·9	7·8	1·5	5·4	35	..	3·4	..	6·3	0	0	30	2	8	0	0	1	4	1	14	0	0
Srinagar	0830	1587	1462·2	837·9	+1·7	18·5	15·0	12.8	14·8	70	−5	2·4	+0·2	1·2	0	0	14	0	0	1	4	1	0	0	8	16	0
	1130	,	1456·2	837·4	..	22·7	16·8	12·8	14·8	56	..	2·9	..	2·8	0	0	20	3	0	1	3	2	0	2	9	10	0
	1430	,,	1441·2	836·2	..	24·9	17·3	12·7	14·7	49	..	4·1	..	3·0	0	0	22	1	0	0	1	3	1	4	12	8	0
	1730	,,	1432·4	835·3	..	23·9	16·5	12·0	14·0	49	..	4·6	..	4·8	0	2	20	3	2	1	6	0	0	2	8	8	0
	2030	,,	1441·5	835·0	..	19·4	15·7	13·5	15·5	70	..	3·4	..	2·3	0	0	18	5	0	1	4	1	1	2	4	12	0
Srinagar (Aerodrome)	0530	1666	1447·7	828.5	..	13·9	11·7	10·1	12·3	78	..	2·8	..	3·1	0	0	18	0	0	0	1	5	4	4	4	12	0
	0830	,,	1454.1	829·7	..	18·2	14·2	11·6	13·6	66	..	2·6	..	2·9	0	0	19	2	5	1	1	1	0	1	8	11	0
	1130	,,	1448·3	829·4	..	21·9	15·6	11·6	13·6	53	..	3·3	..	3·6	0	0	19	1	8	2	1	0	1	1	5	11	0
	1730	,,	1429·4	827·4	..	23·6	15·2	9·3	11·7	44	..	4·9	..	11·4	0	6	18	1	2	3	3	1	1	2	11	6	0
	2330	,,	1432·7	828·6	..	17·3	13·8	11·6	13·6	70	..	2·4	..	2·0	0	0	7	1	0	0	1	1	1	0	3	23	0
Gulmarg	0830	2655	3090·3	737·4	+0·1	14·0	10·2	7·0	10·0	64	−4	2·3	−0·4	3·8	0	0	17	2	10	4	0	0	0	0	1	13	0
	1730	,,	3082·8	736·6	..	14·4	10·5	7·0	10·0	63	..	5·1	..	5·6	0	0	20	1	5	2	1	3	3	4	1	10	0
Quazigund	0830	..	..	..	..	17·5	13·9	11·7	13·7	69	..	2·8	..	1.5	0	0	18	2	2	1	8	0	0	4	1	12	0
	1730	..	..	..	..	23·1	15·9	11·3	13·4	49	..	5·1	..	3·2	0	0	21	1	4	0	6	0	2	6	2	9	0
Banihal	0830	..		..	..	20·2	14·5	10·6	12·8	5[illegible]	..	2·5	..	4·3	0	3[illegible]	3	0	0	0	0	0	0	0	6	25	0
	1730	..	..	..	..	24·3	16·3	11·1	13·2	45	..	4·8	..	12·1	0	5	17	0	0	0	1	2	0	0	19	8	0

(R) Register not received.

(d) Mean of 27 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	SW	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir —(*Contd.*)																											
Jammu	0830	..	..	..	..	32·3	21·9	14·8	16·8	38	−6	2·3	+0·1	4·2	0	0	27	7	7	2	4	5	1	0	1	3	0
	1730	"	..	..	..	37·1	23·2	14·6	16·6	28	..	4·5	..	5·4	0	0	29	1	2	0	1	3	6	9	5	1	2
Jammu (Aerodrome)	0530	292	997·2	964·8	..	28·1	19·9	14·0	16.0	45	..	2·8	..	8·7	0	1	21	1	9	1	7	3	0	0	1	8	0
	0830	"	998·2	966·2	..	31·3	21·4	14·5	16·5	37	..	2·5	..	10·2	0	4	23	1	8	2	9	2	2	1	2	3	0
	1130	"	997·6	966·1	..	35·1	21·9	12.7	14·7	29	..	2·7	..	10·7	0	3	26	0	2	0	7	3	1	9	7	1	0
	1730	"	994.0	962·8	..	37·1	22·6	13·1	15·3	27	..	3·7	..	9·8	0	3	25	0	2	1	1	1	1	14	8	2	0
	2330	"	996·1	964·2	..	31·1	21·3	14·6	16·6	39	..	2·6	..	5·1	0	0	16	0	10	1	1	1	0	2	1	14	0
Rajasthan (West) Ganganagar	0530	177	997·1	977·5	..	29·2	21·7	17·2	19·9	50	..	2·1	..	4·2	0	1	17	0	1	0	1	1	10	3	2	12	0
	0830	"	998·2	978·7	+0·7	31·8	23·2	18·5	21·4	47	+4	2·1	+1·1	6·9	0	2	25	0	2	0	1	2	14	5	3	3	0
	1130	"	997·6	978·5	..	37·5	24·4	17·1	19·7	32	.	2·3	..	8·7	0	2	26	1	2	2	2	2	8	8	3	2	0
	1730	"	993·8	975·0	..	40·4	23·8	13·8	15·9	22	..	2·5	..	4.2	0	0	25	3	0	0	1	0	5	8	8	5	0
	2330	"	996·3	976·9	..	32·4	22·5	16·4	19·1	40	..	1·0	..	3·3	0	1	13	0	2	1	0	3	5	2	1	16	0
Anupgarh (R)	0830	154																									
(R)	1730	..																									
Mahajan	0830	187	997·4	976·8	..	32·5	26·7	23·9	29·7	63	..	1·1	..	(b) 11·4	0	2	27	2	1	0	0	1	22	2	1	0	0
	1730	"	992·8	972·8	..	39·0	28·2	23·2	28·4	45	..	2·0	..	(c) 7·9	0	0	27	1	1	0	1	1	11	9	3	1	0
Churu	0830	291	999·3	967·5	..	31·9	22·7	17·3	20·1	43	..	1·5	..	19·6	0	15	15	4	0	1	0	2	1	20	2	0	0
	1730	"	995·2	963·7	..	38·7	22·2	10·5	13·3	20	..	3·0	..	15·6	0	8	22	9	1	0	0	0	2	12	6	0	0
Bikaner	0830	224	999·2	974·6	+0·6	30·9	23·4	19·0	22·7	50	−1	0·9	−0·4	5·0	0	2	27	2	1	0	1	0	9	11	5	1	0
	1730	"	994·5	970·6	..	40·0	23·2	12·3	14·7	22	..	1·0	..	7·8	0	2	27	5	2	0	0	0	9	8	5	1	0
Bikaner (P.B.O.)	0530	224	997·8	973·0	..	29·6	22·5	18·4	21·4	54	..	2·1	..	6·1	0	0	26	1	1	0	2	3	13	3	2	4	1
	1130	"	998·5	974·2	..	35·9	24·2	17·6	20·5	37	..	1·6	..	9·3	0	1	29	0	2	0	1	2	14	8	2	1	0
	2330	"	997·1	972·6	..	33·3	22·4	15·6	18·2	38		1·2	..	6·7	0	0	26		1	1	1	1	16	4	1	4	0
Nagaur	0830	298	999.7	967.1	..	32·0	26·1	23.5	28·9	61	..	2·3	..	10·0	0	5	25	2	0	1	1	8	13	2	3	0	0
	1730	"	994.8	963.1	..	38·3	27·6	22·9	28·1	44	..	2·5	..	12·0	0		28	1	0	1	1	8	13	4	2	0	0
Phalodi	0830	234	1000·1	974·3	..	29·5	24·3	21·5	26·1	65		2·3	..	14·3	0	8	21	1	2	1	1	2	15	7	0	1	0
	1730	"	996·3	971·3	..	39·0	24·5	16·5	18·9	29	..	2·4	..	15·8	0	8	22	1	0	2	1	4	16	5	1	0	0
Jaisalmer	0830	242	999·2	972·4	..	28·4	24·0	22·3	26·9	70	..	2·8	..	18.1	0	12	17	2	1	1	0	14	11	0	0	1	0
	1730	"	994·7	968·8	..	37·9	26·8	21·5	25·6	41	.	2·2	..	17·2	0	8	22	1	1	0	1	13	13	1	0	0	0
Jodhpur	0230	224	998·5	973·8	..	30·4	23·4	19·9	23.1	54	..	2·9	..	14·7	0	9	18	1	1	0	1	2	15	6	1	3	0
	0530	"	999·2	974·2	..	28·4	23·7	21·2	25·3	66	..	3·7	.	13·2	0	6	24	0	1	0	1	3	11	13	1	0	0
	0830	"	1000·7	975·3	+1·7	29·7	24·3	21·7	25·9	63	+3	3·8	+1·0	15·3	0	8	19	0	1	0	0	1	17	8	0	3	0
	1130	"	1000·1	975·7	..	34·3	25·3	21·1	25·9	47	..	2·9	..	15·4	0	8	21	0	0	1	1	2	17	7	1	1	0
	1430	"	997·6	973·7	..	38·0	25·3	19·0	21·8	33	..	2·5	..	15·1	0	6	23	0	0	0	1	1	17	7	3	1	0
	1730	"	995·7	971·7	..	38·7	24·9	17·5	20·1	30	..	2·7	..	14·9	0	9	20	1	1	0	1	0	17	7	2	1	0
	2030	"	996·9	972·7	..	35·3	24·1	18·1	20·8	37	..	2·6	..	11·9	0	6	22	2	1	0	0	2	15	6	2	2	0
	2330	"	998·5	974·1	..	32·7	23·6	18·8	21·3	45	..	2·6	..	12·3	0	4	24	1	1	0	0	1	18	7	0	2	0
Barmer	0530	194	998·9	977·4	..	26·9	25·0	24·1	30·0	85	..	2·6	..	5·0	0	0	29	0	1	1	3	4	11	9	0	1	0
	0830	"	1000·1	978·6	+0·1	28·8	26·0	24·8	31·3	79	+9	3·0	0	4·2	0	1	24	0	0	0	5	3	11	6	0	5	0
	1130	"	999·4	978·2	..	33·4	27·2	24·6	30·9	61	..	2·6	..	5·6	0	1	29	0	0	0	2	3	22	2	1	0	0
	1730	"	995·3	974·5	..	37·8	28·7	24·9	31·3	50	..	2·9	..	4·1	0	0	29	0	1	0	0	3	18	5	2	1	0
	2330	"	998·2	977·0	..	23·3	27·2	25·3	31·9	67	..	1·6	..	5·7	0	1	27	0	0	1	1	2		12	1	2	0
Erinpura (Jawai Dam)	0830	295	1001·3	968·8	...	29·3	24·8	22·7	27·1	69	..	3·6	..	9·3	0	1	25	0	1	0	0	8	7	10	0	4	0
	1730	"	996·7	965·0	..	36·0	26·6	22·0	26·9	47	..	2·4	..	6·7	0	1	26	0	0	1	0	4	8	14	0	3	0
Munabao	0830																										
	1730																										
Rajasthan (East) Pilani (R)	0830	301	999·3	966·5	..	33·0	22·6	16·6	18·9	41	..	1·1	..	14·0	0	5	24	0	0	0	0	0	5	19	5	1	0
	1730	"	995·2	962·9	..	38·1	21·7	12·5	15·0	23	..	1·9	..	15·2	0	6	24	3	1	1	1	2	3	15	4	0	0
Sikar	0830	433	999·4	952·5	..	30·6	23·2	19·1	21·8	51	..	1·3	..	1·5	0	0	22	1	0	1	0		3	15	2	8	0
	1730	"	994·8	949·1	..	37·7	23·2	14·1	16·9	27	..	3·4	..	1·3	0	0	20	6	0	2	0	1	0	7	4	10	0
Alwar	0830	271	997·6	968·4	..	33·6	24·9	20·5	24·4	47	..	1·8	..	3·2	0	0	23	1	4	1	1	2	2	6	5	7	1
	1730	"	994·5	965·5	..	37·4	26·0	20·4	24·3	40	..	4·8	..	1·7	0	0	20	4	4	0	0	0	4	5	3	10	0
Jajpur (Sanganer)	0230	390	997·3	954·7	..	29·4	21·7	17·0	19·7	49	..	1·9	..	5·5	0	0	21	3	0	0	0	0	4	7	7	9	0
	0530	"	998·1	955·2	..	28·2	21·2	16·8	19·5	51	..	2·7	..	6·3	0	0	22	1	0	0	0	1	1	8	11	8	0
	0830	"	999·0	956·7	−0·7	31·4	22·9	17·9	20·0	46	−2	2·6	+0·4	14·3	0	9	20	1	1	0	0	0	4	9	14	1	0
	1130	"	998·2	956·4	..	35·7	23·7	16·8	19·5	33	..	2·6	..	14·6	0	4	25	2	0	0	1	0	2	8	16	1	0
	1430	"	995·7	954·1	..	38·2	23·5	14·4	16.8	27	..	3·6	..	11·6	0	1	26	0	0	0	3	1	2	11	10	3	0
	1730	"	994·5	953·0	..	36·9	23·0	14·1	16·7	29	..	4·0	..	11·3	0	2	25	1	2	2	0	2	1	8	11	3	0
	2030	"	996·0	954·1	..	33·7	22·7	16·0	18·5	37	..	3·9	..	5·4	0	1	18	1	2	2	1	0	1	6	6	11	0

(b) Mean of 29 days. (c) Mean of 28 days. (R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level (or height in c.p.m. of nearest standard isobaric level)	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 26 to 61	Wind speed (km.p.h.): 1 to 12	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Var-ble
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East) —*Contd.*																											
Jaipur (Sanganer) —*Contd.*	2330	390	997·3	955·2	..	31·2	22·2	16·9	18·9	44	..	3·1	..	3·6	0	0	12	0	1	1	0	0	4	3	3	18	0
Dholpur	0830	176	998·3	979·2	..	34·1	23·9	18.1	21·1	40	..	2·1	..	7·1	3	2	22	3	1	0	1	1	2	11	5	6	0
	1730	„	991·0	975·2	..	39·5	25·0	16·9	19·7	28	..	4·4	..	8·3	0	2	24	9	3	0	0	1	1	8	4	4	0
Ajmer	0830	486	999·9	947·1	−0·5	29·4	22·2	18·4	21·4	54	−2	3·1	+0·9	26·0	0	16	14	1	1	0	1	1	14	12	0	0	0
	1730	„	994·9	943·6	..	36·3	22·7	15·2	17.5	36	..	3·9	.	17·0	0	9	21	1	2	0	1	1	12	10	3	0	0
Tonk	0830	272	998·6	969·0	..	32·1	26·0	22·8	28·4	60	..	2·5	..	12·9	0	2	28	2	1	0	0	0	4	14	9	0	0
	1730	„	993·3	964·6	..	38·5	27·1	21·1	25·0	41	..	4·3		9·4	0	2	28	1	2	1	1	1	6	9	9	0	0
Bhilwara	0830	425	1000·3	954·3	..	30·2	22·7	18·1	21·4	50	..	4·0	..	14·1	0	5	25	1	0	0	0	1	16	7	5	0	0
	1730	„	995·8	950·4	..	36·2	23·1	14·9	17·5	32	..	5·5	..	13·0	0	4	26	1	0	1	0	3	16	6	3	0	0
Kota (Aerodrome)	0530	274	998·5	968·5	..	30·0	22·0	16·8	19·9	49	..	3·6	..	16·8	0	13	16	0	0	0	0	0	10	15	4	1	0
	0830	„	1000·0	970·2	..	32·3	23·2	17·8	20·9	45	..	3·1	..	20·3	0	17	13	0	0	0	0	0	4	25	1	0	0
	1130	„	999·4	969·9	..	36·1	23·7	16·1	18·3	34	..	3·4	..	18·4	0	15	15	1	0	1	0	0	1	17	10	0	0
	1730	„	995·1	965·9	..	38·0	23·2	13·1	15·1	27	..	4·8	..	16·5	0	8	22	3	0	1	2	0	10	9	5	0	0
	2330	„	998·4	968·6	.	32·4	22·4	15·9	18·1	43	..	4·4	..	17·2	0	14	15	0	1	2	0	0	14	7	5	1	0
Kota	0830	257	999·8	971·8	0	33·2	24·2	19·7	22·8	47	0	2·3	−0·3	18·0	0	9	21	0	0	0	0	0	2	15	13	0	0
	1730	„	995·1	967·6	.	37·1	24·6	17·4	19·7	3	..	4·3	..	14·1	0	6	19	2	1	0	0	0	5	9	8	5	0
Chambal (Rawat Bhatta Dam)	0830	351	1000·6	962·1	.	30·2	23·2	19·2	22·7	54	..	1·8	..	13·3	0	3	24	1	1	0	0	1	8	10	8	1	0
	1730	„	995·5	958·7	..	36·5	23·2	14·2	16·2	31	..	4·1	..	15·2	0	8	22	0	2	1	1	5	7	8	6	0	0
Udaipur	0230	582	1000·1	937·2		27·7	22·4	19·7	23·1	64	..	3·1	.	4·8	0	0	22	0	0	0	0	6	9	5	2	8	0
	0530	„	1000·5	937·1		26·2	22·2	19·8	23·5	68	..	3·9	.	2·0	0	0	9	0	0	0	1	3	3	0	1	21	1
	0830	„	1001·3	938·3	−0·1	23·7	23·0	20·2	23·8	62	−1	3·5	+1·1	3·7	0	0	20	0	0	0	0	5	12	1	2	10	0
	1130	„	1000·4	938·2		32·7	23·5	19·8	22·1	47	..	3·2	..	5·2	0	0	27	1	1	0	2	5	12	3	3	3	0
	1730	„	997·2	935·4		33·4	23·7	18·8	22·1	46	..	4·4		5·5	0	0	29	0	1	0	1	5	16	5	1	1	0
	2330	„	1000·5	937·5		28·7	22·6	19·4	22·8	60	..	3.2	..	5.1	0	1	19	0	1	1	0	2	13	1	2	10	0
Bhilwara	0830	32[illegible]	999·7	964·7	−0·5	30·9	23·6	19·6	23·0	52	−11	2·2	−0·9	11·7	0	6	23	1	1	0	0	0	11	12	4	1	0
	1730	„	995·1	960·7		37·7	24·1	15·4	17·5	32	..	4·1		14·3	0	6	24	2	1	0	0	1	11	12	3	0	0
Madhya Pradesh (West)—																											
Gwalior	0230	2[illegible]	996·7	974·1	.	31·3	22·3	16·2	19·1	42	..	2·5	..	7·0	0	2	19	1	0	0	3	4	3	7	3	9	0
	0530	„	997·3	974·6	..	30·8	22·0	16·3	19·2	45	..	4·0	..	5·3	0	1	18	1	0	0	2	2	2	8	3	11	1
	0830	„	998·5	976·0	..	34·0	23·2	16·5	19·6	38	−5	3·6	+1·1	9·6	0	1	26	0	1	0	1	1	3	10	11	3	0
	1130	„	998·0	975·7		37·9	23·8	15·0	17·9	29	..	(b) 3·0	..	15·0	0	6	24	4	2	0	0	0	2	7	15	0	0
	1430	„	995·6	973·6	.	39·9	23·8	13·4	16·3	24	..	5·1	..	12·0	0	3	27	5	2	1	0	2	1	8	11	0	0
	1730	„	994·2	972·2	..	38·7	23·7	14·0	17·0	28	..	4·9	..	13·5	0	5	25	7	4	1	2	2	3	3	8	0	0
	2030	„	995·8	973·5	..	35·2	23·3	15·7	18·0	36	..	4·3	..	8·0	0	2	24	4	0	1	5	1	2	6	7	4	0
	2330	„	997·1	974·5	..	32·9	22·6	16·0	19·0	40	..	3·4	..	7·2	0	2	18	1	0	2	3	2	4	5	3	10	0
Sheopur	0830	23[illegible]	999·6	974·0	+0·4	32·2	23·3	18·2	21·3	46	−6	(b) 3·1 (b)	−0·7	14·0	0	6	24	3	2	0	0	3	5	9	6	0	2
	1730	„	994·1	969·4	..	38·1	23·6	14·3	17·3	29	..	5·0	..	17·1	0	11	19	4	2	0	1	2	4	9	8	0	0
Shivpuri	0830	464	998·8	948·7		31·3	19·9	12·2	14·9	34	..	2·1	..	9·0	0	1	27	2	7	0	0	0	1	8	10	2	0
	1730	„	994·4	945·3	..	36·5	20·8	9·7	13·0	20	..	4·7	..	8·7	0	0	30	6	2	0	0	0	1	6	15	0	0
Guna	0830	229	998·7	973·8	−0·6	32·6	23·5	17·8	21·4	45	−9	4·2	+0·2	8·9	0	0	28	0	2	1	1	0	8	9	5	2	0
	1730	„	994·7	970·2	.	27·2	24·1	15·1	19·3	36	..	4·2	..	5·1	0	0	25	1	7	1	1	0	4	4	7	5	0
Tikamgarh	0530	478	999·2	946·8	..	26·7	21·4	18·4	21·6	64	..	4·6	..	11·4	0	7	21	1	0	0	0	2	7	16	2	2	0
	0830	„	999·9	943·2	−0·2	30·5	23·5	19·7	23·8	57	+1	4·0	+1·4	17·0	0	13	17	1	0	0	2	2	1	22	4	0	0
	1130	„	998·7	947·8	..	35·3	24·9	19·9	23·8	45	..	4·3	..	19·0	0	12	18	3	0	0	0	1	3	10	13	0	0
	1730	„	994·8	944·2	..	35·8	24·5	18·4	22·4	44	..	5·4	..	17·8	0	12	18	4	0	0	2	3	6	5	10	0	0
	2330	„	999·0	947·0	..	28·9	22·9	19·4	23·5	61	..	4·6	..	12·6	0	5	21	0	0	0	2	4	9	9	2	4	0
Nimach	0830	496	1001·4	947·3	0	28.1	22·6	19·7	23·2	63	−4	3·9	+0·6	19·4	0	16	14	1	1	0	0	0	6	17	3	0	2
	1730	„	996·7	944·0	..	34.9	22·3	14·5	17·6	34	..	4·5	..	17·9	0	16	13	1	2	0	0	0	6	14	1	1	5
Rajgarh	0830	382	1000·7	959·1	..	30·0	24·0	20.9	24·9	61	..	2·8	..	15·4	0	10	20	2	0	1	0	0	5	16	6	0	0
	1730	„	996·6	955·9	..	36·3	24·8	18·5	21·8	41	..	3·0	..	11·4	0	0	30	4	0	2	0	0	7	11	6	0	0
Sagar	0830	551	999·5	940·0	−0·2	29·5	21·2	16·1	19·0	50	−8	4·4	+0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	994·6	936·4	..	34·5	21·8	13·6	16.7	35	..	5·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ratlam	0830	486	1002·0	948·8	+0·2	27·6	24·4	23·0	28·3	77	−3	4·6	−0·9	15·6	0	7	23	0	1	1	1	1	6	16	4	0	0
	1730	„	997·6	945·6	..	33·5	25·9	22·4	27·7	55	..	5·2	..	16.5	0	8	22	0	0	0	0	1	11	11	7	0	0
Bhopal (Bairagarh)	0230	523	998·9	942·1	..	27·2	20·2	15·6	18·5	54	..	4·3	..	14·3	0	5	24	0	0	0	0	1	7	15	6	1	0
	0530	„	999·8	942.3	..	26·4	20·4	16·7	19·6	59	..	5·6	..	14.1	0	5	24	1	0	0	0	0	3	18	7	1	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed a km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Bhopal (Bairagrah)—(*Contd.*)	0830	523	1000·9	944·1	−0·2	29·3	22·6	18·9	22·4	56	−7	4·8	+0·7	23.4	0	22	8	1	0	0	0	0	2	16	11	0	0
	1130	,,	999·8	941·5	..	33·1	23·1	17·7	20·9	45	..	5·2	..	18·7	0	14	16	2	0	0	2	0	4	9	13	0	0
	1430	,,	996·8	941.7	..	35·3	22·9	16·0	18·8	37	..	5·7	..	20·9	1	13	16	5	1	0	2	1	4	12	5	0	0
	1730	,,	996·5	940·5	..	34.2	22·5	15.7	18·6	39	..	6.3	..	17.6	0	15	14	1	1	1	5	1	6	7	7	1	0
	2030	,,	998·3	942·0	..	30·3	21·7	16·3	19·6	50	..	5·4	..	15·6	1	7	20	1	2	0	2	0	5	14	4	2	0
	2330	,,	999·7	942·9	.	28·4	21·0	16·2	19·5	54	..	4·7	..	14·1	0	6	23	0	0	0	0	2	7	14	6	1	0
Ujjain	0830	439	1001·4	947·9	..	27·9	23.2	20.9	24·9	68	..	5·3	.	26.3	0	24	6	0	0	1	1	0	1	15	12	0	0
	1730	,,	996·6	944·3	..	33·1	23·2	17·6	21·0	46	..	4·9	..	23·9	0	18	12	0	0	1	1	2	2	14	10	0	0
Narsinghpur	0830	356	1000·1	961.2	..	30·8	24·1	20·6	24·4	59	..	4·0	.	10.3	0	1	29	1	0	0	0	1	0	22	3	0	3
	1730	,,	995·7	957·6	.	35·3	25·7	21·0	25·5	48	..	5·6	.	5.5	0	0	30	2	1	3	0	6	6	12	0	0	0
Hoshangabad	0830	302	1001·3	968·1	−0·3	29·7	24·8	22·4	27·3	67	+4	4·2	−0·2	7.7	0	0	30	1	1	0	0	1	15	10	2	0	0
	1730	,,	996·6	964·0	..	34·3	26·3	22·6	27·6	55	..	5.5	..	7·8	0	1	29	2	1	1	0	0	15	7	4	0	0
Indore	0530	567	1001·0	938·8	..	24·8	21·3	19·4	22·7	74	..	4·6	.	17·4	0	13	15	0	0	0	0	1	13	13	1	2	0
	0830	,,	1002·0	940·2	−0·1	27·3	22·8	20·5	24·4	69	−6	4·5	−0·1	27·1	0	22	8	1	0	0	0	1	6	18	4	0	0
	1130	,,	1000·8	939·9	..	31·3	23·3	19.2	22·7	52	.	4·1	.	25·8	0	23	7	3	0	0	0	2	5	16	4	0	0
	1730	,,	997·0	936.5	..	32·9	22·7	17·1	20·0	45	.	4.4	.	24·1	0	20	9	2	1	0	1	2	7	12	4	1	0
	2330	,,	1001·0	939·2	..	26·9	21·3	18.0	21.2	63	..	4·0	..	15·9	0	10	18	0	0	0	0	1	15	11	1	2	0
Rajpur (Jhabua)	0830	293	1003·2	970.7	..	29·6	21·2	22·5	27·1	72	..	4·5	..	14.5	0	8	21	0	0	0	0	0	8	20	1	1	0
	1730	,,	998·2	966·7	..	34·2	24·1	18·5	21.7	44	.	3·8	..	17·4	0	15	15	1	1	1	1	0	4	20	2	0	0
Chhindwara	0830	685	1000·1	926·4	0·6	28·7	22·7	19·5	23·2	62	−3	4·1	−0·3	15.1	0	10	20	3	0	0	0	1	2	9	15	0	0
	1730	,,	995.3	923·0	..	32·8	23·9	19·4	23·1	51	..	5·8	..	13.3	0	4	26	3	2	0	0	2	1	13	9	0	0
Seoni	0830	619	999.9	933·1	−0·3	29·1	22·9	19·5	23·1	60	0	5·3	+1·0	10·6	0	1	29	7	2	1	0	0	5	5	10	0	0
	1730	,,	995·5	929·9	..	32.7	24·3	19.8	24·1	53	..	6.4	..	10·8	0	1	29	3	1	1	0	1	9	6	9	0	0
Betul	0830	653	1002·0	931·2	+0·2	27·0	21·3	18·0	20·6	63	−7	5·7	+0·3	8·4	0	0	30	1	0	0	0	0	3	14	12	0	0
	1730	,,	996·5	927.2	.	32·5	22·1	16·0	18·1	45	.	5·9	..	9·3	0	2	28	4	1	0	1	2	3	6	13	0	0
Khandwa	0830	318	1002·3	967.3	+0·1	29.0	23·8	21·1	25·2	64	−1	4·4	+0·2	5·7	0	0	30	1	0	0	1	3	5	11	9	0	0
	1730	,,	996·9	962.9	..	35·9	24·5	18·0	21·3	39	.	5·1	.	5·4	0	0	30	0	0	0	1	0	15	3	11	0	0
Madhya Pradesh (East)																											
Satna	0530	317	997·3	962·6	..	29·1	22·9	19·4	22·9	59	..	2·6	..	1·6	0	0	18	4	2	2	2	1	3	2	2	12	0
	0830	,,	998·4	964·0	0·5	32·8	24·7	20·5	24·4	53	+1	3·6	−0·4	2·4	0	0	26	0	1	1	0	0	2	17	5	4	0
	1130	,,	997·8	953·4	..	36·0	25·7	20·3	24·6	42	..	3·4 (b)	..	4·2 (b)	0	0	27	5	2	2	1	0	6	9	2	3	0
	1730	,,	994·5	950·7	..	36·6	25·6	19·8	23·8	43	..	3·6	..	3·9	0	0	27	2	1	1	0	0	4	8	11	2	0
	2330	,,	997·2	952·7	..	31·4	24·1	20·1	24·1	55	..	2·7	..	2·1	0	0	17	6	0	2	0	2	4	2	1	13	0
Sidhi	0830	*272	998·1	968·5	..	32·3	23·5	18·1	21·8	50	.	4·1	.	2·1	0	0	27	0	1	2	0	1	4	17	2	3	0
	1730	,,	993·9	964·7	..	36·2	23·5	14·4	18·5	39	..	5·2	..	2.2	0	0	27	2	2	4	1	1	1	12	4	3	0
Umaria	0830	459	999·3	949·7	..	31·2	23·6	19·4	23·5	57	−1	4·2	−0·9	6·9	0	0	24	1	2	0	0	0	4	5	11	6	1
	1730	,,	994·6	945·8	..	35·4	24·7	19·0	23·2	48	.	5·7	.	7·3	0	0	27	4	1	0	1	0	4	6	9	3	2
Jabalpur	0530	393	998·7	955·7	..	23·2	21·7	17·5	20·6	57	..	5·3	.	3·6	0	0	21	0	0	0	0	2	5	12	2	9	0
	0830	,,	999.9	957·3	0	31·2	22·7	17·3	20·6	49	−6	3·9	0	7·5	0	1	29	2	0	0	0	1	2	24	1	0	0
	1130	,,	998.5	956.5	..	35·5	23·8	16·7	19·9	40	..	4·3	..	6.1	0	0	29	3	2	1	0	0	5	14	4	1	0
	1430	,,	995·8	954·1	..	37·1	24.0	15·6	19·0	36	..	5.8		6·3	0	0	27	4	1	1	1	1	3	12	4	3	0
	1730	,,	995·1	953·2	..	34·8	23·4	15·8	19·5	41	..	6·2	..	6·1	0	0	29	2	2	2	0	2	4	16	1	1	0
	2330	,,	998·6	955·9	..	30·0	22·8	18·4	21·8	55	..	5.0	..	4·2	0	0	23	0	1	1	0	3	4	13	1	7	0
Ambikapur	0830	611	999·1	933·3	−0·4	29·0	23·2	20·1	24·1	65	+4	4·7	+1·1	4·2	0	0	23	0	0	0	1	1	10	10	1	7	0
	1730	,,	994·8	929·9	..	32·0	23·5	18.7	22·7	56	..	6·0	..	5.6	0	0	25	6	2	3	1	1	2	7	3	5	0
Pendra	0530	625	998·6	930·9	.	26·2	21·1	18·0	21.3	67	..	5·8	.	7·4	0	3	26	7	0	2	1	10	2	3	4	1	0
	0830	,,	999·1	932.1	−0·5	29·5	22·4	18·4	21·8	59	−3	5·0	+0·7	8·0	0	2	28	6	2	0	0	12	2	3	4	0	1
	1130	,,	997·8	931·5	..	32·8	23·0	17·3	20·9	48	..	5·4	.	8·3	0	1	28	5	2	1	2	4	3	4	7	1	1
	1430	,,	995·5	929·5	..	33·5	22·8	16·5	19·9	46	..	6·1	..	10·1	0	3	26	11	2	2	1	2	5	4	2	1	0
	1730	,,	995·1	928.8	..	31·7	22·3	16·5	21·0	52	..	6·2	..	9·8	0	5	23	5	1	0	1	4	4	5	8	2	0
	2330	,,	998·6	931·2	..	27.6	21·7	18·1	21·6	63	..	5·2	..	10·0	0	5	23	1	0	1	0	12	4	5	5	2	0
Mandla	0830	443	999·6	951·7	−0·3	30·6	24·2	20·8	25·0	60	−4	3·8	+0·7	2·4	0	0	13	6	0	0	0	1	0	0	6	17	0
	1730	,,	994·7	947·6	..	34·0	24·8	19·5	23·8	51	..	5·9	..	4·1	0	1	21	7	0	0	0	6	0	4	5	8	0
Champa	0830	245	1000·0	973·3	+0·1	30·2	24·2	20·3	25·3	61	−1	5·6	+0·2	6·9	0	0	30	0	1	1	0	2	11	15	0	0	0
	1730	,,	995·5	969·1	..	35·1	24·5	18·4	22·1	46	..	6·8	..	9·3	0	4	26	3	1	2	1	0	7	9	7	0	0
Raigarh	0830	220	999·8	975·6	−0·2	30·6	24·2	20·8	25·0	61	0	6·0	+0·5	3·8	0	0	30	0	2	1	2	1	18	3	3	0	0
	1730	,,	995·1	971·3	..	35·5	24·5	17·7	21·7	44	..	6·3	..	3·3	0	0	23	2	2	0	2	0	14	2	1	7	0
Raipur	0530	298	999·1	966·2	..	27·8	22·9	20·1	23·8	67	..	6·2	..	8·6	0	0	29	0	0	0	1	8	11	8	1	1	0
	0830	,,	1000·5	967·8	−0·1	30·1	23·7	20·3	24·0	61	0	5·4	+0·4	11·7	0	1	29	1	0	0	0	2	14	10	3	0	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean Temperature in °C: Dry bulb	Mean Temperature in °C: Wet bulb	Mean Temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Raipur—(*Contd.*)	1130	298	999·5	967·2	..	33·6	24·3	18·9	22·7	50	..	4·8	..	10·9	0	0	30	1	0	0	0	2	11	12	4	0	0
	1430	,,	996·6	964·6	..	36·0	24·5	17·9	21·3	42	..	5·8	..	12·1	0	2	28	1	0	0	1	2	11	12	3	0	0
	1730	,,	995·8	963·7	..	34·0	24·1	18·0	21·8	49	..	6·5	..	10·1	0	1	28	1	2	0	1	3	8	11	3	1	0
	2330	,,	999·2	966·5	..	29·3	23·2	19·5	23·5	63	..	5·6	..	12·6	0	5	25	0	0	1	0	7	12	9	1	0	0
Kanker . . .	0830	402	1000·8	957·1	−0·3	29·5	25·3	23·5	29·0	72	+9	4·8	−1·2	3·8	0	0	22	0	0	0	0	0	13	8	1	8	0
	1730	,,	996·4	953·2	..	32·9	26·1	23·0	28·3	60	..	4·9	..	2·9	0	0	24	1	0	0	1	0	12	3	7	6	0
Jagdalpur . .	0530	553	1000·7	940·1	..	24·2	21·9	20·8	24·9	82	..	6·4	..	2·9	0	1	10	0	0	0	1	0	10	0	0	19	0
	0830	,,	1001·8	941·6	−0·3	26·9	22·9	21·1	25·0	73	+2	6·7	+1·7	7·3	0	1	23	0	1	0	0	2	16	5	0	6	0
	1130	,,	1000·8	941·2	..	29·8	23·7	20·9	24·9	62	..	6·3	..	10·8	0	3	26	0	0	0	0	2	9	16	2	1	0
	1730	,,	997·9	938·4	..	29·7	23·5	20·5	24·4	61	..	7·2	..	10·0	0	3	26	3	0	0	4	1	17	3	1	1	0
	2330	,,	1001·3	940·9	..	25·6	22·6	21·2	25·2	78	..	5·7 (b)	..	7·1 (b)	0	2	18	0	2	1	3	5	7	2	0	10	0
Gujarat Region																											
Deesa . . .	0830	136	1002·2	987·0	+0·2	29·0	24·1	21·6	25·9	66	..	3·6	..	5·8	0	0	29	1	1	0	7	2	17	0	1	0	0
	1730	,,	998·2	983·4	..	36·4	25·4	19·5	23·4	41	..	3·3	..	5·3	0	0	30	1	0	0	4	2	17	4	2	0	0
Radhanpur . .	0830	30	1002·2	998·9	..	28·7	26·7	25·4	33·4	85	..	..	..	7·7	0	0	30	0	0	1	1	2	22	1	3	0	0
	1730	,,	998·4	995·1	..	36·2	27·4	23·5	29·3	49	..	..	..	8·8	0	2	28	0	1	1	3	0	21	3	1	0	0
Idar . . .	0830	219	1002·3	978·0	..	28·1	24·7	23·1	28·3	75	..	4·6	..	4·7	0	0	30	0	0	0	3	1	8	16	2	0	0
	1730	,,	997·7	974·1	..	35·5	24·9	19·4	22·8	41	..	2·8	..	4·9	0	0	30	0	0	0	0	1	14	12	3	0	0
Ahmadabad . .	0230	55	1001·1	994·9	..	28·6	24·6	22·7	27·6	71	..	3·0	..	13·8	0	6	22	1	0	0	0	5	9	10	3	2	0
	0530	,,	1001·4	995·1	..	27·5	24·6	23·3	28·6	79	..	4·2	..	11·1	0	3	23	0	0	0	1	2	8	11	4	4	0
	0830	,,	1002·7	996·5	−0·2	29·0	25·2	23·5	28·9	73	−6	5·2	+0·4	14·2	0	6	23	1	0	1	1	2	10	10	4	1	0
	1130	,,	1002·2	996·1	..	33·7	25·6	21·8	26·3	52	..	4·3	..	14·1	0	7	22	0	1	0	0	4	11	7	5	1	1
	1430	,,	1000·0	993·9	..	36·0	25·7	20·3	24·6	42	..	4·0	..	17·2	0	10	20	0	0	0	2	3	13	11	1	0	0
	1730	,,	998·2	992·1	..	36·1	25·2	19·3	23·2	42	..	3·9	..	17·8	0	9	21	1	0	0	0	6	10	11	2	0	0
	2030	,,	999·8	993·7	..	32·3	25·5	22·1	27·1	58	..	4·2	..	21·5	0	19	11	1	0	0	1	5	20	2	1	0	0
	2330	,,	1001·4	995·2	..	29·9	24·5	21·7	26·3	64	..	3·0	..	16·1	0	11	18	2	0	0	0	5	12	9	1	1	0
Dohad . . .	0830	333	1002·2	965·5	+0·5	28·1	23·7	21·4	25·6	68	−7	4·6	−0·8	22·8	0	23	7	0	0	0	0	2	12	16	0	0	0
	1730	,,	997·8	962·0	..	35·1	23·7	16·8	20·0	38	..	3·5	..	22·5	0	22	8	1	0	0	0	1	17	9	2	0	0
Vallabh Vidhyanagar	0830	44	1002·7	997·8	..	28·8	25·5	24·0	30·0	75	..	4·8	..	10·2	0	1	29	0	0	1	1	10	10	7	1	0	0
	1730	,,	998·5	993·8	..	35·5	25·9	21·2	25·6	47	..	3·1	..	14·0	0	6	24	0	1	0	1	7	15	3	3	0	0
Baroda (Aerodrome)	0830	38	1003·1	998·9	..	29·2	25·7	24·1	30·0	75	..	4·5	..	14·6	0	7	22	0	0	0	1	5	13	8	2	1	0
	1130	,,	1002·6	998·4	..	32·7	25·8	22·5	27·6	56	..	4·2	..	15·5	0	8	21	0	1	0	0	5	11	8	3	1	1
	1730	,,	998·8	994·7	..	34·6	25·4	20·6	24·9	49	..	4·2	..	21·6	0	15	15	0	1	0	1	8	7	12	1	0	0
Baroda . .	0530	34	1001·9	998·0	..	27·7	25·5	24·5	30·7	84	..	2·8	..	0·7	0	0	6	0	0	0	0	0	4	2	0	24	0
	0830	,,	1003·4	999·5	+0·4	29·3	26·1	24·7	31·1	77	+2	4·2	−0·2	1·9	0	0	15	0	0	0	1	0	6	8	0	15	0
	1130	,,	1002·8	998·9	.	33·5	26·4	33·2	28·6	56	..	3·8	..	2·9	0	0	22	0	0	0	0	1	13	7	1	8	0
	1730	,,	999·1	995·3	..	35·8	26·5	22·0	26·9	49	..	3·	..	3·5	0	0	26	0	0	1	0	4	12	9	0	4	0
	2330	,,	1002·4	998·5	..	29·3	26·1	24·6	31·1	77	.	3·1	..	3·3	0	0	24	0	0	1	0	1	18	4	0	6	0
Broach . . .	0830	17	1002·8	1000·8	−0·1	28·4	25·4	24·1	30·0	78	−1	3·7	−1·0	6·0	0	0	30	0	0	0	0	3	25	2	0	0	0
	1730	,,	999·5	997·6	..	33·9	25·7	21·7	26·3	52	..	2·8	..	7·8	0	1	29	0	0	0	0	1	27	1	1	0	0
Surat . .	0530	12	1002·2	1000·9	..	27·2	25·7	25·1	31·9	88	..	4·1	..	7·7	0	2	25	0	0	0	4	4	14	3	2	3	0
	0830	,,	1003·5	1002·2	0	29·4	26·8	25·8	33·0	82	+8	5·1	−0·6	7·9	0	1	28	0	1	0	5	2	15	2	4	1	0
	1130	,,	1003·5	1002·2	..	32·1	27·5	25·7	33·0	70	..	5·5	..	10·3	0	2	27	0	2	0	0	5	17	2	3	1	0
	1730	,,	1000·6	999·3	..	31·8	27·7	26·1	33·8	73	..	4·1	..	13·3	0	6	24	0	0	0	1	3	23	0	3	0	0
	2330	,,	1003·1	1001·8	..	28·1	26·5	25·7	33·2	85	..	4·5	..	13·9	0	3	27	0	0	1	1	12	16	0	0	0	0
Saurashtra and Kutch																											
Naliya . . .	0830	21	1001·1	998·6	..	29·2	26·4	25·4	32·1	80	.	5·3	..	22·4	2	10	17	0	2	1	0	5	18	3	0	1	0
	1730	,,	998·5	996·2	..	31·6	27·0	25·2	31·9	70	..	5·3	..	20·5	0	15	15	0	1	1	0	5	19	4	0	0	0
Bhuj (Rudramata)	0230	80	1000·0	991·0	..	27·6	25·5	24·5	30·7	84	..	2·4	..	15·7	0	6	22	1	0	1	1	0	9	16	0	2	0
	0530	,,	1000·1	991·0	..	27·0	25·3	24·6	30·7	87	..	4·1	..	11·1	0	2	23	0	0	1	1	0	5	18	0	5	0
	0830	,,	1001·4	992·3	0	28·9	25·6	24·1	30·0	75	+5	4·3	+0·2	17·1	0	7	20	0	0	1	0	1	6	17	2	3	0
	1130	,,	1000·9	992·0	..	32·8	25·9	22·7	27·7	57	..	4·1	..	18·4	0	14	13	0	0	1	1	2	6	16	1	3	0
	1430	,,	999·2	990·4	..	35·0	26·1	21·9	26·6	49	..	4·0	..	19·9	0	14	13	0	0	2	0	2	9	13	1	3	0
	1730	,,	997·9	989·1	..	34·1	26·2	22·6	27·6	53	..	3·5	..	24·2	0	16	14	0	0	1	3	2	9	14	1	0	0
	2030	,,	999·5	990·5	..	30·2	25·8	23·9	29·7	70	..	3·0	..	19·3	0	10	20	0	0	1	1	0	10	16	2	0	0
	2330	,,	1000·8	991·8	..	28·4	26·0	24·5	31·7	79	..	2·2	..	18·3	0	10	19	0	0	1	1	0	15	11	1	1	0
Kandla Aerodrome	0830	35	1001·8	997·9	..	29·3	26·3	25·1	31·7	78	..	4·7	..	23·8	1	18	11	0	1	0	3	3	17	6	0	0	0
	1130	,,	1001·5	997·6	..	33·0	26·9	24·2	30·4	62	..	4·1	..	22·6		19	9	0	1	2	1	5	11	7	1	2	0
	1730	,,	998·5	994·6	..	34·5	27·2	23·9	30·0	57	..	3·1	..	30·1	0	22	8	0	0	2	0	6	19	3	0	0	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation (I.S.T.)	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch *(Contd.)*																											
New Kandla	0830	14	1002·2	1000·6	..	29·2	26·1	24·8	31·1	78	..	5·2	..	21·4	0	16	14	1	1	0	3	1	9	14	1	0	0
	1730	,,	999·0	997·4	..	32·9	26·7	24·1	30·0	61	..	3·3	..	29·9	0	23	7	0	0	1	1	2	13	12	1	0	0
Mandvi	0830	9	1001·6	1000·5	−0·5	29·2	27·2	26·4	34·4	85	−3	5·6	+1·3	27·7	2	17	11	0	0	3	0	1	12	7	1	0	6
	1730	,,	999·0	997·9	..	30·5	28·1	27·2	36·1	83	..	4·2	..	36·7	1	26	3	0	0	2	0	0	20	6	0	0	2
Surendranagar	0830	74	1002·4	994·	..	29·3	27·1	26.2	34·0	84	+5	4·6	+0·7	16·6	0	5	25	0	0	1	2	4	6	16	1	0	0
	1730	,,	997·9	989·8	..	36·3	28·8	25·7	33·4	57	..	4·8	..	17·3	0	8	22	0	1	3	2	3	3	14	4	0	0
Okha	0530	7	1000·5	999·7	..	28·1	26·7	26·1	33·8	89	..	4·1	..	22·5	0	14	16	1	1	1	2	1	14	9	1	0	0
	0830	,,	1001·9	1001·1	..	29·1	27·1	26·3	34·2	85	..	4·4	..	24·9	0	20	10	1	1	0	1	1	17	7	2	0	0
	1130	,,	1002·1	1001·3	..	30·4	27·6	26·5	34·6	80	..	4·6	..	27.9	0	21	9	1	0	2	1	0	13	10	3	0	0
	1730	,,	999.6	998·8	..	30·3	27·8	26·9	35·4	82	..	4·2	..	31·2	0	28	2	1	0	1	1	0	12	14	1	0	0
	2330	.	998·3	997·5	..	28·6	27·0	26·4	34·4	88	..	3·6	..	27·7	0	23	6	0	0	1	1	1	12	12	2	1	0
Jamnagar (Aerodrome)	0530	23	1000·8	998·3	..	26.7	25·9	25·6	32·8	94	..	3·2	..	19·1	0	12	17	0	1	0	1	3	16	8	0	1	0
	0830	,,	1002·1	999·5	+0·2	29·0	27·3	26·6	35·0	87	+20	4·7	+0·9	21·1	0	13	16	0	1	1	1	4	14	8	0	1	0
	1130	,,	1001·8	999·2	..	32·0	27·9	26·2	34·2	71	..	4·1	..	28·4	0	25	5	0	0	1	0	3	6	15	5	0	0
	1730	,,	999·2	996·7	..	31·6	28·0	26·5	34·8	72	..	3·3	..	33·9	0	28	2	0	1	0	1	2	4	14	8	0	0
	2330	,,	1001·6	999·1	..	28·2	26 7	26·1	33·8	89	..	2·2	..	27·5	0	27	3	0	1	0	2	0	11	16	0	0	0
Dwarka	0830	11	1001·9	1000·5	−0·5	28·9	27·0	26·2	34 2	85	+3	4·5	+0·2	22.7	1	16	13	1	0	1	1	2	6	19	0	0	0
	1730	,,	999·7	998·4	..	30.2	27·6	26·7	34·8	82	..	3·2	..	24 0	0	22	8	0	0	2	0	0	11	17	0	0	0
Rajkot	0530	138	1001·0	985·5	..	25·8	24·8	24·4	30·5	92	..	2·2	..	15·7	0	12	17	0	1	0	3	4	16	5	0	1	0
	0830	,,	1002 1	986·8	0·3	28·1	26·2	25·4	32·4	86	+6	3·2	−0·7	23·9	0	25	5	0	0	1	2	5	16	5	1	0	0
	1130	,,	1001·4	986·3	..	32·4	27·1	24·8	31·5	66	..	2·9	..	31·5	1	19	10	0	1	1	3	3	14	7	1	0	0
	1730	,,	998·3	985·3	..	33·4	27·3	24·7	31·1	64	..	3.4	..	37·3	0	26	4	0	1	1	1	7	10	3	7	0	0
Bhavnagar Aerodrome	0830	11	1003·1	1001·9	0	29·5	26·1	24·6	31·1	76	+13	3.6	−1·4	20·8	0	15	15	2	0	0	0	5	11	10	2	0	0
	1130	,,	1002·8	1001 6	..	33·1	26·7	23·8	29·8	60	..	4·0	..	23·5	0	18	10	2	2	3	3	5	7	6	0	2	0
	1730	,,	999·0	9997 8	..	33·9	26·9	23·7	29·7	58	..	4·0	..	38 8	0	30	0	1	1	0	0	15	9	4	0	0	0
Porbander Aerodrome	0830	7	1002·3	1001·5	−0·2	29·0	26·9	26·1	33·8	84	0	4·1	−0 8	18·9	0	16	14	0	0	2	2	1	11	12	2	0	0
	1130	,,	1002·4	1001 6	..	30·6	27·3	26·1	33·4	77	..	4.5	..	22·5	0	8	22	0	0	1	1	2	18	8	0	0	0
	1730	,,	999·9	999·1	..	30 3	27·4	26·3	34·2	79	..	4.0	..	25·1	0	3	27	0	0	1	1	3	17	8	0	0	0
Keshod	0830	51	1002·7	996·9	..	28·3	25·8	24·7	31·1	81	..	5.0	..	17·7	0	12	17	0	1	1	2	0	12	11	0	1	2
	1130	,,	1002·6	996·9	..	31·6	25·9	23·3	28·6	63	..	5.3	..	22·4	1	18	11	0	1	1	1	2	14	10	0	0	1
	1730	,,	1000·3	994·5	..	31·2	25·8	23·1	28·3	64	..	4·9	..	28·5	0	19	11	0	1	2	0	1	16	10	0	0	0
Mahuva	0830	9	1003 1	1002·1	..	29·0	26·3	25·2	31·9	80	..	6·0	..	3·0	0	0	25	1	2	0	2	4	11	2	3	5	0
	1730	,,	1000·6	999·6	..	30·3	26·6	25·0	31.9	74	..	6·2	..	8·8	0	0	30	0	0	0	1	5	21	1	2	0	0
Veraval	0230	8	1001 4	1000·5	..	28·0	26·2	25.4	32·4	86	..	3·8	..	26·1	2	16	12	2	1	0	0	2	11	12	2	0	0
	0530	,,	1001·2	1000·3	..	27·7	25·9	25·1	31·9	86	..	4·7	..	23·7	2	16	12	2	0	1	0	2	10	12	3	0	0
	0830	,,	1002·7	1001·8	−0·7	28·7	26·4	25 5	32·6	83	+1	4·6	−0·1	22·1	2	14	13	1	0	0	0	2	7	13	6	1	0
	1130	,,	1002·9	1002·0	..	30·5	27·1	25·7	33·0	76	..	4·2	..	22·6	1	11	18	0	0	1	0	3	9	14	2	0	1
	1430	,,	1001·7	1000·8	..	30·4	27·0	25·6	32·8	76	..	4·0	..	24·9	1	20	9	0	0	1	0	2	10	15	2	0	0
	1730	,,	1000·6	999·7	..	29·7	26·6	25·4	32·2	78	..	4·5	..	27·4	0	26	4	0	1	1	0	1	10	14	3	0	0
	2030	,,	1001·5	1000·6	..	28.5	26.2	25.2	32.2	82	—	4.0	..	25.3	0	22	8	1	0	0	1	2	9	15	2	0	0
	2330	,,	1002·5	1001·6	..	28·3	26·3	25·4	32·6	85	..	4·1	..	24·3	0	22	8	0	1	1	0	2	13	9	4	0	0
Konkan												(b)		(b)													
Dahanu	0830	5	1003·5	1003·0	−0·4	28·2	27·0	26·6	34·6	91	+7	4 9	−1·2	15·4	0	10	17	0	1	2	7	2	3	8	4	2	0
	1730	,,	1001·7	1001·2	..	30·0	28·0	27·1	36·1	85	..	4·3	..	21·3	0	20	9	1	0	0	1	4	7	15	1	1	0
Bombay (Santa Cruz)	0230	14	1003·2	1001·5	..	27·1	25.1	24·2	30·2	85	..	5·7	..	12·9	0	7	20	0	1	1	3	6	3	9	4	3	0
	0530	,,	1003·1	1001 4	..	26·7	25·0	24·2	30·4	87	..	5·9	..	11 3	0	7	19	0	1	2	4	5	4	8	2	4	0
	0830	,,	1004·4	1002·7	−0·8	28·1	25·6	24·4	30·7	81	+4	6·3	+0·5	11·7	0	3	24	1	1	1	4	6	3	8	3	3	0
	1130	,,	1004·5	1002·9	..	29·8	26·1	24·4	30·7	74	..	6·1	..	17·5	0	10	20	0	0	2	2	3	7	9	7	0	0
	1430	,,	1003·1	1001·5	..	30·3	26·3	24·6	30·9	73	..	5·6	..	20·3	0	18	12	2	0	0	0	4	8	10	6	0	0
	1730	,,	1002·1	1000·5	..	29·6	26.1	24·6	31·1	75	..	6·1	..	19·8	0	13	17	0	0	0	1	4	7	12	6	0	0
	2030	,,	1003·7	1002·0	..	27·9	25·5	24·5	30·7	83	..	6·0	..	15·9	0	8	22	0	0	1	1	7	8	10	3	0	0
	2330	,,	1004·5	1002·9	..	27.4	25·4	24·5	30·7	84	..	5·4	..	13·5	0	5	24	0	0	1	3	7	6	8	4	1	0
Bombay	0830	11	1004·4	1003·2	−0.7	28·4	25·9	24·9	31·5	82	+3	6·0	+0·2	6 2	0	1	27	0	0	1	4	6	6	6	5	2	0
	1130	,,	1004·7	1003·5	..	30·3	26·6	25 1	31·9	75	..	5.5	..	·5	0	1	2	1	0	0	2	7	4	9	5	1	1
	1730	,,	1002·3	1001·1	..	2.·7	26·5	25·1	31·9	77	..	5·9	..	8·9	0	1	28	0	0	0	2	5	5	13	4	1	0
Alibag	0830	7	1004·6	1003·8	−0·9	27·9	26·4	25·7	33·0	88	+8	6·2	−0.2	17·6	0	11	19	2	1	4	4	4	8	3	4	0	0
Dhira	0830	96	1004·5	993·7	..	26·9	24·9	23.9	29·8	85	..	5·8	..	1·4	0	0	18	1	0	2	3	2	4	1	4	12	0
	1730	,,	1002·1	991·4	..	28.9	25·0	23·2	28·6	74	..	6·0	..	3 7	0	0	27	1	1	0	4	1	16	3	3	3	0

(b) Mean of 29 days

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
KONKAN—*Contd.*																											
Harnai	0830	20	1005·0	1002·7	−0·1	27·8	26·1	25·4	32·2	87	+2	6·9	+0·7	14·4	0	8	21	0	0	1	1	9	6	11	1	1	0
	1730	,,	1003·0	1000·7	..	27·9	26·2	25·5	32·6	87	..	6·6	..	24·2	0	17	13	0	0	0	2	10	6	11	1	0	0
Ratnagiri	0830	35	1005·4	1001·4	−0·6	26·8	25·0	24.3	30·2	86	..	6·4	..	13·6	0	7	23	3	2	5	9	1	4	4	2	0	0
	1730	,,	1003·3	999·3	..	27·9	25·6	24·6	30·9	83	..	6·6	..	18·6	0	11	19	2	0	0	3	3	5	9	8	0	0
Devgarh	0830	36	1005·5	1001·5	0.4	27·2	25·6	24 0	31·5	88	+2	6·4	0·0	20·2	0	16	14	2	0	5	4	3	7	3	6	0	0
	1730	,,	1003·6	999·6	..	28·3	26·3	25·5	32.6	85	..	6·4	..	24·8	0	21	9	1	0	0	2	4	6	6	11	0	0
Vengurla	0230	9	1005·0	1004·0	..	26·0	24 7	24·2	30·0	90	..	6 4	..	4·3	0	1	14	1	0	1	0	2	4	4	3	15	0
	0530	,,	1004·6	1003·6	..	25·9	24.7	24·1	30·2	90	..	6·5	..	4.3	0	0	19	3	0	1	2	4	5	2	2	11	0
	0830	,,	1006·2	1005·2	−0·3	27·0	25·3	24·5	30·7	86	0	6·3	−0.4	4·7	0	0	20	2	0	1	2	4	5	2	4	10	0
	1130	,,	1006·3	1005·3	..	28·9	26 0	24 8	31·1	80	..	6·4	..	9·1	0	3	25	1	0	2	1	8	6	8	2	2	0
	1730	,,	1004·1	1003·1	..	28·2	25·9	24·9	31·5	83	..	6·5	..	9·1	0	3	24	0	1	0	0	6	11	6	3	3	0
	2330	,,	1006·5	1005·5	..	26.1	24·9	24.3	30.5	90	..	6·8	..	3.9	0	0	15	0	0	1	1	3	6	0	4	15	0
Panjim	0530	60	1004·8	998·0	..	25·6	24·3	23·7	29·3	89	..	6·9	..	12.2	0	6	22	4	0	3	6	3	4	6	2	2	0
	0830	,,	1006·3	999 5	..	26·7	24 6	23·6	29·3	84	..	6·8	..	12·3	0	6	21	6	0	4	4	3	5	5	0	3	0
	1130	,,	1006·5	999 8	..	28·6	25·2	23·6	29·3	76	..	6·7	..	16·9	0	14	15	2	0	0	1	3	8	10	5	1	0
	1430	,,	1004·8	998·1	..	29·4	25·8	24·3	30·2	75	..	6·2	..	19·8	0	15	15	0	0	0	1	4	8	10	7	0	0
	1730	,,	1004·2	997·5	..	28·0	25·2	23·9	29·7	79	..	6.5	..	15·8	0	12	17	1	0	0	0	2	10	10	6	1	0
	2030	,,	1005·9	999·1	..	26·3	24·4	23·5	28·9	85	..	6·5	..	13·5	0	8	22	3	0	1	3	1	7	10	5	0	0
	2330	,,	1006·6	999·8	..	26·0	24·4	23·6	29·3	87	..	6.6	..	12.1	0	3	26	3	1	3	1	3	5	9	4	1	0
Marmugao	0530	62	1004·1	997·2	..	26.3	24·9	24·3	30·4	88	..	6.8	..	24·7	0	17	13	2	1	2	4	4	10	4	3	0	0
	0830	,,	1005.7	998.8	..	27.2	25·3	24·4	30·7	85	.	6·7	..	19·6	0	15	15	2	1	2	4	2	10	5	4	0	0
	1130	,,	1006·0	999·1	..	27·9	25·5	24·4	30·7	82	..	6·8	..	21·4	0	17	3	1	1	0	3	3	11	7	4	0	0
	1730	,,	1003.8	996·9	..	27·8	25.5	24·5	30·7	83	..	6·9	..	22·9	0	18	12	1	0	0	2	2	11	9	5	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1003·2	980·3	..	28·6	25·0	23·4	28·8	74	..	2·6	..	10·1	0	3	27	1	0	1	0	0	0	28	0	0	0
	1730	,,	999·1	976·7	..	34·2	25·4	20·9	25·2	48	..	3·3	..	9·3	0	1	29	0	0	1	0	0	4	25	0	0	0
Jalgaon	0830	201	1003·0	980·6	+0·1	27·9	24·0	22·1	26·6	72	0	6 6	+1·7	21·0	0	15	14	0	0	0	0	1	4	17	7	1	0
	1730	,,	997·9	976 2	..	36·1	24.7	18·3	21·8	41	..	5·7		23·3	0	19	11	1	2	1	0	2	5	13	6	0	0
Malegaon	0830	437	1003·0	955·0	−0·3	27·5	24·4	22·6	27·9	76	+8	4.7	+0·2	12.7	0	4	25	4	0	0	0	2	5	12	6	1	0
	1730	,,	998·6	951.6	..	33·5	25·0	20·7	24·7	50	.	5·4	..	18.8	0	17	13	6	0	2	0	1	2	9	10	0	0
Deolali (Aerodrome)	0830	571	1004·7	942·0	..	25·5	22·2	20 9	24·4	76	..	5·7	..	15 9	0	5	25	0	1	1	1	0	16	9	2	0	0
	1730	,,	1001.4	939·5	..	28·9	22·5	19·2	22·5	61		6 1	..	23·2	0	17	12	1	1	0	1	0	13	9	4	1	0
Ahmadnagar	0830	657	1003·9	932·3	−0·4	25·7	21·9	19.5	23·5	70	−1	4·6	+0·1	11·3	0	4	25	0	0	0	3	0	12	1	13	1	0
	1730	,,	999·3	929·0	..	30·0	22·1	17.6	20·8	55	..	6·8	..	15·0	0	8	22	2	2	0	0	0	12	1	13	0	0
Poona (Aerodrome)	0230	593	1003·6	938·1	..	23·2	21·3	20·3	23·8	84	..	4·3	..	18·2	0	12	16	0	0	1	0	1	8	18	0	2	0
	0530	,,	1003·4	937·8	..	22.7	21·1	20·3	23·8	86	..	5.1	..	16·4	0	11	16	0	0	2	0	1	9	13	2	3	0
	0830	,,	1004·2	939·1	..	25·1	21·7	20·1	23·5	76	..	5·5	..	21·1	0	20	7	0	0	1	1	2	7	15	1	3	0
	1130	,,	1003·4	939·1	..	28·9	22·6	19·4	22·7	59	..	5·9	..	29·5	0	27	3	0	1	0	2	1	10	14	2	0	0
	1730	,,	1000·9	936·6	..	28·0	22·4	19·7	22·9	65	..	6·2	..	30·5	0	25	5	2	0	0	0	5	9	12	2	0	0
	2330	,,	1004·6	939·2	..	23·9	21·6	20·4	24·1	81	..	5·1	..	20·7	0	16	12	0	0	0	1	1	6	18	2	2	0
Poona	0530	559	1003·4	941.6	..	23·4	21·4	20·4	24·0	83	..	5·4	..	5·8	0	2	17	0	0	0	0	0	1	18	0	11	0
	0830	,,	1004·2	942·8	−0·5	25·7	22·2	20.4	24·1	74	+3	5·5	+0·1	5·5	0	1	18	0	0	1	0	0	3	13	2	11	0
	1130	,,	1003·3	942·7	..	29·1	22·9	19·1	23·4	60	..	5·8	..	7·3	0	2	20	1	0	0	1	0	3	14	3	8	0
	1430	,,	1001·4	941·1	..	30·1	22·9	19·3	22·7	57	..	6·2	..	8·1	0	2	20	0	1	0	0	2	2	15	2	8	0
	1730	,,	1001·1	940·4	..	28·0	22·5	19·8	23·2	65	..	6·2	..	8·4	0	3	19	0	0	0	0	0	5	14	3	8	0
	2030	,,	1003·6	942·2	..	25·1	21·9	20·4	24·0	76	..	5·3	..	6·2	0	1	20	0	0	0	0	0	5	16	0	9	0
	2330	,,	1004·6	942·9	..	24·2	21·7	20·5	24·1	80	..	5·2	..	6·8	0	0	26	0	0	1	0	0	2	23	0	4	0
Jeur	0830	521	1003·9	946.7	−0·2	26·3	22·2	20·3	23·8	71	−4	5·2	+0·7	16·7	0	21	9	2	1	0	0	3	5	11	8	0	0
	1730	,,	998·9	943·1	..	32·4	22·6	17·1	20·2	45	..	6·4	..	22·4	0	14	16	4	0	0	1	2	6	9	8	0	0
Baramati	0830	551	1004·1	943·8	−0·1	26·1	22·1	20·1	23·7	70	−6	4.6	−0·1	13·3	0	6	24	2	0	1	0	2	5	14	6	0	0
	1730	,,	999·9	940·6	..	30·3	22·4	18·1	21·3	52	..	5·7	..	23·9	0	23	7	1	0	0	1	1	6	16	5	0	0
Sholapur	0530	479	1003·6	950·6	..	24·2	21·4	20·0	23·4	80	..	5·2	..	7·1	0	0	29	1	0	0	0	1	14	5	8	1	0
	0830	,,	1004·7	952·0	−0·1	26·7	23·4	21·9	26·3	76	+8	5·4	+0·4	7·7	0	0	30	1	0	0	0	0	16	3	10	0	0
	1130	,,	1003·1	951·3	..	31·5	24·0	20·5	24·4	53	..	6·1	..	12·3	0	2	28	4	0	1	0	0	14	2	9	0	0
	1730	,,	999·3	947·9	..	32·6	24·0	19·7	23·5	51	..	6·5	..	13·1	0	8	22	2	1	1	0	1	12	4	9	0	0
	2330	,,	1008·7	951·1	..	26·7	22·7	20·6	24·7	73	..	6·2	..	10·3	0	1	29	1	0	0	0	1	16	5	7	0	0
Miraj	0830	554	1005·6	944·7	−0·3	25·0	22·4	21·2	25·2	80	0	6·3	0	..	..	..	..	1	1	1	0	0	0	17	2	8	0
	1730	,,	1001·8	941·4	..	29·3	22·8	19·4	22·9	60	..	6·8	..	..	..	..	..	2	0	0	0	0	0	21	3	4	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level of height in g.p.m. or nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kolhapur	0530	570	1003·9	941·0	..	22.7	21·3	20.6	24·3	88	..	5·6	..	11·3	0	5	21	0	0	1	0	1	1	22	1	4	0
	0830	,,	1005·0	942·3	−0·4	24·9	22·2	20·9	24·7	79	−2	5·5	+0·1	7·9	0	1	24	0	0	0	1	1	2	21	0	5	0
	1130	,,	1004·2	942·3	..	28.6	22·8	20·0	23·5	62	..	5 3	..	10·9	0	1	29	1	0	2	0	2	1	24	0	0	0
	1730	,,	1002·1	940 0	..	27·0	22 6	20 5	24·1	69	..	6·0	..	16·3	0	6	24	0	0	0	0	0	3	26	1	0	0
	2330	,,	1005·8	942·8	..	23·3	21·6	20 7	24·4	86	..	4·5	..	12·7	0	4	26	0	0	0	0	2	2	25	1	0	0
Marathwada Aurangabad	0830	581	1003·9	940·5	−0 3	26·5	22·7	20.8	24·7	72	0	5·7	+0·2	19·0	0	14	15	2	0	0	0	0	5	22	0	1	0
	1730	,,	998·7	936·7	..	32.1	23·3	18·7	22·1	50	..	6·2	..	18·0	0	15	13	1	1	0	0	0	7	14	5	2	0
Aurangabad (Chikalthana)	0230	570	1002.3	938 7	..	24·6	21·0	18·9	22·2	73	.	3·7	..	15·3	0	7	21	0	0	0	1	0	5	19	3	2	0
	0530	,,	1002·4	938·6	..	23.8	21·1	19·7	22·9	79	..	5 1	..	13·5	0	3	24	0	1	0	0	0	1	20	5	3	0
	0830	,,	1003·2	940·0	..	26·9	22·4	20 1	23·8	67	..	4·8	..	16 1	0	8	19	1	0	0	0	1	3	15	7	3	0
	1130	,,	1002·0	939·7	..	31·2	23·0	18 9	22·1	50	..	5 3	.	21·1	0	17	13	3	2	0	0	1	1	18	4	0	0
	1430	,,	999·3	937·6	..	33·5	23·3	18·2	21·0	42	.	6 1	.	18·9	0	10	20	4	0	0	0	1	3	14	8	0	0
	1730	,,	998·0	936·2	..	32·1	23·3	18 9	22·1	48	..	6·2	.	21·1	0	16	14	1	2	0	0	0	6	17	4	0	0
	2030	,,	1001·2	938·3	..	28·0	22·3	19 4	22 7	62	.	5·3	.	17·7	0	13	14	1	1	1	0	0	3	19	2	3	0
	2330		1003·0	939 6	..	26·0	21 7	19 6	22·8	69	.	4 8	..	18.1	0	10	19	0	0	0	0	2	4	19	4	1	0
Parbhani	0830	423	1003 8	957·2	+0 7	27·4	22 8	20·4	21·0	68	−3	5 1	+0 4	12·7	0	2	28	0	0	0	0	0	4	14	12	0	0
	1730	,,	997·8	952 6	..	34·8	24·9	19 7	23·4	15	.	5 9	..	13 7	0	5	25	1	4	0	0	0	6	12	7	0	0
Nander	0830	358	1003 3	963·7	..	28 9	23 4	20·3	24·4	63	..	3·9	..	7·7	0	0	25	0	1	0	0	0	9	8	7	5	0
	1730	,,	999·3	960·7	..	34·1	23·9	18.3	21·3	42		4 4	..	7 9	0	0	26	0	2	0	1	0	12	3	8	4	0
Bir	0830	519	1004·3	937·2		26·9	22·9	21·2	25 0	71	..	5·3	..	12·5	0	2	28	0	0	0	0	0	11	0	18	0	1
	1730	,,	999·0	943 5	..	32·4	24·2	20·4	24 1	51		5 4	.	9 1	0	0	30	0	2	0	2	0	14	0	12	0	0
Vidarbha Gondia	0830	313	1001·0	966 7	+0·1	29·9	23·0	18.7	22·4	59	−7	5 1	+0 5	6 6	0	0	30	1	1	1	0	5	17	1	4	0	0
	1730	,,	995·9	962 4	..	35 4	23·7	15·8	19 7	41	..	5·4	..	7·9	0	1	29	3	2	0	0	7	8	8	2	0	0
Nagpur (Sonegaon)	0230	310	999·0	964·9		28·9	21 7	16·7	20·0	56	..	5·6	..	12·1	0	8	18	1	0	2	0	3	9	6	5	4	0
	0530	..	999 9	965 6	..	28·0	21 6	17·2	20·6	59	..	6·0		11·2	0	1	29	0	1	0	1	0	10	9	9	0	0
	0830	,,	1001·2	967·1	0 3	30·3	22 7	17·6	21·3	56	−3	5·3	+0·5	16·5	0	11	19	1	0	1	0	2	4	10	12	0	0
	1130	,,	1000·0	966 5	..	34·2	23·5	16·6	20·2	44	..	5·3	..	16·7	0	11	19	4	0	1	0	0	3	11	11	0	0
	1430	,,	997·1	963·9	..	36·3	23 9	16·0	19 6	37	..	6 6	..	15·6	0	9	21	0	2	1	1	0	7	13	6	0	0
	1730	,,	996·3	962·9	..	34·3	23·2	15·7	19·4	41	.	6·3	..	17·1	0	10	20	3	1	1	2	1	7	7	8	0	0
	2030	,,	998 7	964·9	..	31·5	22·6	16·8	20·2	56	..	5 6	.	12·6	0	5	24	0	1	1	2	1	6	9	9	1	0
	2330	,,	999·7	965·3		29·8	22·2	17·0	17·9	55	..	5·6	..	12·5	0	3	26	0	0	2	1	0	7	14	5	1	0
Amraoti	0830	370	1002·4	961·7	+0·1	28.3	22·2	18·3	21·8	61	−4	4.9	+0.3	8 7	0	0	30	1	1	0	0	2	13	9	4	0	0
	1730	,,	997·1	957·4	..	34·2	23.8	17·2	21·0	45	..	5 0	..	10·9	0	2	28	4	1	0	0	3	9	8	5	0	0
Akola (Aerodrome)	0530	309	1000·5	966·2	..	26·7	22·3	19·8	23·4	65	..	5·8	..	11·4	0	2	25	1	0	0	0	0	4	13	9	3	0
	0830	,,	1001·7	967·6	..	28.7	23·5	20.9	24 7	66	..	5·9	..	12·0	0	2	28	1	0	0	0	1	4	15	9	0	0
	1130	,,	1000·8	967·2	..	32·6	24·5	20·3	24·1	53	.	6·2	..	14·1	0	4	26	3	0	0	0	0	3	11	13	0	0
	1730	,,	996·5	963·3	..	35·0	24·3	18·1	21·6	44	..	6·2	..	14·3	0	6	24	1	1	0	0	2	5	11	10	0	0
	2330	,,	1000·7	966.6	..	29·5	22 9	19·1	22.5	61	..	5·5	..	14·1	0	8	22	1	1	0	1	0	10	9	8	0	0
Akola	0830	282	1002·3	971·1	−0.4	28·5	24·2	21·9	26 6	71	+7	4·2	−0·5	4·0	0	0	27	0	0	0	0	0	2	14	11	3	0
	1730	,,	996·9	966·6	..	35·3	26·1	21·1	26·3	52	..	5·6	..	2·2	0	0	29	0	0	0	2	1	1	19	6	1	0
Bramhapuri	0830	229	1001·6	976 4	..	30·0	24·1	21·2	25·2	64		5·0	.	5·1	0	0	30	1	0	0	2	6	8	10	3	0	
	1730	,,	996·6	971·9	..	35·7	25 2	19·5	23·5	46		4 0	..	5·1	0	0	28	2	0	1	0	7	4	13	1	2	0
Buldana	0830	650	1002·9	932·0	+0·3	26·0	21·7	19·5	22·8	70	−4	5 2	+0 2	13·5	0	11	17	4	0	0	0	1	7	2	14	2	0
	1730	,,	997·7	928·6	..	31·9	22 3	16·7	19·9	46	.	5·6	..	9·9	0	2	24	2	2	0	0	1	5	2	14	4	0
Yeotmal	0830	451	1001·7	952·4	+0·2	28·9	21·8	17 0	20·2	56	−13	5·7	+0 5	15·3	0	8	22	1	0	0	0	2	3	21	3	0	0
	1730	,,	996·5	948·3	..	33 7	22·8	15·4	18·8	43	..	6·2	..	14·7	0	8	22	2	0	2	0	4	4	15	3	0	0
Chanda	0830	193	1001·7	980·4	−0·5	30·8	24·1	20·3	24·4	59	0	5.5	+0·8	16·6	0	11	19	1	0	1	0	3	8	9	8	0	0
	1730	,,	996·9	976·0	..	35·2	24·7	18·8	23·4	45	..	6·1	..	14·0	0	5	25	1	2	2	1	1	5	12	6	0	0
Pusad	0830	334	1003·4	966·7	..	29·9	24·2	21·7	25·6	63	..	5·4	..	16·7	0	11	18	2	0	0	1	0	10	8	8	1	0
	1730	,,	998·6	962·6	..	35·0	25·3	20·4	24·3	48		6·0	..	14·0	0	7	23	3	0	0	1	0	7	7	12	0	0
Sironcha	0830	123	1002·9	989·2	+0·4	29 9	25·3	23·1	28.4	70	+4	5·6	+0 3	4·5	0	0	28	1	1	0	9	1	8	1	7	5	0
	1730	,,	998·3	984·9	..	35·8	26·1	21·4	25·8	50	..	6·4	..	7·5	0	0	30	0	2	0	6	1	11	3	7	0	0
Coastal Andhra Pradesh Kalingapatam	0830	6	1001·8	1001 1	+0.2	29·3	26·6	25·1	32·4	80	+5	5·2	+0·2	17·2	0	10	20	1	0	0	1	6	14	4	2	0	2
	1730	,,	999·0	998·7	..	30·1	27·6	26·6	34·8	82	..	4·2	..	20·8	0	13	17	0	1	1	2	10	10	1	0	0	5
Vishakhapatnum	0230	3	1000·5	1000·1	..	28·4	25·4	24·0	30·0	77	..	5·0	..	6·9	0	2	15	1	0	0	0	0	10	4	2	13	0
	0530	,,	1000.7	1000 3	..	28·0	25·0	23·6	29·3	78	..	5·7	..	8· 1	0	3	17	0	0	0	0	0	10	10	0	10	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.* Vishakhapatnam—*Contd.*	0830	3	1002·0	1001·6	−0·2	30·4	25·6	23·5	28·9	67	−14	6·3	+0·1	11·2	0	5	19	1	0	0	0	1	13	8	1	6	0
	1130	,,	1001·3	1000·9	..	33·2	26·3	23·3	28·4	58	..	6·2	..	14·5	0	11	15	0	0	0	1	1	15	7	2	4	0
	1430	,,	999·4	999·0	..	33.5	26·7	23·7	29·3	58	..	6·1	..	17·3	0	14	15	1	0	2	1	6	15	3	0	1	1
	1730	,,	999·2	998·8	..	31·5	26·1	23·7	29.3	64	..	6·3	..	14.7	0	8	19	0	0	0	4	3	14	3	2	3	1
	2030	,,	1001·4	1001.0	..	30.0	26·3	24.7	31.1	73	..	5.3	..	11.2	0	5	22	0	0	0	2	3	19	3	0	3	0
	2330	,,	1001·8	1001·4	..	29·2	25.6	24·1	29·8	75	..	5.1	..	9·7	0	4	18	0	0	0	0	0	12	8	2	8	0
Kakinada	0830	8	1002·9	1002·0	−0·1	29.4	26·4	25·1	31.9	82	+10	5·4	−0·2	13·0	0	0	30	0	5	5	12	0	8	0	0	0	0
	1730	,,	999.6	998.4	..	32·3	26·7	24·2	30.5	64	..	5·0	.	15·5	0	1	29	0	0	1	20	1	6	0	2	0	0
Nidadavole	0830	12	1003.4	1002·0	..	28·5	25·7	24·7	30.7	79	.	6·1	.	6·1	0	0	28	1	3	1	0	3	10	9	1	2	0
	1730	,,	999.4	998·0	..	32·9	26·9	24·6	30·5	65	..	6.5	..	6·4	0	0	27	0	2	3	0	1	9	11	1	3	0
Rentachintala	0830	106	1003.6	991·8	..	29·7	24.4	21·9	26 3	64	+1	6·3	−0 3	2·6	0	0	28	0	0	0	0	2	0	26	0	2	0
	1730	,,	999·1	987·5	..	35·3	24·8	19.4	22·7	42	.	6·2	..	2·5	0	0	27	1	0	0	0	1	0	25	0	3	0
Gannavaram	0230	24	1001·6	998·9	..	27·7	25·5	24·5	30·9	83	..	5 5	..	9·1	0	1	27	1	0	0	1	8	7	9	2	2	0
	0530	,,	1001.9	999·2	..	27·7	25·0	23·8	29·5	80	..	6·6	..	8·4	0	2	24	2	0	0	1	6	6	8	3	4	0
	0830	,,	1003·4	1000·7	+0·4	29·6	25·8	24·1	30·0	74	+11	6 6	+0·7	10·8	0	4	24	2	1	0	1	2	4	8	10	2	0
	1130	,,	1002·6	999.9	..	33·1	26·7	23.9	29·7	61	..	6·4	..	14·0	0	6	22	3	1	0	1	1	3	11	8	2	0
	1430	,,	1000·3	997.6	..	35·4	27·1	23.4	28·9	53	..	6·3	..	16·1	0	11	17	3	0	1	3	1	3	11	6	2	0
	1730	,,	999·5	996·8	..	34·0	26·9	23·6	29·5	58	..	6·9	..	15·2	0	8	21	1	1	1	4	3	3	12	4	1	0
	2030	,,	1001.8	999·2	..	30.0	26·0	24·1	30·4	73	..	6.1	..	12.3	0	4	24	1	1	1	0	8	12	3	2	2	0
	2330	,,	1002.9	1000·2	..	28.5	25·7	24·4	30·5	80	..	5.8	..	11.1	0	1	27	0	1	0	1	11	8	4	3	2	0
Nagarjuna Konda (R)	0830	126	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Masulipatam	0830	3	1003.4	1003.1	−0·2	29·4	25·6	24·0	29.7	74	+3	7·8	+3·0	4·0	0	0	29	2	0	0	0	7	9	10	0	1	1
	1730	,,	999·7	999·4	..	32·9	26.3	23·2	28·8	59	..	7·4	..	5·0	0	0	30	2	0	0	2	7	8	5	1	0	5
Ongole	0830	12	1003·4	1002·1	..	30·7	26·5	24·6	31·1	71	..	5·5	..	2·6	0	0	22	0	2	0	2	1	1	13	3	8	0
	1730	,,	1000·1	998·8	..	33·7	27·1	24·2	30·2	59	..	6.0	..	4·1	0	0	27	1	1	7	1	1	1	14	1	3	0
Nellore	0530	20	1002·9	1000·7	..	28·6	24·5	22·4	27·3	70	..	6.5	..	3.6	0	0	20	0	0	0	1	0	2	13	4	10	0
	0830	,,	1004·3	1002·1	−0·3	30·8	25·0	22·2	26·7	61	+5	6·4	+0.8	2.4	0	0	28	0	0	1	0	0	6	15	6	2	0
	1130	,,	1003.6	1001·4	..	34·9	25·3	21·5	24·3	45	..	6·4	..	7·9	0	1	28	0	0	0	0	0	6	21	2	1	0
	1730	,,	1000.6	998·4	..	34·4	25·9	22·0	26·4	49	..	6·3	..	7·0	0	0	28	0	0	1	7	0	19	1	0	2	0
	2330	,,	1003·7	1001·5	..	29·7	25·7	23·9	29.6	72	..	5·9	..	3·3	0	0	17	0	0	1	4	2	1	9	0	13	0
Telangana Ramgundam	0830	156	1002·3	984·9	−0·1	29·3	24·1	21·6	25.8	66	+6	5·3	−0·2	4.9	0	1	25	1	0	0	2	7	6	10	0	4	0
	1730	,,	997·7	980·7	..	36·1	25·3	19·7	23·2	43	..	5·8	..	6·4	0	1	27	3	0	3	0	3	8	10	1	2	0
Nizamabad	0830	381	1003.0	961.3	−0.4	29.2	23.1	19.9	23.2	60	−6	5.2	+0.6	1·9	0	0	14	0	0	0	0	0	11	3	0	16	0
	1730	,,	997·8	956.9	..	34.9	25.1	20.1	23.8	46	..	5.0	..	2.3	0	0	18	1	0	0	1	0	10	5	1	12	0
Hanamkonda	0830	269	1003·1	973·4	−0·2	28·8	24.4	22·2	26·9	69	+10	5·8	+0·7	2·8	0	0	30	0	0	0	0	6	0	22	2	0	0
	1730	,,	999·6	970·7	..	34·8	26·1	22·5	27·3	50	..	6·0	..	2·0	0	0	30	4	1	0	1	4	7	11	2	0	0
Hakimpet (Aerodrome)	0530	613	1002·7	935·5	..	24·5	21·8	20·3	24·1	79	..	6.4	..	23·3	0	23	7	0	0	0	1	1	3	21	4	0	0
	0830	,,	1003·0	936·6	..	26·2	22.5	20·8	24·4	73	..	6.2	..	25·7	0	23	7	1	0	0	0	1	4	19	5	0	0
	1130	,,	1001·8	936·1	..	30.8	23·4	19·9	23.4	55	..	5·9	..	26·0	0	20	10	1	1	0	0	0	2	18	7	0	1
	1730	,,	999·4	933·8	..	30·8	23.1	19·3	22·7	56	..	6·4	..	22.8	0	17	13	3	1	2	1	0	3	15	4	0	1
	2330	,,	1002.3	935.8	..	26.7	22.5	20.5	24.1	71	..	6.2	..	22.3	0	20	10	0	0	0	3	3	7	15	2	0	0
Bhadrachalam	0830	111	1003·2	990.8	+0·1	29·7	25·2	23·1	28·3	70	+6	7·0	+1·0	5·4	0	0	30	3	3	0	2	4	13	0	5	0	0
	1730	,,	998·9	986·7	..	33·2	25·2	21.2	25·2	55	..	7·0	..	5·3	0	0	30	2	2	0	5	1	15	1	4	0	0
Hyderabad (Begampet)	0230	545	1002·0	942.4	..	25·9	21.5	19·2	22·4	68	..	6·4	..	15·0	0	7	19	0	0	0	2	0	3	19	2	4	0
	0530	,,	1002.5	942·7	..	24·8	21·3	19·6	22·7	74	..	7·0	..	13.7	0	7	22	1	0	0	1	1	5	19	2	1	0
	0830	,,	1003·6	944·0	−0·1	26.4	21·9	19·6	22·9	69	−2	6·6	+1·2	16·8	0	11	19	0	0	0	1	0	4	18	7	0	0
	1130	,,	1002·1	943·5	..	30·6	22·5	19·2	21.3	51	..	6·4	..	19·1	0	16	14	1	1	0	0	0	3	19	6	0	0
	1730	,,	998·6	940·3	..	31·5	22·3	17·2	20·1	49	..	6·9	..	16·4	0	9	19	4	1	1	1	2	4	12	3	2	0
	233	,,	1002·7	943·3	..	27·3	22.0	19.2	22·5	65	..	6·4	..	16·4	0	12	17	0	0	0	3	1	5	20	0	1	0
Khammam	0830	112	1003.1	991·0	..	29·4	24·8	22·6	27·6	69	..	6·9	..	6.1	0	1	24	2	0	0	0	1	4	16	2	5	0
	1730	,,	998·7	986·5	..	34·3	25·1	20·7	24.4	48	..	6.7	..	5·6	0	1	23	2	0	4	1	1	2	14	0	6	0
Mahbubnagar	0830	505	1004·3	948·8	..	28·6	22.8	21·0	24.7	72	..	6.9	..	11·5	0	0	30	0	0	0	3	0	6	14	7	0	0
	1730	,,	999·3	945·1	..	32·0	23.5	19·3	22·0	52	..	7·3	..	6·9	0	0	29	5	3	1	0	0	5	10	5	1	0
Rayalaseema Kurnool	0830	281	1004·7	973·4	−0·7	26·8	23·0	20.9	25.0	72	+6	6·9	+1.6	20·0	0	14	16	0	0	0	0	0	30	0	0	0	0
	1730	,,	999·7	969·2	..	33·6	24·3	19·2	22·7	48	..	6.6	..	22·9	1	16	13	0	0	0	0	0	26	0	3	0	1
Nandyal (R)	0830	212	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressures in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—*Contd.*																											
Anantapur	0530	359	1003·9	964·9	..	25·4	22·8	21·5	25·6	79	..	6·4	..	14·1	0	4	23	0	0	0	0	0	5	21	1	3	0
	0830	,,	1005·2	966·5	−0·2	27·3	23·7	21·9	26·3	73	+5	6·4	+1·1	18·0	0	13	17	1	0	0	0	0	4	24	1	0	0
	1130	,,	1003·9	965·7	..	31·4	24·7	21·4	25·6	56	..	6.1	..	22.6	0	19	10	0	0	0	0	0	4	22	3	1	0
	1430	,,	1001·2	963·4	..	33.7	24·9	20·5	24·1	48	..	6.3	..	20·2	0	14	16	0	1	0	0	0	2	21	6	0	0
	1730	,,	1000·3	962·5	..	32·7	24·4	20·1	25·2	50	..	6.7	..	21.2	0	17	11	2	1	0	0	0	4	17	4	2	0
	2030	,,	1003.2	964.8	..	29.5	23·8	20.9	24.7	62	..	6.0	..	18.7	0	14	13	1	0	0	1	0	6	19	0	3	0
	2330	,,	1004.7	966.5	..	27·5	23.3	21.1	25.0	70	..	6·1	..	22·4	0	18	12	0	0	1	0	1	11	17	0	0	0
Cuddapah	0830	130	1005·4	990·9	−0.3	29·6	24 8	22·6	27·4	67	+8	5·4	+0·3	2·4	0	0	13	0	0	0	0	0	0	11	2	17	0
	1730	,,	1000 7	986·4	..	34 0	26 0	22·0	27·1	53	..	6·1	..	4·4	0	0	24	0	3	0	0	0	0	12	9	6	0
Arogyavaram	0830	701	1005·0	929.0	..	25·9	20·5	17·6	19·7	60	..	5·6	..	10·2	0	1	29	2	0	0	0	4	5	15	4	0	0
	1730	,,	1000·5	926·1	..	30·4	21·3	16·2	17·9	44	..	5·6	..	10·4	0	0	29	3	0	0	0	1	5	13	7	1	0
Madras State																											
Madras	0830	6	1005.0	1004.3	..	30·8	24·6	21·6	25·8	59	..	5·6	..	12·9	0	4	25	0	0	0	0	1	9	19	0	1	0
Madras (Minambakkam)	0230	16	1003.0	1001.3	..	29·2	24·6	22·1	26·9	67	..	5·3	..	9·6	0	3	24	0	0	0	0	12	5	10	0	3	0
	0530	,,	1003·3	1001.6	..	28·7	23·7	21·1	25·2	65	..	6·0	..	9·8	0	3	23	0	0	0	0	6	6	14	0	4	0
	0830	,,	1005·0	1003·3	−0·3	31·0	24·0	20·4	24·1	54	−2	6·1	+1.3	15·0	0	8	21	0	0	0	1	2	8	17	1	1	0
	1130	,,	1004·2	1002.5	..	34·6	24·4	19·1	22.2	41	..	5·9	..	17·9	0	17	13	0	0	0	0	2	4	21	3	0	0
	1430	,,	1001·9	1000·2	..	36·1	25·1	19·5	22.9	39	..	6·7	..	17·8	0	17	13	0	0	2	4	4	4	10	6	0	0
	1730	,,	1001.4	999·7	..	33·8	25·5	21·4	25·8	50	..	6·7	..	16·3	0	8	22	0	0	3	8	6	5	6	2	0	0
	2030	,,	1003·8	1002·1	..	30·6	25·8	23·5	29·3	68	..	5·8	..	16·1	0	8	21	0	0	0	5	16	4	3	1	1	0
	2330	,,	1004.5	1002·8	..	29·8	25·3	23·3	28·6	69	..	5·3	..	13·1	0	4	22	0	0	1	2	12	6	4	1	4	0
Vellore	0530	214	1004·1	980·2	..	26.6	22·3	19.8	23·5	67	..	5·8	..	2·3	0	0	15	0	0	0	0	0	2	11	2	15	0
	0830	,,	1005·3	981·5	−0.5	28·8	23·0	19·9	23·4	59	−4	6·2	+2.2	9·4	0	1	27	0	0	0	0	1	1	23	3	2	0
	1130	,,	1004·5	981·0	..	33·0	24·1	19·6	22·7	46	..	6·0	..	8.1	0	0	29	0	0	0	0	0	6	17	6	1	0
	1730	,,	1001·5	978·2	..	34.1	24·1	19·0	21·8	43	..	6·7	..	6·0	0	0	26	0	1	0	0	0	4	14	7	4	0
	2330	,,	1905·1	981·4	..	28·8	23 3	20·4	24·1	62	..	6·0	..	2·9	0	0	16	0	1	0	0	0	0	12	3	14	0
Tambaram (Aerodrome)	0830	29	1004·7	1001·5	..	31·5	26·6	24·5	30·7	67	..	6·0	..	17·0	0	9	20	0	0	0	0	2	13	14	0	1	0
	1730	,,	1001·6	998·4	..	34·3	28·0	25·4	32·6	61	..	6.7	..	21·4	0	17	13	0	0	3	11	3	8	4	1	0	0
Tiruppattur	0830	390	1006.5	963.2	..	25·5	22·7	21·3	25.3	78	..	7·4	..	3·6	0	0	27	19	0	1	0	1	0	6	0	3	0
	1730	,,	1002·0	959·7	..	31·9	24·4	20·6	24·4	52	..	7·8	..	8·2	0	0	30	16	1	0	1	2	1	9	0	0	0
Metturdam R.S.	0830	..	..	..	..	29·1	25·2	23·4	28·9	72	..	4·8	..	3·6	0	0	26	0	2	0	10	0	12	0	2	4	0
	1730	..	..	..	..	31·7	27·8	26·2	34·2	73	..	6·4	..	5·1	0	0	28	0	8	0	2	0	18	0	0	2	0
Cuddalore	0530	12	1003·7	1002·4	..	27·9	23·5	21·3	25·3	68	..	5·7	..	5·9	0	0	29	0	0	0	4	3	22	0	0	1	0
	0830	,,	1005·5	1004·1	−0.7	30·5	24·5	21·7	25·8	59	−5	6·3	+2.0	7·3	0	0	30	0	0	0	3	3	23	1	0	0	0
	1130	,,	1004·7	1003·4	..	34·6	25.1	20·6	24·1	45	..	6·3	..	9.4	0	0	29	0	0	0	4	3	20	2	0	1	0
	1730	,,	1001·8	1000.5	..	32·2	26·5	23·8	30·0	64	..	6·2	..	14·3	0	6	24	0	0	2	19	1	7	0	1	0	0
	2330	,,	1004·8	1003·5	..	29.9	25·1	22·8	27·9	66	..	5·6	..	8·7	0	0	30	0	0	0	8	6	16	0	0	0	0
Kallakkurichchi	0830	127	1005·1	991·0	..	29·6	25·2	23·3	28·4	69	..	5·8	..	7·7	0	0	28	0	1	0	4	1	20	0	2	2	
	1730	,,	1001·1	987.3	..	34·4	26·8	23·4	28·9	53	..	6·6	..	11·7	0	4	25	0	3	0	1	0	22	1	2	1	0
Salem	0530	278	1004·9	973·8	..	25·0	21·8	20·1	23·5	75	..	6·3	..	2·0	0	0	17	0	0	0	0	5	7	5	0	13	0
	0830	,,	1006·3	975·4	−0.6	27·9	23.5	21.2	25·3	67	−7	6.4	+1.5	2·4	0	0	16	0	0	0	0	4	4	8	0	14	0
	1130	,,	1005·1	974.6	..	31·5	23·5	19·3	22·4	49	..	6·4	..	5·7	0	0	27	0	0	0	0	5	8	13	1	3	0
	1730	,,	1001·7	971.4	..	32·5	23·4	18·5	21·3	44	..	7·3	..	6·8	0	0	22	0	0	0	0	2	10	9	1	8	0
	2330	,,	1006·1	975·1	..	27·2	22·5	19·9	23·5	65	..	5·9	..	3·9	0	0	23	0	1	0	0	1	10	10	1	7	0
Coimbatore (Pilamedu)	0530	399	1005·8	961·2	..	23·1	22.2	21·7	25·9	92	..	5·1	..	19·1	0	13	17	0	0	0	0	12	18	0	0	0	0
	0830	,,	1006·9	962·6	..	25·4	23.3	22·3	26·9	83	..	5·7	..	20·5	0	16	14	0	0	0	0	14	16	0	0	0	0
	1130	,,	1005·8	962·2	..	29·7	24·1	21·3	25·3	61	..	5·8	..	27·5	0	22	8	0	0	0	0	12	16	2	0	0	0
	1730	,,	1004·0	960·1	..	27·7	23·3	21·0	25·0	68	..	6·6	..	33·5	0	28	2	1	0	0	0	8	21	0	0	0	0
	2330	,,	1007·2	962·7	..	24·1	22·7	22·0	26·4	89	..	4·7	..	19·7	0	17	13	0	0	0	0	9	21	0	0	0	0
Coimbatore	0830	409	1006·9	961·6	−0·3	25·6	22·4	20·7	24·4	75	−3	6·6	+2·1	21·9	0	22	8	0	0	0	0	15	15	0	0	0	0
Nagapattinam	0830	9	1006·3	1005·3	−0·3	30·5	24·3	21·3	25·3	58	−5	6·1	+1.9	13.2	0	4	26	0	0	0	0	1	11	18	0	0	0
	1730	,,	1002·8	1001·8	..	32·3	25·9	22·9	28·1	59	..	6·3	..	19·8	0	15	15	0	0	0	3	12	14	1	0	0	0
Tiruchchirappalli	0230	88	1004·1	994·3	..	27·4	23·0	20·7	24·6	67	..	5·2	..	21·5	0	17	12	0	0	0	0	1	1	26	1	1	0
	0530	,,	1004·2	994·3	..	26·8	23·0	21.0	25·0	71	..	5·7	..	20.3	0	16	13	0	0	0	0	0	5	23	1	1	0
	0830	,,	1005·8	995·9	−1·1	29.1	24·0	21·5	25·6	64	+6	5·5	+1·2	25·0	0	24	6	0	0	0	0	0	4	26	0	0	0
	1130	,,	1005·0	995.3	..	33·5	24·9	20·5	24·4	47	..	5·6	..	28·3	0	27	3	0	0	0	0	0	7	21	2	0	0
	1430	,,	1002·4	992.9	..	35.5	25.1	19.9	23·2	41	..	6·2	..	28·7	0	27	3	0	0	0	0	0	6	22	2	0	0
	1730	,,	1002·0	992·3	..	33.9	24·5	19·6	22·9	44	..	6.7	..	28·1	1	20	9	0	0	0	0	2	7	19	2	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	N	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.* Tiruchirapalli—*contd.*	2030	88	1004·7	994·9	..	29·9	23·6	20·3	24·0	57	..	6·5	..	24·7	0	18	12	0	0	0	0	4	3	22	1	0	0
	2330	,,	1005·5	995·7	..	28·5	23.1	20·3	23·8	62	..	6·0	..	25·1	0	23	6	0	0	0	1	0	0	4	24	1	0
Vedaranniyam	0830	4	1006·4	1005·9	..	30·8	26·4	24.3	30·7	70	..	3·5	..	9·3	0	0	30	0	1	0	1	6	22	0	0	0	0
	1730	,,	1003·3	1002·8	..	30·5	27·0	25·5	32·6	75	..	4·6	..	12·1	0	1	29	0	0	0	0	11	19	0	0	0	0
Atirampattinam	0830	6	1006·1	1005·4	..	30·3	24·6	21·7	26·3	61	..	4·9	..	8·7	0	0	30	0	0	0	0	9	13	3	5	0	0
	1730	,,	1003·0	1002.3	..	30·3	26·4	24·8	31·1	73	..	5·6	..	26·3 (b)	0	26	4	0	0	0	0	27	2	0	1	0	0
Madurai	0830	133	1006·4	991·6	−0·6	29·4	23·2	19·9	23·4	57	0	3·3	−1.9	5·7	0	0	29	1	0	0	0	0	4	6	16	0	2
Madurai Aerodrome	0530	131	1005.1	990.4	..	27.0	22·3	19·8	23·1	65	..	5·1	..	9.6	0	3	22	1	0	0	1	2	0	17	4	5	0
	0830	,,	1006.5	991.9	..	30·1	23·4	19·9	23·2	55	..	5·3	..	5·3	0	4	24	1	0	0	0	2	6	11	8	2	0
	1130	,,	1005.5	991.1	..	33.9	24.1	19·0	22.0	42	..	5.3	..	18.9	0	14	15	1	0	0	0	1	6	14	7	1	0
	1730	,,	1003·0	988·6	..	32·5	23·6	18·9	21·8	46	.	6·3	..	30·0	0	27	3	0	0	0	1	2	1	25	1	0	0
Ton	0830	5	1006·6	1006·0	..	29·8	24·5	22·0	26·3	63	..	4·5	..	8·2	0	1	29	0	0	0	1	5	21	1	2	0	0
	1730	,,	1003·3	1002·7		30·5	27·0	25·5	32·6	75	..	5·3	..	33.5	0	29	1	0	0	0	11	16	3	0	0	0	0
Pamban	0830	11	1006·5	1005·2	−0·7	29·2	26·0	24·6	31·1	77	+2	4·5	+1·6	8·9	0	2	28	0	0	0	0	1	23	5	1	0	0
	1730	,,	1003·6	1002·3	..	29·5	26·5	25·3	32·2	79	..	4·1	..	14·5	0	5	25	0	0	0	0	15	15	0	0	0	0
Tuticorin	0830	4	1007·0	1006·6	−0·6	30·7	24·7	21·8	26·1	59	−1	4·8	+0·6	15·3	0	10	20	0	0	0	0	2	9	19	0	0	0
	1730	,,	1003·9	1003·5	..	33·3	24·6	20·2	23·8	47	..	5·7	..	20·7 (b)	0	19	11	0	0	0	0	3	2	25	0	0	0
Palayankottai	0830	51	1006·9	1001·2	−0·3	30·8	23·9	20·5	24·1	55	−2	5·7	+0·8	9·4	0	3	18	0	0	0	0	0	1	18	2	8	0
	1730	,,	1004·1	993·4	..	32·0	23·8	19·5	22·8	48	..	6·2	..	16·9	0	10	19	1	0	0	0	0	3	17	3	1	5
Kanniyakumari	0830	37	1007·8	1003·7	..	27·5	24.4	22·9	27·9	76	..	5·8	..	19·0	0	18	12	0	0	0	0	0	1	25	4	0	0
	1730	,,	1005·6	1001·5	..	28·1	24·8	23·2	28·6	75	..	6·4	..	19·5	0	17	13	0	0	0	0	0	3	25	2	0	0
Coastal Mysore Karwar	0830	4	1006·6	1006·1	−0·3	26·9	25·4	24·6	31·1	88	0	6·9	−0·1	11·6 (b)	0	9	21	0	2	4	1	2	0	2	7	0	12
	1730	,,	1004·9	1004·4	..	27·8	26·1	25·4	32·2	86	..	7·0	..	15·6 (b)	0	8	21	0	1	1	0	0	4	1	7	0	15
Honavar	0830	26	1007.1	1004·1	−0.9	25·7	24·5	23·8	29·8	88	−1	7·9	+1·1	7·3	0	1	27	0	3	8	3	3	4	5	2	2	0
	1730	,,	1004·8	1001·9	..	27·3	25·2	24·3	30·4	84	..	7·7	..	10·0	0	3	26	0	0	3	1	9	6	8	2	1	0
Mangalore (Bajpe)	0230	102	1006·2	994·7	..	24·6	23·7	23·3	28·6	93	..	7·3	..	4·7	0	0	23	0	0	4	4	3	4	4	4	7	0
	0530	,,	1006.2	994·7	..	24·1	23·4	23·0	28·3	93	..	7·5	..	4·9	0	0	24	1	0	13	3	0	2	4	1	6	0
	0830	,,	1007·7	996·2	.	25·6	24·2	23·6	29·1	89	..	7·1	..	5·1	0	0	26	0	0	8	7	1	4	4	2	4	0
	1130	,,	1007·6	996·2	..	27·9	25.0	23.7	29·3	79	..	7·3	..	8·5	0	0	30	0	0	2	2	4	8	8	6	0	0
	1430	,,	1006·0	994·7	..	28·8	25.3	23·8	29·3	75		7·1	..	13·6	0	6	23	0	0	1	1	2	5	13	7	1	0
	1730	,,	1005·5	994·1	..	27·4	24.9	23·7	29·3	81	..	7·5	..	10·8	0	1	29	1	0	2	1	3	7	12	4	0	0
	2030	,,	1007·3	995·8	..	25·6	24·2	23·6	29·1	89	.	7·1	..	5·8	0	0	29	3	0	3	9	4	6	2	2	1	0
	2330	,,	1007·8	996·3	..	25·0	24·1	23·6	29·3	92	..	7·3		6·3	0	1	25	0	0	7	5	5	5	2	2	4	0
Mangalore	0830	22	1007·6	1005·1	−0·7	25·9	24·7	23·9	30·2	86	−1	6·9	+0·1	4·6	0	0	30	2	0	12	3	3	5	3	1	0	1
	1730	,,	1005·7	1003·2	..	28·1	25.3	24·1	31·0	81	..	7·2	..	6·9	0	0	30	0	0	3	0	5	8	8	3	0	3
Interior Mysore (North) Bidar	0830	664	1003·5	931·2	..	25·8	22.2	20·3	24·1	75	+4	6·3	+1·7	19·4	0	12	18	0	0	0	0	0	12	9	9	0	0
	1730	,,	998·7	927·7	..	30·2	23·4	20·7	23·8	59	..	7·3	..	15·9	0	12	13	0	2	0	1	1	9	9	3	5	0
Gulbarga	0830	458	1004·5	953·8	−0·5	27·1	21·9	19·0	22·4	66	−5	7·1	+2·3	11·7	0	5	22	1	0	0	0	0	6	14	6	3	0
	1730	,,	998·2	949·7	..	32·4	22·7	17·3	20·5	46	..	7·1	..	18·3	0	10	20	4	5	2	0	2	5	11	1	0	0
Bijapur	0330	594	1004·7	939·5	−0·5	25·1	21·9	20·3	24·0	76	+3	5·4	+0·4	3·3	0	0	27	0	0	0	0	1	4	19	3	3	0
	1730	,,	999·9	936·2	..	31·0	22·5	18·2	21·3	50	..	5·2	..	3·1	0	0	22	2	1	0	0	0	8	10	1	8	0
Raichur	0830	400	1004·7	960·6	−0·5	27·2	23·9	22·4	26·9	76	+7	6·2	+2·2	7·1	0	0	29	0	0	0	0	0	15	8	5	1	1
	1730	,,	1000·0	956·7	..	33·0	25·4	21·9	26·3	55	..	6·7	..	10·8	0	3	27	0	2	0	3	1	16	0	8	0	0
Belgaum	0830	753	1005·6	923·4	0·6	22·8	21·1	20·2	23·8	86	+3	6·9	+0·5	5·1	0	0	29	0	0	0	0	1	4	23	1	1	0
	1730	,,	1002·7	921·3	..	25·1	21·7	20·1	23·5	75	..	7·0	..	9·4	0	0	30	0	0	0	0	1	3	21	5	0	0
Belgaum (Sambra)	0530	747	1004·6	922·6	..	21·5	20·3	19·7	22·9	90	..	7·0	..	13·2	0	7	21	0	0	0	0	2	9	15	2	2	0
	0830	,,	1005·7	924·1	..	23·2	21·1	20.0	23·5	83	..	7·2	..	16·5	0	10	20	1	0	0	1	0	10	13	5	0	0
	1130	,,	1004·8	924·1	..	26·7	21·6	18·8	22·1	64	..	7·1	..	18·8	0	13	17	3	0	0	1	1	9	13	3	0	0
	1430	,,	1002·7	922.5	..	28·1	21·6	18·1	21·0	59	..	7·2	..	22·6	0	21	8	1	1	0	0	0	8	16	3	1	0
	1730	,,	1002.5	921·8	..	25·9	21.6	19·5	22.7	71	..	7·3	..	21.5	0	21	9	0	0	0	0	0	12	16	2	0	0
	2030	,,	1005.2	923·5	..	22.9	21.0	20.1	23.5	85	..	6.9	..	17·3	0	11	19	0	0	0	0	0	11	19	0	0	0
Gadag	0530	650	1004·8	933.2	..	22.2	21.3	20·8	24.7	92	..	6.7	..	13.1	0	2	28	0	0	0	0	0	9	21	0	0	0
	0830	,,	1005.8	934·5	−0·7	23·9	22·1	21.2	25.3	85	+4	6.9	+1·5	11·3	0	1	29	0	0	1	0	0	9	20	0	0	0
	1130	,,	1004·8	934·5	..	28·2	23·0	20·5	24.3	64	..	6·2	..	13·1	0	3	27	0	0	0	0	1	8	16	5	0	0
	1430	,,	1002·8	932.7	..	29·6	23.4	20.4	24.3	62	..	6.4	..	14.7	0	6	24	0	1	0	0	2	6	16	5	0	0
	1730	,,	1002.2	932·3	..	27.8	22·5	19.9	23.2	67	..	7·1	..	10·0	0	1	29	0	0	1	0	2	7	18	2	0	0
	2030	,,	1005·0	933.8	..	24.5	22.0	20.9	24·7	81	..	6·3	..	13.7	0	1	29	1	0	0	0	1	9	17	2	0	0
	2330	,,	1006·1	934·7	..	23.1	21·8	21·1	25.0	89	..	5·9	..	15·1	0	3	27	0	0	0	0	1	15	14	0	0	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)																												
Bellary	0830	449	1005·5	956·1	−0·1	26·6	22·6	20·5	24·1	70	+9	5·4	+0·1	9·0	0	0	29	0	0	0	0	0	12	0	17	1	0
	1730	,,	1000·7	952·3	..	31·3	23·9	19·7	23.5	51	..	5·7	..	9·5	0	0	30	0	0	0	0	0	9	0	21	0	0
Chitradurga	0830	733	1006.0	925·8	−0·3	23·4	21·0	19·8	23·1	81	+4	6·6	+0·4	12·3	0	2	28	0	0	0	0	2	7	21	0	0	0
	1730	,,	1001.9	923·2	..	28·0	21·9	18·7	21·8	60	..	7·2	..	5·6	0	0	26	0	0	0	0	0	1	25	0	4	0
Shimoga	0830	571	1006.4	943·5	−0·4	24·2	21·7	20·5	24·1	80	−3	5·0	−1·5	6·7	0	0	30	0	0	0	0	0	17	12	1	0	0
	1730	,,	1003.5	941·3	..	27·2	22·0	19·8	22·7	69	..	5·0	..	9.2	0	0	30	0	0	0	0	0	9	19	2	0	0
Agumbe	0830	..	..	..	..	22·4	21·6	21·2	25·2	93	..	..	..	6·3	0	0	30	0	0	0	0	12	12	4	2	0	0
Balehonnur	0830	..	..	..	..	21·7	20·5	19·7	22·8	88	−4	..	..	..	..	..	..	..	..	..	..			..	..	..	..
Hassan	0830	960	1479·1	902·8	..	21·2	20·0	19·4	22.5	89	+7	6·4	+0·2	4 3	0	0	30	0	0	0	0	0	8	22	0	0	0
	1730	,,	1466·9	901·1	..	23·0	20·4	19·1	22·1	79	..	6.5	..	5·1	0	0	30	0	0	0	0	0	16	13	1	0	0
Mangalore	0230	921	1465.1	905·5	..	26·7	19·5	18·6	21·3	88	..	5·0	..	4·9	0	2	23	1	0	0	0	0	8	15	1	5	0
	0830	,,	1478·7	906·8	−0·3	21·9	19·9	18·9	21·8	83	+3	6·8	+0·5	10·7	0	2	28	0	0	0	0	0	11	16	3	0	0
	1130	,,	1483·0	906.4	..	26·3	21·2	18·5	21.4	63	..	6·5	..	13·2	0	4	26	0	0	0	0	0	9	17	4	0	0
	1430	,,	1472·9	904.9	..	28·7	21·4	17 6	20·1	51	..	7·0	..	12.2	0	7	22	0	0	0	0	0	9	19	1	1	0
	1730	,,	1465.1	904.5		26.6	21.1	18.2	21.0	62		7.2		12.9	0	6	24	1	0	0	0	0	8	18	3	0	0
	2030	,,	1476.9	906.3		23.8	20.3	18.5	21.3	73		5.7		10.1	0	2	26	0	0	0	0	1	11	15	1	2	0
Bangalore Aerodrome	0530	897	1459·9	907·7	..	20·3	19·5	19·1	22·1	93	..	6·0	.	12·3	0	2	25	0	0	0	0	0	2	24	1	3	0
	0830	,,	1477·6	909·1	..	22·3	20·4	19·4	22 7	83	..	6·8	..	15·7	0	5	25	0	0	0	0	0	3	25	2	0	0
	1130		1481.6	908.8	..	26·3	21 5	19.1	22·1	66		6·5	..	17.6	0	9	21	0	0	0	0	0	5	23	2	0	0
	1430	,,	1468·4	906·9	..	28·5	22·1	18·9	21·8	56	..	6·9	..	16·6	0	7	23	0	0	0	1	0	6	22	1	0	0
	1730	,,	1459·8	906·4	..	26·6	21·7	19·2	22·4	66	..	7·2	..	16·4	0	8	22	1	0	0	0	0	8	18	3	0	0
	2030	,,	1474·3	908·6	..	25·5	20·8	19·5	22·7	79	..	6·2	..	15·3	0	6	22	0	0	0	0	1	4	23	0	2	0
	2330	,,	1478·9	909·4	..	21·9	20·1	19·5	22 9	87	..	5 9	..	13·0	0	2	24	0	1	0	0	0	4	21	0	4	0
Mysore	0830	767	1007·6	923·5	−0 2	22 7	19·9	18·5	21·1	78	0	4·9	−1·3	5·7	0	0	29	1	1	1	1	5	9	7	4	1	0
	1730	,,	1004·5	921·6	..	26·1	20·8	18·1	20·8	62	..	6·6	..	13·4	0	8	22	1	0	0	0	2	13	8	5	0	1
Kerala																												
Calicut	0530	5	1007·3	1006·7	..	24 7	23·8	23·4	28·6	92	..	6·1	..	8·9	0	5	18	0	3	13	0	0	0	3	4	7	0
	0830	,,	1008·7	1008·1	−0.2	26·1	24 5	23·7	29·5	87	−2	6·6	−0·2	5·1	0	0	25	1	6	9	1	0	1	2	5	5	0
	1130	,,	1008·8	1008·2	..	28·0	25·4	24·2	30 4	81	.	6·8	..	8·7	0	0	25	1	0	0	2	1	6	9	6	5	0
	1730	,,	1006·6	1006·0	..	28·6	25·7	24·6	29·3	82	..	6·8	..	9·3	0	1	27	1	1	1	0	4	3	8	10	2	0
	2330	,,	1008·9	1008·3	..	25 7	24·5	24·0	29·8	90	..	5·4	..	5 9	0	1	20	2	3	5	1	1	0	5	4	9	0
Palghat	0830	97	1008·2	997·2	..	25·6	23·9	23·1	28 3	86	..	6·7	..	10·8	0	12	18	0	0	0	0	0	2	28	0	0	0
	1730	,,	1005·5	994·5	..	27·2	24 3	22·9	27·9	78	..	7·2	..	12·6	0	1	29	0	0	0	0	0	1	28	1	0	0
Fort Cochin	0830	3	1008·7	1008·4	−1·1	26·2	24·7	24·3	30·0	89	+3	7·5	+1.1	4 2	0	0	23	2	7	8	3	0	0	2	1	7	0
	1730	,,	1006·6	1006.3	..	27·4	25·4	24·4	30·7	84	..	7·4	..	5·5	0	0	25	1	3	1	0	0	4	9	7	5	0
Cochin (Naval Air Station)	0230	3	1007·6	1007·3	..	25·0	24·1	23·7	29 3	93	..	6·7	..	2·0	0	1	3	0	0	1	0	0	0	1	2	26	0
	0530	,,	1007·5	1007·2	..	24·4	23·7	23·3	28·6	93	..	6·8	..	1·4	0	0	3	0	0	1	1	0	0	1	0	27	0
	0830	,,	1008·9	1008·6	..	26·1	24·6	23·9	29·6	88	..	6·9	..	1·3	0	0	6	0	0	3	0	1	1	0	1	24	0
	1130	,,	1009·1	1008·8	..	28·3	25 3	23·9	29 8	77	..	6·7	..	6·1	0	0	19	0	2	0	0	2	8	1	5	11	1
	1730	,,	1007·0	1006·7	..	27·8	25 1	23·9	29·6	80	..	7·2	..	5·8	0	1	16	1	0	1	0	1	3	2	9	13	0
	2330	,,	1009·0	1008·7	..	25·5	24·4	23·9	29·7	91	..	6·9	..	1·9	0	1	4	1	0	1	1	0	0	1	1	25	0
Alleppey	0830	4	1008·9	1003·5	−0·3	26·1	25·1	24·6	30·9	92	+3	6·9	−1.2	3·8	0	0	20	1	5	4	2	0	2	3	2	10	1
	1730	,,	1006·6	1006·2	.	28·1	25·6	24 6	30·7	82	..	6·8	..	14·5	0	5	25	0	1	0	0	0	2	4	23	0	0
Punalur	0330	34	1008·9	1005·1	.	25·3	24·5	24 1	29·7	93	.	7·1	..	5·0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1007·5	1003·7	.	27·3	25·1	24 2	3 ·0	84	..	7·6	..	4·5	0	0	29	0	0	0	0	2	9	12	6	1	0
Trivandrum	0230	64	1007·3	1000·0	.	24·9	23·9	23 4	28·8	91	.	5·3	.	6 1	0	0	27	10	1	0	0	0	0	1	15	3	0
	0530	,,	1007·4	1000·0	..	24·6	23·6	23 1	28·4	92	.	6·0	..	5·9	0	0	26	10	3	0	0	0	1	1	11	4	0
	0830	,,	1008·9	1001·6	−0 6	26·4	24·5	23·7	29·3	84	−2	6·4	−0·2	5·5	0	0	27	4	5	0	0		0	2	16	3	0
	1130	,,	1008·5	1001·3	.	28·6	24·9	23 3	28·6	74	..	6·4	.	12·6	0	3	27	1	0	0	0	0	0	12	17	0	0
	1430	,,	1006·7	999·9		29·4	25·3	23 4	28·9	71	..	5·9	..	12·5	0	2	28	2	0	0	0	0	1	11	16	0	0
	1730	,,	1006·6	999·3	..	27·9	24·3	23·3	28·6	76	..	6·5	.	11·4	0	3	27	1	0	0	0	0	0	5	24	0	0
	2030	,,	1008·5	1001·2	..	26·2	24·4	23 7	29·1	86	..	5·0	..	6·7	0	0	26	6	0	0	0	0	2	0	18	4	0
	2330	,,	1008·9	1001·6	..	25·5	24·2	23 6	29·3	89	..	5·0	..	7·0	0	0	28	9	0	0	0	0	0	0	19	2	0
Trivandrum Aerodrome	0030	8	1009·2	1008·3	..	27·2	24·8	23·7	29·3	81	..	6·4	..	16·0	0	10	19	15	4	0	0	0	1	3	6	1	0
Arabian Sea Islands																												
Amini*	0530	4																										
	0830	,,																										
	1130	..																										

*Data given as addenda in December 1964 issue.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amou (Oktas): Mean amount	Cloud amou (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian Sea Islands																											
Amini—*Contd.*	1730	4																									
	2330																										
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1430	,,																									
	1730	,,																									
	2030	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1384·0	795·7	+0.2	19·5	14·7	10·9	13·0	57	−6	1·9	+0·2	2·0	0	0	16	3	5	1	2	0	1	1	2	14	1
	1730	,,	1371·8	795·8	..	22·9	16·5	12·4	14·4	53	..	3·0	..	3·0	0	0	19	1	7	2	2	0	1	2	1	11	3
Dharmsala	0830	1211	1481·1	876·9	+0·3	25·8	18·9	14·0	16·0	51	+2	3·6	+1·7	1·6	0	0	23	1	19	0	0	0	0	2	1	7	0
	1730	,,	1473·7	876·2	..	28·7	18·4	12·5	14·5	40	..	4·1	..	1·9	0	0	29	0	1	0	0	0	26	0	2	1	0
Simla	0830	2202	1429·5	777·9	−0·3	19·7	13·9	9·1	11·5	57	+2	3·6	+0·1	1·6	0	0	24	5	0	2	4	9	2	0	1	6	1
	1730	..	1418·3	777·3	..	21·7	17·2	14·5	16·5	71	..	5·3	..	1·0	0	0	15	0	2	0	2	0	10	0	1	15	0
Lokpal	0830	..	.	..	..	0·7	−1·3	−4·0	4·4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..																									
Jothimath	0830	..	.	..	..	20·5	15·6	12·4	14·4	63	..	3·0	..	6·6	0	0	25	1	6	14	2	0	0	1	1	5	0
	1730	..	..	..	..	23·7	16·7	12·7	14·7	53	..	5·3	..	6·0	0	0	23	3	0	11	0	0	3	2	2	7	2
Mussoorie	0830	2042	..	..	..	20·4	15·5	11·2	13·3	62	−6	4·2	+0·2	2·3	0	0	21	5	2	0	4	6	2	0	2	9	0
	1730	..	..	..	..	22·2	15·9	11·1	13·2	56	..	5·5	..	4·3	0	0	27	3	2	0	4	10	6	0	2	3	0
Mukteswar (Kumaun)	0830	2311	3110·9	769·1	0	18·6	13·5	9·0	11·5	61	−7	3·5	−0·6	7·8	0	0	28	0	0	2	2	0	1	13	10	2	
	1730	,,	3097·7	767·3	..	21·4	15·3	10·6	12·8	56	..	3·8	..	14·3	0	6	22	0	0	1	1	0	3	14	9	2	0
Nainital	0830	1953	1425·5	800·0	−0·2	21·3	16·0	11·0	13·1	58	−5	3·4	−0·7	7·0	0	0	21	1	1	5	6	0	0	4	4	9	0
	1730	,,	1398·2	799·0	..	22·5	16·8	12·1	14·0	56	..	2·7	..	8·9	0	0	28	5	1	5	6	1	1	8	1	2	0
Kalimpong	0830	1209	1463·7	875·5	+2·2	22·0	20·3	19·5	22·7	86	−2	..	..	3·2	0	0	30	0	0	0	4	0	0	0	26	0	0
	1730	,,	1430·9	872·1	..	22·5	20·2	19·1	22·1	81	..	..	..	3·3	0	0	30	0	0	0	26	0	0	0	4	0	0
Darjeeling	0830	2128	1460·0	786·9	+1·8	17·2	16·6	16·3	18·5	94	+6	7·5	+0·6	1·3	0	0	9	4	2	0	0	0	1	1	0	21	1
	1730	,,	1438·0	784·9	..	17·5	16·8	16·5	18·8	93	..	7·6	..	2·5	0	0	13	1	2	0	0	0	3	5	0	17	2
Kohima	0830	1406	1538·8	853·3	..	21·2	19·3	18·3	21·0	86	..	7·6	..	3·5	0	0	30	0	0	0	0	0	0	0	30	0	0
	1730	,,	1493·4	853·7	..	21·7	20·2	19·5	22·7	89	..	7·0	..	3·2	0	0	30	0	2	0	0	0	0	0	27	0	1
Shillong	0830	1500	1457·0	846·0	+1.1	21·6	19·8	18·9	21·8	85	+7	7·3	+0.7	3·7	0	0	10	0	0	0	1	2	7	0	0	20	0
	1730	,,	1438·3	844·2	.	21·4	19·4	18·3	21·0	82	..	7·2	..	2·8	0	0	10	0	0	0	1	4	4	1	0	20	0
Cherrapunji (R)	0830	1313	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abu	0830	1195	1445·6	875·1	+0.1	21·6	18·7	17·1	19·5	78	+7	4·2	−0.3	(d) 2·2	0	0	17	0	0	0	1	2	8	5	1	10	0
	1730		1431·8	873.2	..	27.2	19.6	15·2	17·3	51	..	3.0	..	(d) 8·3	0	1	25	0	0	0	1	3	12	8	2	1	0
Aijal	0830	..	..	..	..	21·9	20·5	19·9	23·2	88	..	(b) 7·9	..	(b) 5·2	0	0	27	0	0	12	1	2	11	1	0	0	0
	1730	..	..	..	..	22.1	21.1	20.6	24·3	90	..	7·5	..	5.8	0	0	29	0	0	3	0	1	23	2	0	0	0
Pachmarhi	0830	1075	1458·3	838.1	+0.6	25·0	19·7	16·3	19·0	64	−4	5·1	+0.2	6·7	0	0	29	0	0	0	0	0	2	11	16	1	0
	1730	,,	1430·0	831.9	..	28·5	20·3	14·7	17·8	51	..	6·2	..	5·8	0	0	30	3	1	0	0	2	0	9	15	0	0
Mahabaleshwar	0830	1382	1462·8	853·3	−1.2	18·8	17·8	17·1	19·6	92	−2	7·0	−0.1	13·2	0	0	30	0	3	0	3	0	16	0	8	0	0
	1730	,,	1443·8	855·3	..	19·6	18·9	18·4	21·3	82	..	7·1	..	11·4	0	0	30	0	1	0	0	0	19	0	10	0	0
Mercara	0830	1152	1484·2	883.8	+0·3	19·1	18.5	18·1	21·2	90	−3	6·8	−0.2	11·7	0	0	30	0	0	0	0	0	5	23	2	0	0
	1730	,,	1466·9	831.2	..	20·2	19.3	18.1	21.8	91	..	7·5	..	9·5	0	1	29	0	0	0	0	0	1	28	1	0	0
Ootacamund	0830	2249	1483·6	777·6	0	14·6	12·6	11·2	13·3	80	−4	5·6	−0·6	7·2	0	1	24	0	1	1	0	2	16	5	0	5	0
	1730	,,	1470·8	776·4	..	15·1	13·3	12·1	14·1	82	..	6·6	..	7·0	0	0	26	1	0	1	0	2	16	6	0	4	0
Coonoor (R)	0830	,,																									
Kodaikanal	0830	2343	3134·0	769.4	+0.3	15·1	12.3	10·1	12·5	73	+1	6·6	+1.1	8.4	0	2	25	0	1	0	2	0	1	10	13	3	0
	1130	,,	3144.1	769·6	..	17·9	14·3	11·9	13·9	69	..	6·6	..	9·1	0	1	28	3	1	0	1	0	1	7	16	1	0
	1730	..	3118.1	768·0	..	14·8	13·3	12·2	14·3	85	..	7·5	..	8·7	0	4	21	1	1	0	1	0	1	9	12	5	0
Nepal																											
Katmandu	0830	4324	1432.5	860.8	..	24·1	19·8	17·2	20·0	68	..	3·9	..	0·2	0	0	2	0	0	0	0	0	0	0	2	28	0
	1130	,,	1427.1	860.0	..	29·2	21·2	16·5	19·3	51	..	4·7	..	1·7	0	0	13	1	2	0	0	0	3	2	5	17	0
	1730	,,	1411.8	858.3	..	27·7	21·3	17·7	20·6	60	..	5·4	..	2·2	0	0	14	0	3	2	1	0	5	2	2	16	0
Sikkim																											
Lachen	0830	..	..	..	..	15·6	14·1	13·1	15·1	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0

(b) Mean of 29 days. (d) Means of 27 days. (R) Register not received.

*Data given as addenda in December 1964 issue.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1964 (JYAISTHA 11—ASADHA 9, 1886 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloudamounnt (Oktas): Mean amount	Cloudamounnt (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	31·7	24·6	20·2	23·7	60	..	2·8	..	10.6	0	0	28	2	1	11	5	0	0	6	3	2	0
	1730	..	..	..	..	32·7	24·5	19·3	22·4	56	..	2·8	..	10·1	0	0	30	3	1	10	2	1	1	8	4	0	0
Hazaribagh	0830	615	997·7	931·8	..	30·1	22·9	19·5	22·6	59	..	4·2	..	6·1	0	1	23	1	0	4	2	0	2	11	4	6	0
	1730	,,	994·3	928·9	..	31·2	22·7	18·5	21·4	56	..	5·1	..	4·7	0	0	27	2	2	8	1	1	0	5	8	3	0
Konar	0830	..	..	..	..	31·0	24·9	22·1	26·6	64	..	4·3	..	9·0	0	2	26	1	3	4	5	2	0	13	0	2	0
	1730	..	..	..	..	33·0	24·6	20·4	24·0	54	..	3·7	..	6·6	0	0	30	1	0	10	2	0	0	12	5	0	0
Bokaro	0830	242	1000·1	973·9	..	31.0	24·8	21·9	26·3	61	..	3.3	..	3·6	0	0	26	0	2	8	2	1	8	3	2	4	0
	1750	..	996.0	970.1	.	34·1	24·3	19·3	22·4	48	..	3·8	..	4·1	0	0	25	4	0	3	7	0	5	1	5	5	0
Maithon	0830	..	..	..	..	31·8	26·4	24·1	30·0	67	..	4·5	..	3·3	0	0	30	0	2	1	17	2	8	0	0	0	0
	1730	..	..	..	..	35·2	26·9	23·3	28·6	55	..	4·5	..	3·4	0	0	30	0	4	1	17	1	7	0	0	0	0
Ramgarh	0830	..	.	..	..	31·7	26·7	24·5	30·7	67	..	4·8	..	2·6	0	0	26	0	1	6	1	1	2	8	7	4	0
	1730	.	..	..	..	34·0	30·1	28·7	39·4	75	..	5·7	.	2·7	0	0	27	0	3	8	2	0	3	5	6	3	0
Panchet Hills	0830	..	..	..	..	31·7	26·4	24·1	30·0	67	..	4·0	..	3·7	0	0	21	0	1	0	8	0	11	0	1	9	0
	1730	..	..	..	..	33·9	25·9	22·3	27·3	57	..	4·0	..	3.5	0	0	20	0	4	0	11	0	4	0	1	10	0
Durgapur	0830	..	..	..	..	30.7	26.7	25.0	31.7	72	..	1.8	..	10·9	0	0	30	0	2	1	6	19	2	0	0	0	0
	1730	..	..	..	..	32·8	26·7	23·9	29.7	63	..	4.9	..	8.5	0	0	30	1	0	2	7	12	6	1	1	0	0
Mahanadi Catchment																											
Gimabahar	0830	..	..	..	..	29·1	23·7	20·5	24·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1000.0	982·4	..	29.8	24.9	22.7	27.6	67	..	5.3	..	3.4	0	0	26	0	0	0	1	1	17	5	2	4	0
	1130	,,	999.4	981.9	..	33.0	25.4	21.9	26.3	56	..	5.2	..	3.6	0	0	30	0	0	0	0	0	18	4	7	0	1
	1730	,,	995.7	978.3	..	34.6	25.3	20.8	24.6	51	..	5.7	..	3.4	0	0	24	0	1	0	1	3	14	0	4	6	1
Bhimkund	0830	..	..	..	..	28.3	25.1	23.7	29.3	74	..	4.4	..	1.6	0	0	13	2	0	0	0	1	7	1	2	17	0
	1730	..	..	..	..	30·9	24.6	21·5	25·6	61	.	4.7	..	1.8	0	0	13	0	0	0	3	1	6	2	1	17	0
Sonepur	0830	..	..	..	..	31·1	25·2	22·5	27·3	65	..	..	..	10.0	0	0	30	0	0	0	2	2	18	8	0	0	0
Khiirawan	0830	..	..	..	..	29·2	23·7	20·8	24·7	64	..	3.8	..	8.6	0	0	29	1	0	0	1	2	15	7	3	1	0
	1730	..	..	..	..	32·0	23·5	18·6	22·0	50	..	3.9	..	9.1	0	0	29	0	0	0	3	3	15	4	4	1	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	30.5	23.1	18.8	22.2	55	..	4.0	..	12.1	0	0	30	0	0	0	1	1	13	10	5	0	0
	1730	..	..	..	..	33.9	23.5	16.9	20·5	45	..	5.8	..	10·5	0	0	29	0	2	0	2	1	6	8	10	1	0
Punasa	0830	..	..	..	..	30.2	24·0	20·9	24·7	60	..	5·6	..	11·0	0	0	30	0	0	0	0	1	8	18	3	0	0
	1730	..	..	..	..	35.2	24·1	17·7	20·9	41	..	5·6	..	13·1	0	4	25	5	1	1	0	0	7	12	3	1	0
Thikri	0830	..	..	..	..	29·7	25·1	22·9	28·1	68	..	4·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	29.4	22·4	18·5	21·4	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	36·2	24·7	18·7	21·7	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	18.8	13.9	11·0	13·1	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·8	13·7	10·6	12·8	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	25·9	22·2	20·8	24·6	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·0	23·6	22·0	26·4		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	23·9	18·1	14·9	16·9	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·4	18·4	15·2	17.3	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	25·5	21·8	20·0	23·5	73	..	3·5	..	1·0	0	0	8	2	0	0	6	0	0	0	0	22	0
	1130	..	..	..	..	28·5	22·7	19·9	23·2	62	..	3·8	..	4·1	0	0	26	1	0	4	18	3	0	0	0	4	0
	1730	..	..	..	..	27·1	22·6	20·4	24·1	69	..	5·3	..	2·1	0	0	15	5	2	0	5	0	0	0	3	15	0
Gorkha	0830	..	..	..	..	24·1	21·0	19·3	22·7	77	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	..	..	..	..	27·2	21·9	19·0	22·4	65	..	3·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	..	..	..	27·2	21·9	19·0	22·4	64	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Nuwakot	0830	..	..	..	..	26·7	22·5	20·5	24·1	69	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·3	22·3	18·9	21·8	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment [*Trans Himalayan Region*]																											
Dailekh	0830	..	..	..	..	23·3	19·8	17·9	20·5	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·5	21·5	19·5	22·7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	21·3	16·0	12·0	14·7	62	..	3·4	..	3.9	0	0	25	5	1	6	6	1	3	1	2	5	0
	1130	..	..	..	..	24·9	17·0	11·3	14·5	51	..	3·7	..	6·2	0	0	27	4	2	1	0	0	4	1	13	3	2
	1730	..	..	..	..	24·2	17·1	11·6	14·9	52	..	3·2	..	7·3	0	0	30	5	1	0	0	2	4	1	17	0	0
Sallayana	0830	..	..	..	..	26·4	21·6	19·1	22·3	67	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·3	21·8	20·2	23·7	75	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	31·1	25·1	22·3	26·9	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	35·2	25·7	21·3	25.3	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Baghmati Catchment																											
Katmandu*	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	22·3	19·1	17·5	20·0	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·4	19·8	17·1	19·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·6	17·6	16·8	19·1	85		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	17·6	16·8	19·1	85		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	13·0	11·1	9·9	12·2	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·7	11·7	11·1	13·2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	22·4	20·1	18·9	21·8	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	20·1	18·6	21·4	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·9	19·9	19·0	22·0	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	19·0	18·1	20·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·6	18·7	17·8	20·2	85	..	6·2	..	(o) 0·6	0	0	4	0	0	0	0	2	1	1	0	26	0
	1130	..	..	..	..	22·8	19·7	18.2	21·0	77	..	6·2	..	(o) 4·0	0	0	17	4	0	1	3	1	3	3	2	13	0
	1730	..	..	..	..	21·3	18·9	17·8	20·2	81	..	6.8	..	(n) 8·1	0	0	22	0	2	0	8	11	0	1	0	8	0
Okhaldhunga	0830	..	..	..	..	20·7	18·3	16·8	19·5	81	..	4·4	..	0·6	0	0	4	0	0	0	1	0	1	2	0	26	0
	1130	..	..	..	..	23·3	19·1	16·8	19·4	70	..	4·0	..	2·7	0	0	10	0	0	0	1	1	2	4	2	20	0
	1730	..	..	..	..	20·5	18·3	17·1	19.6	83	..	5·9	..	7·6	0	0	19	0	0	0	0	1	1	15	2	11	0
Chainpur	0830	,,	..	..	..	23·0	21·0	20·0	23·4	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	23·4	21·2	20·1	23·5	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	,,	..	..	..	23·4	20·5	19·4	22·1	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	23·6	21·0	19·7	22·9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1000·1	983.9	..	28·5	25·4	23·9	30·0	77	..	4·9	..	3·5	0	0	26	1	1	1	0	1	19	2	1	4	0
	1130	,,	999.1	983·4	..	31·2	26·3	24·2	30·0	67	..	5·7	..	5·3	0	0	26	0	0	0	0	0	21	5	0	4	0
	1730	,,	996.6	980.6	..	30·8	25·9	23·3	29·3	68	..	5·1	..	3·6	0	0	24	1	1	1	0	2	15	3	1	6	0
Tista Catchment																											
Gangtok	0830	1812	1435.8	814·0	..	18·6	17·7	17·2	19·7	92	..	7·3	..	1·1	0	0	8	3	3	0	0	2	0	0	0	22	0
	1130	,,	1430·4	813·7	..	20·8	19·0	18·2	20.8	86	..	6·6	..	1·8	0	0	16	0	2	0	0	5	7	1	1	14	0
	1730	,,	1412·3	811·9	..	20·0	18·6	17·9	20·5	88	..	7·4	..	1·3	0	0	11	0	1	0	4	3	2	1	0	19	0
Gezing	0830	..	..	..	..	20·3	19·4	18·9	21·8	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	19·9	19·3	22·4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(n) Mean of 17 days.

*Data included under 'Nepal'.

(o) Mean of 16 days.

MONTHLY MEANS OF UPPER WINDS

June, 1964 (*Jyaistha* 11—*Asadha* 9, 1886 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km.a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0 and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 & 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1.	Agartala	23°53′	91°15′	17	28th Nov. 1951	0530	1130	1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th Oct. 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st Oct. 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st Sep. 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1130	1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1130	1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th Sep. 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th Mar. 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May 1943	0530		1730	2330
23.	Gangtok	27°03′	88°37′	2115	1st June 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th Mar. 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th Jan. 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th Mar. 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1130	1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th Nov. 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	28th Oct. 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th Oct. 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530	1130	1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1130	1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46	78°43′	96	22nd June 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
50	Udaipur	24°35	73°42′	587	24th June 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

* Radiowind ascents.

@Radiosonde ascents followed by optical theodolite.

† Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	AGARTALA																AHMADABAD							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·6	2·9	142	15	4·3	2·7	183	30	3·7	3·0	166	30	3·4	2·8	152	30	2·1	1·5	241	30	3·5	3·0	241
0·15 a. g.	27	7·7	7·5	155	12	7·1	6·5	177	29	7·1	6·7	169	30	8·0	7·5	164	30	4·5	3·5	243	29	4·2	3·6	235
0·3 a. m. s. l.	27	10·3	10·0	173	12	6·9	6·5	182	29	7·9	7·7	176	30	10·1	9·8	176	30	7·0	5·3	242	29	4·3	3·8	235
0·6 ,,	27	12·2	11·7	181	11	7·6	7·6	190	29	9·6	9·4	183	28	11·7	11·4	183	30	7·6	6·1	251	29	4·6	4·0	235
0·9 ,,	24	11·3	10·6	190	11	8·6	8·4	200	29	9·9	9·6	190	28	10·9	10·4	189	30	8·0	6·3	250	25	5·0	4·3	244
1·5 ,,	19	7·9	7·2	205	6	9·2	8·9	198	26	9·3	8·3	196	24	8·2	7·6	199	30	6·9	5·1	235	18	6·1	4·6	239
2·1 ,,	17	6·6	4·9	219	2	5·5	4·9	193	22	8·1	5·7	207	15	5·2	3·7	225	30	6·2	3·3	218	13	6·5	4·4	256
3·0 ,,	13	7·7	5·1	225					19	8·9	4·7	226	11	7·2	4·7	267	30	7·1	2·5	194	10	5·7	4·0	280
3·6 ,,	8	6·9	3·7	248					11	7·6	4·1	258	1	5·0	5·0	255	30	8·3	2·3	157	9	4·8	3·4	280
4·5 ,,	6	7·3	4·8	209					9	7·1	3.5	246					30	8·1	1·2	132	8	6·1	5·4	264
5·4 ,,	2	7·3	7·1	218					4	8·8	5.0	232					30	7·9	0·7	250	8	9·8	9·6	257
6·0 ,,	2	9·0	9·0	202					3	6·7	6·3	197					30	7·7	1·7	253	8	11·6	11·1	255
7·2 ,,	1	8·5	8·5	190					1	4·0	4·0	250					30	11·1	1·6	220	7	13·4	13·3	246
9·0 ,,	1	8·5	8·5	130													28	13·6	3·5	184	1	16·5	16·5	245

Station	AHMADABAD								ALLAHABAD/BAMHRAULI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·7	2·6	227	29	4·7	3·6	229	30	0·6	0·2	334	30	1·3	0·7	286	30	2·3	1·2	310	30	0·4	0·1	110
0·15 a. g.	30	5·7	4·4	227	28	7·8	4·0	217	30	5·2	1·9	285	30	4·9	2·8	325	30	6·3	3·7	310	30	5·5	1·2	315
0·3 a. m. s. l.	30	6·8	5·0	224	28	9·7	4·9	214	30	5·0	1·9	285	30	5·1	2·8	320	30	6·3	3·7	319	30	5·9	1·3	318
0·6 ,,	30	6·8	5·2	226	28	10·9	7·8	229	30	5·8	2·6	300	30	5·0	2·7	307	30	6·2	3·5	317	30	6·6	1·3	335
0·9 ,,	30	6·7	5·1	226	28	10·3	7·1	236	30	5·9	3·0	292	30	5·4	3·3	310	30	6·2	3·7	316	30	6·5	1·2	334
1·5 ,,	30	6·5	4·9	236	26	6·5	4·2	244	30	5·8	3·5	294	29	6·1	3·4	310	30	6·1	3·6	312	28	6·2	2·3	318
2·1 ,,	30	6·1	3·7	234	24	5·0	2·5	238	30	6·1	4·2	303	27	6·6	4·2	310	30	6·4	4·4	303	25	7·1	3·2	307
3·0 ,,	30	7·3	1·3	219	22	5·7	1·7	244	30	7·4	5·2	297	20	8·0	5·4	314	30	7·3	4·8	300	20	8·2	4·3	298
3·6 ,,	30	7·9	0·8	172	4	7·5	3·1	360	30	8·6	5·8	290	16	9·1	7·3	299	30	7·7	5·2	287	4	8·0	0·5	018
4·5 ,,	30	7·1	0·6	227					30	8·2	4·6	276	14	11·9	10·0	286	30	8·1	4·8	286	2	7·3	3·1	283
5·4 ,,	30	6·7	1·9	240					29	7·7	2.8	255	10	11·4	9·0	278	30	7·5	4·3	286	1	3·0	3·0	135
6·0 ,,	30	8·1	2·7	226					29	8·0	2·8	245	5	11·0	6·5	274	29	7·8	4·3	275				
7·2 ,,	30	10·5	3·2	216					28	8·7	3·3	222	4	10·7	10·6	208	26	9·3	4·7	253				
9·0 ,,	29	11·7	3·6	179					17	9·9	4·5	220	2	8·2	6·3	192	17	7·5	4·9	232				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	AMBALA																ANANTAPUR							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	0·9	088	30	2·9	0·1	068	30	3·4	1·9	305	30	2·7	0.6	325	30	3·9	3 7	266	30	5·6	4·5	277
0·15 a. g.	30	7·4	2·5	051	30	5·2	0·4	026	30	6·1	3·1	308	30	8·1	2·2	344	30	8·1	7·7	260	30	8·7	6·9	271
0·3 a. m. s. l.	30	4·0	1·4	055	30	3·6	0·3	027	30	3·9	2·1	296	30	4·1	1·1	337								
0·6 ,,	30	9·0	1·5	057	30	5·3	0·7	348	30	6·4	4·0	307	30	8·1	2·5	339	30	9·2	9·0	260	30	8·0	6·8	267
0·9 ,,	30	8·3	0·7	005	30	5·5	0·8	318	30	6·4	4·8	307	30	7·6	3·1	318	30	11·5	11·1	268	30	8·4	7·7	268
1·5 ,,	29	5·9	3 0	301	29	5·6	3·1	303	30	6·9	6·0	303	29	5·6	4·3	307	29	11 6	10·6	274	30	8·7	8·0	269
2·1 ,,	26	6·4	5·0	303	29	7·4	5.2	305	29	7·5	6·7	309	28	6·7	5·0	304	29	9·0	7·5	275	26	8·6	7·9	273
3·0 ,,	16	7·7	5·1	304	21	8·7	6·9	314	25	8·8	7·5	315	20	8·1	4·7	304	22	7·2	3·9	275	10	6·8	4·1	286
3·6 ,,	21	7·9	6·1	318	19	8·4	6·0	317	21	8·8	6·5	317	4	9·6	8·8	327	16	4·9	0 2	214	67	4 6	0 9	019
4·5 ,,	13	8 8	5·3	323	14	8·4	4·9	302	16	9·0	5·4	305	1	8·0	8·0	005	14	5·4	0·4	175	4	4·5	2·1	069
5·4 ,,	8	9·4	5·3	275	8	8·0	6·3	270	12	9·4	6·2	294					7	5·1	0·8	504	2	4·7	2·6	093
6·0 ,,	4	7·3	3·1	265	7	9·1	7·9	275	11	8·5	6·5	287					4	4 7	0·5	339				
7·2 ,,					4	13·3	12·6	287	2	19·0	17·5	264					1	4 0	4·0	205				
9·0 ,,																								

Station	ANANTPUR				ASANSOL																AURANGABAD/ CHIKALTHAN			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	6·3	5·5	255	30	1·4	0·9	175	15	2·3	1·0	258	30	2·2	0 5	116	30	2·9	2·7	161	30	3·7	3·3	269
0·15 a. g.	28	11·2	10 2	254	26	5·4	3·3	191	15	4·6	2·7	259	29	5·5	1·1	120	30	7·6	5·8	162	29	7·9	6·7	266
0·3 a. m. s. l.					26	5·6	3·5	197	15	4·9	3·3	260	29	5·6	1·4	136	30	8·8	6·2	164				
0·6 ,,	28	11·3	10·2	255	26	7·1	4·7	232	15	4·9	3·0	262	29	6·4	2·0	149	29	8·9	7·0	175				
0·9 ,,	28	11·3	11 2	256	24	7·4	4 9	259	15	4·7	3 9	288	28	6·0	1·7	186	26	8·2	5·3	199	29	10 2	8·2	282
1·5 ,,	28	11·6	10·7	261	21	6·6	4·8	278	15	5·8	4·8	294	25	4·6	2·3	285	24	5·9	2·7	227	27	11·7	9·1	293
2·1 ,,	23	8·2	7·1	267	20	6·3	5·3	300	9	7·3	6 9	303	24	6·2	3·8	298	23	6·7	4·1	292	22	7·6	4·5	280
3·0 ,,	16	4·3	1·0	282	15	8·6	7·5	301	4	7·9	7·3	291	17	7·2	4·1	299	21	7·7	6·1	292	7	6·6	5·3	215
3·6 ,,	10	5·3	1·9	061	13	10·8	9·4	299					13	9·3	5·4	301	8	9·5	8·3	287	1	3·0	3·0	263
4·5 ,,	4	4·4	0·6	126	5	10·0	9·1	294					6	10 2	5·6	298	2	8·7	8·5	270				
5·4 ,,	1	2·0	2·0	350	2	4·0	2·5	228					2	12·3	11·9	320	1	3·0	3·0	250				
6·0 ,,	1	5·5	5·5	005	1	7·5	7·5	220					1	2·5	2·5	265								
7·2 ,,					1	7·0	7·0	225					1	5·0	5·0	230								
9·0 ,,					1	2·0	2·0	230					1	4·0	4·0	245								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	AURANGABAD/CHIKALTHAN								BAHRAICH												BANGALORE			
Time in I. S. T.	1730				2330				0530				1130				1730				0530@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·8	3·5	275	29	5·2	4·5	265	30	1·3	1·0	084	30	2·5	0·7	262	30	2·5	0·8	250	30	3·6	3·3	263
0·15 a. g.	29	7·1	5·7	271	29	9·2	7·8	266	30	6·8	1·9	074	29	5·8	0·9	261	30	7·0	1·0	241	24	8·3	7·9	262
0·3 a. m. s. l.									30	7·8	2·0	063	29	5·8	1·1	245	30	7·2	0·8	204				
0·6 ,,									30	10·2	0·4	051	28	5.7	0·8	134	30	8·1	2·3	237				
0·9 ,,	29	7 1	5·6	274	29	11·0	9·4	276	30	9·0	0·4	286	28	6·3	0·8	142	30	7·8	2·2	263				
1·5 ,,	28	8·1	5·9	277	29	10·3	8·2	284	30	7·4	2·1	292	20	7·2	0 5	323	27	7·6	0·5	317	24	10·4	8·9	269
2·1 ,,	20	6·5	4·1	282	24	8·6	4·6	287	27	6·5	3·2	307	19	9·4	3·3	307	23	7·2	3·2	297	23	9·6	7·7	274
3·0 ,,	8	6·1	0·2	218	7	5·0	1·5	276	22	6·7	4·6	274	12	9·2	7 7	304	18	7·0	4·9	301	23	7·5	5·0	263
3·6 ,,	2	8·7	8·5	179	1	4·0	4·0	220	16	6·0	4.7	301	10	10·3	9 5	306	13	7·3	4·9	302	21	7·0	4·4	284
4·5 ,,									11	4·7	3·4	295	9	9·3	9·1	296	11	7·0	5·2	304	19	6·6	2·9	281
5·4 ,,									9	4·1	1·9	240	7	8·5	8 0	289	11	6·3	4·5	293	15	5·3	1·6	273
6·0 ,,									6	5·4	3·0	232	7	8·2	4·5	276	10	6 1	4·0	262	11	4·8	0 2	307
7·2 ,,									5	5·8	2·5	279	3	12·0	11·7	247	7	8·2	6·4	278	9	5 0	2.1	112
9·0 ,,													3	14·8	14·5	243	1	6·0	6·0	025	6	5·2	4·4	088

Station	BANGALORE												BAREILLY								BEGAMPET			
Time in I. S. T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·9	4·5	267	30	4·3	3·7	252	30	3·6	3·3	259	30	1·7	0·3	027	30	1·8	0·7	287	30	3·5	3·2	265
0·15 a. g.	30	7·3	6·9	262	30	7·9	7·1	260	28	7·9	7·4	253	30	7·2	1·6	173	30	4·8	2·0	290	24	7·5	6·1	265
0·3 a. m. s. l.													30	6·8	1·6	011	30	4·7	2·0	294				
0·6 ,,													29	8·6	2·4	056	30	5·7	2·5	277	24	5·6	4·6	263
0·9 ,,													28	9·4	3·4	303	30	6·1	3·1	284	24	10·5	8·9	273
1·5 ,,	30	8·4	7·9	268	30	8·5	7·8	263	28	11·4	10·9	262	27	7·1	3·7	293	29	6·6	4·2	286	24	10·4	8·9	277
2·1 ,,	23	9·1	8·1	269	30	9·9	8·7	268	27	10·6	9·8	273	26	6·4	5·1	300	25	7·8	6·1	302	23	6·5	3·7	281
3·0 ,,	12	4·8	1·9	228	25	9 0	7·0	269	22	6.5	4·9	277	16	8·7	6·8	309	21	8·3	7·2	311	23	5.4	0·5	311
3·6 ,,	11	4·8	0·3	025	23	7·4	5·1	270	17	5·4	3·6	273	10	9·3	5·3	306	19	8·0	7·0	308	16	5·6	1·2	139
4·5 ,,	9	6·3	1·0	133	20	6·5	3·4	265	11	4·5	0·2	265	5	7·5	3·1	317	15	7·0	5·6	313	12	4·7	2·1	117
5·4 ,,	5	5·0	2·8	218	13	6·2	2·6	251	1	3·0	3·0	300	5	7·3	5·3	235	14	6·0	3·8	318	9	4·8	2·2	145
6·0 ,,	2	3·0	2·9	227	10	4·7	1·9	225					4	7·3	5·6	220	13	7·1	4·7	306	9	4·6	2·1	153
7·2 ,,					9	4·6	2·1	135					2	4·7	4·7	299	10	9·0	4·5	275	3	5·3	2·9	090
9·0 ,,					6	6·6	4·7	078					2	5·7	5·1	344	7	11·4	4·5	308	1	12·0	12·0	090

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	BEGAMPET								BHAGALPUR												BHOPAL/ BAIRAGARH			
Time in I. S. T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·7	2·1	275	30	4·1	3·4	253	30	1·9	1·7	089	15	1·9	0·3	024	30	3·1	1·3	073	30	4·7	4·4	268
0·15 a. g. .	29	6·5	3·9	265	26	9 3	7·6	247	29	5·5	4·3	100	15	4·6	0·5	035	30	7·7	3·0	075	30	10·7	10·2	276
0·3 a. m. s. l.									29	6·4	4·1	119	15	4·9	0·5	046	30	7·8	3·5	080				
0·6 „ .	29	6·1	3·6	275	26	6·7	5·4	245	28	7·2	2·7	175	15	4·1	0·6	291	30	7·8	3·0	089	30	9·3	8·8	273
0·9 „ .	29	7·7	5·5	275	26	11·1	9·1	254	27	7 9	2·1	235	14	4 9	2·3	273	30	6 8	1·3	108	30	12·5	11·8	291
1·5 „ .	29	8 9	7·1	277	26	10·3	8·0	264	21	8·3	3·2	287	14	8·1	6·6	280	24	7·6	1·8	248	27	12·8	11·5	297
2·1 „ .	27	9·3	7·3	282	22	6·9	5·0	291	20	8·9	4·1	299	11	9·3	8·9	287	22	8·1	2·0	262	27	8·5	5·6	311
3·0 „ .	20	9·8	6·8	290	18	5·4	3·2	351	14	8·9	5·6	304	6	9·2	8·3	292	16	8·5	3·7	072	24	7·7	1·1	301
3·6 „ .	15	5·0	1 9	292	8	5·2	1·9	033	11	9·2	5·5	300					10	9·3	3·8	301	18	8·4	0·7	105
4·5 „ .	12	5·7	2·3	126	2	9·5	4·7	094	7	5·5	0·4	2:8					8	9.0	6·1	302	4	10·6	8·1	214
5·4 „ .	9	6·6	3·2	125	1	10·0	10·0	155	7	5·1	2·7	160					7	7·5	3.5	305	1	11·5	11·5	250
6·0 „ .	5	5·4	2·7	153					4	3·9	2·8	167					6	6·3	4·1	293				
7·2 „ .	3	8·0	1.4	033					2	5·0	4·7	186					4	5·1	4·1	316				
9·0 „ .	1	8·0	8·0	085					2	1·0	1·0	194												

Station	BHOPAL/BAIRAGARH								BHUBANESHWAR															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	4·5	2·1	260	30	4·2	3·5	255	30	2·9	2·5	215	15	4·2	3·6	216	30	4·4	3·3	209	30	4·5	4·0	213
0·15 a. g. .	28	7·5	5·1	264	26	10·6	8·9	269	26	5·9	5·0	224	15	5·2	4·7	213	27	7·4	6·0	207	29	8·1	7·7	212
0·3 a. m. s. l.									26	6·8	6·0	239	15	5·2	4·7	216	27	6·7	5·5	220	29	9·2	8·8	215
0·6 „ .	28	6·7	4·6	264	26	9·3	7·8	266	26	8·4	7·1	251	15	5·6	4·3	243	27	5·9	5·0	231	29	10·3	9·5	221
0·9 „ .	28	7·4	5·1	269	26	11·2	9·7	276	26	8·4	6·8	267	15	7·3	5·3	270	26	5·1	4·2	254	26	8·4	7·6	230
1·5 „ .	28	6·9	5·0	280	25	10·1	8·4	288	23	7·9	6·9	283	12	8·4	7·0	307	26	5·5	4·1	300	22	5·8	4·4	268
2·1 „ .	26	6·6	4·0	292	24	6·6	4·1	301	20	7·1	5·7	291	10	8·1	6·9	321	24	6·1	4·8	308	18	5·6	2·9	290
3·0 „ .	22	7·7	4·5	287	21	6·2	0·9	251	17	5·6	3·8	342	4	6·9	5·2	311	21	6·1	3·6	307	10	6·6	3·0	355
3·6 „ .	15	8·2	4·3	283	6	6·3	1·7	145	13	5·2	3·9	355					17	6.0	2·6	346	4	7·0	6·4	356
4·5 „	6	7·9	4·8	231					8	4·1	3·2	025					14	5.5	2·6	334				
5·4 „ .	5	9·1	5·2	214					5	3·7	1·5	014					10	5·4	1·0	347				
6·0 „ .	5	10·5	6·2	232					3	5·1	2·8	132					6	4·9	1·9	153				
7·2 „ .	1	21·5	21·5	255					2	6·5	4·5	124					3	4·3	3·5	143				
9 0 „ .									1	8·0	8·0	195					1	10·0	10·0	120				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

June, 1964 (Jyaistha 11— Asadha 9, 1886 Saka)

Station	BHUJ/RUDRAMATA												BIKANER											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·4	2·4	245	30	6·4	5·0	234	30	5·3	4·0	233	30	2·2	1·6	241	30	2·0	1·1	257	30	1·8	1·4	233
0·15 a. g. .	28	7·7	6·3	245	27	8·8	8·0	240	29	10·1	8·0	235	28	9·4	7·3	253	29	5·4	3·9	256	28	9·4	6·7	232
0.3 a. m. s. l.	28	8·6	6·9	251	27	9·1	8·3	240	29	10·2	8·0	237	28	7·1	5·6	251	29	4·5	3·3	254	28	7·0	5·0	231
0·6 ,, .	28	9·3	7·2	255	27	7·7	7·0	246	29	10·2	8·3	240	28	11·3	9·2	256	29	6·0	4·6	252	28	9·6	7·1	238
0·9 ,, .	28	9·2	7·0	257	27	7·2	6·5	250	28	9·2	7·7	240	28	10·4	8·7	249	29	6·2	4·8	251	28	8·7	6·2	245
1·5 ,, .	25	8·3	4.7	299	24	5·4	3·4	254	27	7·2	3·9	227	24	7·6	6·6	250	28	6·4	5·2	261	27	6·5	5·2	249
2·1 ,, .	20	6·9	1·9	164	21	5·2	1·6	266	24	6·3	1·2	160	22	6·5	4·1	252	25	7·4	5·9	265	25	5·3	3·5	265
3·0 ,, .	16	7·9	2·5	079	19	7·4	2·3	009	22	6·8	2·6	067	20	5·5	1·6	279	21	6·0	3·6	278	22	5·7	2·1	317
3·6 ,, .	7	8·8	1·4	060	17	6·4	3·0	046	11	7·0	3·5	052	17	6·6	2·4	349	18	5·6	1·8	310	5	7·3	0·7	222
4·5 ,, .	4	7·5	4·0	008	15	6·3	1·8	333	5	8·8	6·9	039	16	9·6	6·0	356	17	7·1	3·7	002				
5·4 ,, .	1	10·0	10·0	060	14	6·8	3·0	290	3	6·0	4·3	023	14	9·1	5·8	345	15	7·3	3·5	331				
6·0 ,, .	1	6·5	6·5	070	14	8·3	3·4	297	3	5·0	3·3	355	13	7·3	5·7	350	14	9·2	5·7	336				
7·2 ,, .	1	4·0	4·0	085	10	11·1	5.1	273					11	6·8	4·0	343	9	7·5	5·8	330				
9·0 ,, .					5	11·7	1·5	336					2	3·0	2·1	338	2	23·3	22·0	250				

Station	BOMBAY/SANTACRUZ																CALCUTTA/DUM DUM							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·3	1·5	216	30	4·3	2·6	245	30	4·9	3·5	243	30	3·5	2·2	218	30	2·0	1·8	182	30	2·6	2·3	174
0·15 a. g. .	30	7·0	3·6	220	26	6·2	4·2	244	30	7·7	5·6	236	28	6·7	4·6	217	30	7·0	6·5	192	29	5·7	4·9	187
0·3 a. m. s. l.	30	6·8	4·0	224	26	6·9	4·9	242	30	7·7	5·8	236	28	7·3	5·4	221	30	8·3	7·6	201	29	6·3	5·4	191
0·6 ,, .	30	6·8	4·5	233	25	7·0	4·8	251	30	7·7	5·8	238	27	7·9	6·0	232	30	9·8	8·7	210	29	6·8	5·7	200
0·9 ,, .	30	7·6	5·0	239	20	6·7	3·2	255	30	8·1	6·0	239	24	7·7	5·6	242	30	9·3	8·0	218	25	6·9	5·8	218
1·5 ,, .	30	8·1	5·2	229	14	7·4	1·1	257	30	8·3	6·1	234	17	7·8	4·2	229	30	7·3	5·5	236	20	6·8	3·9	271
2·1 ,, .	30	8·1	5·8	232	11	6·9	3·3	302	30	8·8	6·1	234	13	7·0	4·0	209	30	6·5	4·4	245	17	6·9	4·7	288
3·0 ,, .	30	8·1	4·2	220	6	6·9	5·9	243	30	8·6	5·4	229	7	5·9	1·5	216	30	7·6	4·0	265	10	7·3	4·6	291
3·6 ,, .	30	8·2	4·5	213	6	7·4	6·0	213	30	8·3	5·1	226	4	5·3	2·9	260	30	7·8	4·0	274	5	7.2	2·2	274
4·5 ,, .	30	7·4	4·5	203	4	7·1	6·1	200	30	8·0	4·5	213	3	6·0	2·6	246	30	7·7	3·3	275	3	6·8	4·9	305
5·4 ,, .	30	5·8	2·6	208	2	5·0	2·4	187	30	6·6	3·5	207					30	7·1	2·9	248				
6·0 ,, .	30	5·8	1·6	190	2	5·5	2·7	339	30	6·6	3·2	200					30	6·8	2·2	225				
7·2 ,, .	30	6·7	1·6	140	1	5·5	5·5	080	30	5·9	2·2	178					30	5·8	2·2	190				
9·0 ,, .	25	7·8	4·6	129	1	9·0	9·0	085	25	7·9	4·5	103					30	6·1	3·4	136				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

June, 1964 (Jyasitha 11—Asadha 9, 1886 Saka)

Station	CALCUTTA/DUMDUM								COCHIN/WILLINGDON†												DEHRADUN			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·5	3·1	173	30	2·3	2·1	170	30	0·7	0·4	099	30	2·2	1·6	287	30	0·9	0·0	331	30	0·3	0·3	017
0·15 a. g.	30	7·8	7·1	173	30	7·3	6·7	179	26	3·3	1·1	138	27	4·2	3·5	286	24	2·8	0·6	268	29	1·7	0·6	060
0·3 a. m. s. l.	30	7·9	7·1	175	30	9·0	8·5	191	26	4·0	2·0	268	27	5·5	4·9	286	24	3·9	2·3	277				
0·6 ,,	30	7·9	7·0	179	30	9·6	8·8	199	26	7·3	6·4	280	27	8·5	7·9	289	24	6·9	6·1	290				
0·9 ,,	30	7·1	6·1	182	28	8·2	7·3	204	26	10·0	9·2	283	27	10·4	9·8	291	24	9·9	9·3	291	29	1·6	0·6	068
1·5 ,,	30	5·3	2·8	197	24	5·7	4.4	218	24	12·5	12·2	285	25	12·2	11·6	290	24	13·1	12·6	290	29	2·2	0·9	266
2·1 ,,	30	6·1	1·7	239	14	5·1	2·1	301	22	14·2	13·6	282	22	12·6	11·7	288	22	14·0	13·6	286	26	3·7	2·5	288
3·0 ,,	30	7·9	3·3	259	9	6·2	2·9	295	15	11·7	10·3	272	14	10·9	8·5	276	17	14·4	13·0	279	22	5·1	3·2	303
3·6 ,,	30	8·8	4·1	277	5	4·9	2·0	302	10	8·1	5·5	275	9	8·0	4·2	271	8	11·3	7·9	287	17	5·4	2·6	295
4·5 ,,	30	8·3	2·8	276	1	4·0	4·0	165	6	5·2	1·9	276	7	5·5	1·9	229	1	5·0	5·0	255	7	4·4	3·2	180
5·4 ,,	30	7·4	2·0	247					3	9·2	1·2	035					1	7·5	7·5	285	2	7·0	4·3	268
6·0 ,,	30	7·3	1·9	250					1	3·5	3·5	130									1	8·0	8·0	245
7·2 ,,	30	6·5	0·6	263																	1	23·5	23·5	260
9·0 ,,	30	6·4	1·7	118																				

Station	DEHRADUN				DIBRUGARH/MOHANBARI																GADAG			
Time in I.S.T.	1730				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	1·0	255	30	0·9	0·6	075	30	1·3	1·2	052	30	1·9	1·2	059	30	0·1	0·9	056	30	4·7	4·3	238
0·15 a. g.	30	3·9	2·1	250	16	3·4	2·7	072	24	2·9	2·1	048	30	5·3	3·3	070	23	3·9	2·6	055	29	9·2	8·8	244
0·3 a. m.s. l.					16	3·5	2·6	073	24	3·2	2·0	034	30	5·3	3·5	076	23	4·1	2·6	060				
0·6 ,,					16	3·2	1·5	098	24	2·6	0·4	187	28	4·5	3·1	087	23	4·8	3·1	069				
0·9 ,,	30	3·9	2·1	251	16	3·2	1·1	174	24	3·9	2·9	217	27	3·6	1·1	163	23	4·0	2·6	091	29	10·6	9·7	261
1·5 ,,	30	4·4	3·4	265	15	4·0	2·7	213	18	5·7	4·9	222	25	5·5	4·1	223	23	4·3	2·4	181	26	11·8	8·8	279
2·1 ,,	26	5·7	4·5	276	12	5·4	4·6	210	12	6·3	5·9	227	22	7·6	6·0	220	18	5·6	4·1	217	22	9·2	4·5	288
3·0 ,,	19	6·0	5·5	290	8	6·2	5·4	233	10	7·4	5·5	209	16	9·2	8·1	214	10	6·0	5·8	237	18	6·8	2·4	259
3·6 ,,	14	4·2	2·8	298	1	1·5	1·5	280	5	4·4	4·1	247	9	7·8	7·4	217	3	3·3	3·1	220	15	5·8	0·8	353
4·5 ,,	8	4·3	1·2	335	1	1·0	1·0	305	2	4·8	3·1	265	3	16·3	16·1	245	1	6·0	6·0	210	9	4·3	0·7	162
5·4 ,,	3	7·2	7·1	270					1	6·0	6·0	250	1	9·5	9·5	250					6	4·0	2·8	235
6·0 ,,	3	8·8	8·3	261																	6	3·4	1·8	232
7·2 ,,	2	13·0	12·9	250																	4	3·6	3·5	167
9·2 ,,	1	36·0	36·0	240																	1	9·0	9·0	105

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

June, 1964 (Jyaistha 11 —Asadha 9, 1886 Saka)

Station	GADAG								GANGTOK								GAUHATI							
Time in I.S.T.	1730				2330				0530				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	6·0	5·0	243	30	6·3	5·8	235	30	0·4	0·3	012	30	0·6	0·4	173	30	0·4	0·1	094	30	1·9	1·0	027
0·15 a. g.	28	9·5	8·4	247	27	11·0	10·7	245	9	1·8	1·3	349	11	1·9	1·3	168	30	2·4	0·9	053	29	3·3	2·2	028
0·3 a. m. s. l.																	30	2·5	0·9	040	29	3·1	1·9	036
0·6 ,,																	30	2·8	1·0	023	29	2·8	1·4	048
0·9 ,,	28	9·9	9·0	252	27	12·1	11·7	253									30	3·0	0·6	254	28	3·0	0·4	236
1·5 ,,	26	10·9	9·1	259	22	13·2	11·2	267									30	6·2	4·4	228	22	6·4	5·1	228
2·1 ,,	25	10·0	7·5	268	20	9·1	5·8	278	9	1·6	0·4	304	11	1·9	1·3	181	30	8·1	6·7	240	18	8·7	6·6	246
3·0 ,,	17	8·0	3·9	301	15	5·9	0·5	032	7	2·1	0·7	191	6	2·9	0·9	296	30	7·7	6·3	261	16	10·0	7·2	261
3·6 ,,	12	6·7	1·9	307	11	6·6	2·1	087	7	2·4	1·3	277	4	5·3	4·0	330	30	7·5	6·1	253	11	12·9	10·8	260
4·5 ,,	8	5·6	1·0	283	5	9.0	6.9	063	6	2·9	2·6	243	1	4·0	4·0	270	30	6·2	4·7	253	8	10·7	8·5	259
5·4 ,,	5	6·6	1·9	291	2	7·3	5.7	091	4	4·6	3·8	246	1	5.0	5.0	245	30	6·9	5·2	238	3	7·2	6·3	236
6.0 ,,	2	4·3	3·7	189					3	7·0	6·7	222	1	6.5	6.5	255	30	7·0	5·3	236	2	3·5	3·1	248
7·2 ,,									1	2·5	2·5	140					29	6·2	3·7	250	1	3·5	3·5	030
9·0 ,,									1	4·0	4·0	240					24	4·7	2·4	255				

Station	GAUHATI								GAYA															
Time in I.S.T.	1730*				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·3	034	30	1·1	0·6	060	30	1·5	0·5	167	15	4·2	3·5	275	30	3·3	1·3	350	30	1·9	0·7	110
0·15 a. g.	30	2·7	0·5	342	30	2·5	0·6	046	29	4·9	1·2	170	15	6·7	5·7	292	27	6·5	3·4	350	30	6·2	1·2	050
0·3 a. m. s.l.	30	2.5	0.4	332	30	2·6	0·8	030	29	5·5	1.4	188	15	6·3	5·1	295	27	6·6	3.4	353	30	6.5	1.1	049
0·6 ,,	30	2.3	0.4	297	30	3·2	0·8	355	29	5.8	1·6	260	15	4.7	4·0	298	27	6·4	2·6	354	29	6.8	0.6	023
0·9 ,,	30	3·4	1·5	249	30	4·0	1·3	251	28	6·2	2·6	294	15	5·7	5·1	295	26	6·4	2·3	348	27	6·4	1·0	345
1·5 ,,	30	5·8	4·9	242	24	7·0	5·8	232	28	6·6	3·7	317	15	6·8	6·3	300	26	6·8	2·7	319	25	7·1	3·1	315
2.1 ,,	30	6·9	5·7	256	22	8·5	7·5	246	26	8·5	5·7	317	13	9·3	9·0	295	23	7·7	4·7	300	17	7·0	4·6	300
3·0 ,,	30	7·9	6·0	254	14	8·5	6·4	252	17	9·6	6·9	308	6	12·4	10·8	303	13	8·1	3·6	309	11	8·4	4·2	310
3·6 ,,	30	7·3	5·7	258	6	6·3	5·7	230	9	8·7	5·1	318					10	7·7	5·1	303	1	13·0	13.0	275
4·5 ,,	30	7·5	4·9	243	2	8·5	1·5	136	5	8·1	6·5	295					6	8.2	3.5	332				
5·4 ,,	30	6.9	4.0	252	1	7·5	7·5	115	4	9.3	5.5	305					4	6·5	4·1	292				
6·0 ,,	28	7.5	5.3	259	1	7·5	7·5	090	2	6.0	3.9	047					3	10·3	5·2	270				
7.2 ,,	27	6.8	4.8	278	1	10·0	10·0	045									1	6·0	6·0	265				
9·0 ,,	24	6.7	5.1	268																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level.

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	25	5·4	5·0	213	30	6·9	6·8	205	30	5·8	5·7	213	30	1·5	0·7	085	30	1·6	0·4	285	30	1·2	0·9	263
0·15 a. g.	30	8·6	6·9	217	27	9·8	9·7	204	28	10·7	10·4	218	28	6·7	3·6	075	30	5·6	1·0	275	30	5·8	3·9	283
0·3 a. m. s. l.	30	8·1	6·6	235	27	9·1	8·2	211	28	9·9	9·5	224	28	8·2	3·6	070	30	6·7	1·1	250	30	4·7	3·2	278
0·6 „	30	7·4	5·9	246	27	6·6	5·2	225	28	8·1	7·4	230	28	8.0	2·5	145	30	7·6	1·7	275	30	7·0	4·9	297
0·9 „	30	7·3	6·3	265	27	4·8	3·9	262	28	6·5	5·7	243	27	8·2	1·9	340	30	7·9	2·1	275	30	7·2	6·3	293
1·5 „	30	8·3	7·2	285	27	5·8	4·4	272	27	5·6	4.0	268	24	9·4	3·9	310	30	7·8	2·9	280	28	7·2	6·1	296
2·1 „	27	6·8	5·8	281	25	5·7	4·0	311	22	5·8	3·6	302	14	8·4	4·5	305	28	8·0	3·0	290	26	7·7	5·0	312
3·0 „	21	5·8	3·4	287	24	5·9	2·9	316	13	5·3	3·2	007	9	6·9	3·6	345	21	7·7	1·5	335	24	9·1	4·8	328
3·6 „	13	5·1	3·4	358	23	5·7	2·5	348	2	6·0	5·8	040	7	6·0	5·0	335	13	7.0	2·3	350	22	8·6	4·7	332
4·5 „	8	5·6	4·6	040	19	5·6	2·6	026					4	2.1	1.1	325	12	6·2	2·4	355	14	6·5	3·4	313
5·4 „	7	4·4	3·4	068	16	5·0	1·6	011					1	1.5	1.5	080	6	3·7	3·1	295	10	5·3	3·5	273
6·0 „	5	3·9	2·5	131	15	3·8	0·5	032					1	1.0	1.0	090	5	4.3	4·2	305	10	6·6	3·2	265
7·2 „	2	6·5	3·3	354	13	4·2	1·8	084									2	7.7	5·9	275	8	10·1	2·9	252
9·0 „	1	6·0	6·0	135	9	5·9	5·2	101													7	7·2	2·1	352

Station	GWALIOR												IMPHAL/TULIHAL											
Time in I.S.T.	1130				1730				2330				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·8	2·3	289	30	3·1	1·7	287	30	2·1	1·0	260	30	0·6	0·4	156	30	1·3	0·3	255	30	2·1	0·6	238
0·15 a.g.	30	4·8	3·8	306	30	6·4	2·7	318	30	5·8	2·0	273	28	2·0	0·9	177	27	2·1	0·8	284	30	2·9	1·3	222
0·3 a. m. s. l.	30	4.7	3.8	308	30	6.0	2.5	321	30	5.1	1.8	265												
0·6 „	30	5.2	4.3	308	30	6.7	3.4	312	30	6·9	2·3	284												
0·9 „	30	5·4	4·9	309	30	6·6	3·5	319	30	6·4	2·4	284	28	1·9	0·7	156	27	2·2	0·7	279	30	3·2	1·3	226
1·5 „	27	6·9	5·6	319	29	6·4	4·1	317	29	6·0	3·4	296	28	3·7	2·7	234	27	3·2	2·3	230	30	4·7	2·9	219
2·1 „	24	7·9	5·7	326	23	6·8	4·4	314	29	6·7	4·2	303	23	7·3	6·5	249	24	5·8	4·6	241	29	6·5	4·4	243
3·0 „	16	8·3	4·6	319	19	8·7	4·7	317	20	7·5	4·8	310	12	7·5	6·5	269	17	7·1	5·9	245	20	7·7	6·5	261
3·6 „	12	7·7	3·4	311	17	8·2	5·0	312	6	9·1	4·8	323	5	8·7	7·6	276	10	6·4	5·5	246	12	6·5	5·0	259
4·5 „	11	7·0	4·3	305	9	8·7	4·6	284					2	9·5	9·3	289	4	7.7	4·5	258	6	8·2	7·7	279
5.4 „	11	7·5	6·8	253	8	10·6	5·1	261					1	8·0	8·0	241	1	7·0	7·0	150	1	2·5	2·5	180
6·0 „	10	6·7	5·8	237	5	12·1	11·0	238					1	10·0	10·0	245								
7·2 „	6	7·0	3·9	250	4	12.3	11.6	253																
9·0 „	3	4.8	2.2	228	2	13.5	13.3	250																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	IMPHAL/TULIHAL				JABALPUR												JAGDALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0·1	233	30	1·4	1·2	252	30	1·7	1·3	275	30	1·4	1·0	252	30	0·7	0·6	217	30	1·6	0·8	230
0·15 a. g.	25	2·3	0·4	210	29	7·0	6·2	262	29	5·8	4·3	279	29	7·3	5·2	270	26	5·9	5·4	235	29	5·6	4·0	257
0·3 a. m. s. l.																								
0·6 ,,					29	7·9	6·9	273	29	6·4	4·9	282	29	7·9	5·7	271	26	2·9	2·7	231	29	4·0	2·7	257
0·9 ,,	25	2·3	0·4	218	28	10·0	8·5	292	29	6·8	5·5	291	29	8·7	6·4	280	26	7·9	7·5	247	29	5·8	4·6	260
1·5 ,,	24	3·7	2·5	229	25	9·9	8·4	314	28	7·2	5·4	311	28	8·5	5.9	297	21	8·4	7·7	268	27	5·7	4·8	277
2·1 ,,	21	5·7	5·1	248	25	7·8	6·0	327	27	7·4	5·4	327	24	7·2	4·9	326	21	7·3	5·6	294	23	5·5	3·7	296
3·0 ,,	12	7·6	6·5	275	20	6·6	3·4	333	21	8·3	6·3	326	21	7·7	5·0	351	14	5·6	3·5	001	15	5.0	2·4	355
3·6 ,,	8	8·6	7·1	273	18	6·2	2·3	305	19	7·3	3·7	324	10	6·8	3·7	001	11	4·8	2·4	034	13	5·3	3·5	358
4·5 ,,					11	8·4	5.5	265	11	7·1	5 3	269					11	6·1	3·9	085	8	5.6	3.8	027
5·4 ,,					4	8·4	7.5	246	6	9·7	5·8	265					8	5.4	3·1	083	6	5·9	2·8	347
6·0 ,,					3	5.2	5.0	214	4	9·2	8·4	242					4	4.5	3.8	092				
7·2 ,,					1	12.0	12.0	204	2	8·5	5·7	187					1	8·0	8·0	090				
9·0 ,,									1	11·0	11·0	535					1	8·0	8·0	141				

Station	JAGDALPUR				JAIPUR/SANGANER												JAMSHEDPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	0·8	202	30	1·3	1·1	291	30	2·5	1·8	295	30	1·3	0·6	263	30	0·9	0·3	225	15	1·7	1·1	231
0·15 a. g.	25	7·1	6·0	208	29	7·2	6·1	289	29	5·6	4·2	291	30	7.2	4·0	275	26	3·4	2·4	221	15	3·0	2·4	251
0·3 a. m. s. l.																	26	3·5	2·8	226	15	3·1	2·5	251
0·6 ,,	25	5·3	3·8	200	29	8·4	7·2	292	29	5.8	4·1	290	30	7·6	4·6	275	26	6·3	5·6	244	15	4·1	3·5	269
0·9 ,,	25	7·3	6·2	226	29	10·9	9·5	297	29	6·7	4·8	294	30	8·1	5·8	283	24	8·5	7·2	259	14	4·8	4·3	284
1·5 ,,	24	6·5	5·5	268	29	9·1	7·7	296	28	6·8	4·8	290	30	7·5	5·4	281	22	7·6	5·8	276	14	5·1	4·6	299
2·1 ,,	20	4·9	3·6	308	29	6·4	3·8	312	26	6·3	4·5	290	29	7·3	4·8	283	20	5·7	4·4	300	11	4·6	4·1	313
3·0 ,,	14	3·9	2·5	336	23	5·9	1·9	339	23	7·6	5·0	305	23	7·5	3·4	310	17	6·4	4·9	304	3	4·8	4·6	304
3·6 ,,	4	4·1	3·3	321	17	5·6	3·1	004	20	7·3	4·2	295	12	7·8	3·0	306	14	7·6	6·6	314				
4·5 ,,	1	6·5	6·5	329	14	8·3	2·9	335	16	6·3	3·1	286	4	6·9	3·9	278	1	14·0	14·0	275				
5·4 ,,	1	3·5	3·5	225	10	6·1	2.3	307	13	7.3	5·6	262												
6·0 ,,	1	5·0	5·0	225	6	4·4	3·2	276	12	9·0	6·6	257												
7·2 ,,					5	9·5	4·1	291	6	6·7	4·2	284												
9·0 ,,					4	7·2	5·4	320	3	11·8	9·9	254												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I. S. T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1·9	0·4	150	30	1·6	1·1	210	30	3·1	2·0	238	30	2·9	2·0	205	30	4·3	3·4	240	30	3·3	2·9	227
0·15 a. g. .	23	3·8	0·9	239	25	3·9	2·3	212	28	5·1	3·3	233	27	6·1	4·4	203	28	6·8	5·3	247	30	7·4	6·6	233
0·3 a. m. s. l. .	23	3·8	1·1	235	25	3·1	1·8	209	28	4·9	3·2	230	27	4·9	3·7	202	28	7·0	5·3	249	30	7.0	6·2	232
0·6 ,, .	22	5·0	1·9	205	25	5·9	4·8	268	28	5·3	3·6	245	27	6·9	5·1	219	28	7·7	6·1	243	30	7·6	6·8	235
0·9 ,, .	22	5·0	2·1	216	24	7·5	6·3	274	28	4·9	4·1	255	26	6·6	5·2	230	28	8·5	6·6	238	30	7·7	6·6	241
1·5 ,, .	21	4·1	1·9	271	23	7·1	6·0	286	26	4·2	3·4	282	24	5·3	3·9	255	28	6·9	4·3	227	29	7·7	5·3	241
2·1 ,, .	20	4·0	1·9	317	21	6·3	5·0	309	24	4·5	3·2	305	22	5·1	3·6	289	28	5·4	2·1	192	28	6·4	3·7	214
3·0 ,, .	9	5·5	2·4	320	19	5·9	4·3	328	19	5·3	4·3	318	18	6·3	4·4	331	28	6·2	0·9	118	24	5·1	0·8	195
3·6 ,, .	6	7·8	6·4	309	11	7·2	4·5	335	16	5·7	4·8	328					26	7·4	1·7	141	24	5·5	1·7	052
4·5 ,, .	3	11·5	11·5	303	8	6·3	4·5	329	13	6·5	5·5	324					26	9·6	0·7	065	22	5·6	1·7	051
5.4 ,, .	2	9·3	9·2	302	2	5·5	4·6	332	7	6·1	3·9	328					26	8·2	1·1	315	20	6·3	1·9	307
6·0 ,, .	1	2·0	2·0	250	2	2·3	1·7	145	6	7·7	4·0	308					25	8·6	2·1	283	19	7·2	4·1	272
7·2 ,, .									3	5·5	5·0	289					21	11·6	3·0	290	16	8·4	5·5	265
9·0 ,, .																	17	12·9	3·2	310	10	17·1	12·2	241

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	4·1	3·2	248	30	3·3	2.5	241	30	1·5	0·4	063	30	4·5	1·2	303	30	1·6	0·2	053	30	5·0	4·4	260
0·15 a. g. .	29	5·9	3·9	260	28	10·7	9·1	234	30	7·0	1·6	348	30	5·3	1·0	304	30	8·5	1·1	314	30	6·9	6·2	261
0·3 a. m.s. l. .	29	5·9	4·0	258	28	8·6	7·2	234	30	7·4	1·5	352	30	5·5	1·2	307	30	8·8	1·1	314	30	7·8	7·2	265
0·6 ,, .	29	6·3	4·7	248	28	11·2	9·7	235	29	7·9	1·3	329	30	5·7	1·6	304	30	9·0	1·0	273	30	9·3	8·6	273
0·9 ,, .	29	6·1	4·8	242	27	10·3	9·1	237	29	7·3	2·4	304	30	5.7	2·1	300	30	8·0	1·0	273	30	9·2	8·5	279
1·5 ,, .	28	5·8	4·9	238	26	8·8	7·5	234	27	6·1	3·8	301	28	6·1	3·4	306	28	6·6	2·3	298	30	8·7	8·1	280
2·1 ,, .	28	5·0	3·3	238	25	6·8	4·8	236	24	7·1	5·1	310	24	6·9	4·6	308	23	5·7	1·9	305	30	7·7	6·1	280
3·0 ,, .	28	5·9	1·8	238	20	6·2	1·6	213	12	8·0	4·3	333	19	7·2	4·5	305	19	6·3	4·4	312	30	6·8	4·3	294
3·6 ,, .	27	6·9	0·9	304	7	8·5	2·5	346	11	7·9	4·2	337	17	7·3	5·2	310	5	7·8	7·2	326	30	6·9	4·4	287
4·5 ,, .	27	7·4	1·0	283	3	6·3	4·2	107	4	4·4	3·2	308	13	6·9	5·6	307					30	6·8	3·6	273
5·4 ,, .	27	8·7	3·2	298					2	10·2	7·2	306	9	4·9	2·5	301					30	5·5	2·6	270
6·0 ,, .	27	8·6	2·4	267					1	2·0	2·0	151	7	6·6	3·6	316					30	5·1	2·4	251
7·2 ,, .	27	10·9	4·1	266					1	5·5	5·5	070	5	7·1	5·0	303					30	4·6	1·5	197
9·0 ,, .	21	11·1	5·0	235									2	3·3	2·7	06					30	6·6	5·3	096

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June, 1964 (Jyaistha 11— Asadha 9, 1886 Saka)

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	5·2	4·4	266	30	5·1	2·9	190	30	4·3	3·1	207	30	1·2	0·4	164	30	3·5	2·2	257	30	1·7	0·7	170
0·15 a. g.	30	6·5	5·8	275	30	6·4	2·7	187	29	7·1	5·7	213	26	5·3	1·8	212	28	6·7	4·8	248	28	6.1	3·1	229
0·3 a. m. s. l.	30	6·7	5·9	269	30	6·2	2·8	209	29	8·3	6·8	223	26	5·6	2·4	235	28	6·9	4·9	250	28	6·6	3·7	237
0·6 ,,	30	8·0	7·5	269	30	5·8	4·2	237	29	9·8	8·2	234	25	8·0	5·0	266	28	7·4	5·9	261	28	8·2	6·2	251
0·9 ,,	30	8·5	8·0	268	30	6·4	5·3	260	29	9·2	8·1	247	25	9·3	6·9	272	23	8·3	7·1	276	27	9·5	8·2	260
1·5 ,,	30	8·3	7·7	271	30	6·8	6·5	271	29	8·2	7·7	260	21	9·2	7·4	281	18	9 8	7·9	276	19	10·8	9·3	265
2·1 ,,	29	8·2	7·0	279	30	8·4	7·9	278	27	7·7	6·8	273	11	8·8	6·2	295	10	8·5	5·1	284	16	11·8	8·4	270
3·0 ,,	28	7·5	5·6	283	30	9·0	7·3	285	26	8·0	5·6	279	10	8·6	4·2	303	4	7·5	0·9	279	9	10·2	7·5	273
3·6 ,,	27	7·7	5·7	281	30	9·2	6·7	289	18	7·8	5·0	280	7	7·3	3·7	314	4	6·9	2·5	262	5	12·1	9·0	293
4·5 ,,	24	7·7	4·9	283	30	8·4	5·7	288	10	6·2	2·6	279	6	5·3	1·4	005	3	7·3	2·7	245				
5·4 ,,	21	7·2	5·4	266	30	6·2	4·4	280	5	4·5	2·8	292	5	5·4	0·7	024	1	6·0	6·0	050				
6·0 ,,	19	5·8	2·9	262	30	5·4	3·2	279	3	5·7	5·0	293	5	4·1	2·3	243	1	2·0	2·0	040				
7·2 ,,	16	5·0	1·8	216	30	5·7	1·6	275	1	2·0	2·0	250	4	4·4	2·1	141	1	2·0	2·0	010				
9·0 ,,	9	7·8	5·7	096	29	6·0	3·6	085					1	3·0	3·0	090								

Station	MINICOY																NAGPUR/SONEGAON							
Time in I. S. T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	4·4	4·0	272	30	4·6	4·2	282	30	6·5	6·1	276	30	4·9	4·4	272	28	3·0	2·1	283	30	4·1	3·1	242
0·15 a. g.	28	6·9	6·5	272	27	7.4	7·0	268	30	9·0	8·5	274	28	7·3	6 6	269	27	7·5	6·2	287	29	6·4	5·1	297
0·3 a. m. s. l.	28	7·3	7·0	270	27	7.9	7·4	269	30	9·4	8·9	277	28	7·7	7·2	271								
0·6 ,,	28	8·6	8·2	269	27	9·3	8·8	273	30	10·1	9·5	280	28	9·1	8·7	274	27	8·1	6·8	291	29	6·3	5·2	293
0·9 ,,	28	9 4	8·9	274	27	10·6	9·9	278	30	10·9	10·4	279	26	10·3	9·9	275	27	9·5	8·1	301	29	6·4	5·3	294
1·5 ,,	27	9·3	8·9	278	24	10·7	10·1	280	30	11·8	10·9	279	25	10·3	9·9	279	27	7·9	6·6	315	25	7·0	5·5	313
2·1 ,,	26	8·6	8·3	274	21	9·7	9·1	281	30	10·6	9·7	276	23	9·2	8·6	280	27	7·2	5·3	316	21	6·2	4·1	317
3·0 ,,	21	8·3	7·1	271	15	8·8	7·1	275	30	9·4	8·2	268	12	9·8	8·0	277	26	6·3	2·1	302	17	5·6	1·9	266
3.6 ,,	15	8·8	7·0	260	12	10·2	7·5	261	30	9·9	8·9	265	2	4·3	2·4	196	24	6·3	1·5	291	16	6·7	2·4	227
4·5 ,,	12	7·3	4·8	265	7	10·1	7·3	237	30	9·6	7·7	252	1	3·5	3·5	170	24	5·6	1·4	283	14	7·0	3·4	222
5·4 ,,	5	6·4	4·1	281	6	6·3	2·9	246	30	8·7	6·5	261					24	5·9	1·6	278	11	6·2	4·4	238
6·0 ,,	4	6·2	3·6	279	2	4·7	4·7	232	30	7·1	4·4	244					23	5·3	1·1	289	11	6·0	4·4	224
7·2 ,,	2	5·8	0·8	360	2	6·5	1·5	267	30	7·5	2·1	246					23	4·9	1·1	180	9	8·1	4·7	209
9·0 ,,	1	2·5	2·5	015	2	10·0	10·0	090	28	9.0	7·6	090					21	5·2	2·7	105	7	4·9	3·4	174

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level.

June, 1964 (Jyaistha 11— Asadha 9, 1886 Saka)

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	26	3·7	2·5	282	30	3·8	2·7	255	30	3·1	1·2	304	30	4·6	3·1	306	30	3·8	2·6	311	30	3·9	1·0	242
0·15 a. g.	26	6·2	4·5	272	27	8·3	6·7	268	30	7·7	2·9	293	30	5·8	4·0	318	30	3·8	3·5	312	30	8·1	2·5	273
0·3 a. m. s. l.									30	5·3	1·8	294	30	5·6	4·1	320	30	4·5	3·0	312	30	6·5	1·5	264
0·6 „	26	6·2	4·7	270	27	9·0	7·5	276	30	7·6	3·8	292	30	6·0	3·6	312	30	5·6	3·3	313	30	9·4	3·9	282
0·9 „	26	6·1	5·0	272	27	9·0	7·9	281	30	7·5	4·7	298	30	6·4	4·1	309	30	5·4	3·5	315	30	9·1	4·3	280
1·5 „	26	6·3	4·9	288	27	7·5	6·2	284	30	7·7	5·8	307	26	6·7	5·5	306	30	5·6	4·7	309	28	8·1	6·1	288
2·1 „	26	5·9	4·3	303	23	5·7	4·0	286	30	8·5	7·0	312	23	7·6	6·7	311	30	6·3	5·2	311	20	8·2	6·1	302
3·0 „	26	6·3	3·6	306	20	4·5	0·6	288	30	7·6	5·5	313	18	10·6	8·8	310	30	7·7	6·1	315	14	9·3	5·7	290
3·6 „	26	5·5	2·9	315	22	5·6	1·6	119	30	7·6	4·8	318	14	11·0	8·1	306	30	7·7	6·1	308	3	9·3	8·5	358
4·5 „	25	5·3	2·9	301	7	6·1	0·9	016	30	7·5	3·8	306	11	10·7	9·0	296	30	7·9	6·2	302				
5·4 „	24	5·8	2·7	316	2	4·0	3·3	017	30	6·9	2·9	288	9	8·6	7·1	294	29	8·3	5·9	290				
6·0 „	24	5·2	2·7	293	1	4·0	4·0	085	30	7·6	2·9	256	9	9·9	7·6	290	29	8·7	6·2	282				
7·2 „	22	5·3	1·0	295					30	10·4	6·6	265	9	10·1	7·7	286	29	11·0	7·7	278				
9·0 „	20	5·0	1·9	145					30	15·3	11·6	265					29	15·0	11·5	266				

Station	POONA												PORT BLAIR											
Time in I. S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·5	0·5	259	30	1·9	1·9	265	30	0·9	0·9	264	30	3·2	3·0	232	30	5·8	5·7	226	30	4·2	4·1	227
0·15 a. g.	29	5·5	4·5	255	28	7·3	6·3	264	29	5·7	5·2	254	30	9·1	8·6	223	29	9·8	8·4	230	29	8·3	8·0	220
0·3 a. m. s. l.													30	11·2	8·8	223	29	10·0	9·9	226	29	8·4	8·1	221
0·6 „	29	2·7	2·3	261	28	4·2	3·6	264	29	3·0	2·9	257	30	11·6	11·0	230	29	11·1	11·0	230	29	10·9	10·4	227
0·9 „	29	7·2	6·0	262	28	8·2	7·4	263	29	7·5	6·8	258	30	11·4	11·0	226	24	10·8	10·5	233	29	11·6	11·2	230
1·5 „	25	9·3	6·9	276	26	9·4	8·3	263	25	9·9	8·0	272	30	10·4	9·7	228	11	11·1	10·3	236	29	10·5	9·5	235
2·1 „	18	6·0	2·2	283	18	6·1	3·9	265	20	6·3	3·5	276	29	9·0	8·4	238	7	10·2	9·1	242	29	9·9	9·0	242
3·0 „	14	4·7	1·5	161	9	3·5	1·8	164	15	5·9	3·0	165	28	9·5	8·4	243	2	10·7	9·0	270	27	8·5	7·2	239
3·6 „	11	5·4	3·5	151	8	4·0	2·6	194	10	5·6	3·1	148	28	8·8	7·3	242	1	8·5	8·5	245	27	7·6	6·0	238
4·5 „	8	5·6	4·3	161	7	5·1	3·3	204	3	3·5	3·0	207	26	6·9	4·9	228					26	7·0	4·3	221
5·4 „	4	5·6	2·1	336	5	2·8	2·0	228	1	1·5	1·5	195	26	6·3	3·8	215					26	7·1	4·0	222
6·0 „	3	5·8	2·4	335	5	4·7	3·9	268					26	5·9	2·7	218					26	6·6	2·9	205
7·2 „	2	4·5	3·5	217	4	4·9	3·0	248					24	5·9	2·1	080					25	5·8	2·3	105
9·0 „					3	6·5	6·5	184					20	8·7	6·6	077					23	9·4	7·0	073

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

June, 1964 (Jyaistha 11— Asadha 9, 1886 Saka)

Station	PORTBLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·2	4·0	230	30	3·2	2·7	238	30	3·5	2·5	292	30	3·7	2·8	213	30	3·1	2·8	092	15	3·3	2·6	109
0·15 a. g.	29	8·1	8.0	231	27	8·7	7·7	234	28	6·7	5·3	249	25	9.6	7·6	232	30	6·5	5·5	094	15	4·9	3 3	118
·3 a. m. s. l.	29	9·3	9·1	229													30	7·7	6·3	101	15	4 8	3 2	118
0·6 ,,	29	11·3	11·1	233	27	10.3	9·6	250	28	7·0	5 7	257	25	10.5	8.3	240	30	8·9	6·5	111	15	4·6	3·3	122
0·9 ,,	26	10·9	10·7	238	27	10·4	9·6	259	27	6·5	5.2	235	25	8·9	7.5	250	27	7·9	4·3	120	13	5·9	2 6	139
1·5 ,,	20	10·0	9·3	243	27	9·5	8·0	289	26	5.7	4.1	290	24	7.0	5.5	265	24	7·3	0·5	217	9	7·1	4·6	265
2·1 ,,	13	6·0	5 0	247	24	7·9	6·4	309	22	6·4	4·8	303	23	6.3	5·0	283	20	7·5	2·5	293	1	10·5	10·5	295
3·0 ,,	12	5·8	4·6	254	20	5·6	4·2	321	16	6·7	4·7	314	19	5·1	3·7	325	9	6·2	4·2	304				
3·6 ,,	5	5·6	3·5	231	17	5·7	3 0	308	15	6·8	4.4	324	12	5·4	3·1	340	5	5·1	2·7	307				
4·5 ,,	3	3·5	2·6	238	13	6.1	3.9	300	13	6·0	3·7	336					4	6·3	4·9	261				
5·4 ,,	1	6·0	6·0	214	10	5.5	2.8	267	9	4·8	2.0	322					2	4.7	4·7	255				
6·0 ,,					5	6.3	4.9	157	6	3·7	2·4	352					2	7·3	6·1	216				
7·2 ,,					3	6.5	3.2	167	3	1·8	0·5	273												
9·0 ,,					2	3.3	2.9	109	1	4·5	4.5	080												

Station	RAXAUL				SILIGURI/BAGHDOGRA																SRINAGAR			
Time in I.S.T.	1730				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·5	1·0	077	30	3·1	2·9	065	15	3·7	3·7	094	30	4·1	3·7	068	30	4·1	3·3	067	17	1·0	0·9	150
0·15 a. g.	29	6·1	1·3	114	20	5·5	5·4	070	11	4·1	4·0	098	29	5·2	4·8	069	23	6·0	5·6	077	17	2·1	1·1	118
0·3 a. m. s.l.	29	6·2	1·5	115	20	5·7	5.5	074	11	4·1	4·1	090	29	6·3	4·9	071	23	6·0	5·6	080				
0·6 ,,	29	6·6	1·5	122	20	6·2	5·9	085	11	4 9	4.9	095	29	4·8	4·6	088	22	6·0	5·8	088				
0·9 ,,	29	6·5	1·3	143	17	6·5	5·9	092	10	5·1	5·1	094	24	4·9	3·9	102	21	6·0	5·9	102				
1·5 ,,	27	7·5	0·9	203	9	4·3	2·9	129	1	2·0	2·0	257	17	6·8	3·2	133	14	6·1	2·5	116				
2·1 ,,	24	8·5	2·0	281	4	4·4	1·7	070	1	4·5	4·5	266	12	8·6	2·0	151	4	8·1	0·4	156	17	1·7	0·6	110
3·0 ,,	12	8·9	6·8	289	1	5·5	5·5	305	1	3·0	3·0	300	5	11·6	2.7	255	1	3·5	3·5	135	17	1.9	1·2	321
3·6 ,,	7	4·7	2·2	311									1	3·0	3·0	110					17	3·0	1·8	308
4·5 ,,	1	2·0	2·0	349									1	4·0	4.0	125					17	5·2	2·6	300
5·4 ,,	1	4·0	4·0	290																	17	6·0	4 0	298
6·0 ,,	1	7·0	7·0	280																	17	6·9	4·5	292
7·2 ,,																					17	11.6	8·3	284
9·0 ,,																					17	22·7	21·0	278

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	SRINAGAR				TIRUCHCHIRAPPALLI												TRIVANDRUM							
Time in I. S. T.	1730*				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	22	1·7	0·5	327	30	5·9	5·8	269	30	6·8	5·9	262	30	6·5	5·9	265	30	0·9	0·8	349	30	3·3	3·0	298
0·15 a. g. .	22	3·2	0·8	332	30	10·3	10·1	273	30	9·2	8·2	267	30	9·7	8·9	271	30	7·0	6·6	317	28	6·5	6·3	292
0·3 a. m. s. l. .					30	11·7	11·5	271	30	9·2	8·2	267	30	10·3	9·5	272	30	7·7	7·3	311	28	6·7	6·5	294
0·6 ,, .					30	14·5	14·2	271	30	9·7	9·2	267	30	13·2	12·4	272	30	9·5	9·0	300	26	8·2	7·9	300
1·9 ,, .					30	14·4	14·2	272	30	9·2	8·8	267	30	13·4	12·5	274	30	10·9	10·6	290	23	9·9	9·5	303
1·5 ,, .					30	11·6	11·3	270	30	9·8	9·5	263	30	9·8	9·0	276	30	11·9	11·7	288	14	12·6	12·4	299
2·1 ,, .	22	3·3	1·0	268	30	9·0	8·5	270	28	9·6	9·0	263	29	8·3	7·6	269	30	11·8	11·5	286	3	10·3	10·7	296
3·0 ,, .	22	3·1	0·4	268	29	7·6	6·2	272	23	9·3	8·3	266	25	7·9	6.0	272	30	10·7	10·1	275	2	8·0	7·9	273
3·6 ,, .	22	3·0	0·2	145	28	7·3	5·5	274	18	8·4	6·7	274	14	7·5	5·9	263	30	9·5	8·5	271	2	8·7	6·6	263
4·5 ,, .	22	4·9	1·2	272	24	5·2	2·9	282	15	6·6	4·8	284	8	5·8	3·7	267	30	6·9	5.4	273	2	4·7	3·5	240
5·4 ,, .	22	8·2	4·2	272	18	5.7	2·7	270	11	6·2	3·6	293	3	7·3	2·5	287	30	5.6	2.8	279	2	5·0	2·9	289
6·0 ,, .	21	8·0	6·0	279	17	4·8	2·0	251	11	7.1	5.1	287	3	8·0	2·0	328	30	4.5	1.9	284				
7·2 ,, .	21	10·9	8·6	276	12	5·2	2·2	106	8	4.7	1.0	258	1	8·0	8·0	115	30	5·3	0·9	051				
9·0 ,, .	20	17·9	15·6	278	9	7·8	6·8	093	4	6·7	4·5	117					30	7·2	5·7	085				

Station	TRIVANDRUM								UDAIPUR												VENGURLA			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·3	2·7	311	30	2·1	1·9	325	30	0·7	0·5	241	30	1·5	1·1	243	30	1·6	0·9	238	30	1·3	0·6	203
0·15 a. g. .	29	7·9	7·8	304	29	6·3	6·1	320	30	4·5	3·3	258	29	5·1	2·9	240	30	5·4	3·8	240	28	5·3	2·5	242
0·3 a. m. s. l. .	29	8·6	8·3	307	29	7·2	6·9	316													28	6·1	3·3	262
0·6 ,, .	29	10·2	10·2	306	29	10·0	9·7	307													27	7·6	4·9	268
0·9 ,, .	29	11·8	11·6	302	28	11·4	11·2	300	30	5·3	4·2	262	29	5.7	4·0	249	30	5·7	4·7	245	16	8·4	6·0	291
1·5 ,, .	29	12·6	12·3	295	25	12·7	12·5	296	28	6·7	4·5	253	28	5·1	3·0	249	30	6·3	4·9	248	6	8.4	8·0	307
2·1 ,, .	29	11·7	11·5	290	16	11·4	10·7	290	24	5·5	2·0	250	25	4·4	2·0	257	26	5·0	2·5	236	2	3·5	2·7	325
3·0 ,, .	30	10·3	9·7	274	8	7·6	6·7	276	24	6·0	0·9	173	22	4·9	0·7	232	22	4·5	1·8	197	1	5.0	5·0	075
3·6 ,, .	30	9·9	9·0	269	4	4·4	2·1	241	23	6·4	0·9	186	21	3·9	0·7	262	15	4·1	0·7	186				
4·5 ,, .	30	7·8	6·1	270	2	2·0	1·9	245	20	6·2	3·2	224	18	4·2	1·8	320	3	3·7	2·7	058				
5·4 ,, .	30	5·3	3·2	275	1	3·5	3·5	145	13	5·2	1·7	225	15	6·9	4·6	290	1	5·5	5·5	058				
6·0 ,, .	30	4·9	2·1	287	1	5·0	5·0	155	13	6·5	3·2	243	14	8·4	5·0	301	1	4·0	4·0	014				
7·2 ,, .	30	5·6	0·8	063	1	4·5	4·5	130	10	9·0	3·4	218	11	10·4	3·5	290								
9·0 ,, .	30	7·7	6 0	088					6	9·3	4·0	241	4	14·7	12·1	258								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Station	VENGURLA								VERAVAL												VIJAYAWADA/ GANNAVARAM			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·8	2·0	253	30	1·3	0·7	231	30	6·3	4·5	241	30	7·1	5·3	247	30	6·6	5·1	241	30	3·3	2·5	262
0.15 a. g. .	29	6·3	4.5	256	26	5·5	3·0	252	27	7·7	5·5	243	26	7·7	6·4	249	29	8·8	6·8	236	24	7·2	5·0	265
0.3 a. m. s. l. .	29	7·9	6·1	259	26	6·8	4·8	257	27	8·2	6·0	247	26	7·8	6·6	251	29	9·2	7 1	243	24	8·1	6·3	265
0.6 ,, .	28	9·4	7·5	265	26	8·8	6·5	261	25	8·0	7·0	261	26	8·2	7·0	260	29	10·0	7·7	247	24	10·7	8·5	264
0.9 ,, .	22	9·2	7·4	282	13	8·7	5·6	268	22	7·7	6·4	257	22	7·4	6·1	265	26	10·2	7·4	247	24	11·5	9·4	274
1.5 ,, .	12	8·5	5·5	304	11	8·0	5·5	268	16	5·5	3·9	240	18	4·2	2·2	270	18	6·9	4·8	234	22	8·0	6·7	281
2.1 ,, .	7	6·5	6·3	360	7	5·4	2·2	292	10	4·7	1·5	224	18	4·3	0·3	135	15	5·5	2·0	144	21	6·7	4·8	296
3.0 ,, .	7	6·1	4·7	023	4	7·0	6·0	100	9	4·4	0·7	189	17	5·2	1·6	106	12	4·1	2·8	120	19	6·4	2.0	321
3.6 ,, .	4	4·5	4·4	060	2	7·5	6·9	086	4	4·1	2·2	214	17	4·9	2·0	080	6	4·3	1·8	150	18	6·7	2.3	320
4.5 ,, .	4	4·0	3·1	102									17	5·4	1·1	117	4	4·0	1·6	223	13	5·9	3.7	053
5.4 ,, .	4	4·5	3·7	089									16	6·1	2·3	244	1	7·5	7·5	300	6	5·1	2.2	160
6.0 ,, .	3	4·0	3·7	050									16	6·8	3·0	263	1	8·5	8·5	280	5	4·9	4·7	095
7.2 ,, .	3	3·8	2·1	147									16	9·1	2·5	293					3	6·8	6·4	107
9.0 ,, .													10	8·5	0·8	247					1	12·5	12·5	075

Station	VIJAYAWADA/GANNAVARAM								VISHAKHAPATNAM															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4.8	2·4	277	30	3·6	2·0	216	30	4·3	4·0	273	30	4·1	3·5	233	30	4·1	3·1	275	30	3·1	2·5	240
0.15 a. g. .	29	6·5	3·5	268	24	7·6	4·9	217	30	6·2	5·5	277	28	5·6	5·1	233	30	5·3	3·9	273	30	5·4	4·7	239
0.3 a. m. s. l. .	29	6·4	3·8	267	24	8·5	5·5	229	30	7·0	6·5	270	28	5·3	5·0	244	30	5·7	3·9	258	30	6·4	5·7	244
0·6 ,, .	29	6·7	4·6	266	24	9·2	6·1	241	30	8·5	7·7	258	28	6·1	5·6	260	30	6·3	4·9	252	30	7·5	6·7	251
0.9 ,, .	29	6·4	5·4	269	24	8·9	5·9	255	30	9·3	8·5	258	26	7·5	7·0	279	30	6·3	5·1	261	29	7·6	7·0	258
1.5 ,, .	29	8·1	7·6	281	24	7·4	5·4	269	30	8·7	7·6	272	22	7·9	7·0	297	30	6·1	4·5	303	26	7·5	6·2	270
2.1 ,, .	26	7·9	6·6	294	24	6·3	4·4	281	30	6·9	5·7	280	21	6·7	4·4	298	30	6·4	4·9	305	19	4·5	2·6	303
3.0 ,, .	24	7·1	3·6	297	20	5·0	2·1	337	30	6·8	3·6	315	19	6·4	1·7	341	30	5·9	3·1	308	14	4·5	1·8	006
3.6 ,, .	20	7·3	2·0	312	17	5·5	2·7	063	30	6·8	3·0	343	16	5·2	3·4	061	30	6·1	3·0	313	10	5·0	3·6	036
4·5 ,, .	15	6·1	1·2	261	14	5·3	2·1	051	30	6·5	1·9	328	15	4·8	2·3	085	30	6·5	3·9	313	5	4·9	3·9	049
5.4 ,, .	12	5·0	0·7	003	10	4·5	2·8	074	30	5·1	1·6	023	10	3·8	1·2	110	30	6·2	3·3	294	5	4·9	3·6	067
6.0 ,, .	11	4·1	1·3	059	4	5·5	2·9	089	30	4·8	1·4	034	9	3·8	1·5	118	29	6·3	2·0	305	2	6·7	6·7	075
7.2 ,, .	7	4·4	3·8	086	3	4·7	4·5	089	30	4·7	2·3	070	5	4·5	4·1	100	27	4·6	1·2	022				
9.0 ,, .	5	6·4	5·3	100					28	6·9	5·7	265	3	7·2	6·4	112	27	6·2	4·0	088				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA 0530 hr.			
10·5	1	9·0	9·0	115
12·0	1	9·5	9·5	100
	AHMADABAD 0530 hr.*			
10·5	28	14·3	3·0	187
12·0	26	12·6	3·2	155
14·1	21	13·5	3·7	090
16·2	13	17·9	10·7	099
18·0	6	16·1	7·6	080
21·0	1	20·0	20·0	080
	1730 hr.*			
10·5	24	10·8	3·1	184
12·0	24	12·1	3·8	177
14·1	16	15·9	8·9	145
16·2	11	20·1	10·5	079
18·0	8	23·3	18·7	094
21·0	1	17·5	17·5	105
	ALLAHABAD/BAMHRAULI 0530 hr.*			
10·5	2	4·5	4·4	221
	1730 hr.*			
10·5	6	6·0	5·6	240
12·0	4	8·6	7·6	230
14·1	1	8·0	8·0	210
16·2	1	13·0	13·0	180
	ASANSOL 0530 hr.			
10·5	1	5·5	5·5	195
12·0	1	5·0	5·0	170
14·1	1	11·0	11·0	165
16·2	1	12·0	12·0	115
18·0	1	13·0	13·0	140
	1730 hr.			
10·5	1	5·5	5·5	215
12·0	1	6·5	6·5	195
14·1	1	12·0	12·0	165
16·2	1	13·5	13·5	085
	BAHRAICH 0530 hr.			
10·5	1	21·5	21·5	230
	BANGALORE 1130 hr.@			
10·5	4	11·1	0·9	093
12·0	3	22·3	2·3	101
14·1	1	25·0	5·0	095
	1730 hr.@			
10·5	1	10·0	10·0	165

Ht. in Km.	n	V	v	D
	BAREILY 0530 hr.			
10·5	2	6·0	5·9	319
	1730 hr.			
10·5	3	9·5	0·5	182
	BEGAMPET 0530 hr.			
10·5	1	15·5	15·5	105
12·0	1	21·0	21·0	105
	BHAGALPUR 0530 hr.			
10·5	2	3·3	1·3	270
12·0	1	1·5	1·5	215
	BHUJ/RUDRAMATA 1730 hrs.			
10·5	1	8·0	8·0	105
	BIKANER 0530 hr.			
10·5	1	3·0	3·0	325
	1730 hr.			
10·5	1	35·0	35·0	240
	BOMBAY/SANTA CRUZ 0530 hr.*			
10·5	22	10·2	6·2	110
12·0	16	11·9	9·4	095
14·1	5	16·0	13·5	088
16·2	2	15·7	15·6	080
	1730 hr.*			
10·5	22	10·5	6·5	101
12·0	15	13·9	12·0	092
14·1	6	17·3	14·3	199
16·2	2	18·7	18.3	095
	CALCUTTA/DUMDUM 0530 hr.*			
10·5	30	7·2	4·5	120
12·0	30	8·7	7·3	106
14·1	30	11·9	9·5	080
16·2	28	13·6	12·3	082
18·0	17	16·9	16·2	080
21·0	5	15·9	15·2	079
	1730 hr.*			
10·5	30	6·4	2·6	114
12·0	30	7·5	5·2	107
14·1	29	9·7	8·5	084
16·2	29	13·3	11·8	068
18·0	14	17·6	17·1	079
21·0	4	18·0	17·3	096
24.0	1	25·0	25·0	080
	GADAG 0530 hr.			
10·5	1	9·5	9·5	085
12·0	1	13·0	13·0	080

Ht. in Km.	n	V	v	D
	GAUHATI 0530 hr.*			
10·5	19	6·1	3·7	248
12·0	13	6·0	3·8	218
14·1	10	5·8	2·3	255
16·2	5	7·1	1·5	208
18·0	3	12·7	12·3	083
	1730 hr.*			
10·5	20	7·3	4·6	275
12·0	16	7·0	5·0	255
14·1	13	8·1	3·9	271
16·2	7	8·4	3·5	140
18·0	4	6·0	3·0	198
	GOPALPUR 1730 hr.			
10·5	8	9·1	8·5	099
12·0	8	12·7	1·5	240
14·1	3	16·3	15·7	245
16·2	1	27·5	27·5	110
	GWALIOR 0530 hr.			
10·5	5	6·6	0·9	010
12·0	4	6·2	1·9	113
14·1	4	5·1	1·8	347
16·2	2	5·3	5·2	254
18·0	2	10·3	8·8	359
21·0	2	12·5	12·5	102
24·0	1	12·0	12·0	050
	1130 hr.			
10·5	2	6·0	5·9	211
12·0	2	3·5	1·5	201
14·1	1	7·5	7·5	050
16·2	1	13·0	13·0	080
	1730 hr.			
10·5	1	9·0	9·0	225
12·0	1	12·0	12·0	240
	JABALPUR 1730 hr.			
10·5	1	12·0	12·0	250
	JAGDALPUR 0530 hr.			
10·5	1	12·0	12·0	115
	JAIPUR/SANGANER 0530 hr.			
10·5	3	4·2	1·3	326
12·0	3	4·5	3·1	037
	JODHPUR 0530 hr.*			
10·5	14	12·8	2·6	275
12·0	9	9·2	3·3	002

Ht. in Km.	n	V	v	D
14·1	5	9·1	7·3	083
16·2	3	6·8	4·9	093
18·0	2	7·3	6·5	085
	1130 hr.			
10·5	3	20·8	14·7	244
12·0	2	28·0	27·9	243
	1730 hr.*			
10·5	16	13·7	6·1	247
12·0	10	11·5	4·9	221
14·1	7	10·4	1·3	246
16·2	2	13·5	13·5	105
18·0	1	11·0	11·0	090
	LUCKNOW/AMAUSI 1730 hr.			
10·5	1	1·5	1·5	330
	MADRAS/MINAMBAKKAM 0530 hr.*			
10·5	30	12·0	11·1	088
12·0	29	18·7	17·9	088
14·1	27	27·3	26·9	088
16·2	22	32·3	31·6	094
18·0	13	20·7	17·2	094
21·0	7	13·5	11·6	089
24·0	4	10·9	10·7	080
	1130 hr.			
10·5	5	7·3	7·0	120
12·0	4	14·9	14·5	092
14·1	4	24·4	24·2	099
16·2	2	22·5	21·5	107
18·0	1	19·0	19·0	095
	1730 hr.*			
10·5	25	12·1	10·1	086
12·0	25	18·5	17·8	085
14·1	24	28·2	27·3	088
16·2	18	30·3	29·2	091
18·0	11	25·3	13·1	085
21·0	5	17·1	16·1	089
24·0	1	8·5	8·5	095
	MINICOY 1130 hr.*			
10·5	1	20·5	20·5	070
12·0	1	32·5	32·5	070
	1730 hr.*			
10·5	25	13·2	11·9	072
12·0	25	18·8	17·0	076
14·1	24	32·7	31·9	086
16·2	24	28·1	27·7	092
18·0	19	13·5	11·4	089

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

JUNE, 1964 (JYAISTHA 11—ASADHA 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	MINICOY—(Contd.)			
	1730 hr.*			
21·0	12	9·2	4·1	090
24·0	2	11·0	2·3	075
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	17	5·1	3·2	113
12·0	14	7·8	4·6	102
14·1	3	9·0	8·9	126
16·2	2	8·7	6·9	162
18·0	1	10·0	10·6	140
	1130 hr.			
10·5	6	7·7	5·7	124
12·0	5	7·0	5·8	108
14·1	2	16·7	16·6	090
16·2	1	19·0	19·0	095
	1730 hr.*			
10·5	19	5·7	4·5	110
12·0	15	7·7	5·8	115
14·1	9	12·9	9·6	105
16·2	4	15·1	15·0	092
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	30	16·2	13·3	265
12·0	30	14·4	12·1	240
14·1	29	12·5	9·3	259
16·2	26	8·8	5·6	258
18·0	24	7·4	1·8	084
21·0	14	9·8	8·2	091
24·0	8	9·4	8·8	098
27·0	4	7·9	7·5	097
30·0	4	9·4	9·2	093
	1730 hr.*			
10·5	29	16·0	12·9	263
12·0	29	15·4	12·4	257
14·1	25	13·9	11·5	267
16·2	24	9·0	4·6	246
18·0	24	6·3	4·2	151
21·0	15	9·3	8·9	105
24·0	4	6·7	6·5	085
27·0	3	8·7	6·2	091
30·0	2	6·5	6·5	103
	PORT BLAIR			
	0530 hr.*			
10·5	16	15·3	13·2	060
12·0	12	18·8	17·8	057
14·1	9	29·1	26·8	068
16·2	4	37·1	33·9	066

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	20	15·3	12·1	061
12·0	16	19·7	17·8	063
14·1	11	30·5	29·1	060
16·2	4	37·5	37·4	070
18·0	2	22·3	20·4	060
	SRINAGAR			
	0530 hr.*			
10·5	15	28·1	26·0	280
12·0	13	29·3	27·8	275
14·1	9	28·6	27·0	281
16·2	2	26·0	25·5	278
	1730 hr.*			
10·5	19	23·2	21·1	274
12·0	15	33·1	30·8	270
14·1	7	32·2	29·0	272
16·2	1	23·0	23·0	250
18·0	1	6·5	6·5	240
21·0	1	14·0	14·0	275
	TIRUCHCHIRAPPALLI			
	0530 hr.			
10·5	6	14·3	13·5	095
12·0	4	25·1	24·8	090
14·1	1	28·0	28·0	105
16·2	1	17·0	17·0	110
	1730 hr.			
10·5	3	10·8	10·4	083
12·0	3	15·3	15·2	082
14·1	1	29·0	29·0	090
16·2	1	15·5	15·5	095
	TRIVANDRUM			
	0530 hr.*			
10·5	30	11·2	10·1	082
12·0	30	20·1	18·9	075
14·1	28	32·6	31·8	083
16·2	25	24·5	22·3	091
18·0	15	12·7	10·6	095
21·0	4	3·4	2·9	320
24·0	2	9·5	7·9	076
	1730 hr.*			
10·5	30	15·0	13·4	084
12·0	30	23·6	22·7	081
14·1	30	34·3	33·8	082
16·2	28	25·3	24·5	091
18·0	22	16·4	14·4	081
21·0	8	9·1	4·9	057
24·0	2	7·5	4·1	022

Ht. in Km.	n	V	v	D
	UDAIPUR			
	0530 hr.			
10·5	5	8·8	3·8	221
12·0	4	10·3	4·6	228
14·1	3	10·0	3·8	269
16·2	2	14·5	5·1	221
18·0	2	16·0	7·4	128
21·0	1	14·0	14·0	080
24·0	1	29·5	29·5	089
27·0	1	49·0	49·0	080
	1730 hr.			
10·5	3	13·2	10·5	254
12·0	1	20·0	20·0	235
	VERAVAL			
	1730 hr.			
10·5	4	10·0	5·1	188
12·0	1	5·0	5·0	245
	VIJAYAWADA/ GANNAVARAM			
	0530 hr.			
10·5	1	11·0	11·0	100
	1730 hr.			
10·5	1	4·0	4·0	125
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	28	9·2	8·4	100
12·0	28	15·1	14·3	095
14·1	25	20·7	19·5	092
16·2	23	24·9	24·3	086
18·0	20	17·8	17·0	090
21·0	11	13·7	12·2	097
24·0	2	12·3	11·6	110
	1130 hr.			
10·5	3	9·3	8·2	090
12·0	3	15·5	15·1	099
14·1	2	25·7	25·7	103
16·2	2	31·0	30·9	100
18·0	2	25·5	25·3	100
21·0	2	12·5	12·1	077
	1730 hr.*			
10·5	26	8·5	7·1	088
12·0	25	13·0	12·2	092
14·1	24	20·5	19·1	088
16·2	21	26·1	24·6	087
18·0	13	21·0	20·0	088
21·0	5	13·8	12·8	100

Ht. in Km.

RADIOSONDE DATA

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the li below. For detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 11 Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmadabad	Clock type	26th July 1961	00 and 12	Fan type upto 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September 1954	00 and 12	Clock type upto 22-2-196
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-4 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 00 Hours G.M.T.

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (993 mb.)						ALLAHABAD/BAMHRAULI (984 mb.)						BANGALORE (904 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	309·5	314	300	294·5	30	098	311.0	317	301	292·7	30	921	300·1	304	294	291·6
1000	30	−12	..	..	..	..	30	−049	..	..	..	..	30	27	..	..	..	..
900	30	940	301·7	308	295	290·0	30	906	304·5	310	300	287·6	30	962	299·7	304	295	291·3
850	30	1446	297·8	305	294	287·8	30	1416	300·4	305	295	285·5	30	1464	295·0	299	291	289·2
800	30	1974	293·3	300	291	286·2	30	1948	296·1	301	291	283·5	30	1990	290·2	295	287	287·0
700	30	3112	286·1	290	284	276·6	30	3092	287·1	291	285	278·2	30	3117	283·1	287	281	280·5
600	30	4389	278·1	281	274	267·7	30	4372	279·0	283	275	269·9	30	4387	276·1	280	273	272·8
500	30	5854	270·5	277	261	..	30	5844	271·7	276	266	262·5	30	5845	268·1	272	264	..
400	30	7598	261·7	267	253	..	30	7597	261·8	266	260	..	30	7565	256·9	261	250	..
300	29	9762	248·8	254	243	..	30	9763	248·8	253	246	..	28	9682	243·4	249	238	..
250	28	11068	239·0	245	233	..	29	11058	238·9	245	235	..	27	10961	233·8	240	229	..
200	28	12603	228·2	236	221	..	29	12531	226·9	233	221	..	24	12455	222·8	229	220	..
175	26	13470	221·5	231	213	..	27	13455	220·7	225	214	..	20	13298	216·3	220	213	..
150	26	14458	214·2	224	204	..	26	14450	214·0	219	207	..	20	14271	208·9	215	204	..
125	24	15596	207·3	215	201	..	24	15589	206·9	214	201	..	18	15351	203·2	208	200	..
100	23	16920	199·7	210	193	..	21	16921	201.7	208	193	..	16	16700	199·3	202	195	..
80	20	18235	199·1	210	191	..	16	18229	201·5	215	192	..	9	18155	202·2	207	197	..
70	19	19016	203·0	215	195	..	15	19011	205·1	220	195	..	8	18844	205·0	210	199	..
60	17	19932	209·7	222	200	..	13	19948	209·7	226	195	..	7	19735	207·3	213	202	..
50	7	20988	210.7	217	204	..	10	21059	212·5	221	197	..	..	..	..	..	..	..
40	5	22417	213·6	224	209	..	6	22512	219·2	223	215	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ Surf Pr. (1001 mb.)						CALCUTTA/DUM DUM (996 mb.)						GAUHATI (996 mb.)					
Surface	30	013	302·7	307	298	297·9	30	6	304·3	308	298	299·8	30	49	302.8	307	299	298.5
1000	30	19	..	..	..	..	30	−030	..	..	..	..	30	−18	..	..	..	..
900	30	949	295·9	300	292	290·5	30	911	298·8	303	294	294·2	30	915	296·6	301	294	293.5
850	30	1446	292·9	299	290	286·7	30	1413	296·4	303	291	290·1	30	1413	294·2	298	292	290·5
800	30	1968	290·0	295	285	283·4	30	1941	293·7	299	290	286·4	30	1936	291·2	294	288	287·3
700	30	3096	284·0	287	280	278·0	30	3084	286·9	291	284	280·1	30	3069	285·2	288	284	280·0
600	30	4364	276·5	280	273	270.8	30	4368	279·1	283	275	273.4	30	4339	278·5	282	276	272.1
500	30	5824	269·0	273	266	..	30	5843	271·2	277	268	..	29	5821	271·1	276	265	..
400	30	7552	258·8	263	254	..	30	7589	261·8	267	255	..	26	7553	261·2	264	258	..
300	26	9687	244·9	248	239	..	30	9748	248·9	254	246	..	22	9704	247·6	252	243	..
250	26	10969	234·7	239	229	..	30	11051	239·7	244	236	..	19	10999	238·1	243	231	..
200	23	12466	222·1	229	217	..	30	12581	228·2	235	224	..	16	12518	226·3	230	220	..
175	21	13327	214·9	220	209	..	29	13460	221·4	227	215	..	15	13401	218·9	223	213	..
150	21	14294	208·4	216	203	..	29	14442	214·2	221	208	..	13	14361	211.7	215	207	..
125	17	15397	201·3	210	193	..	29	15574	207·0	219	199	..	11	15395	203.1	207	197	..
100	11	16714	195·3	197	192	..	27	16905	200·2	210	193	..	9	16822	197.7	201	196	..
80	7	17996	195·1	201	191	..	17	18206	197.8	207	193	..	5	18092	197.0	199	193	..
70	..	..	..	..	..	..	15	18997	201·1	216	192	..	..	..	..	..	..	..
60	..	..	..	..	..	..	12	19931	207·0	223	189	..	..	..	..	..	..	..
50	..	..	..	..	..	..	10	21046	212·9	222	201	..	..	..	..	..	..	..
40	..	..	..	..	..	..	6	22455	217·0	232	204	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (973 mb.)						MADRAS/MINAMBAKKAM (1000 mb.)						MINICOY (1007 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature° A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	311·7	315	304	291·5	30	015	307·0	311	302	291·7	30	002	300·6	303	298	297·3
1000	30	−016	..	..	..	..	30	014	..	..	..	..	30	066	..	..	..	..
900	29	929	304·9	310	298	290·2	30	956	300·0	303	296	289·5	30	993	293·6	296	291	290·3
850	29	1433	300·0	304	294	284·5	30	1458	296.1	301	294	287·4	30	1486	290·9	293	289	286.6
800	29	1964	296·1	300	291	282·9	30	1943	291.4	295	288	285·7	30	2004	288·0	291	286	283·3
700	29	3109	287·3	291	280	274·2	30	3113	283·4	287	279	278·8	30	3124	282·1	285	279	275·6
600	28	4382	278·4	283	274	266·0	30	4381	276·4	282	273	271·7	30	4387	275·0	281	272	..
500	28	5848	271·0	279	263	..	30	5842	269·1	274	263	..	30	5837	267·1	273	264	..
400	28	7594	262·2	269	255	..	30	7567	258·0	265	250	..	30	7548	256·7	263	253	..
300	20	9765	250·6	256	246	..	28	9684	242·8	247	238	..	28	9643	241·3	248	238	..
250	15	11087	242·1	247	238	..	26	10934	233·2	238	228	..	27	10892	231·5	239	225	..
200	12	12641	230·4	236	221	..	25	12445	220·8	223	214	..	27	12382	220·0	227	212	..
175	11	13542	225 4	229	221	..	25	13291	214·8	221	210	..	25	13211	213·3	216	205	..
150	9	14545	218·3	221	214	..	25	14253	208·0	217	205	..	25	14178	206·4	213	199	..
125	7	15709	210·4	216	207	..	19	15327	200·4	205	194	..	25	15255	200·4	205	193	..
100	7	17083	202·3	209	197	..	18	16647	196·9	206	193	..	25	16563	198·2	203	191	..
80	5	18397	200·6	212	197	..	13	17948	199·0	203	195	..	21	17883	201·9	206	195	..
70						..	10	18751	201·4	205	195	..	17	18717	205·7	213	197	..
60						..	9	19627	205·0	209	201	..	14	19604	206·4	212	202	..
50						..	6	20798	210·0	216	204	..	13	20722	208·5	213	205	..
40													7	22089	211.1	214	210	..
30																		
20																		
10																		

	NAGPUR/SONEGAON (963 mb.)						NEW DELHI/SAFDARJUNG (972 mb.)						PORT BLAIR (997 mb.)					
Surface	30	311	307·6	316	297	290·7	30	209	310·4	313	305	294·5	30	079	299·6	302	296	297·1
1000	29	−033	..	..	..	..	30	−052	..	..	..	..	29	053	..	..	..	..
900	29	922	301.3	311	295	288·8	30	906	305·7	310	301	288·5	29	974	294.3	297	293	291.8
850	29	1431	299·0	307	293	287·7	30	1415	301·7	306	296	285·2	29	1468	291.7	295	288	287.3
800	29	1967	294·7	299	290	284·9	30	1949	296·8	301	292	283·3	29	1985	288·7	291	282	284·6
700	29	3103	286·0	289	282	281·1	30	3094	287·0	291	283	278 2	29	3108	283·3	286	281	277·6
600	29	4383	277·1	281	279	280.0	30	4385	277·4	284	273	268·7	29	4373	276·2	279	272	..
500	29	5844	269·0	273	263	..	29	5833	269·5	276	261	..	29	5830	267·9	271	263	..
400	28	7578	260·7	266	253	..	29	7567	260.2	267	251	..	29	7551	254.1	263	255	..
300	28	9689	245·4	251	240	..	29	9708	247·5	254	243	..	27	9663	242·9	249	238	..
250	28	10997	235·9	241	230	..	29	11001	238·4	243	234	..	25	10946	233·0	240	227	..
200	28	12420	223·5	232	218	..	29	12536	228·0	234	221	..	23	12166	220·1	229	215	..
175	26	13341	217·0	225	211	..	27	13373	221·6	228	217	..	22	13278	213·7	223	210	..
150	25	14322	210·0	217	204	..	26	14392	215·0	220	209	..	21	14231	207·7	215	203	..
125	23	15410	203·9	211	199	..	26	15516	208·1	214	202	..	16	15333	201·4	209	196	..
100	22	16750	197·2	202	193	..	24	16842	201·1	209	195	..	14	16625	197·1	204	192	..
80	14	18069	197·5	202	193	..	24	18151	200·5	207	195	..	6	17857	190·8	203	193	..
70	13	18910	199·2	204	195	..	23	18941	204.8	220	196		6	18652	199·7	205	192	..
60	10	19749	203·6	209	199	..	18	19850	209.6	219	201		5	19531	203·0	208	193	..
50	8	20814	205·5	213	192	..	15	20959	214.0	226	206		5	20603	203·4	210	194	..
40						..	10	22375	218.6	229	211							
30						..												
20						..												
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (835 mb.)						TRIVANDRUM (999 mb.)						VISHAKHAPATNAM (995 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	23	1588	296·7	307	291	286·8	30	064	301·5	303	299	296·8	30	041	304·0	309	299	300·0
1000	23	—7	..	..	..	..	30	56	..	..	..	..	30	006	..	..	..	..
900	23	931	..	..	..	..	30	985	294.5	297	293	291·3	30	933	299·0	303	295	294·4
850	23	1433	..	..	..	..	30	1480	291·4	293	289	287·5	30	1436	296·5	301	293	291·0
800	23	1962	293·8	303	282	281·3	30	1999	288·8	291	285	284·1	30	1963	292.9	297	290	287·6
700	23	3100	285.7	294	280	273·9	30	3125	283.5	287	280	277·3	30	099	285·5	289	282	281·7
600	23	4371	275·9	284	269	..	30	4395	276·6	282	273	270·0	30	4376	277·4	281	273	274·5
500	22	5823	266·5	277	262	..	30	5853	268·1	273	265	..	29	5843	270·0	274	265	..
400	22	7530	256·4	265	248	..	30	7574	257·7	263	254	..	29	7572	258·3	267	253	..
300	21	9628	243·6	253	234	..	30	9608	242·5	247	239	..	29	9705	245·2	250	239	..
250	18	10914	236·5	245	224	..	30	10958	232·2	237	227	..	28	10992	236·3	243	231	..
200	17	12427	230·1	235	226	..	30	12440	220·2	224	214	..	27	12501	224·3	229	218	..
175	16	13321	225·8	233	219	..	30	13284	213·8	217	210	..	27	13350	217·5	223	211	..
150	16	14327	220·7	231	215	..	30	14244	207·2	211	203	..	27	14335	210·6	216	205	..
125	13	15462	213·5	219	207	..	29	15318	201·6	208	196	..	25	15425	204·0	209	195	..
100	12	16830	209·3	215	202	..	28	16641	198·9	208	193	..	24	16767	198·3	206	189	..
80	9	18163	210·7	217	204	..	24	17942	202·0	215	193	..	19	18058	199·0	206	192	..
70	8	18993	211·9	219	203	..	21	18740	204·9	213	195	..	15	18888	201·8	209	197	..
60	8	19934	214·4	225	205	..	16	19667	207·5	214	200	..	13	19879	205·5	211	200	..
50	6	21137	222·3	233	216	..	15	20801	212·7	223	207	..	11	20874	211·0	214	206	..
40							11	22204	216·3	220	209	..						
30																		
20																		
10																		

NOTE.—Number of observations refer to those of dynamic height,.
Means are not worked out for temperature and dew pointf or the 1000 mb surface and for dew point for standard pressure surfaces with temperature less than 273. A.
Means are not worked out for less than five observations at standard pressure surfaces

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

June 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (995 mb.)						ALLAHABAD/BAMHRAULI (985mb.)						BANGALORE (906mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	301·2	303	299	296·0	30	098	302·8	308	300	292·5	30	921	293·3	296	292	291·7
1000	30	9	..	..	..	..	30	−029	..	..	..	..	30	064	..	..	..	..
900	30	941	296·7	300	293	289·9	30	912	301·6	308	296	288·0	30	977	293·2	296	292	291·3
850	30	1440	294·7	299	291	286·2	30	1416	298·0	304	293	285·5	30	1471	291·0	296	288	288·2
800	30	1964	292·0	295	288	283·0	30	1945	294·1	300	291	283·0	30	1992	289·4	293	285	284·7
700	30	3098	285·0	289	281	275·4	30	3084	285·4	290	280	278·5	30	3121	284·0	287	279	278·6
600	30	4370	277·0	280	268	..	30	4356	276·6	282	271	271·6	30	4392	276·0	280	273	272·4
500	30	5830	269·0	273	260	..	30	5815	269·5	275	265	..	30	5853	267·3	273	263	265·2
400	30	7564	260·2	269	251	..	30	7553	260·6	266	255	..	30	7571	257·2	262	253	..
300	28	9706	247·0	250	242	..	30	9701	246·2	252	241	..	28	9681	242·6	248	239	..
250	28	11002	237·7	241	233	..	30	10998	237·5	243	231	..	28	10948	232·3	238	227	..
200	28	12522	226·5	230	221	..	30	12513	226·4	234	219	..	26	12432	221·1	227	215	..
175	26	13388	220·1	224	214	..	28	13383	219·2	229	213	..	21	13274	215·0	219	208	..
150	26	14373	213·0	217	207	..	27	14360	211·8	223	204	..	21	14236	208·3	213	201	..
125	23	15499	205·6	213	199	..	23	15467	203·9	211	197	..	20	15325	203·4	209	197	..
100	21	16831	199·0	208	191	..	22	16776	197·5	206	190	..	19	16653	198·1	205	191	..
80	17	18123	198·2	206	191	..	17	18089	200·0	210	192	..	17	17991	200·7	212	190	..
70	16	18905	200·8	211	191	..	15	18887	203·6	211	198	..	15	18780	204·7	211	201	..
60	10	19854	206·2	215	197	..	13	19775	207·4	215	200	..	11	19690	206·5	214	195	..
50	7	20951	210·7	221	201	..	13	20888	212·5	219	204	..	7	20805	208·7	217	196	..
40	6	22397	217·6	228	209	..	8	22286	217·4	230	207	..	5	22233	214·0	217	211	..
30							5	24089	224·0	233	211	..						
20																		
10																		

	BOMBAY/SANTACRUZ (1001 mb.)						CALCUTTA/DUM DUM (996 mb.)						GAUHATI (995 mb.)					
Surface	30	013	299·0	302	297	297·2	30	6	300·7	304	298	299·0	30	049	299·4	303	295	297.4
1000	30	026	..	..	..	..	30	−12	..	..	..	..	30	06	..	..	..	..
900	29	954	294·6	299	291	291·2	30	917	297·3	302	294	293·6	30	929	294·6	299	291	292·6
850	29	1447	292·1	297	289	287·4	30	1421	294·9	301	291	291·0	30	1424	292·7	300	289	290·3
800	29	1967	289·6	294	285	283·6	30	1951	293·4	296	288	287·2	30	1945	290·3	294	287	287·4
700	29	3095	283·3	286	279	277·6	30	3087	285·4	288	283	280·9	30	3075	284·3	288	280	281·3
600	29	4360	276·0	281	272	271·3	30	4362	277·4	283	271	275·0	30	4347	277·7	281	274	274·7
500	29	5817	268·3	273	263	..	30	5834	270·2	275	266	268·4	30	5814	270·6	274	267	..
400	29	7541	258·6	265	252	..	30	7577	261·5	266	257	..	29	7556	261·8	264	258	..
300	25	9670	243·7	251	239	..	30	9728	247·5	253	242	..	19	9703	248·4	252	244	..
250	21	10960	235·1	241	230	..	30	11013	239·1	244	235	..	13	11009	239·2	242	236	..
200	20	12465	223·5	229	218	..	30	12560	228·2	237	221	..	12	12543	227·4	230	224	..
175	18	13351	216·9	222	210	..	30	13433	221·6	223	214	..	11	13419	220·5	224	216	..
150	16	14295	211·1	217	205	..	30	14429	215·1	223	207	..	11	14404	214·1	217	210	..
125	16	15421	204·7	212	197	..	29	15558	207·5	218	201	..	8	15474	206·4	211	204	..
100	13	16721	197·8	201	194	..	26	16895	200·7	209	193	..	7	16875	200·7	205	198	..
80	6	18008	199·5	203	195	..	17	18167	194·1	207	196	..	5	18169	198·4	204	193	..
70							18	18971	202·8	207	197	..						
60							10	19891	207·5	213	202							
50							9	21004	211·0	215	206							
40							5	22491	215·2	219	211							
30																		
20																		
10																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (974 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						NAGPUR/SONEGAON (965 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	302.5	307	300	293·5	30	015	301·7	304	298	295·0	30	311	300·7	307	296	290·7
1000	30	—027	..	..	..	..	30	024	..	..		..	29	—4	..	..	..	..
900	30	915	302·4	306	298	287·5	30	958	296·9	300	293	289·0	29	934	299·1	305	292	288·8
850	30	1422	299·2	303	294	284·6	30	1455	293·9	297	289	286·6	29	1437	296·2	301	292	286·6
800	30	1951	295·6	299	290	282·4	30	1974	290·5	295	288	284·6	29	1979	292·4	297	289	285·1
700	30	3095	286·2	290	283	276·5	30	3104	283·2	289	280	278·2	29	3098	284·4	287	280	280·5
600	30	4368	275·8	279	271	271·6	30	4370	275·4	280	271	271·9	28	4370	276·3	279	273	273·3
500	30	5821	268·0	275	260	..	30	5823	267·1	272	261	..	28	5838	269·1	273	263	..
400	30	7549	260·0	267	252	..	30	7540	257·1	262	253	..	28	7561	258.4	263	248	..
300	30	9691	247·4	259	241	..	30	9651	242·2	246	238	..	27	9681	244·5	251	240	..
250	30	10989	237·9	241	233	..	30	10921	232·6	237	226	..	27	10964	236·7	242	229	..
200	30	12513	227·3	232	223	..	28	12411	220·7	227	214	..	27	12464	223·0	230	215	..
175	30	13390	220·6	226	213	..	27	13247	214·3	220	208	..	26	13312	216·8	223	207	..
150	30	14371	213·9	221	206	..	27	14214	207·7	214	201	..	25	14281	209·6	216	198	..
125	29	15497	206·7	212	198	..	25	15284	201·4	207	193	..	24	15369	202·9	208	194	..
100	27	16831	200·5	208	196	..	19	16621	197·9	203	192	..	24	16696	197·5	203	192	..
80	26	18138	201·7	208	192	..	14	17927	202·4	214	194	..	14	17997	198·9	208	191	..
70	23	18925	205.1	215	194	..	10	18679	206·0	211	198	..	12	18789	201·1	206	193	..
60	21	19846	209.1	219	203	..	8	19631	209·3	213	201	..	11	19662	205.5	213	199	..
50	16	20961	214·6	218	207	..	8	20760	212.9	217	205	..	8	20760	209·6	218	204	..
40	11	22388	219·3	223	213	..	5	22213	217·6	221	211	..						..
30	7	24281	225.7	231	221	..												
20																		
10																		

	NEW DELHI/SAFDARJUNG (974 mb.)						PORT BLAIR (998 mb.)						SRINAGAR (835 mb.)					
Surface	30	209	302.5	307	300	293·5	30	079	298·5	300	297	296·9	17	1588	288·1	291	284	286·8
1000	30	—027	..	..	..	..	30	060	..	..	..	..	17	044	..	..	..	..
900	30	915	302·4	306	298	287·5	30	979	294·5	296	292	290·8	17	954	..	..	..	..
850	30	1422	299·2	303	294	284·6	30	1474	291·8	294	287	288·3	17	1440	..	..	..	..
800	30	1951	295·6	299	290	282·4	30	1979	289·2	292	287	285·3	17	1954	287·6	293	283	282·2
700	30	3095	286·2	290	283	276·5	30	3113	283·2	286	280	278·7	17	3074	282·6	289	277	276·8
600	30	4368	275·8	279	271	271·6	30	4369	275·9	279	271	272·5	17	4338	274·8	283	270	270·3
500	30	5821	268.0	275	260	..	30	5833	267·9	271	265	..	17	5783	264·6	271	261	..
400	30	7549	260·0	267	252	..	29	7558	257·9	261	253	..	17	7482	256·0	265	249	..
300	30	9691	247·4	259	241	..	29	9672	243·2	247	237	..	16	9594	244·7	250	236	..
250	30	10989	237·9	241	233	..	26	10939	232·3	239	227	..	16	10882	236·3	241	230	..
200	30	12513	227·3	232	223	..	26	12421	219·8	225	214	..	13	12400	229·2	235	225	..
175	30	13390	220·6	226	213	..	22	13273	213·5	220	205	..	11	13271	223·6	232	217	..
150	30	14371	213·9	221	206	..	22	14225	206·3	211	198	..	11	14267	218·0	224	208	..
125	29	15497	206·7	212	198	..	16	15346	201·4	207	195	..	10	15388	210·6	217	203	..
100	27	16831	200·5	208	196	..	13	16643	199·6	207	195	..	7	16726	203·6	209	197	..
80	26	18138	201·7	208	192	..	8	17936	200·6	211	195	..	5	18091	202.0	205	200	..
70	23	18925	205.1	215	194	..	6	18716	204·5	219	196	..	5	18894	206.2	211	202	..
60	21	19846	209·1	219	203	..							5	19826	209.2	215	205	..
50	16	20969	214.6	218	207	..												
40	11	22388	219.3	223	213	..												
30	7	24281	225.7	231	221	..												
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

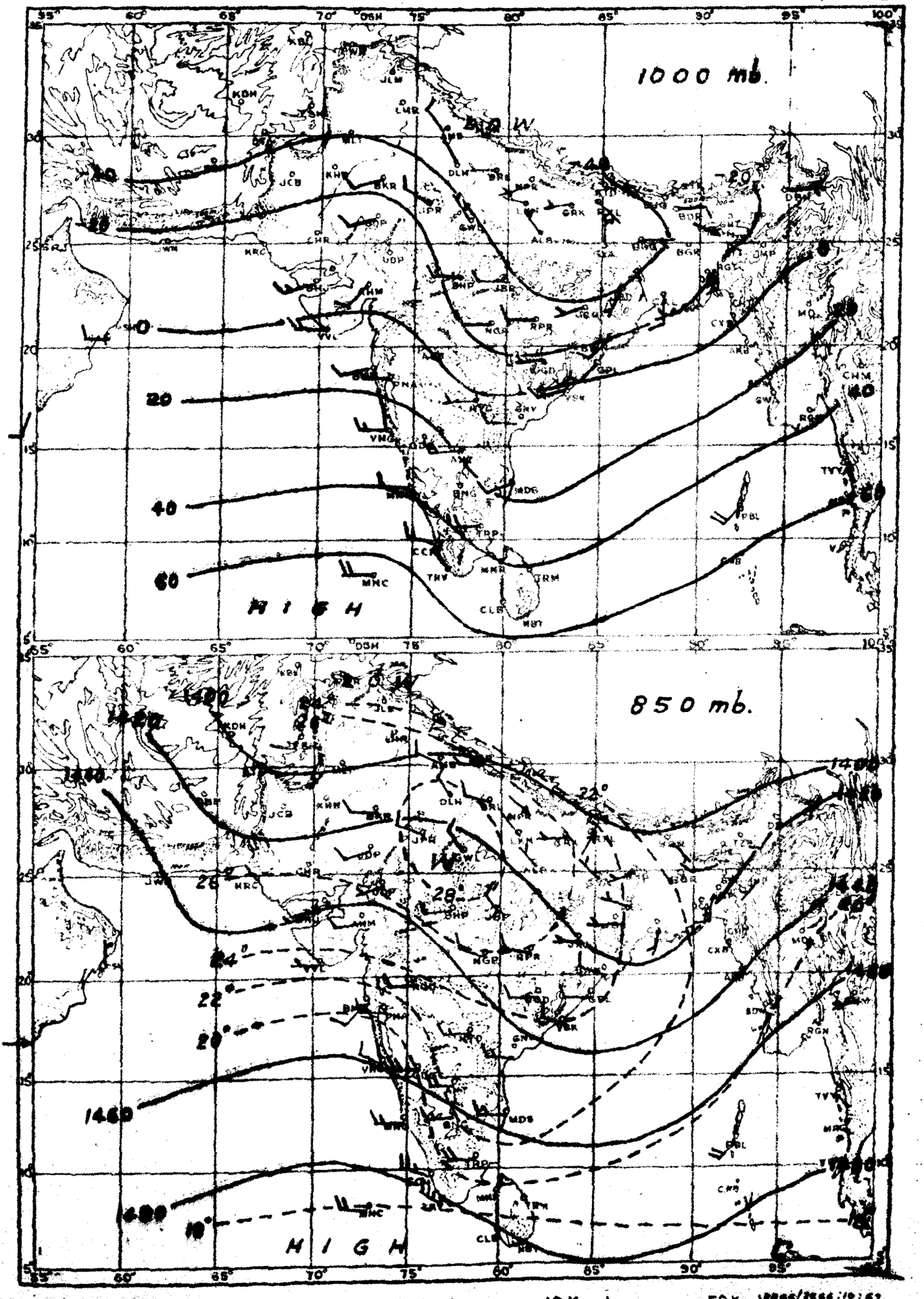
June, 1964 (Jyaistha 11—Asadha 9, 1886 Saka).

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1000 mb.)						VISHAKHAPATNAM (995 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	064	298·2	300	296	296·5	30	041	301·2	303	298	298·1
1000	30	064	..	..	..	..	30	3	..	..	..	..
900	30	988	293·4	296	291	290·7	30	937	297·2	304	291	292·5
850	30	1482	290·7	293	289	290·7	30	1437	295·0	300	290	289·1
800	30	1999	287·7	291	286	284·3	30	1962	292·0	297	288	286·4
700	30	3120	282.5	285	279	276·8	30	3096	284·1	290	281	280·4
600	30	4385	275.5	279	271	269·3	30	4368	276·5	281	273	273·8
500	30	5839	267·0	271	264	..	30	5829	268·3	272	262	..
400	30	7553	256·3	261	253	..	30	7551	257·9	264	251	..
300	30	9659	241.4	248	238	..	30	9672	244·3	250	239	..
250	30	10924	231.6	238	226	..	30	10954	234·5	239	228	..
200	30	12399	219.3	228	214	..	30	12454	222·3	228	216	..
175	28	13221	212·8	220	207	..	29	13291	216·5	222	212	..
150	28	14185	205·9	214	198	..	29	14276	210·0	217	206	..
125	27	15255	200·2	207	195	..	27	15354	203·9	210	198	..
100	26	16542	199·8	207	193	..	27	16702	198·1	202	190	..
80	23	17887	205.5	217	197	..	25	18031	199·9	209	189	..
70	22	18713	209.0	221	201	..	21	18827	202·9	209	192	..
60	20	19669	210·9	222	206	..	20	19758	207·1	212	196	..
50	17	20808	215·7	224	205	..	18	20835	212·7	224	202	..
40	8	22214	218·6	227	210	..	7	22187	214·7	223	206	..
30	6	24043	220·5	227	214	..						
20												
10												

GIPN—S3—412 D.D.G. Obs. Poona/67—19-7-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met.D. **JUNE 1964** Plate I

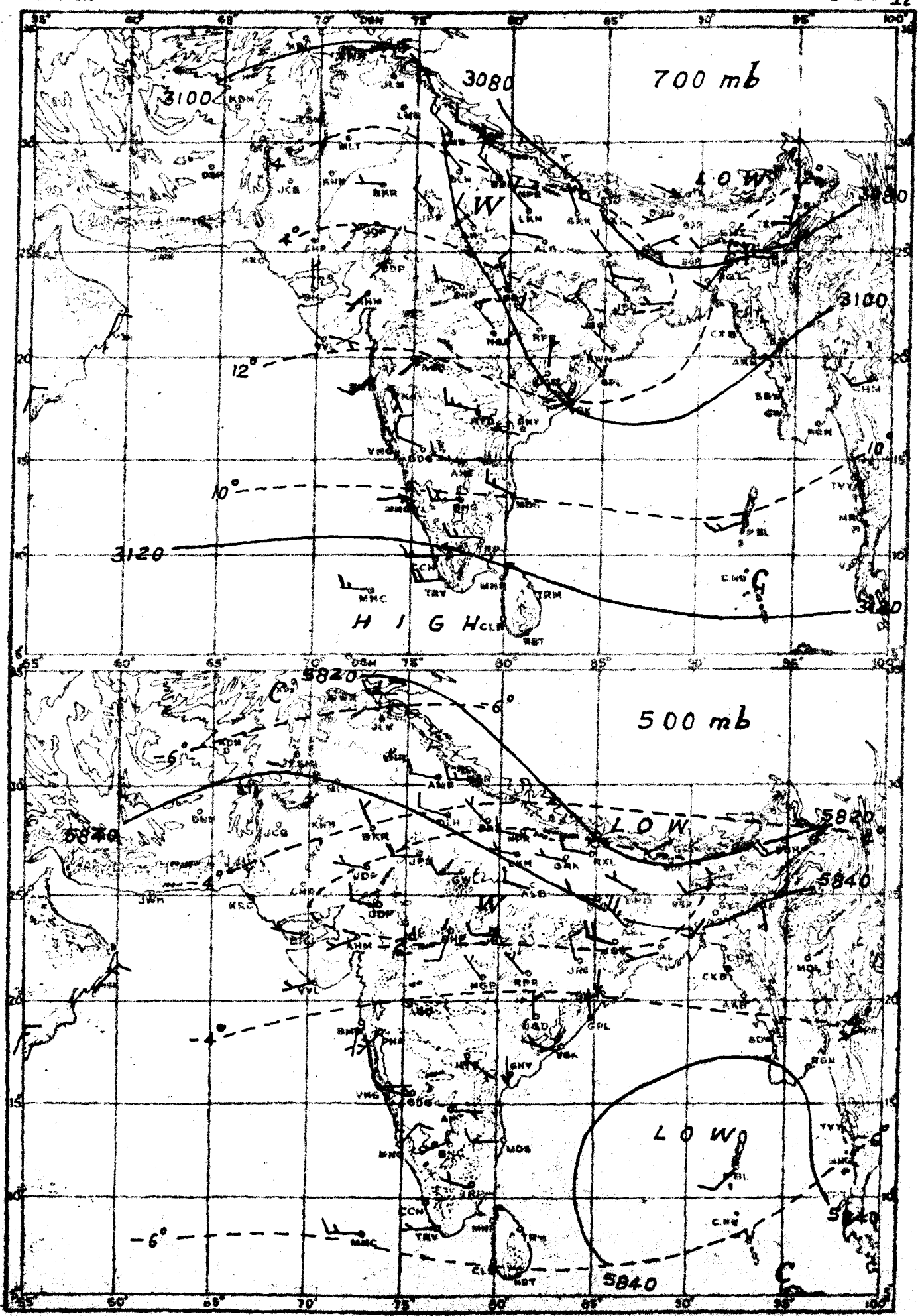


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. JUNE 1964 Plate II



RESULTANT WIND 5 Knots, 10 Knots, 50 Knots.

Isotherms in degrees centigrade Contours in geopotential metres

Errata to Monthly Weather Report for the quarter ending July to September 1964

Page	Item/Station	Hour	Column	For	Read
JULY 1964					
366	Sibsagar	-	19	+0.2 (1)	+2.0 (f)
"	Rangia	-	18	5.1	5.1
"	Gauhati	-	1	Gauhati (R)	Gauhati
"	Gauhati	-	20(a)	Blank	0
"	Foot Note	-	-	Blank	(j) Mean of 21 days.
367	Koraput	-	11	258.2	--
"	Dumka	-	11	250.2	258.2
"	Hazaribagh	-	13,20(a)	0,0	.., ..
"	Patna	-	18	8.1 (c)	8.1 (d)
"	Kheri	-	20(b)	17	16
"	Gorakhpur	-	17,18,19	2.0,1.9,-1.8	..,..,..
"	Kanpur	-	17	16.3	16.0
"	Kanpur Aerodrome	-	27,28	6,6	0,8
"	Azamgarh	-	20(a)	0	..
"	Foot Note	-	-	Add" (d) Mean of 27 days".	
368	Najibabad	-	2	2.9	32.9
"	Agra	-	8,9	26.5,11	23.8,10
"	Ludhiana	-	4	42.7	42.4
"	Halwara Aerodrome	-	15,20(b),25	15,17,0	29,31,1
"	Ambala	-	4	41.1	41.0
"	Bhatinda	-	17	6.8	4.1
"	Hissar	-	24,25	1,0	0,1
"	New Delhi/Safdarjung	-	10	92.8	221.1
"	Palam Aerodrome	-	24,25	2,0	0,2
"	Gulmarg	-	24,25	0,7	7,0
369	Jaipur (Sangner)	-	3	-0.1	-1.0
"	Tonk	-	20(b)	10	16
"	Jhalawar	-	24	3	0
"	Sheopur	-	7	+0.2	-0.2
"	Shivpuri	-	15	11	14
"	Sagar	-	18	10.7	10.7 (a)
"	Ambikapur	-	8	22.3	21.3
"	Raigarh	-	4	83.7	33.7
"	Raigarh	-	13	140.8	130.8
"	Kanker	-	4	34.0	33.0
"	Kanker	-	12	-175.5	-175.6
"	Ahmadabad	-	13	80.2	89.2
"	Vallabha Vidyanagar	-	13	74.6	74.7
"	Baroda	-	12	..	+59.4
"	Broach	-	12	+59.4	+278.7
"	Broach	-	16	-2.4	+3.4
"	Kandla Aerodrome	-	17	28.2	27.2
370	Devgarh	-	19	-0.6	-6.6
"	Vengurla	-	20(b)	27	29
"	Panjim	-	11	841.3	841.4
"	Panjim	-	20(b)	29	27
"	Nander	-	11	202.9	202.3
"	Bir	-	11	212.9	212.8
"	Foot Note	-	-	Add - (e) Mean of 26 days. (b) Mean of 29 days.	
371	Ramgundam	-	13	45.6	41.6
"	Nizamabad	-	13	27.0	77.0
"	Madurai (Aerodrome)	-	5	10,9	10,19
"	Tondi	-	2	32.2	32.3

(B) (C)

Contd.2

Page	Item/Station	Hour	Column	For	Read
371	Mangalore (Bajpe)	-	17	12.7	12.5
"	Gadag	-	9	Blank	11,29
372	Dalhousie	-	8	19.0	12.0
"	Dalhousie	-	9	25	16
"	Katmandu	-	6	19.9	20.1
"	Katmandu	-	8	18.1	19.1
TABLE III					
374	Port Blair	1730	5	7.7	997.7
"	North Lakhimpur	1430	2	1330	1430
376	Jalpaiguri	0830	5	993.5	993.4
"	Purulia	0830	12	Not clear	+1
"	Contai	1730	4	1001.3	1000.3
377	Jharsuguda	1130	4	1002.1	1002.0
"	Jharsuguda	2330	4	1002.0	1002.1
"	Bhubaneshwar	1730	21	0	1
"	Bhubaneshwar	2330	21,28	1,0	0,1
"	Gopalpur	1730	9	20.7	26.3
"	Gopalpur	2330	9	26.3	26.0
"	Daltonganj	0830	6	+9	+1.9
"	Daltonganj	0830	12	..	+2
"	Ranchi (Aerodrome)	1430	18	25	26
378	Chaibasa	0830	7	22.5	27.5
"	Chaibasa	1730	2	1830	1730
"	Purnea	1730	13	5.1	6.1
"	Patna	0830	12	..	+3
"	Patna Aerodrome	0530	12	3+	..
"	Jamui	1730	3	7	,,
"	Gaya	1130	27	6	3
"	Kheri	1730	15	6.8	3.2
"	Nautanwa	0830	15	12.8	4.3
"	Gonda	1730	13	5.8	6.4
"	Lucknow	1730	25	0	1
379	Lucknow (Amausi)	0830	5	985.5	985.4
"	Faizabad	0830	3	,,	102
"	Gorakhpur (P.B.O)	2030	15	2.3	4.7
"	Kanpur (Aerodrome)	2330	15	11.	11.0
"	Fatehpur	0830	12	+4	+2
"	Fatehpur	1730	15	7.0	7.1
"	Banda	0830	5	987.5	985.7
"	Allahabad (Bamrauli)	0230	2	2030	0230 - (Data may be
"	Allahabad (Bamrauli)	0530	4	997.8	998.8 (read against
"	Allahabad (Bamrauli)	2330	13	6.0	6.3 (Allahabad
					((Bamhrauli)
"	Varanasi (Babatpur)	0830	6	1.3	+1.3
"	Varanasi (Babatpur)	0830	28	0	3
"	Varanasi	0830	4	999.7	999.6
"	Mukhim	1730	8	Not clear	18.6
"	Tehri	0830	2	0530	0830
"	Dehra Dun	0830	10	28.1	28.7
380	Roorkee	1730	4	9964.4	996.4
"	Roorkee	1730	10	30.	30.7
"	Aligarh	1730	15	6.6	3.1
"	Agra	0830	14	..	-1.3
"	Agra (Aerodrome)	2330	12	+8	..
"	Orai	0830	3	241	141
"	Orai	0830	15	9.5	2.4
"	Orai	1730	10	33.7	33.2

Contd.3

Page	Item/Station	Hour	Column	For	Read
380	Jhansi	0830	10,14	29.8, ..	30.0, +0.4
"	Jhansi	1730	5	969.9	969.2
"	Pathankot	2330	28	1	0
"	Amritsar (Rajasansi)	0530	3	..	234
"	Ambala (P.B.O)	0230	3	,,	278-(This may be
"	Ambala (P.B.O)	0530	3	233	,, (read against (Ambala (PBO)
381	Bilaspur	0830	15	1.9	0
"	Leh	0530	13	4.3	3.0
"	Leh	0830	10	5.2	5.4
"	Leh	1730	4,5	3070.2, 665.3	.., ..
"	Srinagar	0830	10	18.9	19.0
"	Srinagar (Aerodrome)	1730	15	3.5	8.0
"	Gulmarg	0830	15	3.3	1.9
382	Mahajan	0830	18,27	29,0	27,2
"	Barmer & Erinpura				2330 hrs. observations below Erinpura may be read against Barmer.
383	Heading of Page	-	-	December 1963	July 1964.
"	Kota	0830	6	+0.1	+0.9
"	Udaipur	0230	19	Blank	1
"	Udaipur	1730	18	75	25
"	Guna	0530	9	27.9	22.9
"	Nimach	0830	12	4	+4
"	Ratlam	1730	8,9	4.9, 23.	24.9, 23.2
384	Sidhi	1730	8	5.7	25.7
"	Umaria	0830	8	4.4	24.4
"	Umaria	1730	8	4.8	24.8
"	Jabalpur	1130	19	Blank	0
"	Ambikapur	0830	14	+1.3	+1.1
"	Mandla	1730	10	Not clear	28.6
385	Kanker	0830	14	0.3	-0.3
"	Surat	1730	4	1001.	1001.1
"	Bhuj (Rudramata)	0230	15	1 .8	11.8
"	Bhuj (Rudramata)	2330	2	0230	2330
"	Kandla (Aerodrome)	1130	11	12	72
386	Surendranagar	0830	5	993.3	993.4
"	Jamnagar Aerodrome	0530	3	23	20
"	Jamnagar Aerodrome	All hours	4	-	Sea level pressure may be reduced by 0.3 mb.
"	Bhira	1730	7,8,9	27.4,26.5,24.8	26.5,24.8,24.0
"	Keshod	All hours	4 & 5	-	Apply a correction of -0.2 mb. to all pressure data.
387	Ratnagiri	0830	1	Ratatanagiri	Ratnagiri
"	Marmugao	0830	1	Maramgao	Marmugao
"	Marmugao	0530	2	5030	0530
"	Poona	1430	9	25.8	20.8
"	Poona	2030	9	25.5	20.5
"	Poona	2330	5	943.6	943.0
"	Miraj	0830	14	+0.4	-0.4
388	Kolhapur	0830	12	+2	+1
"	Aurangabad	0830	3	,,	581
"	Nagpur (Sonegaon)	1730	26	2	3
"	Buldhana	0830	14	+0.9	-0.9
"	Yeotmal	0830	14	+0.1	-0.1
	Kalingpatnam	1730	1	-	*

Contd.4

Page	Item/Station	Hour	Column	For	Read
388	Visakhapatnam	..	1	-	Remove *
"	Foot Note	-	-	(e) Mean of 28 days.	(c) Mean of 28 days.
389	Kakinada	0830	5	0004.1	1004.1
390	Arogyavaram	1730	15	0.1	8.1
392	Shimoga	1730	15	6.4	6.4 (b)
393	Kalimpong	0830	1	Kalimponji	Kalimpong
"	Sikkim	-	1	-	Delete
394	Sub-division Heading	-	-	Trans Himalayan	Trans Himalayan Region.
"	Ginabahar	0830	28	0	..
"	Hirakud	1730	28	2	0
"	Bhimkund	0830	28	0	2

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV to VI :- UPPER AIR DATA						
397	Gangtok	Lat. N	-	-	27°20'	27°03'
398	Agartala	D	0530	0.9	189	198
398	Ahmadabad	D	1730	4.5	166	266
398	Ahmadabad	D	2330	0.9	20	240
398	Ahmadabad	D	2330	2.1	27	247
398	Allahabad	D	0530	4.5	20	220
398	Allahabad	n	0530	7.2	9	29
398	Allahabad	D	1130	0.6	45	245
399	Asansol	v	0530	0.6	35	5.3
399	Asansol	v	2330	5.4	12.0	2.0
401	Bhuj	D	0530	2.1	255	155
401	Bhuj	n	1730	0.15	0	30
402	Bombay	n	0530	7.2	31	30
402	Cochin	v	1730	0.9	10.1	10.0
403	Gadag	D	1730	3.6	27	207
407	Madras	D	1130	5.4	299	239
407	Madras	v	2330	0.9	4.5	5.8
408	Nagpur	n	0530	0.15 a.g.	30	31
408	Nagpur	n	1130	0.15 a.g.	31	30
408	New Delhi	v	1130	3.0	1.5	1.9
409	Poona	D	1730	6.0	1.0	130
410	Tiruchirapalli	D	2330	3.6	271	273
413	Allahabad	Station Name	-	-	LAHABAD	ALLAHABAD/ BAMHRAULI
413	Allahabad	D	1730	14.1	09	092
413	Madras	-	-	-	0530	0530*
416	Allahabad	Surf. Pr.	00 GMT	-	998	988
416	Bombay	Max.	00 GMT	Surf. Pr.	201	301
416	Calcutta	Surf. Pr.	00 GMT	-	1006	1001
417	Srinagar	Min.	00 GMT	100 mb	215	205
418	Trivandrum	Surf. Pr.	00 GMT	-	1003	1000
419	Allahabad	Ht. gpm	12 GMT	1000 mb	-205	-025
419	Bombay	Surf. Pr.	12 GMT	-	100	1000
420	Nagpur	Min.	12 GMT	50 mb	420	204
420	New Delhi	Max	12 GMT	Surf.	3012	312
421	Srinagar	Mean	12 GMT	100 mb	Blank	205.0

Contd.5

Page	Item/Station	Hour	Column	For	Read
AUGUST 1964					
TABLE I - Sub-division					
425	31 Arabian Sea Islands	-	9	3	6.3
TABLE II					
426	Tezpur	-	12	76.6	-76.6
"	Golaghat	-	12	-76.6	..
"	Chaparmukh	-	1	Chaparmukh	Chaparmukh*
"	Silchar (Kumbhirgram)	-	13	92.2	82.2
"	Bankura	-	18	3.2	3.2(a)
"	Foot Note	-	-	Blank	* Observations for 15 days.
427	Nautanwa	-	17	7.6	6.6
428	Gorakhpur	-	17,18,19	4.5,2.3,-0.9	..,..,..
"	Agra (Aerodrome)	-	23	6	13
"	Pathankot	-	23,24	0,2	15,0
"	Adampur (Aerodrome)	-	10	1.8	58.0
"	Ferozpore	-	17	3.0	3.3
"	Patiala	-	23	5	6
"	Bhatinda	-	17	4.6	2.6
"	New Delhi (Safdarjung)	-	10	116.7	185.4
"	Palam (Aerodrome)	-	9	23	23,24
429	Leh	-	4	26.6	29.6
"	Gulmarg	-	20(b)	9	16
"	Jammu (Aerodrome)	-	22	Blank	0
"	Mahajan	-	5	9	4
"	Jaipur (Sangner)	-	9	74	24
430	Veraval	-	27	0	1
"	Foot Note	-	-	Blank	(a) Mean of 30 days
432	Hyderabad (Begampet)	-	12	-7.7	-77.1
"	Cuddapah	-	7	-0.1	-0.5
433	Fort Cochin	-	10	64.4	64.9
"	Katmandu	-	6	20.1	20.3
"	Katmandu	-	8	18.3	18.5
"	Hazaribagh	-	10	101.8	101.9
TABLE III					
435	Long Island	0830	13	8.5	6.5
"	Digboi	0830	1	Digbal	Digboi
"	Tangla	1730	24	7	3
"	Tezpur	1730	24	Blank	4
436	Gauhati (Bhorjor)	2330	27	Not clear	21
437	Contai	0830	1	Contal	Contai
438	Chandbali	0830	4	999.	999.6
"	Hazaribagh	0830	18	24	25
"	Dhanbad	0830	18	Not clear	24
"	Dhanbad	0830	24	0	5
"	Ranchi Aerodrome	1730	4	995.1	995.8
439	Jamshedpur	0830	13	6.3	6.5
"	Jamshedpur (P.B.0)	0830	5	Not clear	983.7
"	Jamshedpur (P.B.0)	2330	9	24.7	24.9
"	Motihari	0830	6	-18	-1.8
"	Bahraich	0830	15	5.9	9.9
"	Hardoi	1730	10	32.2	33.0
"	Gonda	0830	15,27	3.3, 0	3.2, 7
440	Lucknow (Amausi)	0830	15	13.0	13.9
"	Lucknow (Amausi)	1130	5	934.8	984.8

(C)

Contd.6

Page	Item/Station	Hour	Column	For	Read
440	Lucknow (Amausi)	1430	15	15.0	15.8
"	Gorakhpur (P.B.O)	2330	10	33.2	33.8
"	Kanpur	1730	13	5.2	5.8
"	Sultanpur	0830	13	5.1	5.5
"	Azamgarh	0830	13,15	7.0, 9.0	6.5, 8.7
"	Azamgarh	1730	13,15	6.0, 5.0	5.4, 5.4
"	Banda	1730	13	2.1	5.3
441	Bareilly P.B.O	2030	8	26.6	26.8
"	Halwara (Aerodrome)	0830	15	2.8	9.7
442	Ambala P.B.O	2030	4,11	997.7, 84	996.7, 83
"	Ambala P.B.O	2330	11	83	84
"	New Delhi (Safdarjung)	0830	13	4.0	6.0
"	New Delhi (Safdarjung)	2330	15	8.3	5.1
"	Mandi	0830	8	30.0	23.0
"	Leh	0830	6	..	+0.2
"	Leh	1730	13	2.3	3.3
"	Foot Note	-	-	(f) Mean of 2 days	(f) Mean of 25 days
"	Srinagar	2030	1	2030*	2030
443	Srinagar Aerodrome	0830	4	1420.1	1422.0
"	Jammu Aerodrome	0830	15	3.6	5.6
"	Jammu Aerodrome	1730	8	26.8	26.6
"	Erinpura (Jawai Dam)	0830	5	961.3	967.5
"	Erinpura (Jawai Dam)	1730	4 to 27	Read as 997.9, 965.2, .., 28.8, 25.3, 23.7, 29.3, 75, .., 6.7, .., 3.7, 0,0, 22, 0, 0, 0, 4, 13, 5, 0, 0, 9.	
444	Alwar	0830	10	30.0	30.7
"	Chambal (Rawat Bhatta Dam)	0830	5 to 27	Read as 961.3, .., 26.3, 24.8, 24.2, 30.2, 88, .., 5.8, .., 6.1, 0, 0, 29, 2, 1, 0, 0, 2, 9, 7, 8, 2	
"	Chambal (Rawat Bhatta Dam)	1730	4 to 27	Read as 997.1, 958.7, .., 28.9,25.9, 24.7, 31.1, 79, .., 5.6, .., 7.7, 0, 0, 30, 1, 1, 0, 2, 7, 8, 4,7, 1	
"	Udaipur	0530	4	959.7	999.7
"	Sheopur	0830	21,22	3, 2	1, 3
445	Indore	1130	16	1	0
"	Seoni	0830	3	6	619
"	Khandwa	0830	3	8	318
"	Jubbalpur	0530	15	.1	4.1
446	Mandla	0830	8	39.9	23.9
"	Broach	0830	6	-1.6	-1.8
"	Surat	0830	14	+ .6	+0.6
447	Bhuj (Rudramata)	0830	20	1	0
"	Bhuj (Rudramata)	1430	20,23	0, 1	1, 0
"	Jamnagar (Aerodrome)	0530	3	3	20
"	Jamnagar (Aerodrome)	All hours	4	-	Sea level pressure may be reduced by 0.3 mb.
"	Jamnagar (Aerodrome)	0830	6,14	-.1, -1.7	-2.1, +1.7
447	Keshod	All hours	4 & 5	-	Apply a correction of -0.2 mb. to all pressure data.
"	Veraval	0230	16	0	1
"	Veraval	0530	16	1	0
"	Veraval	0830	14	-0.3	+0.3
448	Veraval	2030	11	83	88
"	Bombay (Santacruz)	0230	3	15	14
"	Bombay (Santacruz)	2030	4	1013.7	1003.7
"	Bombay	0830	18	26	20

(C)

Contd.7

Page	Item/Station	Hour	Column	For	Read
448	Vengurla	0230	3	39	9
"	Vengurla	1130	10	0.9	30.9
448	Panjim	1130	15	12.3	17.8
449	Gondia	0830	1	Gondi	Gondia
450	Rentachintala	0830	9	24.3	21.3
451	Anantapur	1130	7	18.5	28.5
"	Madras	0230	-	-	Observations refer to Madras (Minambakkam).
452	Nagapattinam	0830	12	..	0
"	Tiruchirapalli	2030	7	Not clear	28.7
"	Atirampattinam	1730	5	1003.5	1003.4
"	Madurai	0830	26	1 1	11
453	Gadag	2330	25	34	24
"	Bellary	1730	19	9	0
"	Bangalore Aerodrome	1130	3	5	,,
454	Trivandrum	0230	7	..	24.4
"	Kohima	1630	1	Blank	**
"	Foot Note	-	-	Blank	** 1630 hours observations were taken due to Curfew.
455	Kodaikanal	1130	5	269.7	769.7
"	Katmandu	1730	7	4.0	24.0
456	Angbung	1730	1	-	~~1~~
"	Barahkshetra	0830	1	Barahkshetrat	Barahkshetra

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV to VI :- UPPER AIR DATA						
459	Agartala	V	0530	9.0	1.30	13.0
460	Asansol	v	0530	3.0	.6	0.6
463	Calcutta	D	1130	1.5	766	166
465	Gaya	v	2330	0.6	.2	4.2
465	Gorakhpur	V	0530	2.1	8.	8.9
468	Jodhpur	D	2330	5.4	185	105
468	Madras	D	1130	4.5	5264	264
470	Raxaul	D	1730	0.9	17	107
471	Tiruchirapalli	D	1730	0.6	20	270
471	Trivandrum	v	1130	0.15 a.g.	6.1	6.2
471	Trivandrum	v	2330	2.1	7.2	7.9
472	Veraval	D	0530	0.9	359	259
474	Allahabad	v	1730	12.0	12.5	12.0
474	Allahabad	V	1730	14.1	15.0	15.5
474	Begumpet	Ht	0530	12.0	21.0	12.0
474	Begumpet	Time	0530	-	05500	0530
474	Begumpet	v	0530	12.0	29.0	20.0
474	Begumpet	Ht	0530	14.1	Blank	14.1
474	Gauhati	-	-	-	0530	0530*
475	Port Blair	D	0530	16.2	077	086
475	Port Blair	D	0530	18.0	086	089
475	Port Blair	D	0530	21.0	089	077
475	Port Blair	v	0530	24.0	16.5	16.3
475	Srinagar	D	0530	21.0	282	082
475	Visakhapatnam	V	0530	14.1	30.8	30.7
477	Ahmadabad	Ht gpm	00 GMT	800 mb	19445	1944

Contd.8

Page	Station	Item	Hour	Level	Wrong entry	Correct entry
477	Ahmadabad	Min	00 GMT	80 mb	194	195
477	Bombay	Ht gpm	00 GMT	60 mb	19973	19873
478	Jodhpur	Mean	00 GMT	200 mb	223.7	228.7
478	Srinagar	Ht gpm	00 GMT	125 mb	15441	15541
479	Visakhapatnam	No.of Obsn.	00 GMT	50 mb	1	14
479	Visakhapatnam	No.of Obsn.	00 GMT	40 mb	Blank	6
480	Ahmadabad	Ht gpm	12 GMT	100 mb	014	- 014
480	Allahabad	Min	12 GMT	700 mb	265	285
480	Allahabad	Td	12 GMT	600 mb	278.4	276.4
480	Bombay	Surf. Pr.	12 GMT	-	100 mb	1001 mb
480	Bombay	Min	12 GMT	700 mb	80	280
480	Gauhati	Ht gpm	12 GMT	1000 mb	015	- 015
480	Gauhati	Td	12 GMT	600 mb	275.5	275.4
482	Trivandrum	Mean	12 GMT	60 mb	218.0	208.0

Page	Item/Station	Hour	Column	For	Read
SEPTEMBER 1964					
Text Portion - Chief Features					
483	14 Line	-	-	Gondia	Gonda
Table II					
486	Digboi	-	10	52.2	55.2
"	Majbat	-	18	3.7 (c)	3.7 (c)
"	Golaghat	-	11	181.3 (R)	181.3 (f)
"	Golaghat	-	17	4.4 (f)	4.4 (1)
"	Rangia	-	18	4.5	4.5 (c)
"	Foot Note	-	-	(i) Mean of 19 days	(1) Mean of 19 day
487	Calcutta (Dum Dum)	-	6	25.0	26.0
"	Calcutta	-	3	+1.2	+0.2
"	Contai	-	19	-0.2	+0.2
"	Baripada	-	14	14	24
"	Jharsuguda	-	1	Jharsuga	Jharsuguda
"	Keonjhargarh	-	8	21.3	21.8
"	Keonjhargarh	-	18	1.4	5.4
"	Balasore	-	1	Not clear	Balasore
"	Balasore	-	11	271.6	371.6
"	Angul	-	4	34.3	33.3
"	Phulbani	-	10	88.8	88.7
"	Puri	-	19	+3.6	+3.9
"	Dalgongunj	-	23	1	4
"	Dhanbad	-	17,18	4.1, 4.5 (f) (i)	4.1, 4.5 (f) (i)
"	Jamshedpur P.B.O	-	18	3.3	5.3
"	Muzaffarpur	-	11	78.8	74.8
"	Chapra	-	18	4.2	4.6
"	Dehri	-	14	4	3
"	Bahraich	-	20 (b)	15	16
488	Gorakhpur	-	20(a), 20(b)	2,16	3,15
"	Kanpur	-	10	119.2	119.9
"	Kanpur (Aerodrome)	-	20(b)	12	13
"	Varanasi	-	11	276.8	276.6

(C)

Contd.9

Page	Item/Station	Hour	Column	For	Read
488	Ambala	-	10	188.8	87.8
"	Ambala Aerodrome	-	20(b)	12	11
"	Hissar	-	9	29	29,30
"	New Delhi/Safdar jung	-	10	55.4	126.1
489	Gulmarg	-	20(b), 22	8, Blank	12, 0
"	Jammu	-	7	= 2.0	-2.0
"	Jammu Aerodrome	-	6	23.4	23.3
"	Ganganagar	-	9	36,30	26,30
"	Mahajan	-	17	6.9	..
"	Jodhpur	-	14	10	20
"	Sikar to Kota	Data shifted enblock upwards by one station. Therefore data printed against Pilani (R) refers to Sikar and so on upto Kota.			
"	Bhopal (Bairagarh)	-	24	1	0
490	Porbandar Aerodrome	-	8	12.9	21.9
491	Heading format	-	28	Blank	Squall
"	Khandala	-	13	78.0	178.0
"	Nander	-	18	6.5 (c)	6.5 (c)
"	Gondia	-	11	141.1	141.4
"	Bramhapuri	-	21	Blank	0
492	Nizamabad	-	11	300.3	300.8
"	Hyderabad (Begampet)	-	24	5	0
"	Vellore	-	12	44.9	-44.9
"	Madurai	-	14	20	3
"	Mangalore (Bajpe)	-	24	Blank	1
"	Mangalore	-	9	15,16	15,16,28
"	Bijapur	-	4	32.0	32.9
493	Kohima	-	6	19.	19.1
"	Shillong	-	10,17,19	167.0,1.6,+1.3	167.0 (b), 1.6 (b), -1.3
"	Cherrapunji	-	20(a) and 21 to 29	0	..
"	Cherrapunji	-	1	Cherrapunji	Cherrapunji (R)
"	Abu	-	24	0	2
"	Pachmarhi	-	10	1 3.4	143.4
"	Marcara	-	22	1	0
"	Ootacamund (R)	-	20(a)	0	..
"	Kodaikanal	-	20(a)	0	7
"	Foot Note	-	-	Register nolived	Register Not received.
"	Katmandu	-	6	18.5	18.7
"	Katmandu	-	8	16.3	16.5
494	Heading format	-	14	Blank	Date
"	Maithon	-	11	180.4	170.4
"	Timure	-	2	2 .8	24.8
"	Pokhara	-	11	58.5	558.5
"	Gorkha	-	15	16	14
"	Dadeldhura	-	15	10	14
TABLE III					
495	Port Blair	0830	5	994.7	999.7
"	Digboi	1730	4	1903.6	1003.6
"	North Lakhimpur	1730	9	25.5	25.6
"	Golaghat	1730	15	0.8	0.8 (g)
"	Foot Note	-	-	Add "(g) Mean of 24 days."	
496	Gauhati	0830	15	2.4	--
"	Gauhati (Bhorjor)	0230	15	1.9	2.4

Contd.10

Page	Item/Station	Hour	Column	For	Read
496	Gauhati(Bhorjor)	0530	15	4.5	1.9
"	Gauhati(Bhorjor)	0830	15	7.9	4.5
"	Gauhati(Bhorjor)	1430	15	5.1	7.9
"	Gauhati(Bhorjor)	1730	2,15	1 30,2.1	1730, 5.1
"	Gauhati(Bhorjor)	2030	15	1.6	2.1
"	Gauhati(Bhorjor)	2330	15	3.8	1.6
"	Dhubri(Rupsi)	0530	15	5.4	3.8
"	Dhubri(Rupsi)	0830	15	6.5	5.4
"	Dhubri(Rupsi)	1130	15	3.6	6.5
"	Dhubri(Rupsi)	1730	15	6.0	3.6
"	Dhubri	0830	15	1.0	6.0
"	Dhubri	1730	15	1.3	1.0
"	Lumd ing	0830	15	2.7	1.3
"	Lumding	1730	15	1.8	2.7
"	Tura	0830	15	2.1	1.8
"	Tura	1730	15	7.8	2.1
"	Haflong	0830	15	6.2	7.8
"	Haflong	1730	15	5.5	6.2
"	Jalpaiguri	0830	12	+	+2
497	Asansol	1430	25	Blank	2
"	Krishnanagar	0830	8	27.4	27.1
"	Purulia	0830	6	0.5	-0.5
"	Barrackpore Aerodrome	0530	25,26	4,0	0,1
"	Barrackpore Aerodrome	0830	6,11,25,26	-1.0,84,1,0	-0.1,83,4,1
"	Barrackpore Aerodrome	1130	26	0	1
"	Calcutta(Dum Dum)	0230	12	-8	..
"	Calcutta(Dum Dum)	0530	19	3	0
"	Calcutta(Dum Dum)	1130	12	+9	..
"	Calcutta(Dum Dum)	1730	12	-3	..
"	Midnapore	0830	14	-1.3	-0.3
"	Contai	0830	14	-.9	-0.9
"	Sagar Island	0830	6	...1.4	-1.4
"	Sandheads	0830	14	+.9	+0.9
"	Sandheads	1130	11	4	74
"	Sandheads	1130	16	Blank	0
"	Sandheads	1130	22,23	Blank, 6	8,4
"	Sandheads	1130	27	1	0
498	Jharsuguda	1130	11	77	73
"	Keonjhargarh	0830	10	23.1	27.1
"	Chandbali	1730	21	Blank	7
"	Titalagarh	0830	7	27.1	27.4
"	Bhubaneshwar	1730	16,28	..,..	0,0
"	Bhubaneshwar	2330	16,28	..,..	0,0
499	Chapra	0830	5	997.4	997.9
"	Purnea	0830	7	29.1	28.1
"	Jamui	0830	4	1015.0	1005.0
"	Jamui	1730	11	98	88
"	Dehri	1730	8	20.3	26.3
"	Gaya	0230	5	999.7	989.7
"	Gaya	0530	27	1	15
"	Gaya	1730	5	938.1	988.1
"	Kheri	0830	8	22.1	25.1
"	Bahraich	0830	6,8	+0.5, 15.4	-0.5, 25.4
"	Nautanwa	0830	4	1013.7	1003.7
"	Nautanwa	1730	5,20	989.3,4	989.4, 1
500	Lucknow Amausi	1430	3,10	126, 30.1	,,, 30.0
"	Gorakhpur P.B.O	0530	13	5.3	5.0
"	Gorakhpur P.B.O	2330	5	994.1	994.4
"	Kanpur	0830	5	908.9	988.9

Contd.11

Page	Item/Station	Hour	Column	For	Read
500	Fetahpur	1730	5	998.0	988.0
"	Varanasi (Babatpur)	0530	5	993.6	993.4
"	Varanasi(Babatpur)	1130	10	31.8	31.9
"	Varanasi(Babatpur)	1730	15	6.3	6.0
501	Dehra Dun	0530	15	1.3	1.0
"	Dehra Dun	1130	5	929.2	929.9
"	Dehra Dun	2330	7	23.9	23.0
"	Najibabad	0830	15	4.1	4.0
"	Mainpuri	0830	6	2.1	-2.1
"	Mainpuri	1730	5,20,21	982.4, 04,01	982.9, 4, 1
"	Agra Aerodrome	0230	8	24.3	24.5
"	Jhansi	0830	15	4.8	1.6
"	Pathankot	0830	10	25.8	26.4
"	Adampur Aerodrome	1730	21	Blank	2
502	Chandigarh	1730	9	21.1	22.1
503	Leh	0530	10	4.8	4.5
"	Leh	0830	15	2.7	4.2
"	Srinagar	1130	10	16.2	16.1
"	Srinagar	1430	10	16.5	16.6
"	Jammu	0830	8	23.3	22.3
504	Jodhpur	1730	7	33.0	33.5
"	Erinpura(Jawai Dam)	0830	28	2	0
"	Kota Aerodrome	1730	18	2	26
"	Kota	1730	28	3	0
"	Udaipur	0830	20	01	1
"	Udaipur	2330	14	-1.1	delete
"	Jhalwar	0830	13,14	Blank, ..	2.7, -1.1
"	Jhalwar	1730	13	4.	4.2
506	Sidhi	0830	3	272	* 272
"	Foot Note	-	-	Add " * Provisional Height".	
507	Jamnagar Aerodrome	0530	3	23	20
"	Jamnagar Aerodrome	All hrs.	4	-	Sea level pressure may be reduced by 0.3 mb.
"	Keshod	1730	2	0	1730
"	Keshod	All hrs.	4 & 5	-	Apply a correction of -0.2 mb to all pressure data.
"	Mahuva	0830	2	0	0830
"	Mahuva	1730	17	1	0
510	Nellore	0830	12	--	+6 (delete this value against 1130 hrs.)
511	Khammam	1730	15	3.7 (b)	3.7 (b)
"	Tambaram Aerodrome	0830	1	Tambarhm	Tambaram Aerodrome
513	Agumbe	0830	1	Ahuhe	Agumbe
514	Badrinath	0830	1	-	(R)
"	Joshimath	0830	1	0830(R)	0830
"	Foot Note	-	-	‡‡	‡‡
516	Foot note	-	-	Da a included under Nepal	* Data included under Nepal.
517	Foot note	-	-	* Observations for 36 days.	* Observations for 25 days.

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Page	Station	Item	Hour	Level	Wrong entry	Correct entry
TABLES IV to VI :- UPPER AIR DATA						
519	Lucknow	Date of opening	-	-	28th	20th
522	Bangalore	D	1730	7.2	07	070
523	Bhuj	D	2330	5.4	05	035
528	Jodhpur	v	1130	3.6	1.	1.5
528	Jodhpur	D	1130	3.6	56	156
529	Mangalore	D	2330	0.3 a.m.s.l	300	310
530	Minicoy	D	1130	7.2	267	157
530	Nagpur	D	0530	7.2	167	107
530	New Delhi	D	0530	4.5	373	273
533	Udaipur	n	1730	5.4	16	14
533	Veraval	n	2330	1.5	29	27
533	Veraval	n	2330	2.1	27	25
535	Bombay	D	1730	16.2	082	085
535	Gauhati	V	0530	16.2	16.9	6.9
535	Jodhpur	-	1130	-	1130* hr.	1130 hr.
536	Mangalore	Station name	-	-	MANGALO	MANGALORE
536	Mangalore	-	1730	-	1730* hr.	1730 hr.
536	Nagpur	V	0530	14.1	13.7	14.4
536	Nagpur	n	0530	21.0	Blank	3
536	Nagpur	V	0530	21.0	.0	15.0
536	Nagpur	v	0530	21.0	4.9	14.9
536	Nagpur	-	1730	-	1730 hr.	1730* hr.
536	New Delhi	V	1730	18.0	8.2	8.3
536	Raipur	-	0530	-	0530* hr.	0530 hr.
536	Trivandrum	v	0530	10.5	14.5	14.0
536	Visakhapatnam	-	1130	-	1130* hr.	1130 hr.
538	Bombay	Ht. gpm	00 GMT	150 mb	14290	14296
538	Gauhati	Surf. pr.	00 GMT	-	1009 mb	999 mb
539	Nagpur	Td	00 GMT	800 mb	86.5	286.5
539	New Delhi	Mean	00 GMT	80 mb	199.4	199.5
541	Calcutta	Mean	12 GMT	300 mb	240.5	246.5

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

JULY

Published by authority of the Government of India

Chief features :—

(i) Sustained monsoon activity over practically the entire country;

(ii) Spells of heavy rains in the Himalayas leading to floods in the adjoining States;

(iii) An unusual spell of good rainfall in the Madras State and Andhra Pradesh; and

(iv) Formation and movement of Bay depression during the first week.

The low pressure area which was lying over Bihar Plateau and neighbourhood on the last day of June moved westwards and merged into the seasonal low over Rajasthan by 3rd. Another low pressure area appeared over the head Bay of Bengal on 2nd and intensified into a depression by the next morning with centre near Lat. 21°N and long. 89.5°E. Moving in a northwesterly direction it crossed coast near Contai by the evening of 4th and lay over west Uttar Pradesh on 7th. It weakened and merged into the seasonal low by the next day. Under their influence, the monsoon extended further northwards to cover the entire country by 5th. The monsoon activity was also well maintained over most parts of the country during the first week, being particularly strong over the central belt of the country from Orissa to Gujarat State and over the Konkan and Kerala. Some of the noteworthy amounts of rainfall recorded were : Jhansi 8 cm and Mahabaleshwar 15 cm on 1st, Bhopal 19 cm and Khandala 17 cm on 2nd, Calicut 13 cm on 3rd, Puri 19 cm Palghat 16 cm and Fort Cochin 13 cm on 4th, Sambalpur 31 cm, Titlagarh 15 cm and Raipur and Raigarh 13 cm each on 5th, Bhira 42 cm, Khandala 33 cm, Mahabaleshwar, Jalpaiguri and Darjeeling 22 cm each and Dahanu 14 cm on 6th, Broach 22 cm and Surat 21 cm on 7th and Jhalawar 14 cm on 8th.

The axis of the monsoon trough shifted to the north of its normal position and lay close to the foot of the Himalayas on most of the days during the period 8th to 18th. In association with it, the monsoon activity was more marked over north India with heavy to very heavy rains occurring at a number of places in the Himalayas and adjoining plains. Some of the noteworthy amounts of rainfall were : Siliguri 14 cm on 9th, Chaibasa 20 cm, Sagar Island and Agra 18 cm each, Rangiya 17 cm, Dehra Dun 16 cm, Contai 15 cm and Gorakhpur 14 cm on 10th, Nainital 13 cm on 15th and Motihari 19 cm on 18th. According to press reports, the Brahmaputra in Assam, the Bagamati, the Kamla and the Ganga in North Bihar, the Jumna near Delhi and the Beas and Markanda in the Punjab (I) rose in spate due to the heavy rains and flooded low lying areas. Standing crops over vast areas were damaged and a number of villages were also affected. The monsoon was weak to moderate over the remaining parts of the country during the above period. A few heavy falls of rain, however, occurred along the west coast, some of them being : Mangalore 12 cm on 10th, Panjim (Goa) 13 cm and Goa 12 cm on 11th and Goa 25 cm, Panjim (Goa) 16 cm, Karwar 13 cm and Bhira 12 cm on 12th.

A low pressure area developed over Orissa and southeast Madhya Pradesh on 20th. It moved westnorthwestwards to south Rajasthan and merged into the seasonal low by 22nd. Under its influence, the rainfall increased over the central parts of the country, Gujarat State and over the Peninsula outside the west coast where a few heavy showers also occurred. Masulipatam recorded 12 cm of rain on 19th, Bidar 11 cm on 20th and Veraval, Rajkot, Alleppey and Arogyavaram 8 cm each on 21st. According to press reports, the flood waters of the Morna river inundated low lying areas in Akola district and washed away standing crops over an area of about 5,000 acres.

The axis of the monsoon trough shifted again northwards to the foot of the Himalayas from 22nd. But its eastern half moved abruptly south to Orissa on 24th when a low pressure area formed over Vidarbha. The low pressure area moved slowly northwestwards to the Punjab (I) where it weakened and became unimportant by 30th. Under its influence the monsoon activity was sustained except over the west coast where the monsoon was weak during the last week. Some of the heavy

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falls of rain recorded in north and central India during this period were : Nanital 21 cm on 23rd, Darjeeling 21 cm, Dehra Dun 19 cm and Nainital 14 cm on 24th, Pasighat 16 cm and Abu 13 cm on 26th and Agartala 19 cm on 31st.

A trough of low pressure moving from the east entered the south Bay of Bengal on 23rd and persisted there till 25th. Later it became well marked and moved into the extreme south peninsula on 29th but weakened and became unimportant by 31st. Under its influence there was an unusual spell of good rainfall over the Madras State and Andhra Pradesh during the last week. Salem and Tiruchirappalli recorded 7 cm of rain each on 26th, Adirampattinam 9 cm on 27th, Madurai, Anantapur and Coimbatore 7 cm each on 28th, Kallakuruchi 8 cm on 29th and Bijapur 18 cm and Bangalore 11 cm on 30th. The monsoon activity began to revive along the west coast towards the end of the month. Fort Cochin reported 7 cm of rain and Alleppey 8 cm on 29th and Honavar 14 cm on 30th.

The total rainfall during the month was in moderate defect in east Rajasthan and Vidarbha, in slight defect in west Madhya Pradesh, Saurashtra and Kutch, the Konkan, Telangana and coastal Mysore and normal in the Bay Islands, Bihar Plateau, east Madhya Pradesh, Madhya Maharashtra and coastal Andhra Pradesh. It was in slight excess in Assam, east Uttar Pradesh and Marathwada and in moderate excess in Gangetic West Bengal, Orissa, Bihar Plains, Jammu and Kashmir, Gujarat Region, Interior Mysore and Kerala. It was in large excess over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was below normal in the Punjab(I) and Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in Bihar Plateau, Uttar Pradesh, the Punjab(I) and Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Punjab(I), west Rajasthan Rayalaseema, in the Madras State and north Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in north Interior Mysore and the Arabian Sea Islands and normal over the rest of the country out side Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column similarly the heaviest rain fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I. S. T. of the date given in the succeeding column.

POONA 5,

Dated the 6th October, 1965.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	445.7	115	30.8	23.9	87	82	6.6	6.4
	+57.0		−0.4	−0.8	+2		−0.1	
2. West Bengal	544.8	140	31.2	25.1	86	85	6.4	6.4
	+154.8		−0.5	−0.8	+2		−0.1	
3. Orissa	441·9	130	31.0	24.7	86	83	6.7	6.9
	+109.7		−0.1	−1.0	+3		+0.6	
4. Bihar	396·0	122	31.3	24.3	85	80	6.8	6.6
	+71·4		−0.6	−1·2	+3		+0.7	
5. Uttar Pradesh	428·5	136	32.8	25.0	84	75	6.0	6.[illegible]
	+112·6		−0.7	−1.2	+4		+0.6	
6. Punjab (India) (Including Himachal Pradesh and Delhi.)*	432.3	164	33.2	24.7	81	69	5.3	4.7
	+168.1		−2.2	−1.4	+7		+0.3	
7. Jammu and Kashmir.	127.7	126	26.9	14.7	65	63	4.4	3.9
	+26.3		−1.2	−1·7	−4		+0.7	
Sub-Division								
1. Bay Islands	354.3	90	29.8	23.3	83	86	6.7	7.1
	−37.6		+1.0	−0.6	−1		+0.1	
2. Assam (Including Manipur, Tripura).	445.7	115	30.8	23.9	87	82	6.6	6.4
	+57·0		−0.4	−0.8	+2		−0.1	
3. Sub-Himalyan, West Bengal.	964·9	156	30.5	24.5	90	85	7.1	6.4
	+352·7		−1.0	−0.9	+5		+1.0	
4. Gangetic, West Bengal.	424·8	131	31.4	25.2	85	85	6.3	6.4
	+100.8		−0.4	−0.7	+2		−0.4	
5. Orissa	441·9	130	31·0	24.7	86	85	6.8	6.9
	+100·7		−0.1	−1.0	+3		+0·6	
6. Bihar Plateau	323·9	92	30.8	22.8	82	80	6.9	6.8
	+26.3		−0.4	−1.9	−1		+0.5	
7. Bihar Plains	428.8	137	31.7	25.5	87	81	6.8	6.5
	+115·8		−0.7	−0.6	+5		+0.8	
8. Uttar Pradesh, East.	374·8	117	32.8	25.3	85	76	6.4	6.3
	+53·2		−0.5	−1.1	+4		+0·8	
9. Uttar Pradesh, West.	509·1	166	32.7	24.5	83	73	5.5	5.8
	+201·7		−0.9	−1.4	+5		+0.2	
10. Punjab (India) (Including Delhi).	432·3	164	33.2	24·7	81	69	5.3	4.7
	+168·1		−2.2	−1.4	+7		+0·8	
11. Himachal Pradesh.	357·1	..	31.6	17.3	85	75	3.2	3.6
	..		..	..	..		..	
12. Jammu and Kashmir.	127.7	126	26·9	14.7	65	63	4.4	3.9
	+26.3		−1.2	−1·7	−4		+0.7	
13. Rajasthan, West	178.5	217	36.3	26.5	82	59	4.3	4.3
	+96.2		−1·0	−0.8	+13		+0.2	
14. Rajasthan, East	153·2	68	33.2	25.0	77	63	5.9	6.4
	−73.0		−0.1	−0·4	+2		+0.5	
15. Madhya Pradesh (West.)	280·5	81	30.9	23.6	87	74	6·8	7.0
	−64·7		+0.3	−0.2	+2		+0.2	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—contd.								
8. Rajasthan	165.8	188	34.6	25.7	79	62	5.2	5.4
	+11.6		−0.5	−0.6	+7		+0.4	
9. Madhya Pradesh	334.1	88	30.5	23.5	86	76	6·8	7.1
	−45.4		+0.1	−0.2	+2		+0.2	
10. Gujarat State	307.8	[illegible]	[illegible]	[illegible]	88	77	6·1	6.3
	+56.[illegible]		−0.4	−0.3	+4		−0.3	
11. Maharashtra State.	389.2	[illegible]	30.[illegible]	2[illegible]	86	74	6.6	7.1
	−64.[illegible]		+0.3	0	[illegible]		−0.1	
12. [illegible] Pradesh	130.[illegible]	169	[illegible]	[illegible]	80	66	6.1	6.3
	+44.9		−0.1	−0.1	+4		−0·2	
13. Madras State	150.1	282	33.5	[illegible]	72	63	5.7	6.0
	+96.8		−0.9	−0.5	+6		+0·9	
14. [illegible]	321.0	101	28.5	21.6	88	75	7.0	7.2
	+15.6		+0.2	0.3	+5		+0.5	
15. [illegible]	743.9	13[illegible]	28.5	23.1	93	87	7.2	7.2
	+205.7		−0.2	−0.3	[illegible]		+0.3	
Sub-Division—Contd.								
16. Madhya Pradesh (East).	303.1	92	30.0	23.5	85	79	6.9	7.2
	−20.[illegible]		0	−0.2	+2		+0.2	
17. [illegible] Region	193·2	114	31.4	24.9	89	75	6.8	6.4
	+[illegible]		−0.5	0·3	+3		0	
18. [illegible] and Kutch.	201·8	89	31.9	25.8	87	78	5.7	6.3
	−26.6		−0·3	−0.3	+4		−0.5	
19. [illegible]	700·7	85	29.[illegible]	24.4	89	86	6.9	7.2
	−138.9		+0.1	0	+3		−0.4	
20. Madhya Maharashtra.	296·9	93	30.4	22.[illegible]	85	69	6.6	7.1
	−21·7		+0.6	−0.1	+4		+0.2	
21. Marathwada	248.5	116	30.9	22.3	83	68	6.5	7.1
	+30.5		0	+0.1	+5		−0.2	
22. Vidarbha	249·1	71	30.9	23.6	85	72	6.5	6.9
	−89.[illegible]		+0.2	0	+2		−0.1	
23. Coastal Andhra Pradesh.	161.5	109	33.0	25.7	80	68	6.1	6.2
	+13.1		−0.4	−0.2	+4		−0.1	
24. Telangana	298.3	89	32.0	24.0	82	67	6.3	6.5
	−26.9		+0.6	+0·1	+5		+0.1	
25. Rayalaseema	181.1	196	33.2	24.2	77	58	5.7	6.1
	+88.6		−0·5	−0.3	+7		−0.6	
26. Mysore State	150·1	282	33.5	24.8	72	63	5.7	6.0
	+96.8		−0.9	−0.5	+6		+0.9	
27. Coastal Mysore	802.2	78	28.6	23.6	92	86	7 6	7.6
	−220.2		+0.3	−0 1	+2		+0.4	
28. Interior Mysore, North.	244.9	142	29.4	21.7	87	71	7.3	7.4
	+72.4		−0.2	+0.4	+6		+1.3	
29. Interior Mysore, South.	295·1	130	27.7	20.6	88	72	6.5	6.8
	+67.9		+0·5	+0.1	+5		−0.3	
30. Kerala	743.9	138	28.3	23.1	93	87	7.2	7.2
	+203.7		−0.2	−0.3	+4		+0·3	
31. Arabian Sea Islands.	407.0	155	29.1	24.7	85	83	7.5	7·5
	+144.5		−0.5	−0.5	+5		+1.8	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0 or 0·2 mm)	Weather phenomena—No. of days with: Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Linesquall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	30·3	..	31·7	22,28	24.5	..	22.9	30	148·9	272·7	..	58.8	3	16	..	11·0	8.7	..	0	21	0	0	12	0	0	0	0	0	0
Long Island	30·3	..	31·9	17	24.0	..	22.2	30	112.4	232·3	..	50·0	3	15	..	7·5	4.8	..	1	21	0	0	6	0	0	0	0	0	0
Port Blair	29·8	+1·0	31·3	22	23.3	—0·6	21.5	20	142.3	354·3	−37.6	166·0	20	14	−6·5	16.8	12.5	−13.1	3	22	0	0	12	0	0	0	0	1	0
Car Nicobar	29·7	..	31·6	12	23.9	..	21·9	26	136.9	330·3	..	92·0	20	17	..	6.1	3.6	..	0	20	0	0	6	0	0	0	0	0	0
Nancowry	29 5	..	31·2	27	24.8	..	22·8	22	94·5	161.3	..	21·4	22	14	..	7·6	6.5	..	1	20	0	0	5	0	0	0	0	1	0
Kondul	28·4	..	29·7	3	24.5	..	23.1	22	160·0	319·1	..	52·4	14	17	..	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	28·7	..	36.7	5	22·0	..	20·2	27	437·4	1506 1	..	160·4	26	27	..	4.1	3·8	..	0	28	0	0	6	0	0	0	0	0	0
Dibrugarh (Mohanbari)	30·8	+0.4	35.9	5	22·3	—1·8	20.8	27	114·2	597·4	+60.9	81·4	26	27	+5.7	4·9	3·9	0	0	29	0	0	16	0	0	0	0	0	0
Digboi*																													
North Lakhimpur	30·8	−0.2	35·8	5	23.2	—1·4	21.8	27	73.5	592·5	−23·3	55·4	18	22	−0.1	9·8	7·1	..	0	26	0	0	12	0	0	0	0	0	0
Sibsagar	32·2	+0·4	36·8	5	25·2	—0 2	23.6	27	82·7	423.0	−33·9	49.8	27	21	+1·3	5.7	5·5	+0·2	0	26	0	0	14	0	0	0	0	0	0
Gohpur	31.3	..	36.6	5	25·1	..	23.3	27	71.2	616.5	..	104.6	27	22	..	5·7	4.1	..	0	24	0	0	3	0	0	0	0	0	0
Majbat	31.3	..	36.1	5	24.5	..	23.0	5	24·0	397·1	..	91·4	31	14	..	10·1	5·9	..	0	16	0	0	5	0	0	0	0	0	0
Jorhat (Aerodrome)	32·5	..	37·0	4	24.8	..	23·8	13	144·2	497.5	..	58.9	11	23	..	..	..	..	0	27	0	0	16	0	0	0	0	0	0
Tangla	31·6	..	37·6	5	24.6	..	21·7	15	159·8	421·6	..	66.6	25	12	..	..	..	..	0	13	0	0	5	0	0	0	0	0	0
Tezpur	30.7	−1·2	33·3	2	25·1	—0·2	23.9	30	58·0	410·6	+62·9	75.2	24	22	+5·1	7·0	4·4	+1·7	0	25	0	0	2	0	0	0	0	0	0
Golaghat	32.6	..	37.6	5	24.4	..	23·4	8	(f) 94.1	364.5	..	61.0	29	20	..	(j) 5.4	(h) 3.9	..	0	24	0	0	0	0	0	0	0	0	0
Rangia	32·6	..	36·8	5	24·8	..	23·4	31	(d) 241·7	(a) 630·6	..	..	..	..	..	(f) 7·8	(h) 5·1	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh (R)					..	..																							
Goalpara	30·8	..	35·1	5	24·0	..	22·7	30	330·8	834.2	..	102.2	9	24	..	4·1	3.1	..	0	24	0	0	0	0	0	0	0	0	0
Gauhati (R)	..	..	..			..	..	..	..	304·6	−7·3	43·0	24	17	+1·7	..	..	..		20	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	31·3	—0·3	35·4	5	25·4	+0.2	23·6	30	121·8	365·2	+53·3	66.5	30	20	+4·7	8.5	5.2	..	0	23	0	0	9	0	0	0	0	0	0
Dhubri (Rupsi)	30.2	..	35·5	5	24·3	..	22.1	5	317·5	992·1	..	144·8	9	26	..	6.0	5.1	..	0	27	0	0	11	0	0	0	0	0	0
Dhubri	30·2	+0.2	34.7	5	25·4	−0·3	23·8	27	243·2	731·2	+294·6	115·0	8	24	+7·9	8·3	7·0	+1·0	0	25	0	0	2	0	0	0	0	0	0
Lumding	33·3	+0·4	37·2	5	23·7	—1.0	22·0	25	46.6	96.7	−96·1	19.8	17	11	−0·5	7·3	4·5	..	0	14	0	0	0	0	0	0	0	0	0
Tura	27·6	..	31·0	5	19·4	..	18·3	31	525·0	1104·8	..	111.7	7	27	..	7·0	6·4	..	0	29	0	0	3	0	0	0	0	0	0
Haflong	26.3	..	30·9	5	20·1	.	19·0	30	95·1	351·1	+50·6	48·6	28	23	+4·1	..	..	..	0	28	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	30·5	..	36·4	4	24·0	..	22·6	30	248·3	755·9	..	101·2	12	25	..	6·4	5·5	..	0	28	0	0	7	0	0	0	0	0	0
Silchar	29.5	−2·8	34·5	4	24·7	−0.4	22·2	7	309·8	684·0	+162·8	74·4	29	26	+3·3	3·4	1.9	−0·8	0	28	0	0	6	0	0	0	0	0	0
Imphal (Tulibal)	28.4	0	30.9	20	20.4	−1.4	19·2	23	54·4	179.2	—73·3	36.4	10	19	+1·3	8·3	6·9	+0·4	0	28	0	0	0	0	0	0	0	0	0
Kailashahar	31.1	..	35.0	4	24.2	..	23·2	30	200·9	376·3	..	54·0	9	23	..	12·2	9·8	..	1	27	0	0	12	0	0	0	0	1	0
Agartala	30·5	−0.7	33·9	1	23·6	—1·2	22·3	30	365·3	613·3	+232·8	190·0	30	17	+0.4	13·5	10.7	+1 2	1	25	0	0	7	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	30·3	—0·7	35·3	4	24.4	−0.3	22·8	6	346·1	1150.4	+301.9	145.4	6	26	+3.1	12·9	11·7	+4·2	0	29	0	0	12	0	0	0	0	0	0
Jalpaiguri	30·0	−1.4	35·4	4	24·4	−0·8	23·4	30,31	226·8	1286.4	+468·0	216.2	6	26	+3·7	8·8	6.9	+3·7	0	27	0	0	4	0	0	0	0	0	0
Cooch Behar	30.3	..	34·4	3,4	24·4	..	23·4	25,30, 31	378·9	1120·5	+333·9	132·0	6	26	+5.5	5·7	4·1	..	0	28	0	0	12	0	0	0	0	0	0
Balurghat	31·3	..	36.6	4	25·2	..	23·6	23	232·2	480·0	..	51·2	14	21	..	10·3	6·5	..	1	26	0	0	1	0	0	0	0	0	0
Malda	31·2	−0·9	34·7	4	24·6	−1·5	22·9	14	291·9	547·7	256+·1	76.6	8	22	+7·2	4·0	3·4	−5·1	0	26	0	0	13	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	31·7	−0·4	34·0	2	25·0	−1·1	23·2	28	236·3	407·5	+131·1	50·0	16	22	+5·9	5·4	4·6	−0.9	0	25	0	0	2	0	0	0	0	0	0
Suri	31.5	..	34·1	4	25·2	..	23·6	12	..	325·6	..	50·8	9	19	..	..	9·2	..	0	24	0	0	0	0	0	0	0	0	0
Asansol	32·3	+0·2	35·2	23	25·1	−0.3	23·6	10	245·3	386·7	+39·0	102.8	24	19	+1·3	9·7	8·9	+0.1	2	24	0	0	15	0	0	0	0	0	0
Santiniketan	31.8	..	33·7	4,23	25.0	..	23·4	31	108·9	291·9	..	60·0	23	16	..	13·0	11.6	..	1	26	0	0	18	0	0	0	0	0	0
Krishnanagar	31·0	−1·2	37.2	6	25·0	−0.9	23·1	31	221·1	413·4	+127·7	58.3	30	20	+3·7	8.0	7.8	+2.0	0	22	0	0	7	0	0	0	0	0	0
Purulia	31.5	—0·2	33.8	6	24·3	−0.7	22·5	25	154·6	262·4	−76·4	58.0	17	17	−1.3	7·6	6.1	+0.1	0	21	0	0	4	0	0	0	0	0	0
Bankura	32.7	..	36.2	4	24.2	..	21·6	10	178·3	413·1	+83·4	70.8	9	17	+1·3	4·0	3·1	..	0	23	0	0	0	0	0	0	0	0	0
Burdwan	31·9	−0·4	34·4	4	25·4	−0·7	20.8	12	323·4	453·3	+128·2	75·6	19	19	+3·0	13·8	11·3	+7·1	0	22	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	31·9	..	34·1	3	25·1	..	22·8	31	219·0	364·4	..	128·0	31	19	..	..	..	..	0	21	0	0	13	0	0	0	0	0	0
Calcutta (Dum Dum)	31.5	−0.3	33·6	4	25·3	−0.8	23·0	31	261·5	550·2	+234·3	89.5	24	20	+1.9	14·8	11·8	0	0	25	0	0	13	0	0	0	0	1	0
Calcutta	31.6	—0·3	34·4	4	25·4	−0.5	23·3	15	226·7	626·1	+300.7	82·5	5	19	+1 5	14·7	8·6	+2·6	0	27	0	0	9	2	0	0	0	3	0
Midnapore	31·5	−0·6	34·4	3	25.2	−0·9	23·0	31	218·2	347·3	+23·7	61·8	10	15	−1·3	10·0	8·2	+4·2	0	22	0	0	0	0	0	0	0	0	0
Contai	30.8	0	34·0	4	25·4	−0.9	21·9	29	201·8	392·4	+89.4	151·2	10	14	−0.8	16.3	12.7	+0.2	0	16	0	0	0	0	0	0	0	0	0
Sagar Island	30·0	—0·8	32·5	4	26·2	−0·5	23·4	29	248·3	420·7	+28·3	182·8	10	15	−1·5	28·8	29·2	+9·7	1	22	0	0	3	0	0	0	0	1	0
Sandheads	30.4	..	32·5	14	26.2	..	23.1	12	48.5	134.8	−143·2	49.8	10	10	—2·7	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	32·4	..	34·4	4·29	24·8	..	22·7	10	212.4	365.8	..	48·2	10	15	..	5·7	4·3	..	2	20	0	0	14	0	0	0	0	0	0

(a) Total of 30 days. (d) Total of 27 days. (f) Total or Mean of 25 days. Mean of 21days. Register not received. (h) Mean of 23 days.

*Temporarily Closed.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Totalfall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hour	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storms	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—																													
Jharsuguda	30·5	—0·4	33·0	28	24·0	—0·6	22·6	11	164·6	590·6	+156·3	109·6	11	23	+4·2	10·9	8·5	—1·1	1	26	0	0	16	0	0	0	0	0	0
Keonjhargarh	29·9	..	33·2	14	23·4	..	21·9	13	112·8	189·4	..	43·0	4	11	..	9·5	8·8	..	0	14	0	0	0	0	0	0	0	0	0
Balasore	31·8	+0·1	33.9	28	24·1	—1·7	21·5	11	247.5	375·4	+75·7	83·9	5	17	+2·9	15·5	12·5	+5·6	0	20	0	0	13	0	0	0	0	0	0
Sambalpur	31·4	+0·7	33·4	9	(n) 24·2	..	..	..	186·3	749·4	+227·2	308·6	5	19	—0·6	(a) 7·6	9·2	+2·9	0	22	0	0	0	0	0	0	0	0	0
Angul	31·7	+0·5	34·1	17, 29	..	..	..	..	106·9	250.0	—66·7	40·0	5	15	—0·2	8·9	8·0	0	0	17	0	0	4	0	0	0	0	2	0
Cuttack	31·5	—0·4	33·7	29	25·2	—0·5	22·2	11	216·2	562·8	+235·4	107·0	2	18	+2·1	9·7	7·5	+3·3	0	20	0	0	6	0	0	0	0	0	0
Chandbali	31·2	0	33·4	3	24·2	—1.4	21.0	11	147·8	267·7	—157·5	53·6	15	17	+0·2	14·2	13·1	+1·7	0	20	0	0	1	0	0	0	0	0	0
Bolangir	32·0	..	40·7	25	23·5	..	20·4	2	119·8	330·7	..	83·8	5	22	..	9·5	8·5	..	0	23	0	0	3	0	0	0	0	0	0
Phulbani	29·6	..	32·4	27	23·1	..	21·7	12	251·0	425·2	..	83·4	16	15	..	4·9	2·9	..	2	17	0	0	7	0	0	0	0	0	0
Titlagarh	31·7	..	34·9	30	25·2	..	22·6	17	214.6	413·6	..	144·8	5	13	..	5·6	4.1	..	1	15	0	0	2	0	0	0	0	0	0
Bhubaneswar	30·7	—0·8	32·7	1	24·7	—0·8	21·9	9	142·2	478·8	+177·3	123·9	4	17	+2·1	20·2	16·2	+0·3	1	24	0	0	11	0	0	0	0	0	0
Puri	30·4	—0·3	32·2	17	25·5	—1·1	22·6	17,24	239.7	456·4	+194·3	186·2	4	15	+3·0	30·9	25·5	+7·3	0	18	0	0	1	0	0	0	0	0	0
Gopalpur	30·2	—0·7	32·1	30	25·4	—0·8	23·6	23	73.7	246·1	+64·2	87·9	4	12	+2·3	23·9	20·4	+6·1	1	16	0	0	6	0	0	0	0	0	0
Koraput (R)	..	..	..	..	..	..	..	..	..	258·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																													
Dumka	31·2	—0·7	33·8	23	25·1	—0·5	22·4	11	132·7	256·2	—92·8	59·0	29	18	0	9·0	5·3	+1·6	0	23	0	0	1	0	0	0	0	0	0
Daltonganj	33·0	+0·2	34·4	9	20·6	—5.0	18·2	14	101·1	334·7	—5·7	49·2	12	17	+1·4	(b) 8·1	(c) 5·9	+0·1	0	20	0	0	10	0	0	0	0	0	0
Hazaribagh	28·9	—0·7	31·1	4	23·0	—0·3	21·5	9	(b) 73.6	(i) 204·7	..	0	..	..	..	10·9	9·2	—0·6	0	..	0	0	10	1	0	0	0	0	0
Dhanbad	31·3	..	33·6	23	24·7	..	23·3	28	240·8	421·6	..	73·2	10	20	..	(b) 8.2	(b) 7·1	..	0	21	0	0	5	0	0	0	0	0	0
Ranchi	27·8	—1·3	31·2	27	19·8	—3·1	18·8	16,19	210·0	360·1	—32·3	90·5	9	17	—1·5	9·0	8·1	+0·1	0	17	0	0	1	0	0	0	0	0	0
Ranchi (Aerodrome)	28·5	..	30·7	31	22·3	..	20·8	15	120·1	237·7	..	42·1	8	16	..	13.5	12·5	..	0	20	0	0	12	0	0	0	0	0	0
Jamshedpur	32·3	+0·5	34·6	4	24·2	—1·7	22·1	31	227·4	452·9	+118·6	90·6	12	16	—1·4	9·3	6·3	—0·5	0	20	0	0	6	0	1	0	0	0	0
Jamshedpur (P.B.O.)	32·0	..	34·6	4	25·4	..	22·9	10	246·8	464·3	..	87·6	12	16	..	9·7	6·5	..	0	20	0	0	17	0	0	0	0	0	0
Chaibasa	31·7	—0·2	33·5	4, 28	24·3	—1·0	22·3	11	66·4	216·2	—116·8	62·2	24	11	—5·2	6·3	4·2	+0·2	0	20	0	0	3	0	0	0	0	0	0
Bihar Plains																													
Motihari	31·5	—0·8	37·8	4	25·4	—0·5	23·1	31	160·9	630·9	+249·9	193.0	18	22	+7·9	3·5	(b) 2·5	—4·7	0	23	0	0	2	0	0	0	0	0	0
Forbesganj	30·8	..	35·9	4	25·4	..	24·2	15	202·2	525·9	..	49·8	30	24	..	10·3	7·5	..	0	25	0	0	9	0	0	0	0	0	0
Darbhanga	31·4	—0·7	36·1	4	25.7	—0·6	23·0	31	141·0	417·6	+109·7	70·3	9	15	+1·1	7·1	7·3	+1·7	0	16	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	648·4	+323·8	161·2	20	19	+5.0	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Chapra	32·3	..	38·3	5	25·6	..	22·9	31	188·4	560·5	+253·9	84·2	10	17	+3·2	6·4	5·5	..	0	20	0	0	3	0	0	0	0	0	0
Purnea	31·2	—0.8	34·6	4	25·0	—0·9	22·7	31	359·1	591.5	+227·8	118·4	9	20	+3·4	8·4	6·4	+2·2	0	25	0	0	1	0	0	0	0	0	0
Patna	32·0	—0·6	37·2	4	26·0	—0·6	23·3	31	84·3	298·1	+4·0	42·6	31	16	+2·3	7·5	(c) 8·1	+1·2	0	21	0	0	1	0	0	0	0	0	0
Patna Aerodrome	31·8	..	35·9	4	24·8	..	22·2	18	147·7	383·9	..	64·1	29	18	..	(j) 7·4	(j) 5·6	..	1	24	0	0	9	0	1	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	95·7	—235·0	21·2	14	14	—0·5	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Bhagalpur	32·1	—0·4	36·1	4	25·4	—0·8	23·0	31	150·8	320·7	+67·7	35·7	31	22	+8·7	7·8	5·9	—0·7	0	24	0	0	14	0	0	0	0	0	0
Sabaur	31·5	—0·9	35·6	4	25·4	—0·9	22.8	31	122·8	294·1	+41.1	31·8	6	20	+4·9	10·0	7·6	—2·1	0	25	0	0	14	0	0	0	0	0	0
Jamui	32·3	..	36·9	5	24·9	..	22·7	27	274·0	474·6	..	57·3	6	17	..	4·3	3·0	..	0	18	0	0	0	0	0	0	0	0	0
Dehri	32·1	..	36·1	4	25·7	..	21·3	10	125·2	485·8	+193·2	77·2	9	19	+4·8	6·5	6·2	..	0	20	0	0	1	0	0	0	0	0	0
Gaya	32·4	—1·0	36·8	3	25·7	—0·2	22·9	19	139·5	373·4	+37·9	80·4	9	14	—1·8	13·1	11·1	+1·9	0	21	0	0	15	0	0	0	0	1	0
Uttar Pradesh (East)																													
Kheri	32·3	—0·4	38·5	4	25.9	0	23·0	31	147·0	273·3	—56·0	53·5	10	13	—0·9	6·8	5.1	+0·9	0	17	0	0	5	0	0	0	0	0	0
Bahraich	32·6	—0·7	39·4	4	26·2	0	25·0	10	184·0	366·2	+55·1	53·4	9	17	+5·1	11·4	9·1	+4·6	0	21	0	0	5	0	0	0	0	0	0
Nautanwa	31·9	..	38·0	5	(n) 23.8	..	..	..	154·1	758·3	..	95·4	23	18	..	6·9	7·0	..	0	21	..	..	..	..	..	..	..	..	..
Hardoi	32·8	—0·8	39·8	4	24·8	—1·8	23·0	29	120·7	379·3	+44·6	66·6	10	15	+3·5	10·5	9.1	+2·0	0	16	0	0	5	0	0	0	0	0	0
Gonda	32·2	—0·7	39·1	5	25·3	—1.0	21·8	19	238·4	534·2	+161·6	106·4	7	19	+5·0	7·7	7·0	+1·0	0	19	0	0	1	0	0	0	0	0	0
Lucknow	32·9	—0·7	39·4	4	24·2	—2·2	21·8	16	182·0	372·2	+67·4	69·0	11	14	+0·6	3·9	3·0	—0·5	0	17	0	0	3	0	0	0	0	0	0
Lucknow (Amausi)	33·1	—0·5	40·7	16	25·1	—0·8	23·2	16	119·3	286·6	—18·2	52·4	10	16	+2·6	15·2	11·5	..	0	23	0	0	12	0	0	0	0	5	0
Faizabad	32·1	..	37·8	4	24·9	..	22·1	19	152·4	420·5	..	70·4	10	18	..	4·8	3·0	..	0	24	0	0	5	0	0	0	0	0	0
Gorakhpur	32·0	—0·7	41·0	4	24·3	—1·9	21·4	31	428·5	765·7	+419·5	138·5	10	21	+6·7	2·0	1·9	—1·8	0	24	0	0	1	0	0	0	0	0	0
Kanpur	33·3	—0·3	39·9	5	25·9	—0·7	23·9	14	144·2	347·6	+74·5	60·0	10	16	+3·5	16·3	11·8	+0·1	0	17	0	0	3	0	0	0	0	0	0
Kanpur (Aerodrome)	33·7	..	40·0	4, 5	26·3	..	22·2	27	165.6	389·9	..	49·5	10	16	..	..	..	..	0	18	0	0	2	0	0	0	6	6	0
Sultanpur	32·6	..	38·0	4, 5	24·8	..	22·4	19	204·4	410·8	..	76·6	10	15	..	6·8	5·6	..	0	15	0	0	5	0	0	0	0	0	0
Azamgarh	32·4	..	38·1	4	25·9	..	24·1	16	..	..	..	..	..	..	..	..	..	..	0	..	0	0	0	0	0	0	0	0	0
Fatehpur	33·3	—0·6	40·0	4	25·5	—1·0	23·9	24,27	146·1	308·9	—9·4	56·3	27	15	+1·1	9·0	6·6	+0·8	0	17	0	0	2	0	0	0	0	0	0
Ballia	32·2	..	37·0	4	21·9	..	18·3	31	143·0	601·2	..	71·6	9	21	..	7·2	6·0	..	0	22	0	0	0	0	0	0	0	0	0
Ba[illegible]a	33·9	..	38·5	5	26·0	..	23·4	10,15	142·7	259·2	..	69·4	24	14	..	4·5	2·8	..	0	21	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	33·5	+0·1	38.2	5	25·4	—1·2	22·6	4	77·3	317·2	—1·8	69.6	13	19	+3·8	8·8	6·3	—1·4	1	21	0	0	13	0	0	0	0	0	0
Varanasi (Babatpur)	32·9	—0·1	37·0	4	25·9	—0·5	24.1	19	69·9	233·3	—112·5	43·8	19	17	+1·9	10·6	8.0	—3·3	0	22	0	0	9	0	0	0	0	0	0
Varanasi	33·2	—0·2	37·2	5	24·8	—1·7	21·5	16	62·4	312·7	+12·7	99·2	16	13	—1.3	9.8	6·9	+1·3	0	14	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	23·1	..	29·6	22	16.8	..	15.5	30	94·8	437·3	..	86·9	24	31	..	..	..	..	0	24	0	0	2	24	0	0	0	0	0
Tehri	32·3	..	38·0	2	23·2	..	21·8	15,25, 30	100·5	387·7	..	70·7	24	18	..	2·4	1·3	..	0	22	0	0	0	0	0	0	0	0	0
Dehra Dun	29·5	—0·8	34·9	4	21·8	—1·4	24·5	15	324·6	916·5	+248·5	194·4	24	22	+1·7	2·8	2·6	0	0	24	0	0	11	1	0	0	0	0	0

(R) Register not received. (a) Mean of 30 days. (n) Mean of 17 days. (b) Mean of 29 days. (c) Mean of 28 days. (j) Total for 21 days. (k) Total for 20 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hour	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Weather phenomena—No. of days with: Precipitation 0·1 or 0·2mm	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																													
Mansiari	24·0	..	24.1	22	15.2	..	13·7	16	..	813·8	..	143·0	23	26	..	..	..	..	3	28	0	0	0	0	0	0	0	0	0
Roorkee	31·9	−1.5	37·5	4	22.4	−3·2	20·8	8,16	229.0	616·1	+303·7	96·8	28	18	+6·1	8·3	6·5	+2·5	0	21	0	0	9	0	0	0	0	0	0
Najibabad	2·9	..	39·9	3,4	23·2	..	21.1	4days	242.0	648·8	..	105·6	15	17	0	15·5	10·2	..	0	17	0	0	11	0	0	0	0	0	0
Meerut	33·3	−0·8	41.0	4	24·3	−2·1	20·8	4	..	434.9	+216.7	91·2	15	19	+8·7	..	8·3	..	0	21	0	0	1	0	0	0	0	0	0
Bareilly	33·4	0	40.4	4	25·6	−0·5	22·2	31	191·4	467.0	+137·8	112·2	8	17	+4.2	11·5	8.9	+5.4	1	19	0	0	1	0	0	0	0	0	0
Aligarh	32·5	−2·1	40·6	4	26·1	−0.6	23·6	29	129.8	457·8	+235.0	81.4	9	15	+4.7	11·5	10·3	+2.9	1	17	0	0	0	0	0	0	0	0	0
Mainpuri	34·3	−0.8	41·4	4	..	..	..	..	170·0	423·6	+232.1	84·6	12	16	+5·6	7·3	5·4	+1 9	0	17	0	0	0	0	2	0	0	0	0
Agra	34·2	−0·1	41·5	4	26·3	−0·6	26·5	11	144.9	392 9	+175·7	182·1	10	16	+5·0	8.9	5.7	−1·4	0	16	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	34·7	..	43·0	3	26·3	..	23·8	29	145.4	418 8	..	150·0	10	14	..	..	..	..	0	19	0	0	14	0	2	0	0	0	0
Orai	33·5	..	39·1	5	26·0	..	24·1	14	83·5	234·2	..	73·2	11	10	..	10.6	9.8	..	0	13	0	0	0	0	0	0	0	0	0
Jhansi	32·4	−1·3	37·9	6	24·8	−1·1	21·9	15	88.6	363·9	+63·9	179·2	1	12	−1 8	5·3	5·1	−1·7	0	14	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	32·8	−1.3	41·5	1	22·6	−2·4	19·5	1	56·5	280·3	−163·6	89·8	9	14	+0·4	..	..	..	0	16	0	0	16	0	1	0	0	0	0
Amritsar (Rajasansi)	33.5	−2·0	42.5	1	25·4	−0.5	20.8	5	95·1	329.7	+115·7	99.8	16	9	+0·2	15·4	12.5	+1·6	0	11	0	0	8	0	0	0	0	0	0
Adampur (Aerodrome)	33·0	..	41·6	1	24.8	..	21·5	16	81.5	512·3	..	95.3	14	17	..	..	..	..	0	17	0	0	14	0	0	0	0	0	0
Ludhiana	33·4	−2·9	42·7	1	24·7	−2·1	21.1	16	229.6	535·8	+330·8	107·2	16	16	+7·6	5·0	4·8	+1·6	0	19	0	0	6	0	0	0	0	0	0
Ferozepore	34·3	..	44·0	1	25·8	..	21·0	12	57·9	201.1	..	59·4	16	10	..	5·0	3·4	..	0	12	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	32.7	..	41·0	3	25·0	..	21·4	16	286·0	504·0	..	108·5	16	15	..	..	..	..	0	17	0	0	11	0	0	0	0	0	0
Chandigarh	32·3	−1·5	38·8	4	25·3	+0·9	21·9	16	129·2	475·9	+199·4	78·7	11	15	+4·4	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Ambala	33·1	−2.2	41·1	4	24·2	−2·0	21·4	16	155·4	566·2	+322·1	115·2	14	18	+7.4	..	..	..	0	21	0	0	4	0	0	0	0	0	0
Ambala (Aerodrome)	32·0	..	40·0	4	24·1	..	21·0	1	150·4	625·9	..	161·6	14	19	..	..	..	..	0	21	0	0	9	1	0	0	0	0	0
Patiala	32·7	..	41·0	4	25·4	..	22·7	15	129·8	379·6	+136 3	79·0	15	14	+6·3	9·7	8·0	..	0	15	0	0	6	0	0	0	0	0	0
Bhatinda	35·6	..	44·9	1	25·5	..	21.4	29	123·0	307·7	..	91·1	5	12	..	6·8	5·3	..	0	13	0	0	1	0	0	0	0	0	0
Karnal	..	..	..	..	..	..	..	..	103·0	454 6	..	74·0	14	19	..	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Hissar	34·0	−3·6	43·0	1	26·1	−1·2	22·7	20	135 1	352·9	+244 2	120·6	28	16	+10·0	9·8	8·0	−0·9	0	17	0	0	12	1	0	0	0	0	0
New Delhi (Safdarjung)	33·0	−2·1	40 4	4	24·5	−2·4	21·6	16	92·8	538 2	+359·6	82·6	16	20	+11·0	14·5	10·5	+0.2	0	22	0	0	7	0	0	0	0	0	0
Palam (Aerodrome)	33.5	..	40·6	4	25·3	..	17.8	7	203·3	508·9	..	63·5	10	19	..	..	..	..		20	0	0	13	2	0	0	0	0	0
Himachal Pradesh																													
Mandi	31·0	−0·2	34·5	1	20·0	−1·9	14·6	31	170·2	382·7	−164·4	61·3	10	19	−1.3	2·2 (d)	2·0 (e)	−0·6		23	0	0	4	0	0	0	0	0	0
Bilaspur	32.2	..	39·6	3	14·7	..	10·5	24	111·6	331·4	..	58·2	14	19	..	2·9	1·9	..		19	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Miagar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	1·4	−14·6	0·8	19	0	−1·6	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Sonamarg	..	..	..	..	..	..	..	..	..	94·0	+3·3	14·1	15	8	−0·9	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Leh	24·9	+0·2	28·7	24	7·4	−2·8	4·3	4days	18·7	20·1	+8·2	12·7	29	2	+0·6	6·5	5·7	+2·6	1	4	0	0	0	0	0	0	0	0	0
Srinagar	28·7	−2·3	35.4	12	17·7	−0.2	12.9	20	24·6	89·7	+30·5	20·6	29	8	+3·1	5·5	5·0	+1·0	0	13	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome)	27·1	..	33·4	2	17·6	..	12·8	19	21·7	74·8	..	23·1	15	7	..	..	..	..	0	9	0	0	8	0	0	0	0	1	0
Gulmarg	19·6	−1·9	28·0	2	9·1	−1·8	4·3	20	63·5	138·0	+34·9	47·6	15	11	+2·1	7·8	5·0	−0·1	0	16	0	0	5	0	7	0	0	0	0
Qazigund	26·2	..	32·9	2	16·1	..	11·9	19	75·7	129·1	..	23·8	27	11	..	7·4	6·5	..	0	13	0	0	7	0	0	0	0	0	0
Banihal	27·1	..	34·6	1	17·0	..	1[illegible]·7	20	68·5	144·1	..	21·6	27	13	..	..	..	..	0	15	0	0	5	1	0	0	0	0	0
Jammu	34·4	−0·8	42·5	1	24·4	−1·9	20·0	15	163·4	423·1	−95·7	92·7	27	13	+1·2	6·4	5·4	..	0	13	0	0	3	0	0	0	0	0	0
Jammu (Aerodrome)	33·6	..	41·7	1	25·3	..	20·8	15	184·7	405·9	..	86·3	15	15	..	..	..	..	0	15	0	0	13	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	35·8	−2·8	45·5	2	26·0	−2·4	22·0	17	162·7	199·4	+125.1	48·7	14	10	+6.0	7·2	5·5	−2·3	0	16	0	0	8	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	37.1	..	44.5	2	26·6	..	23 0	28	..	..	..	..	..	..	..	..	..	..	..	..	0	0	1	0	0	0	0	0	0
Churu	35·6	..	42·9	1	26·6	..	23·2	11	65·1	180·5	..	62·0	11	13	..	15·7	11·7	..	0	15	0	0	7	0	2	0	0	0	0
Bikaner	37·0	−1·5	44.4	2	27·1	−0·9	23·4	27,28	18·7	92·9	+8·1	30·3	14	9	+4·1	10·1	9.1	−2·2	1	14	0	0	2	0	5	0	0	0	0
Nagaur	35·8	..	42·1	23	26·0	..	22·6	14	64 5	287·5	..	120·0	7	7	..	13·5	12·4	..	0	11	0	0	0	0	1	0	0	0	0
Phalodi	37·0	..	43.4	3	25·4	..	21·4	16	38·4	309·9	+241·8	225·0	12	6	+2·0	22·1	20·6	..	0	6	0	0	1	0	5	0	0	0	0
Jaisalmer	37·0	..	41·5	23	26·3	..	23·2	5	0·1	14·7	..	12·6	12	1	..	21·7	20.7	..	1	5	0	0	0	0	0	0	0	0	0
Jodhpur	36·1	0	41·0	5	27·1	+0 3	23·0	8	93·5	117.4	+16·6	71·7	8	5	−0·5	17.0	14.8	−4·7	1	8	0	0	5	0	5	0	0	0	0
Barmer	36·2	+0·4	42·2	3	25·9	−0·2	22·2	8	54.2	172·8	+90·3	40·0	26	7	+3·0	10·1	9·1	−2·5	0	8	0	0	3	0	0	0	0	0	0
Erinpura (Jawai Dam)	33.2	..	39.0	6	27.2	..	25.4	8	134.2	293.9	..	137.0	27	7	..	5.1	6.1	..	0	11	0	0	2	0	0		0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	34·5	..	42·3	1	25·0	..	21·3	29	110·8	327·5	..	115·8	11	10	..	17·9	11·6	..	0	13	0	0	0	0	0	0	0	0	0
Sikar	34·2	..	40·8	3	25·2	..	22·4	4	103·9	164·7	..	75·7	7	9	..	14·6	10·1	..	2	10	0	0	0	0	0	0	0	0	0

(R) Register not received. (a) Mean of 26 days. Mean of 27 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the	Departure from normal	Mean between (0830—1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—*Contd.*																														
Alwar	34·7	..	40·4	4	26·8	..	24·5	28	101·4	277·5	..	45·6	28	16	..	4·3	2·8	..	1	18	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	33·6	−0·1	38·9	23	25·6	−0·1	23·6	31	90·6	148.5	−48.1	40.5	26	9	−1.3	..	..	..	1	14	0	0	4	0	0	0	0	0	0
Sholapur	35·0	..	41·5	4	26·2	..	23.6	10	72.0	275.4	..	118.0	10	14	..	9·7	7·5	..	1	16	0	0	4	0	0	0	0	0	0
Ajmer	33 5	+0.3	39·4	23	25·7	−0.1	22.8	28	123.0	140.2	−22·6	46.4	26	9	+0·1	15·1	13·1	+3.4	0	12	0	0	6	0	0	0	0	0	0
Tonk	35·0	..	40·7	5	26·0	..	23·5	25	115.9	136·5	..	58·2	25	9	..	11.0	10·4	..	1	10	0	0	4	0	0	0	0	0	0
Bhilawar	33·1	..	38·6	23	24·4	..	20.4	9	117.5	138.7	..	48.0	26	7	..	13·0	12·4	..	0	10	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	34·0	..	39·0	23	25·6	..	22.7	25	75.2	172.3	..	31.5	24	11	..	16·6	15·5	..	2	11	0	0	11	0	0	0	0	0	0
Kota	35·1	+0.7	40.0	1	24.7	−1.9	21·9	20	52.2	110.9	−146.7	24.6	25	9	−2.1	12.0	11·0	+4.6	0	10	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	32·8	..	38·1	23	24·9	..	22·1	24	185.9	355·1	..	65.0	1	10	..	12·6	10.4	..	1	12	0	0	6	0	0	0	0	0	0
Udaipur	30·6	−1.2	34·6	23	23.9	−0.4	22·8	25,26	120.1	229.3	+12.1	57.6	7	12	+1.6	5·5	4·0	..	4	15	0	0	6	0	0	0	0	0	0
Jhalawar	33·1	+0.9	37·7	23	25·3	+0.5	23·9	27	58.0	137.0	−159.7	43.0	7	7	−6.5	12·1	11·0	+3.1	0	7	0	0	0	3	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	34·1	+0·2	40·5	4	26·3	−0.3	22·4	15	76.5	273.4	−25·1	68.4	7	11	−3·2	13·8	9·9	..	2	13	0	0	15	0	0	0	0	0	0
Sheopur	33·7	−0.1	39·0	24	35.7	+0.2	23·8	13	93.4	221.2	−84.3	100·0	7	11	−1.6	13 3	9·7	+1.4	0	16	0	0	9	0	0	0	0	0	0
Shivpuri	31·7	..	37·5	10	22·0	..	20·6	1	132.8	314·0	..	66·0	13	11	..	11·5	10 5	..	0	16	0	0	0	0	0	0	0	0	0
Nowgong	32·8	0	36·7	1	25·0	−0·9	23·3	12	54.5	202·5	−148.3	59·4	11	14	−0·1	9·7	7·6	+2.6	0	19	0	0	10	0	0	0	0	0	0
Guna	31.4	+0·3	34·5	5	23.6	−0·4	22·2	7,25	44.8	230·5	−134·0	74·8	7	14	−1.5	16·4	12·7	..	2	18	0	0	7	0	0	0	0	0	
Nimach	31·0	−0.1	36·3	22	23·9	+0.2	22·4	24	56.6	130·0	−110.5	37 4	2	8	−2.6	16.0	15·6	+1.4	0	10	0	0	6	0	0	0	0	0	0
Rajgarh	32·9	..	36 5	25	24·3	..	22·0	24	59·9	236·5	..	111·2	2	8	..	15·4	12·3	..	0	8	0	0	0	0	0	0	0	0	0
Sagar	30·5	+0.6	32·3	17	23·7	+0.9	21·2	17	86.4	264.0	−131.5	38.2	1	16	−0.5	11·7	10·7	..	1	22	0	0	3	0	0	0	0	0	0
Ratlam	30·1	0	33·3	21	22·6	−0·7	21·0	21	82.8	242.3	−107·3	53.4	6	13	−1·7	12.7	11 4	−0.3	1	9	0	0	2	0	0	0	0	0	0
Bhopal (Bairagarh)	30·2	+0.4	33·6	18	22·1	−1.3	21·4	4days	286.5	511·9	+10.8	192·2	2	17	+0.6	21·6	17·1	+1.1	0	22	0	0	9	0	0	0	0	2	0
Ujjain	30·2	..	33·4	22	24·6	..	23·3	2,24	64.2	249·2	..	53.0	24	17	..	19.8	16·4	..	0	20	0	0	4	0	0	0	0	0	0
Narsinghpur	30·9	..	33 4	22	23·1	..	21·4	18	118.2	322.8	..	80·6	6	16	..	7·9	4·6	..	0	18	0	0	0	0	0	0	0	0	0
Hoshangabad	31·0	+0.9	33·9	14	23·8	−0·1	22·2	25	134.3	330.0	−94·4	81.4	1	14	−1·7	10·6	7·1	+1·3	0	21	0	0	14	0	0	0	0	0	0
Indore	29·7	−0·2	32.8	20	22·4	−0·1	21·1	24	91.6	262.3	−20·2	72.0	2	13	−0·3	24·8	20·6	..	2	20	0	0	7	0	0	0	0	0	0
Rajpur (Jhabua)	30·0	..	33.4	14	23·3	..	21.0	24	63.4	160.0	..	41.8	24	15	..	12.8	10·1	..	0	22	0	0	1	0	0	0	0	0	0
Chhindwara	29.2	+0.9	31.6	4	22.4	+0.1	21.2	2	115.8	304.4	−19.0	52.1	1	16	−1.1	11.6	7.7	−0.5	1	22	0	0	6	0	0	0	0	0	0
Seoni	29·2	+0.3	32·2	9	22·6	+0.2	21·2	17	217.0	428·4	+16.4	115.8	1	18	−0.3	9·8	7·6	+0.4	0	22	0	0	10	0	0	0	0	0	0
Betul	28.4	+0.3	31·9	14	22·0	−0.3	20·6	18	51.6	280·8	−57.7	123·8	1	14	−3.3	8·4	6·2	−2·2	0	21	0	0	4	0	0	0	0	0	0
Khandwa	31·6	+0·5	34·7	14	23 7	−0·4	21.8	21	93.0	244.6	−0·8	47·0	17	16	+3·9	15.8	10·8	−1.1	0	20	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																														
Satna	31·7	+0·1	33·9	10	24·5	−0·7	22·1	16	191.2	353.7	−8·2	76·3	2	15	−0·4	9·6	6·1	−2.1	0	18	0	0	15	0	0	0	0	0	0
Sidhi	32·1	..	35·4	4	25·8	..	23·0	18	153.2	354.2	..	42.3	2	21	..	9·3	6·8	..	0	23	0	0	0	0	0	0	0	0	0
Umaria	30.7	+0·4	32·8	23,31	23·8	−0·2	21·9	12	145.4	372.7	−78·2	53.6	6	18	−2·1	8·4	6.3	+0·2	0	20	0	0	2	0	0	0	0	0	0
Jabalpur	30·9	+0·7	33·2	14,15, 31	24·0	+0·3	22·3	18	238.1	445.2	−47·1	64.5	6	17	−1·1	10·1	7·6	+2·1	1	23	0	0	12	0	0	0	0	0	0
Ambikapur	28·9	−0·6	32·1	4	22.6	−0·6	22·3	15	236.7	430.5	−4·3	89·8	12	18	+0·3	10·8	8·6	−0·7	1	24	0	0	5	0	0	0	0	0	0
Pendra	28·3	−0·3	31·6	31	22.4	0	20·6	17	217.6	333.4	−40·2	40.3	6	23	+4·1	11·9	10 1	..	0	25	0	0	18	0	0	0	0	0	0
Mandla	29·4	−0.7	32·8	21	23·2	−0·1	21·2	18	274.6	531.8	+35·4	116.2	1	22	+1·5	6·9	4·6	+0.7	0	24	0	0	8	0	0	0	0	0	0
Champa	30.4	−0.9	32.8	14	23·8	−1.1	21.8	12	145.4	533.4	+119.4	91.0	5	19	+0.2	10.0	8.7	−0.5	0	21	0	0	6	0	0	0	0	0	0
Raigarh	30.8	−0.7	83.7	23	24.2	−0.8	22.2	17	164.8	620.3	+145.1	140.8	5	21	+2.4	7.7	6.2	−0.8	0	26	0	0	2	0	0	0	0	0	0
Raipur	30·5	+0.1	33·7	11	23.9	0	22.3	4	191 1	392.0	+11.3	132.9	25	14	−2.0	13.7	11·5	−2.5	2	22	0	0	8	0	0	0	0	0	0
Kanker	29·7	+0.8	34·0	14	24.0	+0.7	22.4	20	109.4	233.7	−175.5	32.8	5	18	+0.1	10·6	8·9	−0.8	0	20	0	0	5	0	0	0	0	0	0
Jagdalpur	29·1	+0.8	32·2	30	22·5	+0.3	20.6	11	45.5	197.5	−186.8	53.1	5	15	−4.4	8·2	6.1	..	2	20	0	0	10	1	0	0	0	0	0
Gujarat Region																														
Deesa	33·7	..	37·4	21	24·9	..	23·5	5	94.7	207.2	..	79.2	8	9	..	11·8	10.8	..	0	9	0	0	0	0	0	0	0	0	0
Radhanpur	34·1	..	39·4	4	..	..	..	..	..	..	..	..	..	..	..	12·6	10·1	..	..	..	0	0	0	0	0	0	0	0	0
Idar	31·2	..	35·5	1	24·3	..	21·7	25	93.6	258.7	..	71.0	7	15	..	9·2	6·6	..	0	19	0	0	1	0	0	0	0	0	0
Ahmadabad	32·7	−1.2	35·8	1,21	25·5	−0 2	24.0	27	273.5	412.2	+101.8	80.2	5	15	+2·4	7·1	7·1	−4.2	3	20	0	0	8	0		0	0	0	0
Dohad	30·4	0	34.8	21	23·2	−0.7	20.6	24	50.0	176.5	−86.5	45.6	24	11	−1.7	20.4	21.2	−5·1	0	15	0	0	4	0	0	0	0	0	0
Vallabha Vidyanagar	32·5	..	34·9	22	25.4	..	24.1	1	146.7	946·6	..	74.6	6	15	..	10·5	8.8	..	0	22	0	0	4	0	0	0	0	0	0
Baroda Aerodrome	31.4	..	34.6	19	25.0	..	23·6	25	275.2	470.4	..	81.2	2	18	..	12.0	11·6	..	0	23	0	0	3	1	0	0	0	0	0
Baroda	32.0	−0.3	35·1	18,19	25.4	0	24.2	28	268.3	428.5	..	104.6	2	18	+2.1	2.0	1.1	−7.1	0	26	0	0	3	0	0	0	0	0	0
Broach	31 0	−1.0	34·4	19	25·1	−0.6	23.6	22	333.2	611.5	+59.4	219.2	7	18	−2.4	8·2	6·9	−4.3	1	20	0	0	0	0	0	0	0	0	0
Surat	30 9	+0.2	34·5	21	25·5	+0.1	24·2	7	318.0	837.1	+394.6	209.0	7	18	+1.7	10·3	10·7	−1.0	0	21	0	0	1	0	0	0	0	0	0
Saurashtra & Kutch																														
Naliya	32·1	..	33.8	1	25·8	..	22·6	3	61.9	118.7	..	45.5	4	7	..	22·6	18·3	..	0	10	0	0	4	0	0	0	0	0	0
Bhuj (Rudramata)	32·6	−0.6	36·2	1	25·9	0	23.8	7	88.6	125.6	−35.2	61.4	9	8	+2.0	19.3	16.6	−5.1	0	11	0	0	4	0	0	0	0	0	0
Kandla Aerodome	33.0	..	35.7	22	26·1	..	..	..	76·7	130.1	..	33.0	10	12	..	28.2	23.9	..	0	18	0	0	4	0	0	0	0	0	0

(a) Mean of 30 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—*contd.*																													
New Kandla	32·5	..	35·0	21,22	26·3	..	23·6	7	37·6	117.6	..	16.0	3	11	..	26·8	25.0	..	4	18	0	0	4	0	0	0	0	0	0
Mandvi	31.7	+0·6	33·0	21,22	27·0	+0.1	24.8	7	19.1	78.5	−133.5	23.2	3	9	−0·2	31.8	31.2	−5.1	1	11	0	0	0	0	0	0	0	1	0
Surendranagar	33·9	−0·2	36·6	17,20	25.7	−0.2	24·5	8,22	52.1	130.9	−47·8	33.6	7	7	−0·9	16·5	15·3	−5·0	0	9	0	0	2	0	0	0	0	0	0
Okha	31·1	..	32·1	24	26·1	..	23.9	25	37.3	97.6	..	30.6	4	8	..	26.0	23·9	..	2	21	0	0	1	0	0	0	0	0	0
Jamnagar Aerodrome	31·1	−1.5	33·9	12,15	25·4	−1·0	22·9	1	50.9	183.2	−43·6	94.3	1	12	+4·1	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Dwarka	30·8	+0.4	32·3	21,22	26·8	−0·3	24·4	25	111.6	174.2	−2·3	71.2	4	9	+3·0	24·3	24·4	+0.4	0	13	0	0	0	0	0	0	0	0	0
Rajkot	31·9	−0·6	35·3	20	24·3	−0.3	22·0	21	81.8	264·4	−107.7	75.2	21	9	−3.7	27·3	22·2	−6.1	3	19	0	0	4	0	0	0	0	0	0
Bhavnagar Aerodrome	32·7	−1.1	35·6	31	25·4	−0.7	23·9	22	156.1	245.0	+66.9	58.0	7	15	+5·7	24·2	19·8	−0.4	1	22	0	0	7	0	0	0	0	0	0
Porbander Aerodrome	30·8	+0.7	32·6	22	26·1	−0.4	24·3	25	76.5	257.2	−122·2	64.8	3	12	+0·6	22·8	19·3	..	1	20	0	0	1	0	0	0	0	0	0
Keshod	30·5	..	32·6	21	24·7	..	24·0	5 days	88.0	253.2	—	45.6	3	15	..	27·2	21·1	..	0	22	0	0	0	0	0	0	0	0	0
Mahuva	31·8	..	33·5	5 days	24·3	..	23·2	9,10	151.8	240.4	..	62.2	22	13	..	10·6	12·9	..	0	15	0	0	0	0	0	0	0	0	0
Veraval	30·3	..	31·6	17	25·9	..	22·9	21	168.4	383.9	+186.3	80.0	21	13	+3·8	31·2	32·0	..	3	20	0	0	1	0	0	0	0	0	0
Konkan																													
Dahanu	29.5	−0.3	31·4	16,17	..	..	..	..	268.7	728.1	−158·8	138.6	6	24	+0·5	22·2	19·2	−6·9	0	26	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	30·1	+0.4	31·5	31	24·2	−0·6	22.4	22	155.2	588.3	−153.9	74.6	2	25	+0.3	20·6	16·6	..	1	26	0	0	2	0	0	0	0	5	0
Bombay	30·1	+0·4	31·8	28	25·2	+0·4	23·6	23	143.1	470.6	−145·9	85.2	6	21	−1·1	8·4	8·2	−10·5	2	26	0	0	2	0	0	0	0	11	0
Alibag	29·3	+0·2	30·6	4	24·9	−0·4	23·2	23	..	576.1	−19.3	71.9	6	22	−1·3	..	23·7	−4.8	0	22	0	0	0	0	0	0	1	0	0
Bhira	28·8	..	33.0	17,30	23·2	..	21.9	7	669.4	1456.3	..	315.2	6	27	..	3·5	2·6	..	0	29	0	0	0	2	0	0	0	0	0
Harnai	28·6	+0·1	29·4	4 days	24·5	+1·7	22·3	1,9	290.2	690.2	−227.0	88.6	22	25	−2·0	17·7	17·6	−4.5	0	26	0	0	2	0	0	0	0	0	0
Ratnagiri	28·9	..	30·4	8	23.5	..	22·0	24	287.4	778.0	−31·8	116.2	24	25	−0.1	18·0	16·9	..	0	26	0	0	0	0	0	0	0	0	0
Devgarh	28·5	−0·1	30·4	28,30	24·0	−0·9	23·0	13,27	372.9	736.3	−55·1	108.0	13	27	+0.9	23·5	22.2	−0·6	0	28	0	0	1	0	0	0	0	0	0
Vengurla	28·6	−0·1	30·5	29	23·8	−0.2	22.4	11	452.1	1038·1	−109·8	128.0	12	27	−1·0	10·1	8.3	..	1	27	0	0	5	0	0	0	0	0	0
Panjim	28·7	..	30·5	8	23·1	..	21.6	12	325.3	841.3	..	158.3	12	26	..	14.1	12.8	..	1	29	0	0	2	1	0	0	0	0	0
Mormugao	28.2	..	29.9	30	23.1	..	21·1	2	355.1	924.3	..	232·7	12	28	..	19.9	19.3	..	0	29	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	30·8	..	34.2	18	23·5	..	22.1	6	66.8	119.3	..	42.0	25	11	..	13.3	9·4	..	1	16	0	0	0	0	0	0	0	0	0
Jalgaon	32·8	+0·8	35·7	14	23·8	−0·2	22·2	24	128.6	233.6	−8·4	78.0	5	15	+0·5	16·0	12·9	−2·7	0	21	0	0	7	0	0	0	0	0	0
Malegaon	31.6	+0·4	35·5	16	22.5	−0.6	21.1	25	143·6	224.9	+112.6	60.4	17	11	+3.6	14.8	11.4	−4.0	0	14	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	27·9	..	31·9	17	21·8	..	20·8	6	75.0	143.6	..	23.8	22	13	..	19.9	15.7	..	0	18	0	0	0	0	0	0	0	0	0
Ahmadnagar	30·0	+0.4	35·2	15	..	..	..	..	39.6	112.0	+16·0	35.4	17	8	+1·2	12.0	8·9	−6·7	0	16	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	1444.4	−29[illegible]	[illegible]25.0	6	24	−6·0	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	28.7	..	32·0	17	21·5	..	20 2	23	13.3	103.8	..	46.7	6	6	..	..	..	..	0	16	0	0	3	0	0	0	0	0	0
Poona	28·5	+0.3	32·9	15	21·2	−0·8	19·8	29	32.5	137.1	−29·5	62.3	6	11	−1·7	13·7	10·6	..	0	18	0	0	0	0	0	0	0	0	0
Jeur	31·6	+0.3	36·1	15	22·0	+0·2	20·0	25	73.5	108.2	+0·8	32·2	22	9	+1·1	17.0	12.8	−4.2	0	16	0	0	6	0	0	0	0	0	0
Baramati	30.8	+1·1	35·3	15	22·2	+0·1	20·9	25	38·1	54.5	−5·0	14.8	20	8	+2·3	17·3	13.4	−3·8	1	12	0	0	2	0	0	0	0	0	0
Sholapur	31·4	−0·4	35·8	15	22·6	+0·3	20·1	12	22.9	210.2	+104.0	48.6	19	11	+3.3	13.6	10.0	−6·3	0	14	0	0	0	0	0	0	0	0	0
Miraj	29·1	+1.4	31·8	15,28	21·5	-0·1	20·3	9,26	73.2	121.4	+16·5	19.8	31	13	+3.9	..	..	..	1	24	0	0	7	0	0	0	0	0	0
Kolhapur	27·6	+1·1	31·5	29	21.3	+0.1	20·1	12	91.4	223.2	−130.1	38.6	5	16	−2·7	18·6	14·8	−3.9	0	21	0	0	1	0	0	0	0	0	0
Marathwada																													
Aurangabad	29·9	−0.1	33·2	17	21.7	+0.1	20·6	8,25	44.0	130.0	−41.2	25.0	21	11	−0.3	15.6	13·1	−4.6	2	21	0	0	7	0	0	0	0	0	0
Aurangabad (Chikalthan)	30·6	..	35·1	3	22·0	..	20·9	25	56.4	143.9	..	21.8	18	10	..	17·3	14·3	..	2	16	0	0	9	0	0	0	0	0	0
Parbhani	31·8	+0·1	36·3	15	22·8	0	21·4	25,31	198.6	307.0	+102·2	58·8	20	12	−0·1	13.9	10·7	−3·3	0	14	0	0	4	0	0	0	0	0	0
Nander	31·9	..	35·8	3	23.1	..	21·6	20,24	73.9	202.9	..	30.4	24	15	..	(e) 8·2	7·1	..	0	18	0	0	0	0	0	0	0	0	0
Bir	31·3	..	35.4	9	22·9	..	21.5	25,26, 27	88.2	212.9	..	36.8	25	14	..	(a) 11·0	8·5	..	0	17	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	30·4	+0.2	33·6	15	24·1	−0·2	23.1	18,25, 31	79.0	202.0	−227.6	28.0	12	16	−1.9	7·8	5·6	−0.9	0	23	0	0	4	0	0	0	0	0	0
Nagpur (Sonegaon)	31·4	+0.1	34·5	15	23.9	−0·2	22·3	13	58·4	145·9	−224.9	62.7	25	10	−6·5	12·5	9·1	..	1	18	0	0	16	0	0	0	0	2	0
Amraoti	31.3	+0·5	34.8	15	23.5	+0.2	22·1	25	129.9	284.7	+45.7	128.0	5	11	−1.8	16·7	12·8	+0.6	0	19	0	0	4	0	0	0	0	0	0
Akola Aerodrome	31·8	..	34.5	14	23·0	..	21.3	9	82.0	271.3	..	70.3	6	11	..	12.2	9·7	..	1	19	0	0	8	0	0	0	0	0	0
Akola	31.6	−0·1	34·4	14	24·1	+0·3	22·4	15,24	39.7	241.6	−7·1	90·5	6	12	−0·4	(a) 11·9	8·6	+2.5	0	16	0	0	0	0	0	0	0	0	0
Bramhapuri	30·9	..	34·4	15	24·2	..	23.0	5,31	76.8	259.8	..	39.2	20	16	..	9·4	7·8	..	0	17	0	0	3	0	0	0	0	0	0
Buldana	28·9	+0·2	31·8	4	21·3	−0·6	20.0	7,21	84.3	206.9	−17·3	47.7	6	12	−1·1	12·5	11.5	−3·8	0	19	0	0	0	0	0	0	0	0	0
Yeotmal	30.4	+0·2	34·4	15	22.6	−0·1	21·4	19,26	162.5	416.9	+106·1	58.8	21	17	+0·3	17.1	13.9	−3·5	0	21	0	0	0	0	0	0	1	0	0
Chanda	31·8	0	35·2	15	24.6	+0.3	23.0	12	97.0	264.6	−149·7	48.8	12	16	−0·9	10·6	7·4	−1·0	0	27	0	0	12	0	0	0	0	0	0
Pusad	31.9	..	35·8	15	23·6	..	21·6	12	72·6	221.4	..	49.4	15	13	..	12·2	8·8	..	0	17	0	0	2	0	0	0	0	0	0
Sironcha	32.0	+0.5	34·8	14,15	25.0	+0.1	22·7	19	48.0	221.9	−217·1	38·2	18	14	−4.4	7·0	5.8	+0·1	1	17	0	0	3	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31.3	−0·8	32.6	20	25·4	−0·7	22.5	24	33·9	119.7	−21·0	26.4	24	10	+1·4	15·1	12.8	+0·7	1	12	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 26 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*contd.*																														
Vishakhapatnam	32·5	−0·6	35·6	3	26·2	+0·3	24·2	25	88·2	162·9	+50·6	46·0	19	9	+0·5	20·4	12·9	−2·4	1	12	0	0	3	0	0	0	0	0	0
Kakinada	32·3	−0·1	34·5	9	25·5	−0·3	22·5	26	132·1	174·0	+7·6	39·6	25	12	+0·9	11·6	8·7	−0·6	1	19	0	0	7	0	0	0	0	0	0
Nidadavole	32·3	..	34·4	9	25·5	..	23·0	2	79·4	182·2	..	77·4	24	12	..	5·3	7·4	..	1	15	0	0	6	0	0	0	0	0	0
Rentachintala	34·7	+0·8	38·0	17	25·8	−0·1	22·4	19	6·0	92·0	−29·9	40·0	19	6	−3·0	11·4	8·7	−6·4	0	6	0	0	1	0	0	0	0	0	0
Gannavaram	32·4	−0·2	35·7	9	25·5	+0·2	22·1	19	54·1	195·9	−62·4	57·4	19	11	−3·1	14·5	11·2	−5·0	0	18	0	0	7	0	0	0	0	0	0
Nagarjunakonda (R)																														
Masulipatam	32·3	−1·3	35·8	3	25·3	−0·3	22·2	19	80·4	242·0	+79·7	174·6	19	11	+0·3	5·0	3·7	−6·9	0	12	0	0	13	0	0	0	0	0	0
Ongole	34·9	..	38·5	10,11	26·2	..	23·1	25	21·9	106·6	..	36·2	19	8	—	4·9	8·5	..	0	10	0	0	0	0	0	0	0	0	0
Nellore	35·7	−0·4	38·6	7	26·2	−0·4	23·0	19	3·1	136·9	+67·0	54·4	19	6	+0·5	8·4	9·6	+0·3	0	10	0	0	4	0	0	0	0	0	0
Telangana—																														
Ramgundam	32·8	+0·4	37·2	15	25·0	+0·3	23·5	4days	93·8	219·6	−75·2	45·6	20	15	−1·4	7·8	5·6	−1·4	0	16	0	0	3	0	0	0	0	0	0
Nizamabad	31·7	+0·5	36·4	15	23·5	+0·2	21·2	25	84·7	280·1	+22·3	27·0	24	13	−2·0	9·8	7·5	−1·4	0	15	0	0	7	0	0	0	0	0	0
Hanamkonda	32·6	+1·4	36·1	15	24·2	−0·1	21·8	25	58·0	229·6	−2·6	73·2	25	8	−5·4	11·7	9·2	−1·6	0	15	0	0	3	0	0	0	0	0	0
Hakimpet (Aerodrome)	29·9	..	33·6	15	21·9	..	19·8	18	41·8	97·5	—	17·8	21	11	..	..	..	..	0	19	0	0	11	3	0	0	0	0	0
Bhadrachalam	32·4	+0·5	35·2	11	25·3	+0·4	23·4	25	36·0	172·8	−66·3	36·0	25	13	−0·8	5·3	5·8	−2·9	0	15	0	0	1	0	0	0	0	0	0
Hyderabad (Begampet)	30·4	0	33·9	15	21·9	−0·3	19·4	18	40·6	139·4	−12·7	24·6	21	13	+1·9	21·2	17·4	−3·0	1	16	0	0	3	0	0	0	0	0	0
Khammam	33·1	..	36·4	9	25·5	..	23·3	25	2·4	47·6	..	17·0	25	4	..	8·8	6·3	..	0	8	0	0	0	0	0	0	0	0	0
Mahbubnagar	30·3	..	33·4	3	22·3	..	20·3	25	75·6	319·8	..	90·2	24	15	..	10·3	9·0	..	0	25	0	0	7	0	0	0	0	0	0
Rayalaseema																														
Kurnool	32·6	−0·5	35·7	9	23·6	−0·3	21·7	31	21·3	158·9	+46·6	62·4	31	11	+1·7	16·2	13·7	−3·0	0	16	0	0	0	0	0	0	0	0	0
Nandyal (R)		..																												
Anantapur	33·0	+0·3	36·2	9	23·9	0	20·8	26	73·6	192·8	+131·1	61·6	28	9	+5·0	16·8	14·8	−4·3	0	11	0	0	4	0	0	0	0	0	0
Cuddapah	34·1	−1·2 −0·6	38·3	8	25·1	−0·5	22·7	20,25	5·8	191·6	86·2	72·2	21	11	+4·3	2·6	1·9	−10·0	0	13	0	0	0	0	0	0	0	0	0
Arogyavaram	30·5	..	34·6	8	20·4	—	17·8	25	0·8	300·0	..	79·6	21	9	..	11·9	9·6	..	0	11	0	0	0	0	0	0	0	0	0
Madras State																														
Madras	34·3	..	38·2	11	26·0	..	22·2	20	..	104·6	..	31·2	19	6	..	..	9·6	..	0	9	0	0	6	0	0	0	0	0	0
Madras (Minambakkam)	34·9	−0·8	37·9	11	26·3	0	22·2	20	12·9	89·6	−1·8	23·4	21	7	+0·2	..	12·3	−3·5	0	10	0	0	7	0	0	0	0	0	0
Vellore	33·8	−0·7	37·1	8	23·9	−1·2	20·5	20	64·4	247·3	+131·7	57·2	20	12	+5·7	5·5	8·8	+0·8	0	15	0	0	11	0	0	0	0	0	0
Tambaram (Aerodrome)	36·0	..	39·5	11	26·1	..	22·2	20	11·5	110·5	..	35·1	21	6	..	..	..	..	0	9	0	0	12	0	0	0	0	0	0
Tiruppattur	32·9	..	36·5	8	22·5	..	19·7	20	41·9	210·8	..	53·8	20	10	..	6·1	6·2	..	0	10	0	0	1	0	0	0	0	0	0
Mettur Dam R.S.	33·7	..	37·5	8	23·8	..	21·9	26	17·7	163·6	..	63·5	26	9	..	6·1	7·2	..	0	10	0	0	0	0	0	0	0	0	0
Cuddalore	34·5	−1·1	38·0	7	25·6	−0·3	23·0	15	16·8	104·2	+36·2	55·6	15	11	+5·7	15·3	10·6	+3·2	0	11	0	0	2	0	0	0	0	0	0
Kallakkurichchi	33·5	..	38·5	15	24·6	..	21·4	20	118·8	191·4	+119·8	79·6	29	6	+1·0	9·6	8·5	..	0	13	0	0	7	0	0	0	0	0	0
Salem	33·0	−0·9	36·4	8	23·8	+0·5	21·1	26	66·4	215·2	+118·9	73·4	26	10	+2·9	7·3	5·9	−0·9	0	18	0	0	13	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·3	..	32·5	19,20	21·2	..	17·8	6	25·6	155·2	..	98·9	28	7	..	27·3	26·2	..	2	11	0	0	4	1	0	0	0	0	0
Coimbatore	29·7	−0·7	32·0	20	21·1	−0·6	19·	26	..	145·8	+103·9	67·8	28	8	+3·7	..	13·5	+2·9	1	8	0	0	3	0	0	0	0	0	0
Nagapattinam	34·2	−1·4	37·7	7	26·1	0	22·5	26	17·0	120·3	+77·1	35·0	23	9	+6·1	19·8	11·9	+2·2	0	12	0	0	3	0	0	0	0	0	0
Tiruchchirapally	34·6	−1·9	37·9	19	24·8	−0·9	21·4	26	16·9	184·8	+150·5	66·3	26	8	+5·9	16·6	14·2	−15·9	0	11	0	0	14	0	0	0	0	0	0
Vedaranniyam	33·9	..	37·8	2	25·3	..	23·4	12	17·4	59·0	..	14·8	29	6	..	9·9	8·0	..	0	7	0	0	0	0	0	0	0	0	0
Atirampatinam	33·4	..	37·8	2	25·6	..	22·5	26,27	25·8	159·8	..	92·4	27	7	..	22·6	12·3	..	0	11	0	0	6	0	0	0	0	0	0
Madurai	35·1	−0·4	38·5	15	24·9	−0·3	22·1	28	..	208·6	+159·1	65·6	28	6	+3·3	..	5·3	−2·6	0	8	0	0	6	0	0	0	0	0	0
Madurai (Aerodrome)	34·4	..	37·6	10, 9	25·3	..	22·3	21	40·2	196·0	..	72·2	28	7	..	21·0	13·5	..	0	16	0	0	17	0	0	0	0	0	0
Tondi	32·2	..	37·8	11	25·8	..	23·1	26	1·4	135·4	..	89·6	26	6	..	16·5	14·0	..	0	7	0	0	7	0	0	0	0	0	0
Pamban	32·4	+0·6	35·4	13	25·9	−0·4	23·2	29	2·3	65·6	+53·9	30·2	28	3	+2·2	16·2	13·8	−1·5	0	3	0	0	2	0	0	0	0	0	0
Tuticorin	33·2	−1·2	37·0	2	25·3	−1·2	21·3	28	10·4	142·1	+131·7	66·1	28	4	+3·2	20·2	15·6	−4·1	0	5	0	0	4	0	0	0	0	0	0
Palayankottai	..	..	..	..	25·4	−1·0	22·3	28	35·7	86·9	+78·9	31·6	28	9	+8·4	13·2	10·4	−7·1	0	10	0	0	3	0	0	0	0	0	0
Kanyakumari	29·8	..	33·8	20	23·6	..	21·5	4	31·9	88·3	..	37·4	4	7	..	20·3	19·1	..	0	10	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	28·4	+0·4	29·8	1,30	24·0	0	22·0	12	236·2	354·9	−150·5	126·0	12	26	−1·6	16·3	14·1	..	0	30	0	0	0	0	0	0	0	0	0
Honavar	28·5	+0·2	33·7	2	23·3	−0·3	21·6	12	247·1	399·7	−174·2	137·7	30	26	−3·5	..	..	..	0	29	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	28·4	..	30·5	29	23·0	..	21·5	12	196·9	346·6	..	125·0	4	26	..	12·7	9·5	..	1	29	0	0	6	0	0	0	0	0	0
Mangalore	29·0	+0·3	31·4	1	23·4	−0·1	21·6	12	162·1	652·1	−336·0	118·6	10	27	−0·5	11·5	9·8	+0·8	0	29	0	0	2	0	0	0	4	0	0
Interior Mysore (North)																														
Bidar	29·4	+0·1	32·8	3	21·0	−0·1	15·0	11	95·6	304·8	+98·5	112·6	20	12	+0·4	19·2	16·9	−5·3	0	14	0	0	0	0	0	0	0	0	0
Gulbarga	31·6	−0·3	35·4	15	22·5	+0·3	21·0	4days	57·8	226·6	+82·8	33·2	20	14	+4·9	..	..	..	0	21	0	0	3	0	0	0	0	0	0
Bijapur	30·6	+0·3	33·7	14	22·0	+0·4	20·9	30	25·4	343·0	+282·8	176·0	30	10	+5·7	16·3	3·9	−11·2	0	13	0	0	3	0	0	0	0	0	0
Raichur	32·1	−0·3	35·0	3,15,	23·0	+0·3	21·2	25	47·7	145·1	+25·7	52·0	31	12	+3·6	16·3	14·4	−1·0	0	15	0	0	1	0	0	0	0	0	0
Belgaum	26·2	+0·9	30·0	30	20·5	+1·2	19·7	11	129·4	277·8	−148·7	48·2	2	14	−8·1	8·6	6·1	−8·2	2	26	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	26·7	..	30·2	30	20·5	..	19·4	25,27	147·3	246·4	..	46·2	30	16	..	15·5	12·5	..	1	24	0	0	4	0	0	0	0	0	0
Gadag	26·7	−1·7	32·7	16	21·2	+0·1	20·1	9	33·9	166·9	+93·5	41·4	31	14	+7·1	15·5	14·6	−5·2	0	18	0	0	8	0	0	0	0	0	0

(R) Register not received.

Sub Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 24 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South—(Contd.)																													
Bellary	31·6	—1·0	35·4	14	23·8	—0·1	22·1	16	37·0	93·0	+57·1	35·0	16	10	+6·6	12·1	11·0	—2·7	0	10	0	0	0	0	0		0	0	0
Chitradurga	28·1	0	32·1	15	20·9	+0·4	19·3	12	56·6	205·6	+132·7	60·6	30	13	+4·8	11·3	10·9	—2·3	0	21	0	0	4	0	0	0	0	0	0
Shimoga	27·2	+0·4	30·9	29	21·2	+0·1	20·2	5 days	40·0	225·0	-57·8	39·4	5	17	—1·9	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Agumbe	23·9	..	28·4	29	19·4	..	17·4	12	..	436·2	..	52·4	12	17	..	..	5·1	..	1	29	0	0	0	5	0	0	0	0	0
Balehonnur	24·7	+1·9	28·9	17	18·9	+0·3	17·0	12	..	930·9	+52·3	216·2	5	25	—3·3	..	..	..	0	29	0	0	1	5	0	0	0	0	0
Hassan	25·8	+0·5	30·1	29	18·9	+0·2	16·9	1	52·4	220·0	+72·7	56·0	29	14	+0·8	11·8	9·3	—1·5	0	20	0	0	5	0	0	0	0	0	0
Bangalore	28.4	+1·0	31·5	14	20·2	+1.5	18.7	12	12.5	285·6	+185·8	111·4	30	9	+1.0	13.9	12.7	—0.8	0	18	0	0	7	0	0	0	0	0	0
Bangalore (Aerodrome)	28·5	..	31.4	14	19·4	..	17.8	12	4.0	139.2	..	46·1	21	7	..	..	..	..	2	15	0	0	10	0	0	0	0	0	0
Mysore	28·4	+0·5	30.0	16,17 21	20.3	+0·7	19·1	12	22.3	100·5	+32.4	22·2	4	10	+2·7	11·5	9·6	—4·7	0	14	0	0	1	0	0	0	0	0	0
Kerala																													
Calicut	28·3	+0.3	30·5	1	23·4	0	22·1	10	168·0	738·1	-56·4	131·2	3	21	—5·5	12·0	10.5	+2·8	0	25	0	0	0	0	0	0	0	0	0
Palghat	28·2	..	30·4	28	22·5	..	20.8	4	207.6	536·4	..	157·4	4	20	..	7·6	11·0	..	0	22	0	0	1	0	0	0	0	0	0
Fort Cochin	27·8	—0·3	29.2	18	23·2	—0·5	21·7	4	239·7	1007·1	+115·0	127·6	4	23	+3.8	12·5	9·3	+1.3	..	31	0	0	8	0	0	0	0	0	0
Cochin (Naval Air Station)	28.6	..	30·2	19	23·4	..	22·1	5,16	221·2	1036·0	..	153·0	4	27	..	10.9	8·9	..	0	31	0	0	13	0	0	0	0	0	0
Alleppey	28·5	-0·3	30·6	2	23·0	—0·4	22·0	13	202·8	791·6	+247·8	109·4	4	28	+4·9	11·4	9·9	—0·9	0	30	0	0	3	0	0	0	0	0	0
Punalur	27·6	..	31·4	19	22·5	..	21·6	1,16,29	201·4	554·5	..	108·4	5	24	..	2.4	3·3	..	0	27	0	0	0	0	0	0	0	0	0
Trivandrum	28.8	—0·4	31·2	2	22·8	—0.4	21·4	4	60·6	408·9	+211·5	57·0	3	17	+2·7	10.0	9·9	-0·4	2	23	0	0	2	0	0	0	0	0	0
Trivandrum (Aerodrome).	28.7	..	31·3	2	23·1	..	21·8	12	..	336·2	..	43·4	29	17	..	..	..	..	1	22	0	0	1	0	0	0	0	0	0
Arabian Sea Islands																													
Amini *																													
Minicoy*																													
Hill Stations (excluding Kashmir)																													
Dalhousie	23.0	—0·7	28 0	1	15·6	-1·2	19·0	25	306·0	540·0	+40·6	82·0	13	19	-0·5	3·5	2·1	—0·7	0	20	0	1	8	0	0	0	0	0	0
Dharmsala	26·7	—0·6	30·9	1	19·4	1·8	16·4	20	481·0	938·8	+116·5	104·2	25	22	—0·3	2·9	1·5	+0·1	0	24	0	0	7	0	0	0	0	0	0
Simla	20·3	—1·3	25·1	28	15·3	+	12·8	16	185·2	359·5	—54·5	49 9	14	19	—0·7	1·2	0·8	—0·9	0	21	0	0	2	11	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	508·6	+105·6	79 0	5	21	+3·3	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Lokpal	10·3	..	12·4	19	5·7	..	2·8	1	..	396·0	..	30·4	11	22	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Badrinath (R)																													
Joshimath	23·9	..	27·9	4,23	17.4	..	15·4	17	53·9	288·0	..	31·5	10	18	.	4·2	2 5		0	25	0	0	3	6	0	0	0	0	0
Mussoorie	20·1	—0 6	22·8	3	15·0	—0·9	13·	16	251·5	663·3	—24·2	118·0	2	24	+0·8	7·5	6·9	+0·1	0	25	0	0	5	0	0	0	0	0	0
Mukteswar (Kumaun)	20·3	—0·5	25·5	2	13·6	—0·8	12·1	16	195·0	511·0	196·8	79·4	15	23	+5·2	12·9	03·4	+5 0	0	25	0	0	4	25	0	0	0	0	0
Nainital	20·9	—0·5	24·0	22,23	15·5	—1·4	10 4	11	119·5	1132·5	+363·1	205·0	23	25	+1·4	12·1	9·4	+1·1	0	27	0	0	0	21	0	0	0	0	0
Kalimpong	28·4	+4·3	30·6	5	..	..	..	..	142·0	775·4	+191·3	106·0	24	21	-0·9	7·5	6·6	—2·1	0	22	0	0	0	0	0	0	0	0	0
Darjeeling	18·4	—1·2	22·8	4	14·7	-0·6	13·2	26	249·6	1161·6	+325·4	216·0	6	27	+1·4	(a) 2·9	(b) 2·3	0	0	29	0	0	3	7	0	0	0	0	0
Kohima	23·9	..	28.2	3	19·1	..	15·6	22	251·1	432·3	..	59.2	25	26	..	..	1·9	..	0	28	0	0	0	0	0	0	0	0	0
Shillong	24·1	0	26·4	2	18 1	0	16·1	20	80·9	325·1	—21·6	68·7	30	21	+2·8	4·8	4·4	+0·9	0	22	0	0	0	0	0	0	0	0	0
Cherrapunji (R)																													
Abu	24·0	—0·1	26·8	5	18·6	—0·3	17·0	31	241·4	673·0	—114·5	129.2	26	22	+4·2	17·0	10·0	—2.9	0	23	0	0	2	0	0	0	0	0	0
Aijal	24·1	..	27·3	4	19·0	..	18·0	30	100·4	265·5	..	36·5	24	16	..	(b) 11·9	14·4	..	0	17	0	0	0	0	0	0	0	0	0
Pachmarhi	24·9	+0·2	27·5	14	19·6	—0·3	17.6	14	95·6	398·4	—267·8	117·8	1	16	—6·0	8·1	7·8	—3·8	0	27	0	0	12	0	0	0	0	0	0
Mahabaleshwar	20·0	+1·4	23·3	30	16·6	—0·2	15.2	9	464·5	1498·3	-1177.1	219.0	6	28	—2·1	16·3	17·1	—3·5	1	29	0	0	1	30	0	0	0	0	0
Mercara	21·7	+1.3	24·2	16	16·8	+0·1	15·0	12	277·2	779·2	- 315·8	126·6	4	26	—2·5	14·3	12·6	+1·0	0	28	0	0	1	0	0	0	3	0	0
Ootacamund (R)																													
Coonoor (R)																													
Kodaikanal	17·9	+1.1	20·4	7	11·4	+0.2	10·7	27	172·7	278·8	+160.7	54·8	25	14	+3·8	11·7	13 0	—3·9	4	23	0	0	7	1	0	0	0	0	0
Nepal																													
Katmandu	27·5	..	30·8	4	19.9	..	18·1	13,23	143·3	437·0	..	68·4	23	25	..	2·2	1·1	.	0	30	0	0	5	0	0	0	0	0	0
Sikkim																													
Lachen	18.5	..	22·0	1,2	18.4	..	9·7	23	..	276·0	..	31·8	5	26	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	30·9	..	39·8	5	24·5	..	22·3	18	116·1	250·3	..	38·2	11	19	..	10·8	8 8	..	2	21	0	0	11	0	0	0	0	0	0
Hazaribagh	28·9	..	31·4	4	22·2	..	20·7	9	110·9	312·5	..	63·2	23	18	..	11.9	7.0	..	0	23	0	0	7	0	0	0	0	0	0
Konar	31·0	..	36·1	10	23·1	..	22·1	8	187·1	345·5	..	68·0	20	20	..	15·6	8·3	..	0	27	0	0	0	0	0	0	0	0	0
Bokaro	31·5	..	32·9	31	24·5	..	23·5	16,17, 30	108·4	230·6	..	36·0	18	21	..	8.8	4 6	..	0	24	0	0	8	0	0	0	0	0	0

(R) Register not received. *Data given as addenda in December 1964 issue. (a) Mean of 30 days. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 & 0·2 mm.)	Precipitation (0·5 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—(Contd.)																													
Damodar Catchment (Contd.)																													
Mairboo	32·2	..	36·1	3	25·1	..	21·0	18	230·3	373·0	..	69·9	23	18	..	3·7	2·9	..	0	24	0	0	3	0	0	0	0	0	0
Ramgarh	31·8	..	37·6	23	24·2	..	21·1	15	137·1	332·7	..	59·3	9	18	..	4·0	2·3	..	0	22	0	0	1	0	0	0	0	0	0
Panchet Hills	31·9	..	34·3	23	25·5	..	22·0	16	126·0	240·7	..	51·6	24	13	..	7·5	7·5	..	0	26	0	0	0	0	0	0	0	0	0
Durgapur	32·3	..	35·6	20	25·2	..	23·8	10	106·6	309·7	..	40·5	26	20	..	13·3	12·9	..	0	23	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Gimabahar	29·6	..	32·8	4,5	22·4	..	21·1	28	..	717·0	..	53·6	28	26	..	..	..	..	1	28	0	0	9	0	0	0	0	0	0
Hirakund	31·1	..	34·0	23	24·9	..	23·2	5	171·2	663·9	..	277·1	5	20	..	6·6	5·3	..	1	25	0	0	14	0	0	0	0	0	0
Bhimkund	30·0	..	32·5	9	23·4	..	21·9	12	315·6	454·7	..	51·0	31	21	..	5·8	3·6	..	0	26	0	0	21	0	0	0	0	0	0
Sonepur	30·8	..	34·0	29	25·5	..	23·3	12	..	531·0	..	64·5	3	21	..	..	5·1	..	1	23	..	..	..	..	..	..	..	..	..
Khijrawan	30·4	..	33·6	22 24	..	.	..	..	0	364·8	..	75·0	16	16	..	11·5	8·2	..	0	19	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	30·7	..	33·5	14	24·0	..	22·6	1	167·4	333·9	..	99·0	1	15	..	8·8	7·1	..	2	21	0	0	3	0	0	0	0	0	0
Punasa	31·6	..	36·1	18	23·8	..	22·2	21	53·9	248·9	..	61·8	25	9	..	10·2	7·7	..	3	18	0	0	2	0	0	0	0	0	0
Thikri	31·9	..	35·9	18	22·9	.	20·1	24	..	130·6	.	60·6	24	12	..	..	..	..	1	19	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Darol	38·6	..	41·2	5	25·7	..	24·8	8	62·4	252·0	..	30·0	7	12	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	..	..	..	..	13·9	..	12·9	20	2·6	35·8	..	12·0	6	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	146·7	866·9	..	104·6	29	26	..	..	..	..	0	29	.	..	..	..	..	..	..	..	..
Tmure	24·7		29·2	2	17·1	..	15·6	26	12·0	519·0	..	80·0	10	22	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Pokhara	28·2	..	31·6	4	22·0	..	21·0	23	206·5	1030·7	..	261·4	29	25	..	1·4	0·8	..	0	28	0	0	9	0	0	0	0	0	0
Gorkha	26·8	..	30·7	4	21·5	..	20·0	25	58·7	121·9	..	69·3	15	19	..	..	..	..	0	24	0	0	8	21	0	0	0	0	0
Nuwakot	29·5	..	33·0	4	21·8	..	20·6	17	114·5	146·8	..	74·0	3	22	..	..	.	..	0	28	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Daijekh	26·3	..	29·9	18	13·1	.	16·1	6	123·2	463·0	..	75·0	4,22	12	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	22·9	..	26·5	4,23	16·4	..	15·1	15	169·2	169·0	..	70·9	24	20	..	6·3	5·2	..	2	23	0	0	5	14	0	0	0	0	0
Sallayana	26·1	..	29·0	4	18·9	..	17·0	31	70·5	147·9	..	25·1	23	10	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Butwal	31·4	..	37·4	4	24·8	..	22·7	19	414·6	1184·6	..	204·0	17	23	..	..	.	..	0	23	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chantara	25·6	.	29·1	3	17·7	..	13·4	15	92·2	523·7	..	45·4	23	25	..	..	..	..	1	26	..	..	..	..	..	..	..	..	..
Cherua	..	.	..	..	..	..	..	..	56·4	491·8	..	38·8	12	29	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Walungchung Gola	(a) 15·4	..	18·7	4	9·8	..	8·0	24	119·1	462·0	..	34·4	24	30	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Tapletok	26·4		31·5	4	18·4	..	17·3	13	36·6	488·8	..	57·0	17	28	..	..	..	..	0	30	..	..	..	..	..	..	..	..	..
Bhojpur	22·8	.	26·8	4	18·1		16·8	22	75·7	404·8	..	93·0	9	19	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Taplejung	23·5	..	26·7	4	17·4		16·3	26	66·7	415·6	..	39·4	22	26	..	4·1	2·7	..	0	27	0	0	4	23	0	0	0	0	0
Okhaldhunga	23·0	..	27·7	4	17·0	..	15·8	26	150·0	527·6	..	81·0	9	23	..	1·7	1·4	..	0	25	0	0	3	21	0	0	0	0	0
Chainpur	66·8	..	31·6	4	19·9	..	19·0	22,24, 29	63·0	412·6	..	58·0	29	20	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Angbung	(f) 27·8	..	31·1	14	(b) 20·0	..	17·6	10	11·0	377·9	..	50·2	30	18	..	..	..	.	0	18	..	..	..	..	..	..	..	..	..
Barahakshetra	30·4	..	35·1	4	23·7	..	22·4	26,29	292·6	1240·6	..	215·4	28	23	..	6·1	3·5	..	0	28	0	0	8	0	0	0	0	0	0
Tista Catchment																													
Gangtok	21·8	.	27·5	4	16·9	..	15·4	26	174·0	825·5	..	105·5	24	26	..	1·2	0·9	..	0	31	0	0	2	30	0	0	0	0	0
Gezing	23·6	..	29·7	4	18·0	..	15·2	24	141·5	301·4	..	102·4	24	26	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..

*Data included under 'Nepal'.

(f) Mean of 25 days.

(a) Mean of 30 days.

(b) Mean of days 29.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1008·4	1005·3	..	27·2	25·7	25·1	31·9	89	..	5·9	..	7·3	0	6	12	0	1	0	0	0	17	0	0	13	0
	1730	,,	1006·6	1003·5	..	27·0	25·4	24·7	31·1	87	..	5·9	..	9·4	0	2	26	0	0	2	2	0	14	8	1	3	1
Long Island	0830	25	1008·4	1005·6	..	27·8	25·9	25·1	31·9	86	..	6·1	..	1·3	0	0	14	1	0	0	0	3	7	3	0	17	0
	1730	,,	1005·6	1003·7	..	27·1	25·4	24·7	31·1	87	..	6·0	..	1·5	0	0	15	0	0	0	0	0	7	8	0	16	0
Port Blair	0530	79	1007·6	998·6	..	24·9	24·0	23·5	28·9	93	..	6·7	..	9·0	0	6	22	0	1	0	0	5	16	5	1	3	0
	0830	,,	1008·8	999·9	+1·4	27·6	25·4	24·4	30·5	83	+1	6·7	+1·0	14·8	0	8	22	0	0	1	3	7	10	7	2	1	0
	1130	,,	1008·0	999·1	..	28·4	25·6	24·4	30·5	79	..	7·0	..	16·3	0	10	20	0	1	1	3	7	10	6	2	1	0
	1730	,,	1006·6	7·7	..	26·5	24·8	24·1	30·0	86	..	7·1	..	9·9	0	6	22	0	0	1	1	4	13	8	1	3	0
	2330	,,	1008·3	999·4	..	25·2	24·1	23·5	28·9	91	..	4·9	..	8·2	0	4	22	0	1	1	1	6	10	5	2	5	0
Car Nicobar	0830	10	1003·9	1007·7	..	27·7	25·5	24·5	30·7	82	..	6·1	..	2·6	0	0	25	0	0	0	2	0	23	0	0	6	0
	1730	,,	1006·9	1005·7	..	27·2	25·1	24·1	30·0	84	..	5·9	..	1·7	0	0	14	0	0	0	0	0	14	0	0	17	0
Nancowry	0830	26	1009·5	1006·6	..	27·5	25·2	24·1	30·0	83	..	6·1	..	6·7	0	3	18	0	0	0	1	1	12	7	0	10	0
	1730	,,	1007·2	1004·3	..	26·9	24·8	23·9	29·7	84	..	5·8	..	6·3	0	1	22	0	0	0	0	0	19	4	0	8	0
Kondul	0830	8	..	..	..	27·0	25·0	24·1	30·0	85	..	6·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·6	24·9	24·1	30·0	87	..	6·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1004·3	986·6	..	25·0	24·4	24·1	30·0	94	..	7·1	..	3·9	0	1	20	0	4	1	6	0	4	0	6	10	0
	1730	,,	1000·8	983·3	..	27·0	25·6	25·0	31·7	90	..	5·7	..	1·9	0	0	13	0	2	1	2	0	0	1	7	18	0
Dibrugarh (Mohanbari)	0230	111	1002·0	989·4	..	24·8	24·2	23·9	29·7	95	..	7·5	..	5·0	0	0	20	0	9	4	0	1	6	0	0	11	0
	0530	,,	1002·7	990·1	..	24·5	24·1	23·9	29·7	97	..	7·5	..	3·2	0	0	18	0	7	5	2	1	1	2	0	13	0
	0830	,,	1003·5	991·1	+1·0	26·4	25·1	24·6	30·9	90	+3	7·3	+0·7	5·9	0	0	27	2	4	11	2	2	2	4	0	4	0
	1130	,,	1002·6	990·2	..	28·5	25·8	24·7	31·1	80	..	6·9	..	6·2	0	0	31	5	5	8	4	3	3	3	0	0	0
	1430	,,	1000·1	987·8	..	29·4	26·2	24·8	31·3	78	..	6·4	..	6·7	0	0	30	2	14	7	1	1	1	2	2	1	0
	1730		1000·0	987·7	..	28·0	25·8	24·9	31·4	83	..	6·3	..	5·9	0	0	24	1	11	7	0	2	3	0	0	7	0
	2030	,,	1002·2	989·7	..	26·2	25·1	24·7	31·1	91	..	6·2	..	4·0	0	0	18	2	7	5	1	0	2	0	1	13	0
	2330	,,	1002·6	990·1	..	25·2	24·5	24·1	30·0	94	..	7·1	..	4·3	0	0	19	0	11	4	0	0	4	0	0	12	0
Digboi*	0830	152																									
	1730	,,																									
North Lakhimpur	0830	102	1003·7	992·2	+1·0	26·5	25·3	24·8	31·3	91	+1	7·6	+0·3	5·0	0	0	25	3	3	3	3	10	3	0	0	6	0
	1130	,,	1002·6	991·2	..	28·8	26·3	25·1	31·9	80	..	7·2	..	9·0	0	2	27	1	1	4	6	13	4	0	0	2	0
	1330	,,	1000·2	988·9	..	29·6	26·3	24·9	31·5	76	..	6·6	..	9·3	0	3	26	2	4	2	5	9	6	1	0	2	0
	1730	,,	1000·2	988·8	..	28·2	26·1	25·3	32·2	84	..	6·4	..	5·4	0	0	24	4	4	3	2	4	5	1	1	7	0
Sibsagar	0830	97	1004·0	993·2	+1·8	27·7	25·7	24·8	31·3	85	−2	6·5	+0·3	3·7	0	0	25	2	3	3	0	6	11	0	0	6	0
	1730	,,	1000·5	989·8	..	29·4	26·3	24·9	31·5	78	..	6·7	..	3·1	0	0	23	4	4	0	1	3	10	1	0	8	0
Golaghat	0830	..	..	994·3	..	26·5	25·5	25·1	31·9	90	..	6·9	..	3·8	0	0	30	0	10	0	3	1	7	2	7	1	0
	1730	..	..	990.9	..	28·7	26·2	25·1	31·9	79	..	6·1	.	4·1	0	0	31	0	3	0	5	0	13	2	8	0	0
Majbat	0830	..	..	..	..	27·5	25·8	25·1	31·9	87	..	6·1	..	3·4	0	0	28	2	3	5	4	2	5	4	1	3	2
	1730	..	..	..	..	88·3	26·0	25·1	31·9	82	..	4·6	..	2.3	0	0	21	0	2	2	0	4	7	3	2	10	1
Jorhat (Aerodrome)	0530	90	1002·3	992·2	..	25·1	24·7	24·5	30·7	93	..	7·5	..	4·8	0	0	18	0	4	1	1	2	5	4	1	13	0
	0830	,,	1003·2	993·2	..	27·9	25·7	24·7	31·1	84	..	7·2	..	5·7	0	0	26	0	6	1	0	1	12	5	1	5	0
	1130	,,	1002·3	992·6	..	29·7	26·4	25·1	31·9	76	..	6·8	..	10·6	0	1	27	1	6	2	0	0	10	6	3	3	0
	1730	,,	999·7	989·8	..	28·9	26·3	25·2	32·1	81	..	6·5	..	2·9	0	0	17	1	1	1	0	1	6	3	4	14	0
	2330	,,	1002·4	992·3	..	27·0	25·7	25·2	32·1	90	..	7·1	..	4·3	0	0	13	0	3	0	0	0	6	3	1	18	0
Tangla	0830	78	1003·4	994·7	..	26·9	25·6	25·1	31·9	84	..	2·8	..	2·5	0	0	18	0	0	0	7	1	10	0	0	13	0
	1730	..	1000·6	992·2	..	27·8	25·9	25·1	31·9	85	..	2·5	..	0·9	0	0	7	0	0	0	3	0	4	0	0	24	0
Tezpur	0830	79	1003·9	995·1	+1·4	26·6	25·6	25·2	32·1	92	+6	6·2	−0·4	2·3	0	0	26	0	8	3	1	5	9	0	0	5	0
	1730	,,	1000·4	991·7	..	29·2	26·4	25·2	32·1	80	..	5·1	..	1·9	0	0	25	0	3	1	0	5	15	0	1	6	0
Golaghat	0830	95	1002·4	992·8	..	27·1	25·4	24·7	31·1	87	..	7·1	..	1.8	0	0	21	0	0	8	0	12	0	1	0	10	0
	1730	..	997·1	986·6	..	29·5	26·5	25·3	32·2	78	..	(f) 2·5	..	(f) 1·7	0	0	19	3	7	0	3	0	4	0	2	6	0
Rangia	0830	60	1004.3	997.5	..	28·3	26·2	25·3	32·2	84	..	(e) 6·3	..	(e) 6·1	0	0	28	1	1	8	1	2	2	10	3	0	0
	1730	..	1001.7	994·8	..	29·4	26·5	25·3	32·2	80	..	(d) 5·4	..	(d) 5·6	0	0	26	0	0	3	1	1	3	11	7	1	0
Chaparmukh (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received * Temporarily closed. (d) Mean of 27 days. (e) Mean 28 days. (f) Mean of 25 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1964 (ASADHA 10—SRAVANA—9, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h): 62 or more	Wind speed (Km.p.h): 20 to 61	Wind speed (Km.p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(Contd.)																											
Goalpara	0830	38	1003.5	999.1	..	26·5	25·8	25·5	32·6	94	..	5·0	..	1.4	0	0	22	2	4	1	3	3	7	1	1	9	0
	1730	,,	1002·8	998·5	..	27·5	26·2	25·6	32·8	91	..	6·0	..	1·4	0	0	20	2	1	4	4	1	3	4	1	11	0
Gauhati	0830	..	..	..	..	27·5	25·2	24·1	30·0	83	0	1·1	−5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	0230	54	1001·6	995·5	..	26·6	25·6	25·2	32·1	93	..	6·7	..	2·3	0	0	12	0	4	0	0	3	2	1	2	19	0
	0530	,,	1002·1	996·0	..	26·4	25·6	25·3	32·1	94	..	7·3	..	2 5	0	0	13	2	3	0	1	0	3	3	1	18	0
	0830	,,	1003·3	997·2	+1.7	28·0	26·2	25·4	32·4	86	+5	7·3	+0·9	5 9	0	0	24	3	6	2	0	1	2	5	5	7	0
	1130	,,	1002·5	996·4	..	29·9	27·0	25·8	33·2	79	..	6·6	..	8·6	0	1	28	9	7	0	0	0	2	7	4	2	0
	1430	,,	1000·4	994·3	..	29·4	26·6	25·4	32·4	80	..	6·8	..	10 0	0	2	26	1	3	0	2	1	1	5	12	3	0
	1730	,,	1000·2	994·1	..	28·8	26·4	25·4	32·4	82	..	6·8	..	6·8	0	0	27	0	3	1	1	4	3	8	7	4	0
	2030	,,	1002·3	996·2	..	27·5	26·2	25·7	33·0	89		6·5		1·6	0	0	8	1	1	0	0	1	3	1	..	23	0
	2330	,,	1002·5	996·4	..	27·0	25·8	25·3	32·2	90	..	6·8	..	0·5	0	0	3	1	1	0	0	0	0	1	0	28	0
Dhubri (Rupsi)	0530	36	1001·8	996·6	..	25·6	25·2	25·0	31·7	96	..	7·1	..	3·5	0	0	18	0	5	1	1	7	4	0	0	13	0
	0830	,,	1003·0	997·9	..	26·6	25·7	25·3	32·2	93	..	7·1	..	4.8	0	0	22	1	3	2	3	5	6	1	1	9	0
	1130	,,	1002 6	997·5	..	28·3	26·5	25·8	33·2	87		6·9	..	6.5	0	0	27	1	3	4	2	9	6	2	0	4	0
	1730	,,	999·7	994·6	..	28·3	26.3	25·4	32·4	85	..	6·1	..	5.3	0	1	25	0	1	4	1	11	9	0	0	5	0
Dhubri	0830	35	1003·8	999·8	+2.2	26·8	25·6	25·1	31·9	90	+5	7·0	+1.0	3·2	0	0	26	0	7	1	6	6	5	0	1	5	0
	1730	,,	1000·6	996·7	..	28·0	26·2	25·4	32·4	86	..	6·6	.	0·6	0	0	5	0	3	0	2	0	0	0	0	26	0
Lumding	0830	149	1003·5	986·7	..	28·2	25·7	24·6	30·9	81	−1	6·0		2.2	0	0	21	0	4	1	9	1	6	0	0	10	0
	1730	,,	999·7	983·4	..	29·4	26·0	24·5	30·7	76	..	5·9	..	3·0	0	0	27	0	2	0	6	4	10	0	5	4	0
Tezpur	0830	370	1004·9	963.6	..	25·0	24·6	24·3	30·4	97	..	7·7	..	3·6	0	0	27	1	0	4	4	9	4	5	0	4	0
	1730	,,	1000·8	959·0	..	26·9	25·2	24·3	30·4	92	..	7·9	..	4·7	0	0	29	2	3	1	9	5	6	3	0	2	0
Dibrugarh	0830	682	1006·5	931·4	..	22·8	21·5	20·9	24·7	90	..	7·3	..	9·1	0	0	31	0	0	0	0	12	19	0	0	0	0
	1730	,,	1000·5	926·2	..	24·6	22·5	21·5	25·6	83	..	5·8	..	8.0	0	0	31	0	0	0	0	7	24	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1002·7	991·7	..	24·5	24·2	24·1	30·0	97	..	7·4	..	4·6	0	0	22	0	3	14	2	0	1	1	1	9	0
	0830	,,	1003·7	992·8	..	26·3	24·9	24·3	31 5	89	..	7·4	..	4·9	0	0	27	0	1	15	1	2	2	1	5	4	0
	1130	,,	1002·6	991·9	..	28·4	25·6	24·4	30·5	80	..	7·1	..	6·5	0	0	27	0	6	4	1	2	3	8	3	4	0
	1730	,,	1000·6	989·7	..	27·0	25·3	24·5	30·7	88	..	7·0	..	4·8	0	1	19	1	0	5	1	1	4	4	4	11	0
Silchar	0830	29	1004·8	1001·5	+1·9	27·1	25·6	24·9	31·5	88	+3	7·1	+0·9	0·6	0	0	9	1	2	2	1	2	1	0	0	22	0
	1730	,,	1001·7	998·4	..	27·4	25·8	25·1	31·9	87	..	6·2	..	1·7	0	0	22	2	2	1	1	4	4	5	3	9	0
Imphal (Tulihal)	0530	781	1004·7	919·2	..	22·5	21·4	20·9	24·7	91	..	7·8	..	2·1	0	0	9	0	1	0	0	3	0	2	3	22	0
	0830	,,	1005·0	920·2	+0.9	24·5	22·2	21·1	25·0	82	+1	7·4	+0·4	4·2	0	0	17	0	1	1	2	4	6	2	1	14	0
	1130	,,	1003·9	919.5		26·0	23·3	22·1	26·6	79	..	7·3	..	9·8	0	2	28	2	1	0	3	4	8	6	6	1	0
	1430	,,	1001·2	917·3	..	27·0	23·5	21·9	26·3	74	..	6·8	..	10·3	0	2	26	2	0	1	3	5	2	9	6	3	0
	1730	,,	1001·6	917·3	..	25·3	22·6	21·3	25·3	79		7·0	..	10·2	0	3	23	0	1	2	1	2	1	11	8	5	0
	2030	,,	1004·1	919·1	..	23·7	22·1	21·4	25·5	87	..	7·0	..	6·2	0	1	17	1	1	2	3	5	1	2	3	13	0
	2330	,,	1004·6	919·4	..	23·0	21.8	21·2	25·2	90	..	7·5	..	4·1	0	0	14	1	3	0	1	4	1	2	2	17	0
Kailashahar	0530	29	1004·1	1000·8	..	25·3	24·8	24·5	30.7	95	..	7·8	..	3·9	0	0	21	0	0	1	0	13	4	3	0	10	0
	0830	,,	1005·1	1001.8	..	27·6	25·7	24·9	31·5	86	..	7·4	..	8·3	0	0	29	0	0	1	1	22	5	0	0	2	0
	1130	,,	1004·1	1000·9	..	29·5	26·5	25·2	32·1	79	..	6·7	..	6·4	0	0	30	0	0	1	1	11	14	3	0	1	0
	1730	,,	1002·2	998·9	..	27·5	25·9	25·3	32·2	86	..	6·9	..	7·4	0	0	29	2	1	1	0	15	7	3	0	2	0
Agartala	0230	16	1002·0	1000·3	..	25·4	24·9	24·7	31·1	96	..	6·6	..	11·9	0	1	29	0	0	0	17	13	0	0	0	1	0
	0530	,,	1002·7	1000.9	..	25·3	24·8	24·5	30·7	96	..	7·3	.	11·6	0	1	28	0	0	1	16	11	1	0	0	2	0
	0830	,,	1003·6	1001·8	+1·3	27·3	25·6	24·9	31·5	88	+3	7·3	+0·3	17·5	0	10	20	0	0	0	15	12	3	0	0	1	0
	1130	,,	1003·1	1001.3	..	29·1	26·5	25·4	32·4	81	..	7·3	..	18·0	0	12	18	0	0	0	9	12	7	1	1	1	0
	1430	,,	1001·2	999·4	.	28·9	26·3	25·2	32·1	81	..	6·8	..	18·6	0	11	20	0	0	1	3	14	11	1	1	0	0
	1730	,,	1001·0	999·2	..	27·8	25·7	24·7	31·1	84	..	6·9	..	14·5	0	8	21	0	0	0	4	22	4	0	0	2	0
	2030	,,	1002·9	1001·1	..	26·1	25·2	24·9	31·3	92	..	6·0	.	12·4	0	2	26	0	0	0	12	16	0	0	0	3	0
	2330	,,	1003·1	1001·3	..	25·7	25.0	24·7	31·1	95	..	6·6	..	12·1	0	1	29	0	0	0	18	11	1	0	0	1	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1001·3	986·5	..	25·3	24·6	24·3	30.4	94	..	7·1	..	5·3	0	1	12	0	8	4	0	1	0	0	0	18	0
	0530	,,	1001·5	986·7	..	25·0	24·5	24·3	30·4	95	..	7·5	..	6·1	0	2	13	0	6	6	1	1	1	0	0	16	0
	0830	,,	1002·8	988·1	+1.2	26·6	25·2	24·6	30·9	89	..	7·5	..	8·5	0	5	15	0	8	12	0	0	0	0	0	11	0
	1130	,,	1002·4	984.5	..	28·0	25·9	24·9	31·5	84	..	7·2	..	7·8	0	0	23	0	3	11	3	3	2	1	0	8	0
	1730	131	999·7	985·1	..	27·7	25·7	24·5	30·7	85	..	7·0	..	6·2	0	1	17	1	2	8	2	2	2	0	1	13	0
	2330	,,	1002·2	987·5	..	25·7	24·9	24·5	30·7	93	..	7·3	..	7·7	0	2	17	1	12	4	0	2	0	0	0	12	0

Sub Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd.*)																											
Jalpaiguri	0830	83	1002·7	993·5	+1·3	25·9	25·0	24·6	30·9	93	+5	7·2	+1.9	7·1	0	2	25	7	4	6	2	3	2	2	1	4	0
	1730	,,	999·6	990.4	..	28·0	26·0	25·2	32·1	85	..	6.0	..	7·9	0	0	28	3	4	5	8	2	5	1	0	3	0
Cooch Behar	0830	43	1013·1	998·3	..	26·5	25·6	25·3	32·2	94	..	7.4	..	4.8	0	0	23	0	6	7	4	2	3	1	0	8	0
	1130	,,	1002·6	997·8	..	28·2	26·5	25·8	33.2	88	..	7.1	..	7 6	0	2	27	0	4	11	2	3	6	0	1	2	2
	1730	,,	1000·1	995·3	..	28·6	26·5	25·7	33.0	85	..	6·7	..	3·3	0	0	16	0	3	7	0	2	4	0	0	15	0
Balurghat	0830	26	1010.3	998.4	..	27.9	26·1	25.2	32.1	86	..	6·8	..	3·8	0	0	29	0	0	4	8	12	5	0	0	2	0
	1730	,,	998.7	995.8	..	28.7	26·2	25·1	31.9	82	..	6·0	..	3 3	0	0	27	0	0	3	14	5	5	0	0	4	0
Malda	0830	31	1002.3	998 8	+2·1	27.6	26·2	25·6	32·8	89	+7	6·7	+0·9	2·5	0	0	26	0	1	3	7	10	3	1	1	5	0
	1730	,,	999.4	995.9	..	28.5	26·5	25·7	33·0	85	..	6·1	..	1·9	0	0	20	0	0	2	7	8	3	0	0	11	0
Gangetic West Bengal																											
Berhampore	0830	19	1002.1	999·9	+1·9	27·3	26·1	25.6	32·8	92	+8	7·7	+1·0	3·3	0	0	26	0	2	3	2	11	3	5	0	5	0
	1730	,,	999·5	997.3	..	27·8	26·4	25·8	33·2	89	..	7.6	..	2·5	0	0	21	0	0	6	1	12	1	1	0	10	0
Suri	0830	..	..	..	..	27·7	25·3	24·9	31·5	85	..	7.0	..	4·6	0	0	31	0	1	1	7	18	3	1	0	0	0
Asansol	0230	126	1000.3	986 2	..	26·0	25·0	24·6	30·9	91	..	6.1	..	6·5	0	0	26	0	1	0	6	13	4	1	1	5	0
	0530	,,	1000·8	986.7	..	25.9	24·9	24.5	30·7	91	..	6·9	..	5·5	0	0	27	0	0	1	5	10	9	2	0	4	0
	0830	,,	1002·1	988·0	+3·1	28·1	25·6	24.5	30·7	80	−5	7.0	+0.2	6·5	0	0	28	0	0	1	6	10	8	3	0	3	0
	1130	,,	1001·6	987·6	..	30·6	26·5	24.7	31.1	71	..	6·9	..	7·5	0	1	30	1	0	1	5	8	7	8	1	0	0
	1430	,,	999·4	985·5	..	30.3	26·3	24·6	30·9	73	..	7·1	..	8·3	0	1	30	1	1	2	4	9	3	8	3	0	0
	1730	,,	999·4	985.4	..	28 3	25·6	24·5	30·7	80	..	7.3	..	7·9	0	0	30	1	1	1	5	10	7	5	0	1	0
	2330	,,	1001·7	987.5	..	26·5	25·1	24·6	30·9	90	..	6.2	..	6·6	0	0	27	0	1	1	6	13	4	2	0	4	0
Shanti Niketan	0830	59	1002·6	995·9	..	27·5	25·8	25·1	31.9	87	..	6·8	..	9·4	0	1	27	0	1	0	4	14	9	0	0	3	0
	1130	,,	1002·3	995.7	..	29·8	26·7	25 5	32.6	78	..	6·6	..	7·0	0	3	23	0	1	1	4	11	7	2	0	5	0
	1730	,,	999·7	993·1	..	28·1	26·1	25·3	32·2	85	..	7·1	..	8·3	0	1	26	1	1	0	4	16	4	0	1	4	0
Krishnanagar	0830	15	1002·8	1001·2	+2·6	28·1	26.6	25·9	33·4	89	+6	5·1	−1.5	1.7	0	0	19	0	0	1	0	17	1	0	0	12	0
	1730	,,	992·9	991·3	..	28·1	26·3	25·5	32·6	85	..	5·3	..	0·3	0	0	5	0	0	1	0	4	0	0	0	26	0
Purulia	0830	255	1001.9	973.7	+1·4	27·0	25.0	24·1	30·0	84	+1	7·3	+0.8	5·1	0	0	29	0	2	0	9	10	8	0	0	2	0
	1730	,,	999·1	971·1	..	28·1	25·3	24·1	30·0	80	..	7.4	..	4·5	0	0	29	0	3	1	8	11	3	0	3	2	0
Bankura	0830	100	1001·3	990·2	..	27·9	25·6	24·6	30·9	83	..	4·7	..	1·7	0	0	19	0	1	1	2	1	11	3	0	12	0
	1730	,,	999·0	987·8	..	28·1	25·9	25·0	31·7	85	..	6·2	..	1·9	0	0	18	0	3	1	5	0	6	0	3	13	0
Burdwan	0830	32	1002·7	999·1	+2.8	28·3	26.6	25.9	33·4	87	+3	5.3	−1·3	3.5	0	0	25	0	1	3	0	9	12	0	0	6	0
	1730	,,	999·9	996·3	..	27 6	26·2	25·6	32.8	88	..	5.7	..	6·4	0	0	28	0	0	9	2	12	5	0	0	3	0
Barrackpore (Aerodrome)	0530	7	1002·1	1001·3	..	26·2	25·4	25·1	31·9	95	..	6·1	..	7.1	0	1	22	0	0	3	2	5	11	2	0	8	0
	0830	,,	1003·1	1002·4	+2·1	28·4	26·2	25·3	32·2	83	−2	6·5	−0·4	11·9	0	1	28	0	0	1	3	7	16	2	0	2	0
	1130	,,	1002.9	1002·2	..	30·0	26·8	25·5	32·5	77	..	6·8	..	13·4	0	3	27	0	0	2	1	7	17	2	1	1	0
	730	,,	1000·8	1000·1	..	28·1	26·0	25·1	31·9	85	..	6·5	..	8·9	0	2	24	0	0	0	4	10	10	2	0	5	0
	2330	,,	1003·1	1002·3	..	26·5	25·4	24·9	31.5	91	..	5·2	..	7.5	0	0	23	0	0	1	1	10	9	1	1	8	0
Calcutta (Dum Dum)	0230	6	1001·1	1000·3	..	26 3	25·6	25.3	32.2	94	..	6·0	..	7·0	0	0	31	0	1	0	8	11	8	3	0	0	0
	0530	,,	1001·4	1000·7	..	26·2	25·5	25.2	32·1	94	..	6·9	..	5·7	0	1	25	0	1	1	4	9	10	1	0	5	0
	0830	,,	1002·5	1001·8	+2·0	28·5	26·4	25·5	32·6	84	+1	7·2	+0·2	8·5	0	1	29	0	0	2	5	7	15	1	0	1	0
	1130	,,	1002·3	1001·6	..	30·0	26.9	25·7	33·0	79	..	7·3	..	8.6	0	1	30	0	0	2	2	8	17	2	0	0	0
	1430	,,	1000·3	999.6	..	29.2	26.7	25·7	33·0	82	..	7·4	..	7·8	0	0	30	0	0	2	7	10	10	1	0	1	0
	1730	,,	1000·0	999.3	..	28·1	26·2	25·4	32·4	85	..	7·0	..	6.6	0	0	29	0	0	1	6	14	8	0	0	2	0
	2030	..	1002.2	1001·5	..	26·9	25·7	25·2	32·1	91	..	5·6	..	6.6	0	0	28	0	0	1	5	12	7	3	0	3	0
	2330	,,	1002·4	1001.7	..	26·4	25·5	25·1	31·9	93	..	5·4	..	6·5	0	0	30	0	0	1	9	10	8	2	0	1	0
Calcutta	0830	6	1002·4	1001·7	+2.4	28·7	26·4	25·5	32.6	83	0	6·3	−0.7	7·9	0	0	29	0	2	0	4	10	11	2	0	2	0
	1130	,,	1002·1	1001·4	..	30·3	26·9	25·5	32·6	77	..	6·8	..	9.6	0	0	31	0	0	2	4	10	12	2	1	0	0
	1730	,,	999·9	999·2	..	28·5	26·3	25·4	32.4	84	..	6·6	..	8.8	0	0	29	0	2	0	3	20	4	0	0	2	0
Midnapore	0830	45	1002·3	997·2	+2·4	27·7	25·8	24·9	31.5	85	+3	5.3	−0.5	4·3	0	0	27	0	1	1	0	12	11	2	0	4	0
	1730	,,	1000·1	995·0	..	27·7	25·5	24·5	30.7	84	..	6·6	..	3·9	0	0	25	0	2	0	0	14	7	2	0	6	0
Contai	0830	11	1002·5	1001·3	+2·2	28·7	26.6	25·7	33·0	84	−1	4·9	−1·2	9·3	0	2	25	2	0	0	1	6	17	0	1	4	0
	1730	,,	1001.3	999·1	..	28·4	26·7	26.1	33·1	87	..	4.8	..	12.0	0	4	24	0	0	0	1	9	16	2	0	3	0
Sagar Island	0830	3	1002·6	1002·3	+2·8	28·5	26·8	26.1	33·8	87	+5	6·2	−0·8	28·3	0	27	4	2	1	0	1	10	15	2	0	0	0
	1730	,,	1000·3	1000·0	..	28·6	26·8	26·1	33·8	86	..	6·0	..	31·0	1	28	2	1	0	0	1	14	13	1	1	0	0
Sandheads	0530	10	1001·3	1000·2	..	28·4	26·4	25·6	32·8	85	..	6.5	..	22·1	0	14	17	0	1	0	0	7	21	1	1	0	0
	0830	,,	1002·2	1001·1	+2·3	28·9	26·7	25·8	33·2	83	+1	6·3	+0.1	22·1	0	18	12	0	1	0	0	6	21	1	0	1	1
	1130	,,	1002·6	1001·5	..	29·0	26·6	25·6	32·8	82	..	6·8	..	21·2	0	14	17	0	1	0	0	8	20	1	1	0	0
	1730	,,	1000·2	999·1	..	28·9	26·7	25·8	33·2	83	.	6.6	..	27·0	2	17	12	1	0	0	0	10	19	1	0	0	0
	2330	,,	1002·3	1001·2	..	28·4	26·4	25·6	32·8	85	..	4.2	..	25.3	0	17	14	0	1	0	0	7	22	1	0	0	0

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																											
Baripada	0830	54	1003·1	997·0	..	28·3	26·0	25·1	31·9	83	..	5·9	..	5·3	0	1	27	1	1	0	1	11	12	1	1	3	0
	1730	,,	1000·8	994·7	..	28·0	26·2	25·4	32·4	86	..	6·9	..	3·3	0	0	24	1	3	2	3	8	6	1	0	7	0
Jharsuguda	0230	230	1000·9	975·2	..	25·2	24·3	23·9	29·7	93	..	7·1	..	7·2	0	0	24	0	0	0	6	8	6	3	1	7	0
	0530	,,	1001·1	975·3	..	24·8	24·2	23·9	29·7	95	..	7·3	..	6·2	0	0	24	0	1	0	5	9	5	4	0	7	0
	0830	,,	1002·4	976·7	+1·7	26·3	24·8	24·1	30·0	88	+2	7·3	+0·1	9·7	0	1	29	0	1	1	0	11	11	6	0	1	0
	1130	,,	1002·1	976·5	..	28·4	25·5	24·3	30·4	79	..	7·1	..	12·5	0	2	29	0	1	0	0	4	16	9	1	0	0
	1730	,,	999·2	973·8	..	28·4	25·5	24·3	30·4	79	..	7·5	..	11·0	0	2	27	1	0	1	3	10	6	7	1	2	
	2330	,,	1002·0	976·4	..	25·8	24·7	24·3	30·4	91	..	7·2	..	5·9	0	2	17	0	0	0	2	8	6	3	0	12	0
Keonjhargarh	0830	463	1002·8	952·1	..	26·9	24·1	22·8	27·7	79	..	5·8	..	2·0	0	0	29	0	0	0	4	3	2	18	2	2	0
	1730	,,	1000·5	949·9	..	26·3	24·0	22·9	27·9	82	..	6·2	..	2·0	0	0	31	0	0	3	3	1	5	15	4	0	0
Balasore	0830	20	1002·5	1000·3	+2·2	28·1	26·0	25·1	31·9	84	+2	7·0	+1·1	14·3	0	15	14	1	0	0	0	8	20	0	0	2	0
	1730	,,	1000·1	997·9	..	28·4	26·0	25·0	31·7	82	..	7·0	..	13·3	0	8	21	0	0	0	4	11	13	1	0	2	0
Sambalpur	0830	148	1002·1	985·6	+1·8	27·1	25·0	24·1	30·0	84	0	6·4	−0·2	6·8	0	3	27	0	0	0	3	7	13	7	0	1	0
	1730	,,	1000·1	983·7	..	27·7	25·2	24·1	30·0	81	..	6·6	..	5·2	0	0	26	0	0	0	2	10	14	0	0	5	0
Angul	0830	139	1003·0	987·5	+2·5	27·7	25·5	24·5	30·7	83	+3	7·2	+0·9	4·2	0	0	28	4	2	6	3	2	2	7	2	3	0
	1730	,,	..	..	..	28·5	24·8	23·1	28·3	73	..	7·6	..	4·3	0	0	30	1	7	3	5	3	4	3	4	1	0
Cuttack	0830	27	1003·1	1000·1	+2·4	27·8	26·0	25·2	32·1	86	+6	6·5	+0·3	8·7	0	1	23	0	0	0	0	5	16	2	1	7	0
	1730	,,	1000·9	997·9	..	28·2	25·9	24·9	31·5	83	..	6·7	..	10·8	0	3	24	0	0	0	0	9	14	2	2	4	0
Chandbali	0830	6	1003·5	1002·8	+3·6	28·0	26·3	25·5	32·6	86	+2	7·1	+0·7	12·9	0	5	26	2	0	4	5	9	10	0	1	0	0
	1730	,,	1000·7	1000·1	..	28·0	26·0	25·2	32·1	85	..	7·2	..	11·3	0	1	29	0	0	7	7	7	8	1	0	1	0
Bolangir	0830	190	1003·1	981·8	..	27·5	25·2	24·1	30·0	82	..	6·3	..	3·9	0	0	31	0	0	2	3	13	13	0	0	0	0
	1730	,,	1000·6	979·4	..	28·0	25·3	24·1	30·0	80	..	7·1	..	2·5	0	0	28	0	0	0	3	13	11	0	1	3	0
Phulbani	0830	464	1000·9	950·1	..	26·1	23·9	23·0	28·1	81	..	6·0	..	0·5	0	0	7	0	0	0	0	1	4	2	0	24	0
	1730	,,	998·4	947·8	..	26·5	24·2	23·3	28·6	82	..	7·3	..	0·5	0	0	4	0	0	0	1	1	1	1	0	27	0
Titlagarh	0830	211	1002·4	979·1	..	27·4	24·9	23·7	29·3	82	..	4·0	..	3·8	0	0	30	0	0	0	5	3	20	0	1	1	0
	1730	,,	999·7	976·4	..	28·9	25·5	24·0	29·8	76	..	5·6	.	4·1	0	0	28	0	4	0	5	2	16	0	1	3	0
Bhubaneswar	0230	46	1002·1	996·9	..	25·7	24·9	24·5	30·7	93	..	5·8	..	11·9	0	6	23	0	0	0	0	1	25	3	0	2	0
	0530	,,	1002·2	996·9	..	25·6	25·1	24·8	31·3	95		6·0	..	10·9	0	4	25	0	0	1	0	4	18	6	0	2	0
	0830	,,	1003·5	998·3	+2·5	27·6	26·0	25·3	32·2	88	+4	6·7	−0·1	15·0	0	8	23	0	0	0	0	3	22	4	2	0	0
	1130	,,	1003·2	998·0	..	29·4	26·5	25·3	32·2	79	..	6·6	..	17·2	0	12	19	0	0	0	0	4	23	3	1	0	0
	1430	,,	1001·2	996·0	..	29·7	26·3	24·9	31·5	76	..	6·8	..	19·2	0	15	16	0	0	0	0	9	15	5	2	0	0
	1730	,,	1001·5	996·2	..	27·7	25·8	25·0	31·7	86	..	6·6	..	15·7	0	9	22	0	0	0	0	7	17	3	2	0	1
	2330	,,	1003·2	998·0	..	26·5	25·5	25·1	31·9	92	..	5·5	..	15·2	0	10	20	0	0	1	1	7	20	1	0	1	0
Puri	0830	6	1003·6	1002·9	+3·1	28·4	26·6	25·9	33·4	85	+3	6·5	+0·7	17·4	0	13	18	0	0	0	0	0	27	4	0	0	0
	1730	,,	1001·4	1000·7	..	28·5	26·7	26·0	33·6	86	..	6·2	..	19·9	0	17	12	0	1	0	0	10	15	3	0	2	0
Gopalpur	0530	17	1002·5	1000·6	..	26·5	25·6	25·3	32·2	93	..	6·6	..	12·3	0	9	16	0	0	0	0	5	20	0	0	6	0
	0830	,,	1003·8	1001·9	+3·1	27·9	26·2	25·5	32·6	87	+6	6·8	+1·8	17·2	0	12	18	0	0	0	1	7	21	1	0	1	0
	1130	,,	1003·5	1001·6	..	29·4	27·1	26·1	33·8	83	..	6·9	..	22·6	0	19	11	0	0	0	0	14	16	0	0	1	0
	1730	,,	1001·3	999·4	..	28·5	26·9	20·7	34·2	88	..	6·5	..	23·1	0	21	10	0	0	0	0	13	16	1	1	0	0
	2330	,,	1003·5	1001·6	..	27·7	26·4	26·3	33·6	92	..	6·3	..	18·4	0	18	10	0	0	1	0	9	17	1	0	3	0
Kozaget (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1001·8	985·2	+2·0	27·6	25·6	24·7	31·1	84	+2	6·3	+0·5	4·5	0	0	20	0	1	3	6	1	7	2	0	11	0
	1730	,,	999·2	982·6	..	28·1	25·5	24·4	30·5	81	..	6·2	..	4·8	0	0	22	0	1	3	9	2	5	1	1	9	0
Daltonganj	0830	221	1000·8	976·4	+9	28·5	26·1	25·1	31·9	82	..	6·0	+1·0	3·7	0	0	31	1	3	1	2	4	15	4	1	0	0
	1730	,,	997·4	973·0	..	29·4	26·6	25·4	32·4	80	..	5·0	..	5·4	0	0	31	0	2	1	5	7	10	4	2	0	0
Hazaribagh	0830	611	1001·1	934·4	+1·8	25·3	23·4	22·5	27·3	85	0	6·9	−0·2	10·3	0	1	26	0	0	1	5	2	9	7	2	4	1
	1730	,,	998·5	932·1	..	26·3	24·1	23·2	28·4	84	..	7·2	..	9·2	0	0	27	3	1	1	6	6	5	2	3	4	0
Dhanbad	0830	257	1001·1	972·5	..	26·8	25·2	24·5	30·7	87		6·5	..	3·4	0	0	26	0	0	0	16	0	6	1	0	5	3
	1730	,,	998·9	970·5	..	27·8	25·6	24·6	30·9	84	..	7·0	..	2·6	0	0	14	0	1	3	4	1	1	1	1	17	2
Ranchi	0830	655	1000·8	929·4	+1·6	24·9	22·4	21·3	25·3	79	−6	7·5	+0·9	1·9	0	0	22	4	5	7	1	0	1	0	4	9	0
	1730	,,	998·7	927·4	..	24·2	21·4	20·0	23·4	78	..	7·5	..	1·1	0	0	15	2	6	2	0	3	0	0	2	16	0
Ranchi Aerodrome	0530	652	1000·2	928·7	..	23·2	22·7	22·5	27·3	95	..	6·9		9·2	0	1	27	2	2	0	0	5	14	5	0	3	0
	0830	,,	1001·2	930·1	..	24·5	23·3	22·8	27·7	91	..	7·3	..	11·8	0	6	25	1	3	0	0	8	14	5	0	0	0
	1130	,,	1000·7	929·9	..	26·8	24·2	23·1	28·3	80	..	7·3	..	13·1	0	7	24	0	3	1	0	9	10	8	0	0	0
	1430	,,	998·8	928·3	..	26·8	24·1	22·9	27·9	78	..	7·3	..	13·6	0	5	25	1	2	1	1	7	12	7	0	0	0
	1730	,,	998·3	927·6	..	26·0	23·9	23·1	28·3	85	..	7·1	..	11·5	0	2	27	1	1	2	0	10	13	1	1	2	0

(R) Register not received.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or Height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(*Contd.*) Jamshedpur	0830	129	1001·8	987·4	+2·5	28·1	25·5	24·4	30·5	80	−1	6·9	−0·2	7·2	0	0	30	0	1	3	1	3	8	14	0	1	0
	1730	,,	998·9	984·6	..	28·8	25·8	24·5	30·7	79	..	7·4	..	5·0	0	1	21	1	1	5	3	2	5	4	1	9	0
Jamshedpur (P.B.O.)	0530	142	1000·9	985·0	..	26·0	24·8	24·3	30·4	90	..	6·8	..	3·0	0	0	16	0	1	3	4	3	5	0	0	15	0
	0830	,,	1002·0	986·2	..	27·9	25·4	24·3	30·4	81	..	6·7	..	5·3	0	0	26	0	3	1	4	9	8	1	0	5	0
	130	,,	1001·4	985·7	..	30·1	26·0	24·3	30·4	71	..	6·6	.	7.5	0	0	30	1	2	1	5	9	10	2	0	1	0
	1430	,,	999·5	983·6	..	30·4	26·3	24·5	30·7	72	..	6·9	..	8·8	0	1	29	0	4	1	6	7	8	2	2	1	0
	1730	,,	999·0	983·3	..	28·5	25·6	24·3	30·4	79	..	7·3	..	3 9	0	0	18	3	3	2	3	2	1	3	1	13	0
	2330	,,	1001·7	985·9	..	26·5	25·1	24·5	30 7	89	..	5·6	..	2·8	0	0	15	0	4	1	2	3	2	3	0	16	0
Chaibasa	0830	226	1001·7	976·6	+2.4	22·5	25·0	23·9	29·7	81	0	7·5	+1.0	4 3	0	0	27	0	1	0	0	0	25	1	0	4	0
	1830	,,	998·5	973·6	..	28·7	25·5	24·1	30·0	76	..	7·5		3·0	0	0	23	0	3	0	3	1	10	3	3	8	0
Bihar Plains Motihari	0830	66	1000·9	993·5	+1.3	27·5	26·0	25·3	32·2	89	+8	(a) 6·5	+1 5	(a) 2·1	0	0	21	0	0	15	2	0	2	0	2	9	0
	1730	..	997·9	990·5	..	29·3	26·8	25 7	33·0	83	..	(b) 6·1		(b) 0·3	0	0	4	0	0	4	0	0	0	0	0	25	0
Forbesganj	0830	61	1002·1	995·2	..	27·2	25·8	25·2	32·1	89	..	6·8	..	4·1	0	0	28	0	3	12	4	1	3	5	0	3	0
	1730	,,	998·9	992·2	..	29·2	26·5	25·3	32·2	80	..	5·7		3·2	0	0	30	0	3	15	6	0	1	5	0	1	0
Darbhanga	0830	49	1002·4	996·9	+2.6	27·5	26·6	26·3	34·2	87	+4	6·6	+0 5	3·1	0	0	15	0	1	9	2	1	1	0	1	16	0
	1730	..	1000·2	994·7	..	29·5	27·0	26·0	33·6	82	..	6·1	..	2·5	0	1	14	0	3	7	1	0	1	2	1	16	0
Chapra	0830	58	1001·0	994·5	..	29·2	26·8	25·8	33·2	83	..	7·3		3·5	0	0	29	0	5	11	6	1	4	1	1	2	0
	1730	,,	997·4	990·9	..	28·9	27·1	26·4	34·4	86	..	7·0		3·3	0	0	27	0	5	12	5	0	3	1	1	4	0
Purnea	0830	38	1002·4	998·0	+1·9	27·4	26·1	25·5	32·6	90	−5	6·6	−0.7	4·9	0	1	29	1	0	18	0	3	5	2	1	1	0
	1730	,,	998·7	994·6	..	29·0	26·5	25·5	32·6	82	..	5·1	..	4·8	0	0	29	1	2	10	5	6	4	1	0	2	0
Patna	0830	53	1001·1	995·2	+1.7	27·9	25·8	24·9	31·5	84	..	7·0	+0·4	8·1	0	0	28	0	4	7	2	5	8	2	0	3	0
	1730	,,	998·3	992·3	..	29·7	26·4	25·1	31·9	77	..	6·2	..	5·2	0	0	19	2	6	6	0	0	4	1	0	12	0
Patna Aerodrome	0530	60	999·5	992·7	..	26·2	25·5	25·2	32·1	94	3 +	6·8	.	8·1	0	3	18	0	0	9	3	4	4	0	1	10	0
	0830	,,	1000·7	993·9	..	28·0	26·0	25·2	32·1	85		6·9		11·5	0	4	25	0	0	9	4	4	7	3	2	2	0
	1130	,,	1000·4	993·7	..	29·7	26·5	25·2	32·1	77	..	7·0	.	12·3	0	7	22	0	0	9	2	3	10	4	1	2	0
	1430	,,	998·4	991·7	..	30·2	26·7	25·3	32·2	76	.	6·9	.	12·6	0	8	21	0	3	7	3	2	4	7	3	2	0
	1730	,,	997·8	991 0	..	29·6	26·6	25·4	32·4	76	..	6·4	..	7·3	0	2	22	3	1	10	2	0	1	6	1	7	0
	2330	,,	1000·1	993·3	..	27·4	26·1	25·5	32 6	90	..	6·0	..	8 6	0	4	15	0	0	8	2	1	4	2	2	12	0
Bhagalpu	0530	49	1000·7	995·2	..	26·0	25·5	25·3	32·2	95	.	7·5	..	4·1	0	0	21	0	0	8	5	2	4	2	0	10	0
	0830	,,	1001·8	996·4	+1·1	28·2	26·5	25·8	33·2	87	+3	7·5	−0·7	6·2	0	0	26	0	0	6	10	3	3	3	1	5	0
	1130	,,	1001.6	996·1	..	29·9	27·0	25.9	33·4	80	..	7·3		7·7	0	2	27	0	1	6	8	2	9	2	1	2	0
	1730	,,	999·0	993·6	..	28·9	26·5	25·5	32 6	83	..	7·3	..	4·6	0	0	23	0	0	7	8	3	3	2	0	8	0
	2330	,,	1001·4	995·9	..	26·9	26·0	25·7	33·0	[illegible]	..	6·5	..	3·3	0	0	21	0	0	6	11	2	2	0	0	10	0
Sabaur	0830	37	1001·6	997·4	+2.0	27·8	26·5	25·9	33·4	[illegible]	+6	7·1	+0·4	6·9	0	0	30	0	0	7	7	4	8	4	0	1	0
	1730	,,	998·8	994.7	..	28·9	26·9	26 1	33·8	85	..	7 1	.	6·5	0	0	25	0	0	10	2	4	2	6	1	6	0
Jamui	0830	82	1004·2	994·8	..	28·0	26·4	25·7	33 0	88	..	3·3	.	2·4	0	0	24	1	1	9	3	2	0	6	2	7	0
	1730	7	1001·3	992·0	..	28·7	26·8	26·1	33·8	85	..	2·3	.	2·8	0	0	28	0	1	15	3	0	0	6	3	3	0
Dehri	0830	107	1000·6	988·6	..	28·3	26·0	25·1	31·9	83	..	7·1	..	3·0	0	0	29	3	1	2	5	6	10	2	0	2	0
	1730		997·3	985·4	..	29 9	26·6	25·3	32·2	77	..	6·7		3·0	0	0	30	3	1	6	2	2	9	7	0	1	0
Gaya	0230	116	999·7	986·7	..	26·5	25·7	25·4	32·4	93	..	6·3	..	5.2	0	1	23	0	0	5	7	1	8	2	1	7	0
	0530	,,	999·9	986·9	..	26·3	25·4	25 1	31·9	93	..	6·6	.	5.1	0	1	21	0	0	5	4	2	8	2	1	9	0
	0830	,,	1001.0	988.2	+2·2	28·1	25·9	25·0	31·7	84	+9	6·6	+1·4	8·5	0	3	25	0	3	3	6	3	8	5	0	3	0
	1130	,,	1001·0	988.1	..	30·0	26·6	25·2	32·1	77	..	6·6	.	9·0	0	4	24	1	2	5	4	1	7	5	3	6	0
	1730	,,	998·0	985·2	..	30.1	26·6	25·1	31·9	76	..	6·5		6·8	0	4	21	0	3	5	5	1	3	4	4	6	0
	2330	,,	1000·8	987·8	..	27.3	26·1	25·6	32·8	90	..	6·3	..	4·1	0	1	18	0	0	3	5	3	6	2	0	12	0
Uttar Pradesh (East) Kheri	0830	147	999·5	983·3	+0·1	27·5	25·7	25·3	32·2	89	+3	6·1	+0·4	3·8	0	0	29	0	0	1	18	4	0	6	0	2	0
	1730	,,	996.5	980·0	..	30·3	27·1	25·8	33·2	78	..	6·4	..	6·8	0	0	23	0	0	15	2	0	0	6	0	8	0
Baharaich	0830	124	1000·4	986·6	+1·6	28·0	25·9	25·1	31·9	85	+5	7·5	+3·0	10·6	0	5	23	0	0	20	0	0	0	6	2	3	0
	1730	,,	997·4	983·6	..	29·9	26·6	25·2	32·2	74	..	6·9	..	8.3	0	1	25	0	0	15	3	0	2	6	0	5	0
Nautanwa	0830	99	1000·3	989·7	..	27·6	25.6	25·0	31·7	86	..	6·3	..	12·8	0	0	29	1	4	12	7	1	4	0	0	2	0
	1730	,,	997·8	986·9	..	29·9	26.5	25·3	32·2	78	..	5·8	..	4·1	0	0	28	0	1	11	8	1	4	0	3	3	0
Hardoi	0830	142	..	..	..	28·7	26·2	25·2	32·1	82	−2	6·0	+0·6	6.5	0	0	27	0	1	15	1	2	2	5	1	4	0
	1730	,,	..	..	..	30·5	26·5	25·0	31·7	74	..	5·3	..	4.5	0	0	30	0	1	12	3	2	4	6	2	1	0
Gonda	0830	110	1000·6	988.4	..	28·3	26·3	25·2	32 1	86	+4	7·0	+0·9	3·2	0	0	22	0	0	16	0	0	1	2	3	9	0
	1730	,,	997.5	985·4	..	29·7	26·6	25·3	32·2	79	..	5·8	..	1·7	0	0	17	0	0	13	0	1	0	2	1	14	0
Lucknow	0830	111	999·4	987·0	+0·7	28·4	26·7	25·9	33·5	87	+8	6·0	+0·2	2·8	0	0	26	0	5	3	7	5	2	2	2	5	0
	1730	,,	996·5	984.3	..	30·8	27·5	26·2	34·1	78	..	6·3	..	2·3	0	0	21	1	5	4	4	1	5	0	0	10	0
Lucknow (Amausi)	0230	128	998·3	984·0	..	26·8	25·9	25·4	32.5	91	..	6·3	..	8·0	0	3	19	0	2	7	3	2	3	5	0	9	0
	0530	,,	998·5	984·2	..	26·7	25·7	25.4	32·5	94	..	6·4	..	9·3	0	5	19	0	4	6	4	2	4	4	0	7	0

(a) Mean of 30 days. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard of isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloudamount (Oktas): Mean amount	Cloudamount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Lucknow (Amausi)	0830	128	999·6	985·5	+0·9	28·3	26·4	25·7	33·0	86	+12	6·5	+0·7	12·7	0	6	24	0	1	6	8	2	8	4	1	1	0
	1130	,,	999·6	985.5	..	30·4	27·2	25·0	33·5	78	..	6·7	..	15·4	0	11	19	1	3	4	4	7	3	7	1	1	0
	1430	,,	997·7	983·6	..	30·9	27·3	25.8	33·3	75	..	6·7	..	16·1	0	14	16	1	1	7	5	4	3	5	4	1	0
	1730	,,	996·7	982.6	..	30·1	27·1	25·9	33·4	80	..	6·5	..	14·5	0	8	22	1	2	7	8	3	3	3	3	1	0
	2030	,,	998·4	984·3	..	27·9	26·4	25·8	33·3	89	..	6·0	..	8·3	0	4	20	0	1	7	5	5	4	2	0	7	0
	2330	,,	999·3	985·1	..	27·4	26·2	25·6	33·1	91	..	5·9	..	9·0	0	3	23	1	2	5	6	2	6	3	1	5	0
Faizabad	0830	,,	999·8	988·4	..	28·0	26·2	25·5	32·6	87	..	6·8	..	4·0	0	0	29	0	1	2	11	3	7	5	0	2	0
	1730	,,	997·3	986·0	..	29·4	26·7	25·5	32·6	81	..	6·6	..	4·5	0	0	24	0	2	3	11	0	6	2	0	7	0
Gorakhpur	0830	77	1000·1	992·1	+1·4	28·3	26·2	25·2	32·0	84	+1	6·8	+2·0	1·7	0	0	26	1	0	13	2	5	3	2	0	5	0
	1730	,,	996·5	988·6	..	29·6	26·7	25·3	32·2	76	..	6·5	..	2·0	0	0	28	2	2	15	0	2	2	4	1	3	0
Gorakhpur (P.B.O.)	0230	78	999·0	990·3	..	26·9	26·0	25·5	32·6	90	..	6·1	..	5·0	0	0	23	0	3	8	3	3	3	3	0	8	0
	0530	,,	999·3	990·5	..	26·7	25·4	25·0	31·6	90	..	6·5	..	6·0	0	0	24	1	5	10	3	1	1	3	0	7	0
	1130	,,	1000·7	991·7	..	29·4	27·0	26·2	34·0	84	..	7·2	..	8·7	0	1	28	1	1	11	5	0	7	4	0	2	0
	1430	,,	998·4	990·0	..	29·9	27·2	26·3	34·2	82	..	7·2	..	7·5	0	1	27	1	3	7	5	1	2	8	1	3	0
	2030	,,	999·4	990.6	..	28·3	26·5	25·9	33·4	87	..	6·0	..	2·3	0	0	19	0	3	8	3	2	0	3	0	12	0
	2330	,,	1000·3	991·5	..	27·6	26·1	25·6	32·8	89	..	5·9	..	5·5		1	21	3	2	6	5	1	3	2	0	9	0
Kanpur	0830	126	999·6	985·3	+0.7	28·3	26·3	25·4	32.5	84	+1	5·6	+1·1	9·0		0	31	1	3	8	2	5	7	5	0	0	0
	1730	,,	996·0	982·7	..	30·9	26·8	25.2	32.0	74	..	6.2	..	8·0	0	0	27	1	0	10	0	4	5	6	1	4	0
Kanpur (Aerodrome)	0530	126	998·3	984·2	..	26.7	25·8	25·4	32·4	93	..	6.5	..	11·0	0	0	28	1	3	5	5	1	5	8	0	3	0
	0830	,,	999·9	985·6	..	28.8	26.4	25·4	32·4	82	..	6.6	..	16·7	0	0	31	0	3	5	4	4	7	8	0	0	0
	1130	,,	999·5	985·6	..	31·1	26.9	25·1	31·7	73	..	6.9	..	17·7	0	0	30	1	0	7	4	3	4	10	1	1	0
	1730	,,	996·8	982·9	..	30.6	26.0	24·3	30.4	74	..	6.6	..	17·2	0	0	31	1	3	7	5	2	3	7	3	0	0
	2330	,,	999·2	985·2	..	27.6	26.3	25·8	33·2	90	..	6·0	..	11·[illegible]		0	29	1	1	7	1	7	6	6	0	2	0
Sultanpur	0830	97	1000·8	990·3	..	28·3	26·7	26·0	33·6	88	..	3·2	..	2·4	0	0	17	0	2	6	2	0	2	3	2	14	0
	1730	,,	996·9	986·8	..	30·6	27·8	26·7	35·0	81	..	6·5	..	2·1		0	20	0	1	13	1	0	0	5	0	11	0
Azamgarh	0830	78	1000·0	991·3	..	28·4	27·4	27·1	35·9	93	..	6·8	..	6·1		0	30	0	0	18	0	0	0	11	1	1	0
	1730	,,	997·3	988·8	..	30·2	28·1	27·4	36·5	86	..	5·9	..	5·2	0	0	31	2	0	17	0	0	0	11	1	0	0
Fatehpur	0830	114	999·9	987·2	..	28·7	26·4	25·6	32·8	83	+4	5·9	+0·3	8·8		0	28	0	4	5	2	2	9	6	0	3	0
	1730	,,	997·0	984·4	..	30·3	26·7	25·3	32·3	76	..	6.3	..	7.0		0	28	0	1	6	5	2	5	6	3	3	0
Ballia	0830	64	1001·0	993·9	..	28·7	26·6	26·0	33·6	85	..	6.5	..	2.1	0	0	20	0	1	9	3	1	2	4	0	11	0
	1730	,,	999·3	992·2	..	29·5	26·9	25·5	32·6	80	..	7·2	..	1.6		0	13	0	0	9	0	0	1	3	0	18	0
Banda	0830	121	1000·5	987·5	..	29·2	26.6	25.5	32·6	81	..	5·9	..	3·4	0	0	26	0	3	1	4	2	12	3	1	5	0
	1730	,,	997·7	984·5	..	30·9	26.8	25·4	32·4	75	..	5·4	..	4·2	0	0	24	0	4	1	7	0	6	3	3	7	0
	2030	,,	998·7	987·7	..	27·3	25.8	25·2	32.1	89	..	6·3	..	3·2	0	0	21	0	4	0	0	8	6	3	0	10	0
Allahabad (Bamhrauli)	0530	98	997·8	987·8	..	26·9	25·7	25·2	32.1	90	..	6·5	..	2·8	0	0	24	0	7	1	5	1	7	3	0	7	0
	0830	,,	1000·1	989·2	+1.3	28·6	26·3	25·1	31·9	83	+4	6·7	+0·2	6·3	0	0	30	0	5	4	1	5	9	5	1	1	0
	1130	,,	1000·0	989·2	..	31·1	26·9	25·1	32·1	72	..	6·7	..	8·2	0	0	29	0	4	1	3	4	8	7	2	2	0
	1430	,,	998·1	987·3	..	31·6	27·1	25·3	32.2	69	..	6·9	..	8·9	0	2	27	0	5	3	3	1	7	8	2	2	0
	1730	,,	997·2	986·4	..	30·4	26·7	25·0	31·8	72	..	6·6	..	6·7	0	1	28	1	1	5	3	2	9	4	4	2	0
	2030	,,	998·9	988·0	..	28·6	26·2	25·2	32·1	83	..	6·5	..	2·8	0	0	23	0	3	3	4	5	3	3	2	8	0
	2330	,,	999·8	988·9	..	27.9	26·1	25·3	32·2	87	..	6·0	..	2·9	0	0	24	2	1	3	4	5	5	3	1	7	0
Varanasi (Babatpur)	0530	85	999·9	990·3	..	27·2	25·9	25·3	32·2	89	..	6·1	..	5·1	0	0	19	0	1	4	1	4	4	5	0	12	0
	0830	,,	1001·5	991·5	·1·3	28·4	26·5	25·7	33.0	85	+2	6·6	+0·2	11·3	0	2	28	0	1	9	2	1	12	2	0	1	0
	1130	,,	1001·0	991·1	..	30·4	27·2	25·8	33·2	77	..	6.6	..	12·1	0	4	25	0	2	6	4	0	9	7	1	2	0
	1730	,,	998·3	988·7	..	30·4	27·2	25.8	33·2	77	..	6·5	..	9·5	0	0	30	0	1	8	6	1	3	9	0	1	2
	2330	,,	1000·9	990·8	.	28·1	26·4	25·6	32·8	87	..	5.8	..	6.1	0	0	20	0	1	6	1	1	5	6	0	11	0
Varanasi	0830	76	999·7	991·6	+1.2	28·2	26·7	25·6	32·8	83	+3	6·1	−0·2	2·7		0	30	1	2	1	5	1	7	13	0	1	0
	1730	,,	997·1	988·7	..	30·9	27·0	25·7	33.0	75	..	6·7	..	2·7		0	30	0	7	1	2	1	6	13	0	1	0
Uttar Pradesh (West)																											
Mukhim	0830	,,	..	..	..	18·9	17·8	17·2	19·6	89	..	6·9	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	20·3	19·6	17.7	20·2	86	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0530	,,	..	..	..	25·4	23·4	22 5	27·3	85	..	6·2	..	0·5	0	0	5	1	1	0	1	1	0	0	1	26	0
	1130	,,	..	..	..	29·1	24 2	22·0	26·4	68	..	6·0	..	2.4	0	0	16	2	1	0	4	6	2	1	0	15	0
	1730	,,	..	..	.	30·1	24 1	21·6	25·8	62	..	6·1	..	3.1	0	0	20	0	1	0	2	8	7	0	0	11	2
Dehra Dun	0530	682	99[illegible]·3	924·7	..	23.5	22 7	22·3	26·0	93	..	6·8	..	2·1	0	0	16	8	3	1	0	2	0	1	1	15	0
	0830	,,	9[illegible]·9	925·5	−0 5	24·7	23 5	23·0	28·1	91	+7	6·7	+0·5	1·3	0	0	17	3	0	2	3	3	2	2	2	14	0
	1130	,,	9[illegible]·6	925·9	.	27·1	24 3	23·2	28·4	81	..	6·7	..	1·5	0	0	17	0	0	0	2	5	4	5	1	14	0
	1730	,,	996·6	923·2	.	27·7	24·7	23·6	29·1	80	..	6·0	..	2·2	0	0	22	8	1	1	0	2	3	6	1	9	0
	2330	,,	999 5	925·3	.	25·0	23·7	23·2	28·4	90	..	5·7	..	1·9	0	1	12	4	6	1	1	0	1	0	0	18	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(Contd.)																											
Roorkee	0830	274	1001·0	970.6	+2.1	26·6	24·8	24·1	30·0	86	+8	5·6	+0.5	1·0	0	0	16	0	0	0	14	0	0	0	2	15	0
	1730	,,	9964·4	966·4	..	29·8	26·2	24·5	30·	72	..	4·7	..	1·3	0	0	21	0	1	0	14	0	0	0	6	10	0
Najibabad	0830	270	1000·2	970·3	..	29·9	25·2	24·4	30·5	87	..	5·8	..	5·5	0	0	26	0	0	13	9	0	0	2	2	5	0
	1730	,,	997·9	968·5	..	30·6	26·3	24·5	30·7	73	..	6·0	..	4·4	0	0	24	0	0	9	4	0	0	9	2	7	0
Meerut	0830	222	1003·7	975·3	+1.3	27·8	25·8	24·8	31·5	85	+10	5·8	+0·7	9·9	0	2	29	2	2	6	8	2	2	4	5	0	0
Bareilly	0830	173	999·5	980.3	+0·7	28·1	26·1	25·3	32·2	86	+4	6·2	+0·4	9·7	0	2	28	0	1	4	9	6	2	2	6	1	0
	1730	,,	996·6	977·5	..	30·7	27·1	25·8	32·8	76	..	6·3	..	4·1	0	0	30	1	0	3	5	12	0	6	3	1	0
Bareilly (F.B.O.)	0230	172	998·0	979·0	..	27·6	25·7	25·1	32·0	83	..	5.6	..	6·3	0	2	22	0	1	17	1	0	0	4	1	7	0
	0530	,,	998·4	979·8	..	26·9	25·4	24·7	31·1	90	..	6·1	..	5·4	0	1	25	1	2	16	2	0	1	4	0	5	0
	1130	,,	999·6	980.5	..	30·1	26·4	24·7	31·1	75	..	6·6	..	8·2	0	2	29	2	2	9	9	0	3	4	2	0	0
	1430	,,	997·7	978·7	..	31·1	26·7	25.1	32·0	73	..	6·7	..	8·9	0	3	27	2	1	13	5	0	2	6	1	1	0
	2030	,,	997·9	978·8	..	29·2	26·3	25.2	32·1	78	.	5·2	..	5·1	0	1	28	2	2	12	4	2	4	3	0	2	0
	2330	,,	998.9	979.8	..	29.1	26.1	25.2	32.1	82	..	5.5	..	6.3	0	1	26	0	1	15	4	1	1	5	0	4	0
Aligarh	0830	187	999·3	978·0	..	28·4	26.0	24·9	31·5	82	+4	6·0	+1·2	4·0	0	0	30	1	1	11	3	2	6	6	0	1	0
	1730	,,	996·7	975·4	..	31·1	26·7	24.8	31·3	71	..	7·1	..	6·6	0	0	28	3	0	8	2	4	0	9	2	3	0
Mainpuri	0830	157	999.2	981.7	+0·6	28.5	26.2	25.3	32.2	80	+4	4.6	−0.7	3.0	0	0	31	2	3	1	7	6	7	3	2	0	0
	1730	,,	995.8	978.6	..	30.9	26.8	25.0	31.7	74	..	4.2	..	2.9	0	0	30	2	6	3	7	1	3	3	5	1	0
Agra	0830	169	999.3	980.7	+1.0	29.0	26.4	25.2	32.6	81	+7	4·0	..	0.2	0	0	1	0	0	0	0	0	0	0	1	30	0
	1730	,,	996·3	977·8	..	31·3	27·1	25·5	32·6	73	..	6.1	..	1 0	0	0	4	0	0	1	2	0	0	0	1	27	0
Agra (Aerodrome)	0230	169	997·9	979·0	..	27·3	26·3	25.8	33·2	91	..	5·7	..	10·2	0	0	25	1	0	5	6	1	4	7	1	6	0
	0530	,,	998·0	979·2	..	26·8	26·1	25.9	30.5	95	..	6.0	..	9·0	0	0	27	0	3	7	1	3	4	7	2	4	0
	0830	,,	999·2	980·5	..	29·2	27·2	26·3	34·2	86	..	5.7	..	16·0	0	8	22	0	3	4	4	3	6	8	1	1	1
	1130	,,	999.3	980·6	..	31·6	28·2	26·4	34·4	77	..	6·2	..	19·0	0	0	31	3	2	7	2	1	2	10	4	0	0
	1730	,,	995·6	977·8	..	31.5	28·1	26·9	35·4	78	..	6.4	..	17·0	0	0	31	5	2	5	3	3	1	7	5	0	0
	2330	,,	980.0	977·6	..	28·1	26·6	26·0	30·5	89	+8	5.0	..	11·0	0	0	31	0	0	4	6	1	1	9	2	0	0
Orai	0830	241	1001.8	986·1	..	29 3	27·0	26·7	35·0	82	..	6 0	..	9·5	0	0	30	0	10	0	1	0	8	4	7	1	0
	1730	,,	997·8	982·0	..	30 7	27·2	25·8	33·7	76	..	3·9	..	2·3	0	0	31	0	13	0	7	0	0	2	9	0	0
Jhansi	0830	251	1000.8	973·1	+1.7	28·1	25.4	24·0	29·8	74	−2	5·1	..	1·9	0	0	22	5	1	5	0	1	0	4	6	9	0
	1730	,,	997.1	969·9	..	32·8	26·2	24·1	30.0	67	.	6 2	..	1·3	0	0	20	5	0	6	0	2	0	5	2	11	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	998.2	963·6	..	26·0	24·2	23·2	27 0	85	..	5·8	..	1·9	0	0	5	0	4	1	0	0	0	0	0	26	0
	0830	,,	999·4	965·0	+0.8	27.7	24·5	23·0	28·1	76	+1	5·8	+0·4	6·4	0	3	17	1	2	5	2	4	1	3	2	11	0
	1130	,,	999.4	965·2	..	29·7	25·1	23·0	28·1	68	..	5·9	..	10·7	0	1	28	0	4	3	5	8	5	2	2	2	0
	1730	,,	996.4	962·5	..	31·4	25·5	22·9	27·9	62	..	5 4	..	10·7	0	0	28	3	2	3	2	6	2	8	2	3	0
	2330	,,	998.6	964·1	..	27·6	24·9	23·6	29 3	79	..	4·3	..	3·2	0	0	10	0	2	6	0	0	1	1	0	21	1
Amritsar (Rajasansi)	0530	,,	997·7	971·6	..	26·3	24·9	24·3	30 5	90	..	5·0	..	9·1	0	3	22	1	0	11	7	0	3	2	1	6	0
	0830	,,	998.8	972·8	+0.5	28·2	25·5	24·5	30.9	81	+5	5·2	+1·0	12·1	0	7	22	1	2	10	12	1	0	3	0	2	0
	1130	,,	999·1	973·3	..	30·1	25 8	24·0	29·8	72	..	5·8	..	14 3	0	10	19	1	0	10	10	2	2	1	3	2	0
	1430	,,	997.7	972·1	..	31 6	26·3	24·0	29·8	66	..	5·7	..	15·2	0	10	21	1	2	5	11	4	1	5	2	0	0
	1730	,,	996·1	970·5	..	32.2	26·2	23·6	29 2	63	..	4·7	..	12 1	0	5	25	0	2	9	6	3	1	5	3	1	1
	2030	,,	996·8	971·0	..	29·3	26·2	25·0	32·0	79	..	3·7	..	6.0	0	2	15	0	1	7	5	3	1	0	0	14	0
Adampur Aerodrome	0830	249	999·3	971·7	..	27·3	25·2	24·4	30·5	85	..	6·0	..	11.5	0	0	23	0	0	6	12	2	0	1	2	8	0
	1730	,,	996·6	970·6	..	30.9	26·5	25·0	31·7	72	..	5.3	..	17.0	0	0	30	1	2	3	10	4	0	2	8	1	0
Ludhiana	0830	247	998·5	971·5	+0.7	27·7	25·2	24·2	30·2	80	+8	5.8	+1.9	2.5	0	0	21	1	4	3	8	2	2	1	0	10	0
	1730	,,	994.8	969·1	..	31·7	26·8	24·8	31·1	69	..	4.5	..	2·2	0	0	25	1	2	1	14	0	0	1	6	6	0
Ferozepore	0830	200	998.6	976·5	..	28·4	25·8	24·8	31·3	82	..	3.7	..	3·0	0	0	27	4	12	3	2	4	1	0	1	4	0
	1730	,,	996.4	974 6	..	31·2	26·5	24·5	30·7	69	..	3.6	..	2 2	0	0	27	13	6	3	3	0	1	1	0	4	0
Halwara (Aerodrome)	0830	242	1000.0	973 7	..	27·7	25.3	24·2	30·2	83	..	5.0	..	13 0	0	0	29	2	0	5	13	4	1	1	3	2	0
	1730	,,	997.2	971·6	..	31·4	26·2	23·9	29·7	67	..	5·0	..	11·0	0	0	31	5	2	4	11	3	0	0	6	0	0
Chandigarh	0830	216	998.9	960 3	+0.1	27·2	24·7	23·6	29·1	81	+4	4·6	+0·2	2·1	0	0	14	0	2	0	3	0	0	0	9	17	0
	1730	,,	996.0	958·0	..	30·2	25·3	23·0	28·1	67	..	4·3	..	2·2	0	0	12	0	0	0	4	0	0	0	8	19	0
Ambala (Aerodrome)	0830	272	998.8	968·5	+0·2	27·3	24·2	22·9	30·2	78	+2	5·0	+0·2	1·8	0	0	19	0	3	0	14	0	0	0	2	12	0
	1730	,,	996.6	966 7	..	30·3	26·3	24·7	31·1	75	..	2·4	..	9·0	0	0	22	0	6	0	8	1	1	0	6	9	0
	0230	,,	997.4	966·6	..	27·0	25 2	24·6	30 9	87	..	4·8	..	8·9	0	6	16	0	0	3	15	0	0	3	1	9	0
Ambala (F.B.O.)	0530	233	997.7	966·8	..	25·6	24·7	24·3	30·4	91	..	5·6	..	7·4	0	2	21	0	1	2	15	0	0	3	2	8	0
	1130	,,	999.1	968·5	..	29·1	26·0	25·0	31·7	79	..	6·1	..	9·2	0	0	26	1	0	6	13	0	0	2	4	5	0
	1430	,,	997.5	967.1	..	30·8	26·5	25·0	31.7	72	..	5·7	..	9·3	0	1	28	2	0	2	16	0	2	4	3	2	0
	2030	,,	996.7	966.2	..	28·9	26·1	24·8	31·3	81	..	4.8	..	5·6	0	0	23	1	0	2	12	1	0	4	3	8	1
	2330	,,	997.8	967.1	..	28.0	25.7	24.9	31.5	84	..	4.0	..	7.2	0	1	24	1	1	4	13	0	0	2	4	6	1

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud mount (Oktas): Mean amount	Cloud mount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	W	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(Contd.)																											
Ambala (Aerodrome)—	0530	274	997·9	967·4	..	25.3	24·6	24·4	30·9	95	..	5.5	..	10.7	0	6	17	0	4	12	3	1	0	1	1	8	1
	0830	,,	999·0	963·6	..	26·8	25·2	24·4	30·5	88	..	5 6	..	13·8	0	7	21	0	4	8	10	0	0	2	3	3	1
	1130	,,	999·1	970·2	..	28·8	25·9	24·6	30·9	80	..	5·6	..	16·4	0	10	21	0	1	6	13	0	2	1	5	0	3
	1730	,,	996·0	966·0	..	30·6	26·3	24·5	30·7	73	..	5·2	..	16·0	0	5	23	0	3	7	6	1	0	5	6	3	0
	2330	,,	998·0	967·7	..	27·4	25·5	24·6	30·9	86	..	3·7	..	8.1	0	14	4	0	0	10	5	0	0	2	1	13	0
Patiala	0830	251	999·7	971·8	..	27·5	25·3	24·1	30·0	84	..	6·0	..	9.0	0	0	19	0	0	0	18	0	0	0	1	12	0
	1730	,,	996·1	968·9	..	31.1	26·3	24·3	30·4	69	..	5.7	..	8.3	0	1	23	1	0	0	14	0	0	0	9	7	0
Bhatinda	0830	211	998·6	975·6	..	28·9	26·1	24·7	31·1	77	..	3·4	..	5·5	0	2	17	0	1	0	17	0	0	0	1	12	0
	1730	249	997·8	975·1	..	31·2	27·0	24·3	30·4	67	..	3·1	..	4·0	0	1	18	1	4	4	10	0	0	0	0	12	0
Karnal	0830	240	998·1	970·5	..	27·3	25·4	24·5	32·4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	996·1	968·9	..	30·6	26·5	24·7	31·1	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	997·6	973·0	..	27·1	25.8	25·3	32·2	93	..	5·0	..	3.4	0	0	18	0	1	2	9	1	3	2	0	13	0
	0830	,,	999·0	974·5	+1·0	28·3	26.5	25·8	33·2	87	+20	4·7	+1·9	4·6	0	0	27	1	1	4	5	6	6	3	1	4	0
	1130	,,	999·2	974·8	..	30·9	27·3	26·3	34·2	79	..	5·6	..	6·8	0	0	30	1	1	3	8	1	9	3	4	1	0
	1730	,,	996.1	971·9	..	31·2	27·6	26·1	33·8	76	..	5·4	..	4·6	0	0	27	3	7	4	5	0	2	4	2	4	0
	2330	,,	998·0	973·5	..	27.9	26·3	25·6	32·8	88	..	3·9	..	2·3	0	0	15	0	3	4	3	1	2	1	1	16	0
New Delhi (Safdarjang)	0230	216	998·1	974·1	..	27·0	25·4	24·4	30·6	84	..	5·0	..	7·6	0	2	21	0	1	9	4	1	5	3	0	8	0
	0530	,,	998·0	974·0	..	26·9	25·2	24·5	30·7	88	..	5·6	..	7·1	0	0	26	0	3	11	3	1	5	1	2	5	0
	0830	,,	999·3	975·3	+0·7	28·0	25·7	24·7	31·1	83	+9	5·8	+0.3	12·5	0	4	27	1	2	10	2	4	7	2	3	0	0
	1130	,,	999.3	975.4	..	30.2	26·3	24.6	30.9	74	..	6.3	..	14.6	0	8	23	2	3	8	3	0	4	9	2	0	0
	1430	,,	997.8	974.1	..	31.5	26·6	24.5	30.8	66	..	6.2	..	14.0	0	22	9	1	3	9	3	0	4	6	5	0	0
	1730	,,	996.6	972.8	..	31·1	26.3	24·3	30·5	70	..	6·1	..	9·7	0	3	27	1	4	5	4	2	2	6	6	1	0
	2030	,,	997.6	973.7	..	29·3	26.1	24·7	31·1	78	..	5·6	..	6·6	0	2	19	1	1	9	2	1	3	3	1	10	0
	2330	,,	998.7	974.7	..	28·3	25·5	24·3	30·4	79	..	4·8	..	8·0	0	2	22	0	2	8	6	0	6	2	0	7	0
Palam (Aerodrome)	0230	233	998·0	972·1	..	27·6	25·2	24·3	30·4	84	..	5·1	..	11·6	0	5	26	0	1	1	12	3	7	6	1	0	0
	0530	..	998·0	972·0	..	26·7	25·0	24·2	30·2	87	..	6·0	..	10·5	0	2	26	1	1	4	10	2	4	4	2	3	0
	0830	..	999·2	975·0	..	27·8	25·4	24·3	30·4	82	..	5·8	..	12·0	0	2	27	0	1	3	9	2	4	8	2	2	0
	1130	,,	999·5	973·9	..	30·0	26·2	24.5	30·7	71	..	6·2	..	16·0	0	0	31	3	2	3	8	2	2	7	4	0	0
	1430	,,	997·7	972·3	..	31·7	26·4	24·3	30·4	68	..	6·2	..	16·2	0	5	26	4	2	5	6	1	2	7	4	0	0
	1730	,,	996·8	971·5	..	31·3	26·0	24·2	31·2	68	..	6·0	..	14·2	0	5	26	3	3	4	6	2	0	7	6	0	0
	2030	,,	998·0	972·1	..	27·6	25·2	24·3	30·4	84	..	5·1	..	11·6	0	5	26	0	1	1	12	3	7	6	1	0	0
	2330		998.6	972.8	..	28.2	25 5	24.3	30.4	80		5.0	..	11.8	0	1	29	0	0	2	13	4	5	4	2	1	0
Himachal Pradesh																											
Mandi	0830	761	999·0	916·8	+0·2	25·1	22·8	21·8	26·1	82	-6	5·9	−0.3	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	996·2	914·9	..	27·2	23·6	22·0	26·4	75	..	6·7	..	0	0	0	1	0	0	0	0	0	0	0	1	30	0
Bilaspur	0830	587	999·3	934·9	..	25·4	24·0	23·2	28·4	88	..	0·5	..	1·9	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	997·2	933·4	..	29·3	25·4	23·8	29·5	74	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Miagar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3075·9	664·3	..	7·8	2·7	−4·2	4·4	42	..	4·3	..	5·0	0	0	27	16	7	2	0	1	0	1	0	4	0
	0830	,,	3067·7	664·6	+0·3	17·0	7·7	−2·0	5·2	29	−24	3·5	−0.2	3·0	0	0	14	1	0	2	1	9	0	1	0	17	0
	1730	,,	3070·2	665·3	..	22·0	12·2	5·9	9·3	39	..	3·2	..	6·0	0	0	29	1	5	0	1	2	7	3	10	2	0
Srinagar	0830	1587	1433·6	835·2	+1.3	21·1	18·1	16·6	18·9	77	−2	4·4	+1.0	2·6	0	0	18	2	1	3	7	2	0	1	2	13	0
	1130	,,	1429·7	835·0	..	24·6	19·3	16·7	19·0	64	..	4·3	..	3·4	0	0	24	2	3	3	1	0	0	5	10	7	0
	1430	,,	1416·2	833·9	..	26·9	20.4	16·4	18·6	56	..	3·6	..	4·1	0	0	22	4	2	2	2	4	0	4	4	9	0
	1730	,,	1403·9	832·8	..	26·5	19·7	16·3	18·6	55	..	3·5	..	3·5	0	0	24	4	1	1	6	2	1	2	7	7	0
	2030	..	1412·0	833·3	..	22·5	18·8	16·9	19·2	71	..	3·0	..	2·4	0	0	15	7	1	1	1	2	0	0	3	16	0
Srinagar (Aerodrome)	0530	1666	1418·4	826·3	..	18·2	16·0	14·6	16·6	81	..	4·9	..	4·4	0	0	21	0	1	2	2	3	6	2	5	10	0
	0830	,,	1425·4	827·2	..	21·1	17·3	15·2	17·3	71	..	4·8	..	3·3	0	0	17	3	4	0	3	1	0	1	5	14	0
	1130	,,	1423·8	827·2	..	23·4	18·1	15·4	17·5	63	..	4·5	..	6·7	0	1	27	2	5	5	5	1	1	3	8	3	0
	1730	,,	1398·3	824·8	..	25·9	18·7	14·6	16·6	52	..	4·6	..	3·5	0	2	21	5	1	2	3	1	0	2	8	8	1
	2330	,,	1417.2	826.3	..	20·2	17·0	15.2	17·3	74	..	3·4	..	2·1	0	0	10	2	0	1	1	1	0	0	5	21	0
Gulmarg	0830	2655	3078.2	736.1	0	15·5	12·9	11·2	13·3	77	+3	4.9	+1.1	3·3	0	0	11	2	9	0	0	0	0	0	0	20	0
	1730	,,	3070.7	735.2	..	17.5	14.3	12.2	14.2	73	..	4.7	..	2.7	0	0	16	0	6	3	2	2	3	0	0	15	0

(R) Reference not received

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amoun (Oktas): Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: NE	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu & Kashmir (*Contd.*)																											
Quazigund	0830	..	..	..	..	20·1	17·2	15·7	17·8	76	..	5·2	..	1·9	0	0	18	0	0	1	7	2	3	3	2	13	0
	1730	..	..	..	..	24·1	18.8	16.1	18.3	63	..	4.8	..	7·3	0	0	24	0	0	1	2	0	14	2	5	7	0
Banihal	0830	..	..	..	..	20·7	17·9	16.4	19.2	74	..	4.9	..	1·1	0	0	5	0	0	2	0	2	0	0	1	26	0
	1730	..	..	..	..	24·3	19.2	16·6	19.1	63	..	4.5	..	5·6	0	0	22	0	0	3	2	10	1	1	5	9	0
Jammu	0830	366	..	..	..	27·8	24.8	23.4	29·3	78	+8	4.8	+0.7	2·9	0	0	26	7	8	3	2	3	2	0	1	5	0
	1730	,,	..	..	..	32.1	26·1	23·5	28·8	63	..	4·2	..	4·7	0	0	30	3	4	0	3	9	0	6	5	1	0
Jammu (Aerodrome)	0530	292	997·1	965·2	..	26·7	24·0	22·8	27·8	76	..	5·5	..	5·3	0	0	19	0	7	3	5	2	0	1	1	12	0
	0830	,,	999·1	967·6	..	27·5	24·6	23·4	28·8	79	..	5·2	..	6·7	0	1	23	0	10	2	6	2	1	2	1	7	0
	1130	,,	998·9	966·8	..	29·9	25·6	23·7	29·3	70	..	5·0	..	9·4	0	3	22	1	3	1	8	5	2	3	2	6	0
	1730	,,	996·1	964·3	..	31·9	26·0	23·3	26·6	62	..	4·5	..	8·3	0	1	23	2	2	0	6	6	3	5	0	7	0
	2330	,,	997·9	965·5	..	28 3	24·9	23·4	28·8	75	..	3·3	..	4·2	0	1	14	0	4	3	5	1	0	2	0	16	0
Rajasthan (West) Ganganagar	0530	177	996·9	977.2	..	27·5	25·4	24·1	30·0	83	..	4·2	..	4.6	0	0	20	0	2	4	2	4	8	0	0	11	0
	0830	,,	998·0	978·4	+0·6	29.1	26 0	24·6	30.9	78	+14	4.0	+1·8	4·2	0	0	26	0	2	9	2	5	7	1	0	5	0
	1130	,,	998·2	978·8	..	32·3	26·5	23·9	29·6	65	..	5·4	..	6·6	0	0	23	0	1	6	3	2	4	6	1	8	0
	1730	,,	995·3	976·0	..	33.5	26·7	23·7	29·3	60	..	4·2	..	4·0	0	0	24	3	0	8	3	2	4	1	3	7	0
	2330	,,	997.3	977·7	..	29.2	25.9	24·4	30·5	77	..	2·9	..	3·7	0	0	15	0	0	5	6	2	2	0	0	16	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	997.3	977.0	..	30.4	27·3	26·2	33·6	76	..	2·5	..	(b) 11·4	0	0	29	2	1	0	0	1	22	2	1	0	0
	1730	,,	993·8	973·4	..	32·0	28.0	26·0	34.6	70	..	1·3	..	(c) 7·1	0	1	27	5	2	2	7	0	9	2	1	0	0
Churu	0830	291	999·2	967·1	..	28·9	24·9	23.1	28·3	41	..	4.8	..	14.9	0	12	17	2	1	2	1	4	3	15	1	2	0
	1730	,,	995.8	964·2	..	33·1	25·3	21·5	25.6	56	..	5·5	..	13.0	0	6	23	4	3	3	1	4	1	12	1	2	0
Bikaner	0830	224	998·6	973·9	+0·8	29·4	27·3	26.4	34.2	85	+19	2.1	−0.8	7.0	0	1	28	1	0	0	2	0	15	9	2	2	0
	1730	,,	994·5	970.4	..	35.4	28·8	25·9	34.4	63	..	2·2	..	7.2	0	0	29	2	1	0	4	1	16	4	1	2	0
Bikaner (P. B. O.)	0530	,,	996·9	972·2	..	28·4	25·8	23.6	28.9	76	..	4.1	..	6.3	0	2	22	0	0	0	0	3	17	4	0	7	
	1130	,,	998·2	973·7	..	32·7	26·0	22.7	27.8	57	..	4·6	..	9.0	0	2	29	4	0	0	0	8	14	5	0	0	0
	2330	,,	997.4	972·7	..	30·5	25·2	22·7	27.8	65	..	4·0	..	5·3	0	1	20	1	0	0	1	6	12	1	0	10	0
Nagaur	0830	298	999·9	966·9	..	29·7	26.4	25·0	31.7	77	..	4.8	..	9·6	0	0	31	1	2	0	1	7	11	6	3	0	0
	1730	,,	995·7	963·3	..	31·8	27.2	25·3	32·2	63	..	5·5	..	8·9	0	0	31	2	1	1	2	11	10	2	2	0	0
Phalodi	0830	234	999·1	973·0	..	28·9	25.3	23.6	29·1	74	..	4·3	..	16·4	0	10	21	0	0	0	1	4	18	5	3	0	0
	1730	,,	996.2	970·9	..	35·1	25·7	20.9	24.7	46	..	4·0	..	17·7	0	12	19	0	2	2	3	2	18	3	1	0	0
Jaisalmer	0830	242	997.8	971.2	..	28·4	23·1	20·3	23.8	62	..	4·5	..	17.7	0	11	20	0	0	0	0	15	13	3	0	0	0
	1730	,,	995.1	968·6	..	35·5	27·1	22·8	27·7	53	..	5·5	..	17.4	0	9	22	1	1	0	1	15	10	3	0	0	0
Jodhpur	0230	224	998·2	973·4	..	28·9	25·5	24.0	29·8	76	..	4·0	..	12·0	0	6	23	0	0	0	0	1	20	8	0	2	0
	0530	,,	998·4	973·5	..	27·8	25.3	24·2	30.2	82	..	5·6	..	11·5	0	2	27	0	0	0	1	2	19	6	1	2	0
	0830	,,	1000·0	975·1	+2·3	28.5	25·8	24.9	31.2	80	+10	6.0	+0.3	12·0	0	2	28	0	0	0	0	0	19	9	2	1	0
	1130	,,	999·8	975·2	..	31 8	26·5	24.4	30.6	66	..	5·9	..	12·6	0	4	26	1	0	1	0	1	20	5	2	1	0
	1430	,,	997·8	973·5	..	34·4	26·8	23 4	28.8	55	..	6·1	..	15·0	0	10	20	0	2	0	2	3	19	3	1	1	0
	1730	,,	996·6	972·0	..	34·1	26·4	23·0	28·3	56	..	5·8	..	15.0	0	8	22	1	1	4	2	0	16	6	0	1	0
	2030	,,	997·5	972·9	..	31·9	25·9	23·1	28·3	62	..	5·3	..	10·0	0	0	31	0	0	1	1	4	21	4	0	0	0
	2330	,,	998·9	974·2	..	30·0	25.7	23·8	29·5	71	..	4·6	..	11·2	0	5	25	0	1	1	0	2	21	4	1	1	0
Barmer	0530	194	998.0	976.3	..	26·7	25·0	24.2	30·2	86	..	4·4	..	4.3	0	0	28	0	0	0	1	4	14	8	1	3	0
	0830	,,	999·1	977·4	+0·5	28.4	26·2	25.3	32.2	84	+8	5·0	−0.4	3.4	0	0	28	1	0	0	0	2	18	7	0	3	0
	1130	,,	999.0	977·7	..	32 0	27·2	25.2	32.1	68	..	5·3	..	4.1	0	0	29	1	0	0	1	2	17	6	2	2	0
	1730	,,	995·6	974·5	..	34·8	28.0	25·2	32.1	59	..	4·8	..	4·0	0	0	29	0	1	0	4	2	15	6	1	2	0
Erinpura (Jawai Dam)	0830	295	1000·3	967·9		27·2	24·7	23.6	27·4	81	..	5·4	..	4·2	0	0	23	0	0	0	2	6	11	4	0	8	0
	1730	,,	997·7	965·4	..	30·8	26·1	24·1	30·0	70	..	5·3	..	5·3	0	0	29	0	0	0	1	10	9	8	0	2	1
	2330	,,	998·5	977·1	..	29·8	26·6	25.3	32·2	78	..	2·7	..	3.8	0	0	29	0	0	1	0	2	19	7	0	2	0
Munabao (R)	0830	80																									
(R)	1730																										
Rajasthan (East)—Pilani	0830	301	999·3	966·2	..	28·6	25·2	23·6	29·1	76	..	4.3	..	10·5	0	0	31	0	1	2	4	3	7	11	3	0	0
	1730	,,	996·6	963·7	..	31.2	25·6	23·0	28·1	63	..	3·9	..	11.2	0	1	29	3	3	5	1	0	11	6	1	1	0
Sikar	0830	433	966·5	951·7	..	27·7	24·6	23.1	28·3	77	..	5·0	..	1·0	0	0	15	0	0	2	1	0	6	4	2	16	0
	1730	,,	995·3	949.5	..	31·8	25·3	21.9	26.3	61	..	5·1	..	0.9	0	0	14	0	1	0	1	1	0	9	2	17	0
Alwar	0830	271	998.0	968·3	..	29·0	25.7	24.8	31·3	75	..	5.5	..	2·0	0	0	19	1	3	1	2	1	5	2	3	12	0
	1730	,,	995.6	966·3	..	32·8	26·4	23.8	29·5	65	..	5.5	..	1·5	0	0	18	1	1	3	3	0	7	2	1	13	0
Jaipur (Sanganer)	0230	390	997.8	954·9	..	27.1	24·7	23.5	28·9	81	..	4.8	..	2·7	0	0	14	0	0	2	0	0	5	6	1	17	0
	0530	,,	998·0	955.0	..	26.3	24·6	23·8	29·5	86	..	5.5	..	2·6	0	0	10	0	0	0	0	0	3	5	2	21	0

(R) Register not received. (b) Mean of 29 days. (c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: A mean or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour Km.	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(Contd.)																											
Jaipur (Sanganer)—(Contd.)	0830	"	999·1	956.4	−0·1	28.3	25.2	23·8	29·5	78	+4	5.6	+0.4	9·2	0	2	22	0	0	3	1	0	1	13	6	7	0
	1130	"	999·0	956·6	..	30·7	25·5	23·2	28.4	66	..	6·2	..	11·0	0	5	23	3	0	4	1	0	1	15	4	3	0
	1430	390	997·1	954·9	..	31·9	25.4	22·4	27·1	60	..	6·4	..	9·7	0	4	22	1	1	2	3	1	3	11	4	5	0
	1730	"	995.8	953·6	..	31·8	25·3	22·1	26·6	59	..	6·4	..	8.3	0	2	25	2	2	3	1	1	3	11	4	4	0
	2030	"	997·4	954·8		29·4	25·0	22·9	27.9	70	..	5·7		4·7	0	1	17	1	2	3	1	1	2	6	2	13	0
	2330	"	998·5	955·7	..	28·1	24·9	23·4	28·8	77	..	4·8	..	2·3	0	0	13	0	0	2	1	0	5	4	1	18	0
Dhopur	0830	176	998·9	979·4	..	29·1	25·9	24 5	30·7	78	..	4·7	..	6·6	0	2	5	0	3	1	3	1	6	13	0	4	0
	1730	"	995·4	976·2	..	32·5	26·4	23·7	29·3	62	..	6·3	..	6·7	0	0	29	1	1	3	1	1	3	14	5	2	0
Ajmer	0830	486	999·7	946·6	+0·3	27·3	24·1	22·7	27·6	76	+2	5·5	+0·7	15·4	0	11	19	0	0	0	0	1	16	13	0	1	0
	1730	"	996·2	943·9	..	31·1	24·6	21·6	25·8	60	..	6·6	..	14·3	0	8	23	1	2	1	3	1	11	10	2	0	0
Tonk	0830	272	998·7	968·7	..	29·2	26·7	25·4	32·4	81	..	5·1	..	10·0	0	0	30	0	2	0	1	2	10	10	5	1	0
	1730	"	995·2	965·2		32·3	27·6	25·5	32·6	70	..	5·5		5·7	0	0	30	0	2	5	4	1	6	3	9	1	0
Bhilwara	083	425	1000·4	953·7	..	27·7	24·4	22·8	27·7	75	..	7·6	..	12·0	0	0	30	3	0	0	0	1	18	5	3	1	0
	1730	"	997·0	951·0	..	31·2	24·5	21·2	25·2	58	..	1·0	..	12·0	0	2	28	0	2	1	1	2	13	8	3	1	0
Kota (Aerodrome)	0530	274	998·7	968.3	..	26·8	24·4	23·3	28·6	81	..	6·1	..	14·4	0	7	24	0	2	0	0	1	14	14	0	0	0
	0830	"	1000·3	969·9	..	28·3	25·1	23.7	29·8	76	..	6·4	..	14·5	0	8	21	1	0	0	1	0	12	14	1	2	0
	1130	"	1000·2	970·2	..	31·1	25·5	23·1	28·3	63	..	6·9	..	15·6	0	10	21	1	1	1	0	0	11	13	4	0	0
	1730	"	997·1	967·2	..	31·2	25·4	22·7	27·6	63	..	7·2	..	12·7	0	9	22	1	0	0	0	3	16	8	3	0	0
	2330	"	999·7	969·4	..	28·3	25·1	23·7	29·3	77	..	5·4	..	15·0	0	9	22	1	0	3	0	1	20	5	1	0	0
Kota	0830	257	1000·1	971·7	+0·1	29·0	25·5	23·9	29·7	74	+4	6·2	+0·9	13·8	0	3	25	0	0	0	0	0	9	10	9	3	0
	1730	"	997·5	969·4	..	31·2	25·8	23·3	28·6	65	..	6.5	..	11·0	0	3	25	1	0	1	1	0	13	9	3	3	0
Chambal (Rawat Bhatta Dam)	0830	351	1000·7	962·0	..	27·2	24·9	24·0	29·8	82	..	4·5	..	10·7	0	2	29	0	0	0	1	1	13	8	8	0	0
	1730	"	997·4	959·1	..	30·1	25·6	23·7	29·3	70	..	5·0	..	10.8	0	4	26	2	3	0	1	4	9	8	3	1	0
Udaipur	0230	582	999·9	936·3	..	25·3	23·2	22·3	27·1	84	..	6·2	..	2·3	0	0	13		0	0	2	2	6	2	0	18	0
	0530	"	1000·0	936·2	..	24·6	22·8	22·0	26·4	86	..	6·7	..	1·7	0	0	13	0	0	0	1	2	8	1	1	18	0
	0830	"	1001·0	937·4	+0·7	25·8	23·0	22·2	26·5	80	+4	7·0	+1·6	2·5	0	0	15	0	0	0	0	3	9	2	1	16	0
	1130	"	1001·2	937·9	..	28.0	24·2	22·4	27·1	72	..	7·0	..	4·2	0	0	25	1	0	0	0	3	15	6	0	6	0
	1730	"	998·5	935·6	..	28·4	24·3	22·4	27·1	71	..	6·7	..	4·5	0	0	75	0	0	0	1	5	14	4	1	6	0
	2330	"	1001·1	937·5	..	25·6	23·5	22·6	27·4	83	..	5·8	..	2.8	0	0	15	0	0	0	0	0	3	12	0	16	0
Jhalawar	0830	321	1000.1	964·7	+0.4	27·8	24·6	23·1	28·3	76	−5	5·3	−1·0	14·3	0	7	24	0	1	0	0	0	13	17	1	0	0
	1730	"	996·8	961·9	..	31·0	25·1	22·3	26·9	62	..	5·7	..	14.6	0	9	22	3	1	1	1	2	10	11	2	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	997·9	974·9	..	27·6	25·3	24.3	30·4	83	..	5·6	..	7·5	0	2	24	1	1	2	1	3	9	7	2	5	0
	0530	"	998·1	975·1	..	27·2	25·2	24·3	30·4	85	..	6·1	..	6·1	0	1	22	1	1	3	0	4	6	7	1	8	0
	0830	"	999·4	976·5	+1·2	28·9	25·8	24·4	30·5	78	+1	5·9	+0·1	7·9	0	2	27	2	1	3	0	2	9	11	1	2	0
	1130	"	999·4	976·6	..	31·5	26·4	24·2	30.2	67	..	6·5	..	10·3	0	3	25	3	3	1	3	0	5	11	2	3	0
	1430	"	987·3	974·7	..	33·0	26·7	24·0	29·8	61	..	6·8	..	11.9	0	5	25	2	4	2	1	2	4	8	7	1	0
	1730	"	996·4	973·8	..	32·1	26·5	24.0	30·0	65	..	7·0	..	9·5	0	0	29	4	1	4	2	2	3	12	1	2	0
	2030	"	997·9	975·1	..	29·4	25·9	24·4	30·5	75	..	6·2	..	5·2	0	0	26	2	0	3	1	6	9	5	0	5	0
	2330	"	999·1	976·2	..	28·5	25·8	24.6	31·1	81	..	5·5	..	5·8	0	0	22	1	0	1	1	6	9	3	1	9	0
Sheopur	0830	235	999·9	973·8	+0·6	28·3	25·5	24·4	30·5	81	+1	6·1	−0·7	10.1	0	1	30	1	2	0	2	9	12	4	1	0	0
	1730	"	996·0	970·3	..	31·3	26·0	23·7	29.3	66	..	7·0	..	14·6	0	7	24	4	3	2	2	1	7	9	3	0	0
Shivpuri	0830	464	1000·0	949 0		26·4	24·2	23·3	28·6	83	..	5·1	—	12·6	0	3	28	1	0	2	0	8	14	12	2	0	0
	1730	"	996·6	946 3	..	29·1	24·9	23·1	28·4	71	..	5·9	..	8·4	0	1	29	1	6	2	1	1	5	6	8	1	0
Nowgong	0830	229	1000·1	974·7	+0·7	27·7	25·5	24·5	30·7	83	+4	6·2	0	10·8	0	1	30	1	1	2	0	6	17	2	2	0	0
	1730	"	997·3	972·2	..	29·9	26·1	24·5	30·7	74	..	6·9	..	5·4	0	0	25	2	6	0	0	0	14	3	0	6	0
Guna	0530	478	999·6	946·8	..	24·3	23·3	27·9	27·9	92	..	7·0	..	12·5	0	7	24	3	0	0	1	3	15	8	1	0	0
	0830	"	1000·8	948·3	+1.0	26·2	24·4	23·7	29·3	87	+4	6·6	+0.8	14·6	0	7	24	1	0	0	2	3	9	13	3	0	0
	1130	"	1000·5	948·4	..	28·9	25·5	24·2	30·2	76	..	7·0	..	16·3	0	11	20	1	0	2	0	0	12	11	5	0	0
	1730	"	997·2	945·4	..	29·1	25·4	23·8	29·6	75	..	7·1	..	13·7	0	7	22	0	1	0	2	4	9	11	2	2	0
	2330	"	1000·4	947·8	..	25.7	24·2	23·5	29·0	88	..	5 0	..	10·8	0	4	25	1	0	1	1	10	11	4	1	2	0
Nimach	0830	496	1001·4	946·9	+0.9	25·6	23·5	22·5	27.3	84	4	7·2	+1.4	15·0	0	10	20	0	0	1	0	0	9	19	0	1	1
	1730	"	998·3	944 5	..	29·3	24·4	22·3	26·9	68	..	7·1	..	18·1	0	15	16	1	3	1	0	0	8	16	0	0	2
Rajgarh	0830	382	1001.0	958.8	—	26·1	24·4	23·5	29·3	85	..	6·0	..	11·0	0	1	30	0	0	0	0	3	11	16	1	0	0
	1730	..	998.1	956.4	—	29·8	25·3	23·2	28·6	70	..	5·6	..	9·5	0	1	30	1	1	0	0	2	8	18	1	0	0
Sagar	0830	551	1001·0	940·5	+1.2	24·9	23·4	22·7	27·6	88	—2	6·8	+0·6	8·6	0	1	29	0	0	1	0	0	6	15	8	1	0
	1730	"	997·8	937·9	—	27·4	24·0	22·6	27·3	76	..	6·7	..	6·6	0	0	28	0	1	2	0	0	5	14	6	3	0
Ratlam	0830	486	1002·3	948·5	+0·8	24·5	23·3	22·8	27·7	91	0	7·9	+0·4	11·7	0	1	30	0	0	0	0	2	10	18	1	0	0
	1730	"	998·9	946·0	—	28·9	4·9	23·	28·6	72	..	7·3	..	13·2	0	2	29	0	0	0	0	0	14	15	2	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Bhopal (Bairagarh)	0230	528	1000·5	942·8	..	24·1	22·9	22·4	27·1	91	..	6·3	..	14·0	0	8	22	0	0	0	0	3	15	10	2	1	0
	0530	,,	1000·7	942·9	..	23·6	22·6	22·2	26·8	92	..	7·2	..	12·1	0	3	28	0	0	0	0	2	16	11	2	0	0
	0830	,,	1001·9	944·4	+1·1	25·2	23·4	22·6	27·4	86	0	7·3	+0·7	16·7	0	11	20	0	0	0	0	1	11	15	4	0	0
	1130	,,	1001·6	944·5	..	27·6	24·4	22·8	28·8	76	..	7·1	..	16·8	0	9	22	1	0	0	0	0	11	15	4	0	0
	1430	,,	999·1	942·1	..	28·7	24·4	22·6	27·3	70	..	7·2	..	17·0	0	12	19	1	0	0	1	1	11	10	7	0	0
	1730	,,	998·4	941·5	..	28·3	24·1	22·4	26·9	70	..	7·4	..	13·6	0	7	22	3	0	0	2	1	13	8	2	2	0
	2030	,,	1000·6	943·1	..	25·7	23·8	23·1	28·1	86	..	7·0	..	10·0	0	0	30	1	0	0	4	6	15	3	1	1	0
	2330	,,	1001·4	944·0	..	25·0	23·6	22·8	28·1	88	..	6·5	..	12·4	0	2	29	1	1	0	1	5	18	5	0	0	0
Ujjain	0830	489	1004·8	950·6	..	24·7	23·3	22·7	27·6	89	..	7·6	..	18.6	0	16	15	0	0	0	0	1	2	20	8	0	0
	1730	,,	1001·1	947.7	..	28·7	24.5	22·7	27·6	71	..	6·8	..	20·4	0	16	15	0	2	0	1	2	1	18	7	0	0
Narsinghpur	0830	356	1001·3	961·8	..	25·5	24.1	23.4	28·9	88	..	6·4	..	4·5	0	0	30	1	0	2	1	6	2	17	0	1	1
	1730	,,	998·5	959·4	..	28·3	24·9	23·3	28·6	76	..	6·6	..	4.8	0	0	31	5	0	2	0	10	6	6	2	0	0
Hoshangabad	0830	302	1002·2	968·5	+0.8	25·5	24·5	24·1	30.0	92	+6	7.2	+0.3	6.1	0	0	31	0	0	1	0	5	18	6	1	0	0
	1730	,,	998·8	965 6	..	28·5	25·9	24·8	31·3	82	..	6·7	..	6.0	0	0	30	1	0	2	0	1	18	6	2	1	0
Indore	0530	567	1001·1	938·5	..	23·1	22.3	21·9	26·3	94	..	6·3	..	13.4	0	6	22	0	0	0	0	0	20	8	0	3	0
	0830	,,	1002·4	940·0	+0.9	24·3	23.0	22·4	27·3	90	+3	6·5	—0.7	19·6	0	19	12	0	0	0	0	1	19	10	1	0	0
	1130	,,	1002·1	940·1	..	26.7	23·8	22.5	27·2	79	..	6·7	..	22·6	0	21	10	0	0	0	0	2	20	7	2	0	0
	1730	,,	998·5	937·1	..	28·0	24·1	22.3	27.3	73	..	6.1	..	20.6	0	14	17	0	0	1	0	3	17	9	1	0	0
	2330	,,	1002·2	939·8	..	24·0	22·9	22·4	27·1	91	..	5·9	..	14·1	0	5	24	0	0	0	0	1	16	12	0	2	0
Rajpur (Jhabua)	0830	293	1002·9	970·2	..	25·4	24·0	23·5	28·6	89	..	6·7	..	10·5	0	1	29	0	0	0	0	0	9	21	0	1	0
	1730	,,	999·7	967.4	..	28·7	25·0	23·3	28·6	74	..	6.0	..	11·9	0	4	27	1	0	0	0	0	7	22	1	0	0
Chhindwara	0830	685	1001.8	927·0	+0·8	24·2	22·7	22.0	26·4	88	+1	6·7	0	9.0	0	1	30	0	0	2	0	1	9	11	8	0	0
	1730	,,	999 0	924·8	..	26·1	23·7	22.7	27·6	82	..	7·1	..	10.0	0	2	28	1	1	0	0	3	5	13	7	1	0
Seoni	0830	619	1002·2	934·4	+1·5	24·6	23·3	22·8	27·6	90	+7	6·5	+0·2	9.5	0	0	30	0	1	0	0	2	11	12	4	1	0
	1730	,,	998·5	931·4	..	26·4	24·0	23·1	28·1	83	..	7·4	..	8·5	0	0	30	0	0	0	1	3	15	7	4	1	0
Betul	0830	653	1002·9	931.3	+1·0	23·6	22·5	22·0	26·6	91	+2	7·1	—0·6	5·9	0	0	31	0	0	0	3	1	6	14	7	0	0
	1730	,,	999·3	928·5	..	26·7	23·6	22·2	26·9	77	..	7·4	..	6·4	0	0	30	1	0	0	1	1	6	11	10	1	0
Khandwa	0830	318	1003·0	967·6	+1.1	25·9	23·7	22·7	27·6	83	+3	6·8	+0·7	3·5	0	0	31	0	0	0	1	1	22	4	3	0	0
	1730	,,	999·1	964 2	..	29·5	25.0	22.9	27·9	69	..	6·7	..	3·6	0	0	30	1	0	2	1	3	17	2	4	1	0
Madhya Pradesh (East)																											
Satna	0530	317	999·3	964·1	..	25·5	24·3	23.7	29·5	99	..	6·5	..	2·9	0	0	21	0	0	2	1	4	10	4	0	10	0
	0830	,,	1000·4	965·3	+1·5	27·0	25·0	24.2	30·2	85	+6	6·6	+0·4	3·4	0	0	26	0	0	1	0	4	7	12	2	5	0
	1130	,,	1000·3	965·4	..	29.2	25·9	24·5	30·7	76	..	6.7	..	7·0	0	1	30	2	0	4	1	1	14	9	0	0	0
	1730	,,	997·7	962·8	..	28·7	25·6	24.2	30·4	77	..	7·0	..	5·4	0	0	27	0	0	4	1	1	11	9	1	4	0
	2330	,,	1000·3	965·1	..	26.1	24 7	24·1	30.0	89	..	6·4	..	3·4	0	0	27	0	0	3	2	7	11	3	1	4	0
Sidhi	0830	,,	..	..	..	27·4	25·2	24·2	30·2	83	..	6·0	..	2·3	0	0	27	0	1	1	0	2	8	15	0	4	0
	1730	,,	.	..	..	29.0	5.7	24·3	30·4	77	..	6·5	..	2·4	0	0	31	3	1	1	0	6	5	12	3	0	0
Umaria	0830	459	1001.3	951·0	..	26.3	4·4	23.4	29.1	85	+2	6.6	—0·4	4·6	0	0	27	0	0	0	0	0	13	6	8	4	0
	1730	,,	998·2	948·0	..	27·8	4.8	23.6	29·1	80	..	7.4	..	4·1	0	0	23	0	2	0	1	2	6	5	6	8	1
Jabalpur	0530	393	1000·4	956·8	..	24·6	23·6	23.1	28.3	92	..	7·1	..	2·8	0	0	19	0	0	0	1	5	7	6	0	12	0
	0830	,,	1001·7	958·4	+1·9	26·3	24·3	23·3	28·8	84	+1	7·0	+0·3	3·6	0	0	27	0	1	1	0	5	11	9	0	4	0
	1130	,,	1001·3	958·2	..	28·7	25·1	23·4	29.0	74	..	7 2	..	6·6	0	0	30		1	0	0	1	10	17	1	1	0
	1430	,,	998·9	956.1	..	29·8	25·4	23.5	28·8	70	..	7·1	..	5·5	0	0	27	2	0	0	0	4	8	12	1	4	0
	1730	,,	998·5	955·6	..	28·3	24·9	23.3	28·6	76	..	7·4	..	4·4	0	0	25	0	1	1	0	5	7	10	1	6	0
	2330	,,	1001·5	958.1	..	25·4	24·0	23.4	29·0	89	..	7 5	..	2·8	0	0	20	0	0	0	3	10	5	2	0	11	0
Ambikapur	0830	611	1002·4	935.0	+1·3	24·8	23·4	22·7	27·8	89	+2	7.0	+1.3	6·4	0	0	27	2	0	1	1	2	13	8	0	4	0
	1730	,,	999·3	932·4	..	26·2	23·7	22.7	27.6	82	..	7 1	..	7·5	0	0	28	1	1	1	1	1	7	15	1	3	0
Pendra	0530	625	1000·8	932.3	..	23·1	22·5	22.2	26·7	95	..	7.1	..	8·5	0	3	27	2	0	0	1	14	8	2	3	1	0
	0830	,,	1002·0	933.6	+1·8	24·3	23·2	22.7	27·6	91	+7	7·1	+1·3	9·2	0	1	29	4	0	0	2	13	9	1	1	1	0
	1130	,,	1001·3	933·5	..	26·4	24·0	22·9	28 1	82	..	7·0	..	11·0	0	4	27	2	1	0	2	10	8	5	5	0	0
	1430	,,	999·1	931·5	..	27·1	24·2	23·0	28.1	79	..	6·6	..	13·0	0	5	26	2	1	0	1	17	8	1	1	0	0
	1730	,,	998·9	931·2	..	25·9	23·8	22.9	27·9	84	..	7·0	..	11.2	0	4	27	3	0	0	1	13	8	5	1	0	0
	2330	,,	1001·9	933·4	..	23·7	22·9	22.5	27·2	93	..	6·8	..	9·7	0	4	25	3	0	0	0	13	10	1	2	2	0
Mandla	0830	443	1002·0	953.1	+1·2	25·5	24·1	23.4	28·9	88	0	(a) 6·5	—0·4	(a) 1·3	0	0	8	0	0	0	0	4	2	2	0	22	0
	1730	,,	999·3	950·9	..	26·7	24·4	23·4	28.6	83	..	6·9	..	1 0	0	0	6	1	0	0	0	3	0	2	0	25	0
Champa	0830	245	1002·6	975·2	+1.8	26·4	24·8	24·1	30·0	88	+2	7·2	+0·1	4·8	0	1	26	0	1	0	3	1	14	8	0	4	0
	1730	,,	999·0	972·2	..	28·8	25·8	24·4	30·7	78	..	7·6	..	5·7	0	1	26	1	0	0	1	2	14	7	2	4	0
Raigarh	0830	220	1002.4	977·7	+1·5	26.5	25·0	24·3	30·4	88	+3	7·0	—0·3	3·6	0	0	31	0	0	1	3	5	19	1	2	0	0
	1730	,,	999.0	974·6	..	28.6	25·5	24·1	30·0	78	..	7·5	..	2·5	0	0	17	1	2	0	1	0	13	0	0	14	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h): Mean wind speed Km. per hour	Wind speed (Km.p.h): 62 or more	Wind speed (Km.p.h): 20 to 61	Wind speed (Km.p.h): 0 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(Contd.)																											
Raipur	0530	298	1001·4	968·1	..	24·6	23·7	23·2	28·4	92	..	6·8	..	7·9	0	0	27	0	0	0	1	8	14	3	1	4	0
	0830	,,	1002.9	969·7	+2·1	26·2	24·3	23·4	28·9	85	+1	6·9	+0.5	10.8	0	0	31	1	0	0	0	7	18	5	0	0	0
	1130	,,	1002·6	969·7	..	28·3	25·0	23·5	29·0	76	..	7·0	..	11.7	0	1	30	0	0	0	1	5	16	8	1	0	0
	1430	,,	1000·3	967·5	..	29.0	25·2	23·5	29.0	73	..	7·0	..	11·8	0	1	30	0	0	1	1	2	13	12	2	0	0
	1730	,,	999·7	966·9	..	29.0	25·1	23.8	28 6	74	..	7·2	..	10·6	0	1	29	0	0	0	0	7	13	9	1	1	0
	2330	,,	1002·5	969·2	..	25.8	24·4	23.8	29 5	88	..	7 0	..	8·5	0	1	28	0	0	0	1	10	16	2	0	2	0
Kanker	0830	402	1003·2	959·0	+2.4	26·4	23·9	22·7	27·6	81	—1	7·1	0·3	2·7	0	0	15	0	0	0	0	1	9	5	0	16	0
	1730	,,	1000.3	956·3	..	27·7	24·8	23·4	28·7	79	..	7·0	..	2·1	0	0	22	1	0	0	0	0	16	4	1	9	0
Jagdalpur	0530	553	1002·6	941·6	..	23·2	21·9	21·3	25·3	90	..	7·0	..	3·1	0	0	11	0	0	0	0	2	7	2	0	20	0
	0830	,,	1003·6	943·0	+1·7	25·0	22·8	21·9	26·1	83	—1	6·8	+0·2	7.5	0	1	26	0	0	0	1	6	18	2	0	4	0
	1130	,,	1003·1	942·9	..	27.4	23·6	22·0	26·3	73	..	6·8	..	10.0	0	3	28	0	0	0	2	4	19	5	1	0	0
	1730	,,	1000·5	940·4	..	26·7	23·4	21 9	26·3	75	..	7·3	..	6·7	0	0	27	0	0	0	1	4	21	1	0	4	0
	2330	,,	1003·6	942·8	..	24·2	22·9	22·3	26·9	89	..	6.1	..	3·6	0	0	17	0	1	0	0	8	8	0	0	14	0
Gujarat Region Deesa	0830	136	1001·7	986·4	+1·2	27·7	25.4	21 5	30·4	83	..	6·3	..	9.1	0	0	31	0	0	0	3	8	12	4	4	0	0
	1730	,,	998·5	983 6	..	31 5	26·2	23·6	29·7	65	..	6·5	..	9·8	0	1	29	0	0	1	8	8	10	0	3	1	0
Radhanpur	0830	30	1001·0	997.5	..	28·0	26·1	25·2	32·2	86	..	..	..	6·5	0	0	31	0	0	0	1	0	28	0	2	0	0
	1730	,,	998·6	995·3	..	32·1	25·7	22·9	27·7	60	..	..	..	7·3	0	0	31	0	0	0	1	0	28	2	0	0	0
Idar	0830	219	1001·7	977·2	..	25·9	24·8	24·2	30·1	90	..	7·5	..	3·4	0	0	30	0	0	0	2	4	14	10	0	1	0
	1730	,,	998·5	974·4	..	29·8	25·6	23·7	29·3	71	..	7·2	..	9·2	0	0	29	1	0	0	0	4	11	12	1	2	0
Ahmedabad	0230	55	1000·8	994·6	..	26·4	25 4	24·9	31·7	91	..	5·8	..	11 2	0	2	28	0	0	0	0	3	15	9	3	1	0
	0530	,,	1000·7	994·4	..	26·2	25 2	24·8	31·3	92	..	6·1	..	9·9	0	0	29	0	0	0	0	1	20	7	1	2	0
	0830	,,	1002·0	995·7	+0·4	27·2	25·8	25·2	32·1	89	+6	6·6	+0·2	12 6	0	5	25	0	0	0	0	4	11	11	4	1	0
	1130	,,	1002·2	996·0	..	29·8	26·7	25·3	32·6	77	..	7·0	..	11·8	0	4	26	1	0	0	0	2	11	11	5	1	0
	1430	,,	1000·3	994·1	..	31·4	27·0	25·2	32·1	71	..	6·6	..	13.3	0	6	23	1	1	0	0	3	6	8	10	2	0
	1730	,,	999·1	992·9	..	30·8	26·8	25·1	31·9	73	..	6·4	..	15·5	0	9	20	0	1	1	1	5	9	12	0	2	0
	2030	,,	1000 5	994·3		27·9	26·0	25·2	32·1	86	..	7·0	..	14.5	0	7	23	0	0	0	0	7	18	5	0	1	0
	2330	,,	1001·8	995·5	.	27·1	25·8	25·2	32·2	90	..	5·9	..	11·3	0	3	24	0	0	0	0	5	16	6	0	4	0
Dohad	0830	333	1002·5	965·4	+0·7	25·5	23·9	23 1	28·3	87	—1	7·1	—0·1	16.5	0	9	22	0	0	0	0	1	16	13	1	0	0
	1730	,,	999 5	962.9	..	29·1	24·9	22·9	28·1	70	..	6·6	..	17.7	0	13	18	0	0	0	0	0	27	4	0	0	0
Vallabha Vidya Nagar	0830	44	1002·2	997·3		26·6	25·6	25·1	32 1	92	..	6·1	..	8·1	0	0	30	0	0	0	2	5	21	1	1	1	0
	1730	,,	999·3	994 5	..	29·9	26·3	24·8	31·3	76	..	5·5	..	10·4	0	0	31	2	0	0	2	8	17	1	0	0	1
Baroda Aerodrome	0830	38	1002·7	998·4	..	26·9	25·7	25·1	32·1	90	..	6·2	..	8·0	0	0	31	0	0	0	0	5	22	2	1	0	1
	1130	,,	1002·6	998.3		29·1	26·2	24.9	31·5	78	..	6·3	..	11·2	0	1	29	0	0	1	0	4	18	6	1	1	0
	1730	,,	999·9	995·6	..	29·2	26·2	25·0	31·5	79	..	6·1	..	10·4	0	4	27	0	0	0	1	2	22	5	1	0	0
Baroda	0530	34	1001·4	997 5	..	25·9	25·3	25·1	31·7	95	..	5·9	..	0·5	0	0	6	0	0	0	0	0	3	3	0	25	0
	0830	,,	1002·8	998 8	+0·8	27·0	25·9	25·4	32·6	91	+3	6·6	—0·2	0·8	0	0	9	0	0	0	0	0	5	4	0	22	0
	1130	,,	1002·8	998·9	..	29·6	26·6	25·4	32 4	79	..	6·7	..	1·5	0	0	15	0	0	0	1	0	4	10	0	16	0
	1730	,,	1000·1	996 2	..	29·7	26·5	25·2	32·1	78	..	6·3	..	1·7	0	0	18	0	0	0	2	0	2	13	1	13	0
	2330	,,	1002·6	998 7	..	26·6	25·6	25·2	32 1	92	..	5 7	..	1·2	0	0	13	0	0	0	0	0	11	2	0	18	0
Broach	0830	17	1002·4	1000.4	+0·3	26·5	25·3	24·7	31·3	90	+3	6·4	0	5·0	0	0	31	0	0	0	0	5	25	0	1	0	0
	1730	,,	999.9	998 0	..	29·5	26·0	24·4	30·7	75	..	5·8	..	6·4	0	0	31	0	0	0	0	2	28	0	1	0	0
Surat	0530	12	1001·8	1000·5	..	26·1	25·0	24 5	30·7	91	..	6 2	..	6·6	0	0	25	0	0	0	3	4	13	3	2	6	0
	0830	,,	1003·1	1001·8	+0·7	27·1	25·7	25·1	31·9	89	+6	7·1	+0·2	6·1	0	0	26	0	0	0	2	6	16	1	1	5	0
	1130	,,	1003 4	1002 1	.	29·0	26·1	24·9	31·5	79	..	7·0	..	9.7	0	1	29	0	0	0	1	2	19	7	1	1	0
	1730	,,	1001·	999.8	.	28·9	26·1	24·9	31 5	80	..	6·9	..	11.4	0	3	28	0	0	0	0	3	26	2	0	0	0
	2330	,,	1003·2	1001 9	..	27·0	25·4	24·7	31·1	88	..	4·9	..	11·7	0	3	27	0	0	0	1	5	22	1	0	1	0
Saurashtra and Kutch Naliya	0830	21	1000·3	998 0	..	28·4	26·9	26·3	34·2	89	..	6·1	..	15·5	0	9	22	0	0	1	3	2	18	7	0	0	0
	1730	,,	998·8	996.4	..	30·2	27·5	26·5	34·6	81	..	6·8	..	16·0	0	11	19	0	0	0	0	5	23	2	0	1	0
Bhuj (Rudramata)	0230	80	999·9	990.9	..	27·0	25·1	24·3	30.4	85	..	4·0	..	1 ·8	0	1	27	0	0	0	0	0	15	13	0	3	0
	0530	,,	999·5	990.4	..	26·6	25.0	24·3	30·4	87	..	5·3	..	8·6	0	0	22	0	0	0	0	1	11	9	1	9	0
	0830	,,	1000·7	991·7	+0·7	28·0	25·7	24·7	31·1	82	+7	5·3	—0·2	14·4	0	5	24	0	0	0	0	0	13	13	3	2	0
	1130	,,	1000·8	991·8	..	30·5	25·9	23·9	29·7	68	..	6·4	..	17.3	0	12	17	0	0	0	0	0	10	16	3	2	0
	1430	,,	999·4	990·4	.	31·7	26.1	23·7	29·3	63	..	6·8	..	18·3	0	12	19	0	0	1	0	1	11	17	1	0	0
	1730	,,	998·5	989·5	..	30·5	25·7	23·7	29·1	68	..	6·5	..	21·5	0	18	12	0	1	0	0	0	14	15	0	1	0
	2030	,,	999·6	990·6	..	28 6	25·3	23·7	29·7	75	..	5·2	..	16·5	0	7	24	0	0	0	0	0	14	17	0	0	0
	0230	,,	1001·0	992·0	..	27·5	25·4	24·4	30·7	84	..	4·2	..	13·2	0	1	30	0	0	0	0	0	10	14	1	0	0
Kandla (Aerodrome)	0830	35	1001·3	997·4	..	28·2	26·0	25·1	31·9	83	..	5·6	..	20·5	0	20	11	0	1	0	0	3	21	5	1	0	0
	1130	,,	1001.5	997·6	..	30·4	26·4	24·6	31·1	12	..	6·5	..	21·2	0	17	13	0	1	0	0	6	17	6	0	1	0

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind speed per hour Km.	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(contd.)																											
Kandla (Aerodrome) —(contd.)	1730	35	998·8	994·9	..	31·6	26·2	23·8	29·7	64	..	5·4	..	28·6	0	26	5	0	0	1	0	3	22	4	1	0	0
New Kandla	0830	14	1001·6	1000·0	..	28·3	26·0	25·0	31·9	83	..	6·5	..	19·7	0	15	16	1	1	0	0	2	10	15	2	0	0
	1730	"	999·3	999·7	..	31·3	26·6	24·6	31·1	68	..	6·0	..	31·9	0	27	4	0	0	0	0	2	14	15	0	0	0
Mandvi	0830	9	1001·0	999·9	+0.4	28·8	26·7	25·8	33·4	84	−3	6·3	0	30·5	0	25	6	1	0	0	0	3	19	3	2	0	3
	1730	"	999·5	998·4	..	30·1	37·1	26·0	33·4	79	..	6·1	..	33.4	0	29	2	0	0	0	0	0	11	6	1	0	13
Surendranagar	0830	74	1001·7	993.3	+0.5	28·0	25·9	24·9	31·9	84	0	5·2	−1.2	15.7	0	5	25	0	0	0	0	3	13	12	2	1	0
	1730	"	999·1	990·9	..	31·4	26·7	24.6	31·1	70	..	6·9	..	15·0	0	7	23	1	0	1	1	3	5	17	2	1	0
Okha	0530	7	1000·3	999·5	..	27.6	26·8	26·4	34·6	93	..	6·1	..	26·5	0	24	7	1	0	0	0	3	16	10	1	0	0
	0830	"	1001·6	1000·8	..	28·4	27·2	26·7	35·0	90	..	6·7	..	23.8	0	20	11	1	0	0	0	2	16	10	2	0	0
	1130	"	1002·0	1001·2	..	29.8	27·9	27·2	35·9	86	..	6·3	..	26·5	0	25	6	1	0	0	0	1	15	11	3	0	0
	1730	"	1000·1	999·3	..	20·6	27.9	27.2	36.3	87	..	6·4	..	26·7	0	27	4	0	0	0	0	0	14	15	2	0	0
	2330	"	1002·1	1001·3	..	28·3	27·1	26.6	34·8	91	..	4·4	..	23·6	0	21	10	0	0	0	0	0	23	8	0	0	0
Jamnagar (Aerodrome)	0530	23	1000·3	997·7	..	26·0	25·7	25·5	32·6	97	..	4·5	..	18·1	0	15	14	0	0	0	1	2	14	11	1	2	0
	0830	"	1001·6	999·1	+1.0	27·7	26·7	26·3	34·2	92	+11	5·3	+0.4	18.9	0	15	15	0	0	0	0	2	17	9	2	1	0
	1130	"	1001·8	999·3	..	30.1	27·2	26.1	23·8	80	..	6·7	..	24·6	0	25	6	1	0	0	0	0	14	13	3	0	0
	1730	"	999.6	997·1	..	29.9	27·1	26.0	33.6	80	..	6.4	..	27.6	0	26	5	0	0	0	0	2	7	16	6	0	0
	2330	"	1002·0	999 4	..	27·1	26·2	25·8	33·4	92	..	4.2	..	20·8	0	18	13	0	0	0	0	1	14	14	2	0	0
Dwarka	0830	11	1001·4	1000·1	+0.4	28·5	27·4	26·9	35.5	92	+9	6·6	0	24·1	0	23	8	1	0	0	0	2	9	18	1	0	0
	1730	"	999·9	998·6	..	29·5	27·9	27·2	36·2	88	..	6·1	..	25·9	0	26	5	0	0	0	0	0	9	22	0	0	0
Rajkot	0530	138	1000·5	985·0	..	25.0	24·5	24·3	30·4	96	..	4·3	..	14·6	0	6	24	0	0	0	0	6	21	3	0	1	0
	0830	"	1001·7	986·3	+0.2	26·8	25·7	25·2	32·2	91	+3	4·2	−1.8	20.1	0	19	11	0	0	0	0	4	22	4	0	1	0
	1130	"	1001·7	986·5	..	29·8	27.0	25·8	33·4	80	..	5·9	..	22·8	0	25	6	0	0	0	0	1	21	8	1	0	0
	1730	"	999·2	984·0	..	29·8	26·9	25·8	33.0	80	..	6.3	..	26·8	0	24	7	0	0	0	0	4	17	10	0	0	0
Bhavnagar Aerodrome	0830	11	1002·6	1001·4	+0.9	27·7	25·5	24·5	30·7	83	+11	5·0	−1.3	16·6	0	10	21	0	0	0	0	3	19	9	0	0	0
	1130	"	1002·7	1001 5	..	30·3	25·7	23·7	29·3	69	..	5·9	..	20.6	0	15	16	1	0	0	0	2	14	12	2	0	0
	1730	"	1000·0	998·8	..	29·9	26·1	24·4	30·7	74	..	6·5	..	21·7	0	22	9	0	0	0	1	12	15	3	0	0	0
Porbander Aerodrome	0830	7	1002·0	1001·2	+0.5	28·0	26·3	25·6	32·6	87	−1	6·4	−0.4	18·0	0	17	14	2	0	0	0	1	13	12	3	0	0
	1130	"	1002·2	1001·6	..	29·3	26·8	25·8	33·0	82	..	6·1	..	22·0	0	25	6	2	0	0	0	1	16	11	1	0	0
	1730	"	1000·4	999·6	..	29·0	26·7	25·7	33·0	83	..	6·2	..	20·9	0	24	6	1	0	0	0	0	15	13	1	1	0
Keshod	0830	51	1002·2	996·5	..	26·9	25·3	24·7	30·9	87	..	5·5	..	14.7	0	9	21	0	1	0	0	1	21	6	1	1	0
	1130	"	1002.6	996·8	..	29·0	25·9	24·6	30·7	77	..	6·1	..	24·4	0	26	5	1	0	0	0	0	17	11	1	0	1
	1730	"	1000·7	994·9	..	29·0	25·6	24.2	30·0	76	..	5·5	..	27·2	0	28	3	1	0	0	0	0	18	12	0	0	0
Mabuva	0830	9	1002·5	1001·6	..	27·3	25·7	25.0	31·7	87	..	7·2	..	2·8	0	0	24	1	0	0	0	0	17	6	0	7	0
	1730	"	1000·7	999·7	..	28·9	26·1	25.0	31·5	80	..	6·9	..	7·2	0	0	31	3	0	0	0	1	23	2	2	0	0
Veraval	0230	8	1001·5	1000·6	..	27.9	26·2	25·5	32·6	87	..	5·6	..	33·5	0	28	3	0	1	0	0	0	10	19	1	0	0
	0530	"	1001·1	1000·2	..	27·8	26·0	25·3	32·1	87	..	6·2	..	33·4	0	31	0	0	0	0	0	0	10	19	2	0	0
	0830	"	1002·4	1001·5	+0.1	28·2	26.3	25·4	32·6	85	0	6·2	−0.4	31·2	0	26	4	0	0	0	0	0	6	20	4	1	0
	1130	"	1003·0	1002·1	..	29·2	26·7	25·7	33·0	81	..	5.6	..	28·6	0	27	4	0	0	0	0	0	8	21	2	0	0
	1430	"	1001·9	1001·0	..	29·5	26.8	25·7	33·0	81	..	5·6	.	30·4	0	30	1	0	0	0	0	0	7	23	1	0	0
	1730	8	1000·9	1000·0	..	28·9	26·5	25·5	32·6	82	..	5·8	..	29·8	0	27	4	1	0	0	0	0	7	21	2	0	0
	2030	"	1001·9	1001·0	..	28·2	26·3	25·5	32·6	86	..	5·7	..	29·6	0	28	3	0	0	0	0	0	9	20	2	0	0
	2330	"	1002·8	1001·9	..	28·1	26·2	25·5	32·4	86	..	5·1	..	31·0	0	28	1	0	0	0	0	0	10	18	1	2	0
Konkan Dahanu	0830	5	1003·5	1003.0	+0.4	26·8	25·9	25·6	32·6	93	+3	6·7	−0.7	18·0	0	13	10	0	0	4	3	0	9	7	0	8	0
	1730	"	1002·4	1001·9	..	28·1	26·8	26·2	34.2	89	..	6·6	..	21.1	0	16	13	1	0	2	1	0	14	10	1	2	0
Bombay (Santa Cruz)	0230	14	1003·2	1001·6	..	26·3	25·0	24·5	30·7	90	..	6·0	..	14·0	0	9	15	0	1	0	0	3	6	13	1	7	0
	0530	"	1002·9	1001·3	..	26·2	24·9	24·3	30.4	90	..	6.3	..	13·5	0	9	19	3	0	1	2	1	5	13	3	3	0
	0830	"	1004·3	1002.7	−0.1	26·8	25.1	24·3	30·4	86	+5	6·7	−0.3	12·9	0	9	17	1	0	2	1	2	4	15	1	5	0
	1130	"	1004.7	1003.1	..	28·6	26·0	25.0	31.5	81	..	7·0	..	19·0	0	10	20	0	0	0	1	2	5	19	3	1	0
	1430	"	1003.5	1001·9	..	28·9	26·1	24.9	31·5	79	..	6·9	..	21·4	0	17	14	0	0	0	0	0	6	23	2	0	0
	1730	"	1002·6	1001·0	..	28·2	25·8	24·7	31·3	82	..	6·9	..	18·6	0	12	19	0	0	0	0	0	6	20	5	0	0
	2030	"	1003·8	1002·2	..	26·9	25·2	24·4	30·7	86	..	6·3	..	13·6	0	8	20	0	0	0	0	1	8	15	4	3	0
	2330	"	1004·6	1003.0	..	26·7	25·2	24·6	30·7	88	..	6·0	..	13·7	0	7	19	0	1	0	1	1	12	10	1	5	0
Bombay	0830	11	1004·4	1003·2	0	27·1	25·4	24.6	31·0	86	+3	6·6	−0.4	8.4	0	2	27	0	0	0	2	2	6	15	3	2	1
	1130	"	1004·9	1003·7	..	28·8	26·2	25·1	31·9	81	..	6·8	..	6.0	0	0	29	0	0	0	1	5	7	14	2	2	0
	1730	"	1002·8	1001·6	..	28·6	26·0	24·9	31·6	81	..	7·1	..	8·4	0	0	30	0	0	0	0	3	6	20	1	1	0
Alibag	0830	7	1004·7	1003·9	0	27·0	25·5	24·8	31·5	88	+4	6·2	−1.4	21·0	1	15	15	0	0	1	1	7	8	12	2	0	0
Bhira	0830	96	1004·9	994·1	..	25·2	24.4	24·0	29·8	93	..	7·1	..	1·9	0	0	11	0	1	0	5	1	3	0	1	20	0
	1730	"	1002.9	992.1	..	27·4	26.5	24·8	30.0	87.1	..	7.7	..	3.5	0	0	17	2	0	1	5	2	5	0	2	14	1

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1964 (ASADHA 10—SRAVANA 9, 1886 SAKA)

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
KONKAN—(Contd.)																											
Harnai	0830	20	1005·0	1002·7	+0.1	26·8	25·4	24·8	31·3	89	+2	7·7	+0.7	14·5	0	13	12	0	0	2	0	7	6	10	0	6	0
	1730	,,	1003·4	1001·1	..	27·4	25·7	25·0	31·5	87	..	7·8	..	18·5	0	14	17	0	0	0	0	9	9	10	3	0	0
Ratnagiri	0830	35	1005·5	1001·6	−0·3	26·2	24·9	24·3	30·4	90	..	7·0	..	15·5	0	8	23	2	3	3	8	0	2	10	3	0	0
	1730	,,	1003·8	999·8	..	27·3	25·5	24·7	31·1	86	..	7·6	..	19·5	0	13	18	1	0	0	1	3	5	13	8	0	0
Devgarh	0830	36	1005·8	1001·8	−0.1	26·2	25.1	24.7	31·1	92	+3	7·3	+0.2	21·5	0	15	16	2	1	7	3	1	0	12	5	0	0
	1730	,,	1004·1	1000·1	..	27·0	25·6	24·9	31·7	89	..	7·2	..	24·3	0	19	12	1	1	0	1	1	6	14	7	0	0
Vengurla	0230	9	1005·2	1004·2	..	25·2	24·4	24.1	29·8	93	..	7.3	..	2·9	0	0	11	0	0	0	1	0	3	6	1	20	0
	0530	,,	1005·0	1004·0	..	24·8	24.1	23·8	29·3	94	..	7 4	..	4·7	0	0	17	4	0	1	2	0	4	6	0	14	0
	0830	,,	1006·5	1005·5	−0.3	25·8	24·8	24·3	30·5	92	+2	6·8	−0 6	4·3	0	0	18	3	0	1	4	1	3	6	0	13	0
	1130	,,	1006·9	1005·9	..	26·9	25·4	24·7	31·1	88	..	7·3	..	5.0	0	0	24	3	0	2	0	3	5	9	2	7	0
	1730	,,	1004·7	1003·7	..	26·8	25·1	24·4	30·4	87	..	7·5	..	5·5	0	0	22	4	1	0	0	3	7	6	1	9	0
	2330	,,	1006·8	1005·8	..	25·5	24·7	24·3	30·4	93	..	7·5	..	3·9	0	1	12	2	0	0	0	3	3	3	2	18	0
Panjim	0530	60	1005·1	998·3	..	25·0	24·0	23·5	28·9	92	..	7·4	..	11·6	0	6	21	3	1	5	3	4	3	7	1	4	0
	0830	,,	1006·6	999·8	..	25·5	24·3	22·8	29·5	91	..	7·0	..	11·4	0	8	18	2	1	4	4	3	2	9	1	5	0
	1130	,,	1006·9	1000·1	..	27 0	25·0	24·1	30·0	84	..	7·1	..	10·8	0	6	20	2	1	1	1	3	4	8	6	5	0
	1430	,,	1005·4	998.6	..	27·3	25·0	24·0	29·7	83	..	7·5	..	14·9	0	7	23	1	1	0	0	1	6	13	8	1	0
	1730	,,	1004·6	997·8	..	26·6	24·8	23·9	29·8	86	..	7·5	..	14·6	0	10	19	3	0	1	0	3	3	15	4	2	0
	2030	,,	1006·1	999·3	..	25·5	24·3	23·7	29·5	90	..	7·4	..	10.5	0	4	26	6	4	0	1	4	2	8	5	1	0
	2330	,,	1006 9	1000·0	..	25 2	24·2	23·7	29·3	92	..	7·6	..	11·5	0	6	22	5	4	3	1	3	2	6	4	3	0
Marmagao	5030	62	1004·6	997·6	..	25·6	24·5	24·1	29·8	91	..	7·5	..	17·6	0	12	16	3	3	3	3	3	4	6	3	3	0
	0830	,,	1006·1	999·2	..	25·9	24·7	24·1	30·2	91	..	7·4	..	17·2	0	12	19	4	3	4	3	2	6	6	3	0	0
	1130	,,	1006·5	999·6	..	26·6	25·2	24·5	30.9	89	..	7·3	..	16.4	0	11	19	3	1	2	3	3	6	8	4	1	0
	2330	,,	1004·2	997·5	..	26·6	25·0	24·3	30·3	87	..	7·7	..	20·8	0	15	16	3	1	0	1	3	7	9	7	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1003·3	980·2	..	25·7	24·1	23·3	28.8	87	..	5·9	..	9·4	0	2	28	0	0	2	0	1	3	24	0	1	0
	1730	,,	1000·6	977·8	..	28·6	24·5	22·7	27·4	72	..	5·2	..	6·0	0	1	30	0	0	0	0	3	2	26	0	0	0
Jalgaon	0830	201	1003·1	980·5	+0.7	25·7	24·3	23·7	29·3	89	+4	6·7	+0.4	12·0	0	1	28	0	0	0	0	3	5	17	4	2	0
	1730	,,	999.8	977·6	..	30·4	25·6	23·3	28·9	69	..	7·2	..	16·0	0	10	20	2	0	1	0	1	4	15	7	1	0
Malegaon	0830	437	1003·0	954·6	+0·2	25·3	23·2	22 2	26·6	82	+8	6·3	+0.3	10·9	0	2	27	3	0	1	0	1	8	12	4	2	0
	1730	,,	999·9	952·4	..	29·1	24·6	22·5	27·3	66	..	7·0	..	16.0	0	11	20	5	0	0	1	1	3	14	7	0	0
Deolali (Aerodrome)	0830	571	1004·8	941·7	..	23·6	22·2	21·5	25·8	89	..	6·9	..	16·3	0	6	25	0	0	0	0	0	24	7	0	0	0
	1730	,,	1002·8	940·2	..	25·1	22·6	21·5	25·6	81	..	7·4	..	19.5	0	11	20	0	0	0	0	0	22	8	1	0	0
Ahmadnagar	0830	657	1004·1	932·0	+0.1	23·7	21·7	20·7	24·4	84	+7	6·7	+0.9	9·0	0	4	26	2	0	0	1	1	16	3	7	1	0
	1730	,,	1000·3	929·4	..	27·8	22·4	19·9	23·1	64	..	7·5	..	13·0	0	7	23	1	1	0	1	0	16	1	10	1	0
Poona (Aerhdrome)	0230	593	1003·8	938·1	..	22·3	21·3	20·8	24·6	91	..	6·6	..	13·0	0	5	23	0	0	0	0	0	11	16	1	3	0
	0530	,,	1003·5	937·9	..	22·0	21·1	20·6	24·4	92	..	6·6	..	12·3	0	5	22	0	0	0	0	0	9	17	1	4	0
	0830	,,	1004·3	939·1	..	23·7	21.7	20·6	24.4	83	..	6·6	..	17·4	0	12	15	0	0	0	0	0	12	13	2	4	0
	1130	,,	1004·1	939·3	..	26·4	22·4	20·5	24.1	70	..	6·9	..	25·2	0	23	7	0	0	0	0	1	9	18	2	1	0
	1730	,,	1001·8	937·0	..	26·0	22·2	20·4	24·0	72	..	7·1	..	28·2	0	27	4	0	0	0	0	0	11	20	0	0	0
	2330	,,	1005·0	939·4	..	22·8	21·5	20·8	24·7	88	..	6·7	..	14.4	0	5	25	0	0	0	0	0	8	20	2	1	0
Poona	0530	559	1003·4	941·5	..	22·5	21·2	20·6	24.1	89	..	6·6	..	6·8	0	4	15	0	0	0	0	0	1	18	0	12	0
	0830	,,	1004·4	942·8	+0·2	24·1	21·9	20·8	24·7	83	0	7·0	+0.4	7·4	0	3	16	0	0	0	0	0	1	17	1	12	0
	1130	,,	1004·2	943·0	..	26·6	22·8	21·0	25·0	72	..	6·9	..	9·6	0	4	23	0	0	0	0	0	3	21	3	4	0
	1430	,,	1002·3	941·4	..	27·3	22·9	25·8	24·7	69	..	7·2	..	12·6	0	9	20	0	0	0	0	0	4	21	4	2	0
	1730	,,	1001·9	940·7	..	25·9	22·3	20·7	24·3	74	..	7·3	..	13·3	0	8	21	0	0	0	0	0	0	28	1	2	0
	2030	,,	1004·0	942·3	..	23·9	21.6	25·5	24·1	82	..	6·5	..	8·4	0	1	25	0	0	0	0	0	2	23	1	5	0
	2330	,,	1004·9	943.6	..	23·4	21·5	20·6	24·1	85	..	6·4	..	5·9	0	1	22	0	0	0	0	0	1	22	0	8	0
Jeur	0830	521	1004·3	946·5	−0.1	24·6	22·4	21·3	25·5	82	+1	6·2	+0.5	12.2	0	7	20	0	0	0	0	3	8	10	6	4	0
	1730	,,	1000.5	944·0	..	28·8	23·0	20·4	23·8	62	..	7·0	..	19·8	0	17	14	0	1	1	0	2	4	12	11	0	0
Baramati	0830	551	1004·4	943·7	+0.2	24·4	22·0	20·8	24·7	81	0	6·1	−0.4	10·6	0	4	27	1	1	0	1	1	6	14	7	0	0
	1730	,,	1001·0	941 2	..	28·2	22·8	20·2	23·8	63	..	6·8	..	20·8	0	15	16	1	0	1	0	2	5	18	4	0	0
Sholapur	0530	479	1004.0	950·7	..	22·9	21·5	20·9	24·6	89	..	5·6	..	5·5	0	0	31	0	0	0	0	0	19	7	5	0	0
	0830	,,	1005·1	952·2	+0.6	25·3	23·3	22·4	27·1	84	+11	6·2	+0.2	7·4	0	0	3	1	0	0	0	1	20	3	6	0	0
	1130	,,	1004·1	951·8	..	28·8	24·0	21·9	26·3	67	..	6.9	..	10·7	0	2	29	2	0	0	0	0	17	7	5	0	0
	1730	,,	1001·1	949.0	..	28·9	24·1	21.8	26·4	67	..	7·1	..	11·8	0	4	27	2	1	0	1	1	13	7	6	0	0
	2330	,,	1004.7	951·7	..	25·0	22·8	21·8	26·1	83	..	6.1	..	8·6	0	0	31	0	0	0	0	0	17	9	5	0	0
Miraj	0830	554	1006·0	944·6	+0.1	23·5	22·0	21·4	25·3	88	+5	7·0	+0.4	..	..	..	..	0	0	0	0	0	0	17	0	14	0
	1730	,,	1003·2	942·6	..	26·5	22·8	21.0	25·0	73	..	7·2	..	..	..	..	..	0	0	0	0	0	0	30	0	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in e.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhaya Maharashtra—(*Contd.*)																											
Kolhapur	0530	570	1004·2	941·1	..	21·9	21·3	21·0	24·9	94	..	6·8	..	8·1	0	5	14	0	0	0	0	0	0	19	0	12	0
	0830	,,	1005·4	942·4	−0·2	22·9	21·7	21·1	25·0	90	+2	6·8	−0·1	4·8	0	0	19	0	0	0	0	0	0	18	1	12	0
	1130	,,	1005·2	942·6	..	25·4	22·6	21·3	25·3	79	..	6·6	..	6·8	0	2	23	0	0	0	0	0	0	25	0	6	0
	1730	,,	1002·8	940·3	..	25·0	22·4	21·2	25·2	80	..	6·8	..	10.7	0	2	29	0	0	0	0	0	0	30	1	0	0
	2330	,,	1006·0	942·9	..	22·6	21·6	21·1	25·0	91	..	5·8	..	10·6	0	6	21	0	0	0	0	0	0	26	1	4	0
Marathwada Aurangabad	0830	,,	1004·3	940.4	+0.5	24·2	22·2	21·2	25·3	84	+3	6·6	−0·4	14·3	0	9	19	0	0	0	0	1	6	21	0	3	0
	1730	581	1000.4	937.4	..	27.7	23.0	20·7	24·7	68	..	7.0	..	16.6	0	12	13	0	0	0	0	1	3	19	2	6	0
Aurangabad (Chikalthan)	0230	..	1002.9	938.9	..	22.8	21.3	20.5	24·1	87	..	7.0	..	10·1	0	4	20	0	0	0	0	0	4	18	2	7	0
	0530	579	1002·7	938·7	..	22·4	21.1	20·5	24·1	89	..	7·1	..	8·6	0	1	19	0	0	0	0	0	3	16	1	11	0
	0830	,,	1003·7	940·0	..	24·5	22·1	21·0	24 9	81	..	6·5	..	13·3	0	4	22	1	0	0	0	0	3	19	3	5	0
	1130	,,	1003·2	940·1	..	27·4	22·5	20.1	23·5	65	.	6·6	..	22·3	0	19	11	0	0	1	0	0	6	16	7	1	0
	1430	,,	1000·9	938·2	..	28·8	23·2	20·6	24·3	63	..	7·0	..	15·0	0	8	20	1	0	0	1	1	6	14	5	3	0
	1730	,,	999.8	937·1	..	28·3	22·9	20·4	24·0	64	..	7·4	..	16·2	0	11	14	1	0	0	0	0	4	17	2	6	
	2030	,,	1002·7	939·2	..	25·0	22·1	20·8	24·4	78	..	7·3	..	13·7	0	9	17	0	0	1	0	0	2	20	3	5	
	2330	,,	1003·8	940·0	..	23·9	21·8	20·8	24·7	83	..	6·7	..	11·6	0	5	22	0	0	0	0	0	2	21	4	4	
Parbhani	0830	423	1004·3	957·3	+1·3	25·2	23·1	22·0	26.6	83	+2	6·5	0	9·8	0	2	28	2	1	0	0	2	7	16	2	1	
	1730	,,	1000·3	954·2	..	29 2	24·3	21·9	26·3	68	..	7·2	..	11.0	0	4	25	2	3	0	0	2	3	13	6	2	
Nander	0830	358	1003·9	964·0	..	26·0	23·7	22·6	27·4	82	..	6·4	..	5·5	0	0	23	0	0	0	0	0	9	10	4	8	
	1730	,,	1000·7	961·4	..	29·2	24·9	22.9	27·9	70	..	6·8	..	3·4	0	0	16	0	0	0	0	0	5	7	4	15	
Bir	0830	519	1004.7	947·5	..	25·1	23·4	22·7	27·6	86	..	7·0	..	7·9	0	1	30	1	1	0	0	1	3	2	11	0	
	1730	,,	1000.9	944·6	..	28·6	24·5	22·8	27·6	72	..	6·9	..	9·2	0	1	29	0	3	0	6	0	10	1	10	1	
Vidarbha Gondia	0830	313	1003·0	968·1	+1·5	25·7	24·2	23·5	28·9	88	+2	6·8	−0·1	4·1	0	0	31	1	1	0	2	2	23	1	0	0	
	1730	,,	999·8	965·4	..	27·8	24·7	23·3	28·6	77	..	6·5	..	6.0	0	0	31	6	0	1	2	11	6	4	1	0	
Nagpur (Sonegaon)	0230	310	1001·2	966·7	..	24·9	23·8	23·3	28·6	91	..	6·8	..	7·4	0	2	21	0	0	0	1	6	10	5	1	8	
	0530	,,	1001·4	966·7	..	24·4	23·4	23 0	27·9	91	..	6·7	..	7·8	0	3	23	0	0	0	0	5	16	4	1	5	
	0830	,,	1002·8	968·3	+1·3	26·2	24·2	23·3	28·6	84	+2	7·0	+0·5	10·1	0	4	25	0	1	0	0	1	14	10	3	2	
	1130	,,	1002·3	968·1	..	28 9	24·8	22·9	27·9	70	..	7·1	..	11·9	0	5	23	2	0	0	0	4	9	7	6	3	
	1430	,,	999·9	966·0	..	30·0	25·0	22·7	27·6	66	..	6·9	..	15·5	0	10	21	0	1	0	0	3	15	9	3	0	
	1730	,,	999·4	965·3	..	28·7	24·5	22·6	27·3	71	.	7·1	..	12·5	0	4	25	1	0	0	1	4	14	6	2	2	
	2030	,,	1001·8	967·3	..	26·4	24·2	23·2	28·4	83	.	7·3	..	6·7	0	0	23	0	0	1	2	6	8	4	2	8	
	2330	,,	1002·6	968·0	..	25·5	24·0	23·3	28·6	83	..	6·9	..	8·0	0	3	21	1	0	0	3	6	7	5	2	7	
Amraoti	0830	370	1003·3	962·3	+1.3	25·4	23·6	22·7	27·6	85	+4	6·0	−0 2	6·9	0	0	31	2	0	0	0	3	20	5	1	0	
	1730	,,	999·8	959·3	..	29·0	24·2	21·8	26·3	67	.	6·5	..	11·0	0	5	26	0	2	3	0	2	10	11	3	0	
Akola Aerodrome	0530	309	1001·2	966·7	..	24·4	23·2	22·5	27·4	90	.	7·5	..	9·0	0	0	27	0	0	0	0	1	11	10	5	4	
	0830	,,	1002·5	968·0	..	26·0	23·7	22·6	27·4	82	..	7 0	..	9·9	0	0	31	0	0	0	0	0	7	15	9	0	
	1130	,,	1002·2	968·2	..	28·9	24·5	22·3	26·6	68	.	7·5	..	12·1	0	1	30	0	0	0	0	0	6	12	13	0	
	1730	,,	998·7	964·9	..	30·0	24·7	22·2	26·8	65	..	7·5	..	11·4	0	2	28	1	0	0	1	1	10	5	12	1	
	2330	,,	1002·3	967·8	..	25·9	23·8	22·8	27·7	84	..	7.5	..	11·3	0	2	29	0	2	1	1	2	11	9	5	0	
Akola	0830	2 2	1003·0	971·6	+0.8	25·9	24·0	23·1	28·3	85	+7	5·5	−0.8	1·0	0	0	14	0	0	0	0	0	0	14	0	17	
	1730	,,	999·0	968·1	..	30·1	25·1	22·9	27·7	67	..	7·1	..	1·4	0	0	22	0	0	0	0	1	0	20	1	9	
Bramhapuri	0830	229	1003·4	977·7	..	26·0	24·6	24·0	29·8	89	..	6·7	..	3·3	0	0	28	0	0	0	5	10	9	4	0	3	
	1730		999.8	974.4	..	28.9	25·6	24.2	30.2	77	..	5.5	..	5.0	0	0	28	1	0	1	3	12	2	8	1	3	
Buldhana	0830	650	1003.3	931.9	+0·8	23.4	21.8	21.0	24.9	87	+1	6.1	+0.9	12.9	0	3	27	3	0	0	0	1	15	2	9	1	
	1730	,,	999·6	929·2	..	27·0	22·8	20·8	24·7	70	..	6·8	..	8·3	0	0	31	2	0	0	2	0	11	1	15	0	
Yeotmal	0830	451	1002·6	953·1	+0·9	25·1	23·1	22·1	26·6	84	−3	6·8	+0·1	12·8	0	3	26	1	0	0	0	4	5	18	1	2	
	1730	,,	999 5	950·2	..	28·0	24·1	22·1	26·7	72	..	7·5	..	8·1	0	0	31	3	0	1	0	4	5	17	1	0	
Chanda	0830	193	1003·4	981·7	+1.0	26·7	24·6	23·7	29·3	83	+5	6·8	+0·6	6·8	0	1	29	0	0	1	3	8	9	7	2	1	
	1730	,,	1000·1	978·6	..	28·5	25·4	24·1	30·0	78	..	6·9	..	8·0	0	0	30	3	2	5	3	4	6	3	4	1	
Pusad	0830	334	1004·0	966·8	..	26·1	23·8	22·8	27·7	82	..	6·5	..	8·9	0	0	30	3	0	0	2	5	11	6	3	1	
	1730	,,	1000·8	964·0	..	28·8	25·3	23·5	29·3	72	..	7·5	..	9·7	0	2	29	0	0	1	2	2	7	14	5	0	
Sironcha	0830	123	1004·6	990·8	+1·3	27·0	25·1	24·2	30·2	85	0	7·0	+0·1	3·6	0	0	30	2	1	0	15	2	9	0	1	1	
	1730	,,	1000·9	987·2	..	30·1	26·0	24·3	30·4	72	..	7·1	..	5·3	0	0	31	0	3	0	18	2	6	0	2	0	
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1004·4	1003·7	+2·9	28·3	26·5	25·8	33·2	86	+6	5·9	+0·5	(c) 13·4	0	6	20	2	0	0	0	8	13	3	0	2	
	1730	,,	1001·9	1001·3	..	29·1	26·9	25·9	33·6	83	..	5·3	..	15·4	0	8	23	0	0	0	0	6	13	4	1	0	
Vishakhapatna *	0230	3	1003·1	1002·7	..	27·1	25·2	24·4	30·4	85	..	5·5	..	4·6	0	0	14	0	0	0	0	0	8	5	1	17	
	0530	,,	1003·2	1002·8	..	26·7	25·0	24·3	30·4	87	..	6·0	..	4·3	0	1	12	0	0	0	0	0	4	9	0	18	
	0830	,,	1004·4	1004·0	+2.3	28·7	25·5	24·1	30·0	76	—9	6·3	−0.5	8·6	0	4	18	0	0	0	0	0	9	13	0	9	

*Wind directions for 24 days.

(c) Mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount Oktas: Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind speed Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	W	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh —*Contd.*—Vishkhapatnam —*(contd.)*	1130	3	1004·0	1003·6	..	31·1	25·8	23·5	28·9	65	..	6·5	..	15·0	0	9	21	0	0	0	1	4	19	5	1	1	0
	1430	,,	1002·1	1001·7	..	31·5	25·9	23·4	28·8	63	..	6·4	..	19·1	0	18	11	1	0	0	0	5	19	4	1	1	0
	1730	,,	1001·7	1001·3	..	29·9	25·6	23·7	29·3	70	..	6·2	..	13·5	0	7	20	1	1	0	0	2	18	4	1	4	0
	2030	,,	1003·7	1003·3	..	28·4	25·6	24·4	30·5	79	..	5·1	..	8·3	0	2	21	0	0	0	0	0	14	8	1	8	0
	2330	,,	1004·4	1004·0	..	27·7	25·5	24·5	30·7	83	..	5·8	..	4·6	0	1	13	0	0	0	0	0	8	5	1	17	0
Kakinada	0330	8	1005·0	0004·1	+1·8	28·0	26·3	25·6	32·6	85	+7	5·9	−0·3	11·7	0	0	30	0	0	1	1	0	28	0	0	1	0
	1730	,,	1001·7	1000·8	..	30·3	26·5	24·8	31·5	73	..	5·8		12·1	0	0	31	0	0	0	20	1	8	0	2	0	0
Nizampatam	0830	12	1004·8	1003·4	..	27·7	25·6	24·7	31·1	84	..	6·3	..	5·3	0	0	23	0	2	1	1	2	8	7	2	8	0
	1730	,,	1001·8	1000·4	..	30·3	26·3	24·5	30·9	72	..	6·7	..	5·3	0	0	23	0	0	0	3	3	11	6	0	8	0
Repchintala	0830	166	1004·9	993·0	..	28·2	24·4	22·6	27·4	73	+3	5·2	−1·8	2·8	0	0	29	0	0	0	0	5	4	20	0	2	0
	1730	,,	1000·5	988·9	..	32·4	24·9	21·2	25·3	53	..	6·4	..	2·3	0	0	28	0	0	5	1	4	0	17	0	3	1
Gannavaram	0230	24	1003·3	1000·6	..	26·6	25·5	25·1	31·9	92	..	5·9		7·3	0	1	23	2	0	2	1	8	8	2	1	7	0
	0530	,,	1003·5	1000·8	..	26·3	25·3	24·8	31·3	91	..	6·0	..	8·1	0	4	19	0	1	3	2	3	8	6	0	8	0
	0830	,,	1005·1	1002·4	+1·3	27·9	25·8	24·9	31·5	84	+5	6·1	−0·6	9·3	0	1	27	0	0	2	3	5	10	8	0	3	0
	1130	,,	1004·7	1002·0	..	30·2	26·2	24·5	30·7	72	..	6·5	..	11·9	0	1	26	0	0	0	4	5	6	11	1	4	0
	1430	,,	1002·3	999·7	..	31·5	26·4	24·3	30·3	67	..	6·7	..	11·5	0	5	24	1	0	0	4	5	8	8	3	2	0
	1730	24	1001·5	998·8	..	30·7	26·3	24·4	30·5	70	..	6·7	..	9·2	0	1	27	0	0	2	3	5	10	8	0	3	0
	2030	..	1003·7	1001·0	..	28·7	26·2	25·1	32·0	82	..	5·8	..	9·0	0	1	26	1	0	5	4	12	3	2	0	4	0
	2330	,,	1004·2	1002·6	..	27·3	25·9	25·3	32·2	89	..	5·6	..	7·5	0	3	20	0	0	2	3	8	7	1	2	8	0
Nagarjuna Konda (R)	0830	126																									
(R)	1730	,,																									
Masulipatanam	0830	8	1005·1	1004·8	+1·0	28·1	25·5	24·4	30·5	80	+2	7·1	+0·9	4·0	0	0	29	0	1	0	1	10	13	4	0	2	0
	1730	,,	1001·8	1001·5	..	30·1	26·0	24·0	30·2	72	..	7·0	..	3·7	0	0	27	0	0	2	7	5	4	3	0	4	6
Ongole	0830	12	1005·0	1003·8	..	29·2	26·7	25·6	33·0	81	..	5·0	..	2·8	0	0	24	0	1	4	2	2	2	9	4	5	0
	1730	,,	1001·4	1000·0	..	32·8	27·4	25·3	32·1	67	..	5·1	..	4·9	0	0	29	7	0	2	0	6	1	12	1	2	0
Nellore	0530	20	1004·2	1002·0	..	26·9	24·5	23·4	28·8	82	..	6·3	..	3·6	0	1	16	0	0	2	0	2	2	11	0	14	0
	0830	,,	1005·6	1003·4	+0·6	28·9	25·2	23·5	28·9	74	+1·1	6·5	+0·2	4·0	0	0	23	0	0	0	4	1	5	11	2	8	0
	1130	,,	1005·0	1002·8	..	32·7	25·7	22·5	27·3	57	..	6·3	..	7·0	0	3	25	1	2	2	0	1	4	12	6	3	0
	1730	,,	1001·9	999·7	..	32·9	25·9	22·8	27·6	56	..	5·7	..	7·5	0	0	30	0	3	0	15	0	9	0	3	1	0
	2330	,,	1005·2	1003·0	..	28·1	25·6	24·4	30·7	81	..	5·7	..	3·7	0	1	17	1	1	1	8	2	0	5	0	13	0
Telangana Ramagundam	0830	156	1003·7	986·1	+0·7	26·3	24·4	23·5	29·3	85	+6	5·9	−0·9	3·5	0	0	23	0	1	0	2	2	8	7	3	8	0
	1730	,,	1000·3	983·0	..	30·7	25·7	23·5	28·9	67	..	6·8	..	3·0	0	0	25	1	1	1	2	4	5	8	3	6	0
Nizamabad	0830	381	1004·3	962·0	+0·9	25·7	23·2	21·9	26·3	79	+2	6·3	+1·0	1·8	0	0	16	0	0	0	0	5	9	1	1	15	0
	1730	,,	1000·2	958·4	..	29·8	24·5	21·9	26·3	65	..	6·7	..	1·2	0	0	10	0	0	0	0	0	8	1	1	21	0
Hanamkonda	0830	269	1004·3	974·4	+0·8	26·4	24·1	23·1	28·3	82	+8	5·4	−0·8	2·0	0	0	30	1	0	0	1	14	0	14	0	1	0
	1730	,,	1001·6	972·3	..	30·7	25·2	22·7	27·6	63	..	5·1	..	2·0	0	0	31	4	1	1	6	4	4	11	0	0	0
Hakimpet (Aerodrome)	0530	613	1003·7	936·0	..	22·6	21·8	21·4	25·5	92	..	6·7	..	18·0	0	13	15	1	0	1	2	2	4	16	2	3	0
	0830	,,	1004·4	936·6	..	24·3	22·4	21·6	25·6	85	..	6·9	..	22·3	0	21	10	0	1	0	0	2	6	17	5	0	0
	1130	,,	1003·5	937·0	..	27·1	23·5	21·8	26·3	72	..	6·8	..	22·6	0	16	15	3	0	0	1	1	5	16	4	0	1
	1730	,,	1001·2	934·9	..	27·3	23·3	21·4	26·1	72	..	7·0	..	20·4	0	10	20	2	0	0	1	1	8	15	3	1	0
	2330	,,	1004·1	936·8	..	24·1	22·4	21·6	25·9	87	..	6·3	..	17·9	0	11	19	3	1	1	1	3	6	12	3	1	0
Bhadrachallam	0830	111	1004·4	991·9	+0·4	27·8	25·5	24·2	30·0	81	−1	6·8	+0·4	5·4	0	0	31	2	2	4	3	3	11	1	5	0	0
	1730	,,	1000·4	988·1	..	30·3	25·8	23·8	29·7	71	..	6·5	..	4·7	0	0	31	2	4	3	1	5	8	1	7	0	0
Hyderabad (Begumpet)	0230	545	1003·3	943·2	..	23·6	22·0	21·2	25·2	87	..	6·8	..	10·7	0	6	20	1	0	0	3	0	2	19	1	5	0
	0530	,,	1003·4	943·2	..	23·1	21·7	21·1	25·0	89	..	6·8	..	11·5	0	7	18	0	0	1	1	0	4	15	4	6	0
	0830	,,	1004·9	944·8	+0·9	24·3	22·2	21·1	25·1	82	+1	7·0	+0·6	17·0	0	15	13	0	0	0	0	2	4	19	3	3	0
	1130	,,	1003·9	944·6	..	27·5	23·0	21·0	25·0	69	..	6·8	..	18·5	0	13	17	0	0	0	1	1	7	16	5	1	0
	1730	,,	1000·8	941·7	..	27·6	23·1	20·9	24·9	69	..	7·4	..	14·6	0	6	25	2	0	0	1	4	9	11	4	0	0
	2330	,,	1004·4	944·5	..	24·7	22·3	21·3	25·3	82	..	6·6	..	10·1	0	4	21	1	0	1	0	3	7	8	5	6	0
Khammam	0830	112	1004·7	992·2	..	27·2	24·7	23·2	28·9	77	..	6·7	..	5·5	0	0	25	0	0	1	3	3	7	10	1	6	0
	1730	,,	1000·9	988·6	..	31·6	25·1	22·2	26·4	59	..	6·8	..	4·1	0	1	20	1	1	2	2	3	1	10	1	10	0
Mahbubnagar	0830	505	1005·2	949·3	..	24·3	22·5	21·7	25·8	85	..	6·3	..	8·5	0	0	31	0	0	0	2	0	12	8	9	0	0
	1730	,,	1001·2	946·2	..	28·4	23·7	21·7	25·3	68	..	7·5	..	4·4	0	0	28	0	0	0	2	1	9	10	6	3	0
Rayalaseema Kurnool	0830	281	1005·3	973·9	−0·1	25·8	23·1	21·7	25·9	78	+6	5·5	−0·8	14·7	0	9	22	0	2	0	0	1	21	0	7	0	0
	1730	,,	1001·3	970·5	..	30·4	24·0	20·7	24·6	58	..	6·3	..	15·3	1	8	20	0	1	0	6	0	8	0	13	2	1
Anantapur	0530	350	1004·5	965·5	..	24·3	22·5	21·6	25·9	85	..	6·5	..	11·0	0	2	21	0	0	0	0	0	3	17	3	8	0
	0830	,,	1005·8	966·8	0	26·1	23·2	21·7	25·9	77	+4	6·5	+0·1	12·9	0	4	23	1	0	0	0	0	7	19	0	4	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rayalaseema—contd.																											
Anantapur	1130	350	1005·0	966·5	..	29.3	24.0	21.4	25.6	63	..	6.5		17·0	0	8	22	0	0	0	0	0	9	15	6	1	0
	1430	,,	1002·3	964·2	..	31·4	24·4	21·0	24·9	55	..	6·4	..	16.7	0	11	17	0	0	0	1	0	3	19	5	3	0
	1730	,,	1001·4	963.3	..	30·6	24·1	20.9	24·7	58	..	6·6		16·	0	9	19	1	3	0	1	0	4	13	6	3	0
	2030	,,	1004·1	965·5	..	27·8	23·7	21·6	25·9	70	..	6·3		12·2	0	6	19	1	0	0	3	0	0	20	1	6	0
	2330	,,	1005·6	966·7	..	26·2	23·3	21·9	26·3	78	..	6·5	..	14·1	0	7	20	0	0	1	3	0	3	16	4	4	0
Cuddapah	0830	130	1006·1	991·5	0	27·6	24·5	23·0	28·3	77	+12	5·2	−1.0	0·4	0	0	2	0	0	0	0	0	0	2	0	29	0
	1730	,,	1001·8	987·4	..	32·5	25·7	22·5	27.4	57	..	5·	..	2·2	0	0	10	0	0	1	0	0	0	9	0	21	0
Arogyavaram	0830	701	1006·1	929·6	..	24·3	20.9	19·2	22·2	74	..	5·3	..	7·9	0	2	29	6	0	1	1	4	4	12	3	0	0
	1730	,,	1001·5	926·4	..	28·5	21·7	17·9	20·8	51	..	5·9	..	0·1	0	0	31	5	2	1	2	3	3	8	7	0	0
Madras State																											
Madras	0830	6	1006·3	1005.3	..	28·9	24·7	22·7	27·7	71	..	5.7	..	8·3	0	3	24	0	0	0	0	4	10	12	0	4	1
Madras (Minambakkam)	0230	16	1004·6	1002.9	..	27·6	24.2	22·5	27.5	75	..	5·4	..	12·3	0	6	21	0	0	0	0	6	9	10	2	4	0
	0530	,,	1004·8	1003·0	..	26·9	23·8	22.2	27·0	77	..	5·5	..	9·0	0	3	23	0	0	0	0	7	7	7	5	5	0
	0830	,,	1006·1	1004·4	+0·3	28·9	24·5	22·3	27·1	69	+7	6·0	+0.3	10·4	0	2	28	2	0	1	0	4	11	11	1	1	0
	1130	,,	1005·5	1003·8	..	32·3	25·1	21·5	25·9	55	..	6·1	..	13·2	0	6	25	2	2	1	0	1	6	15	4	0	0
	1430	,,	1003·2	1001·5	..	33·7	25·5	21·7	26·1	51	..	6·1	..	15·1	0	10	21	1	1	4	8	1	7	8	1	0	0
	1730	,,	1002·6	1000·9	..	31·7	25·5	22·6	27·7	61	..	5·9	..	17·2	0	10	21	1	0	3	13	7	4	3	0	0	0
	2030	,,	1004·9	1003·2	..	29·4	25·5	23·7	19·3	73	..	4·8	..	12·0	0	3	28	0	0	3	8	14	3	3	0	0	0
	2330	,,	1005·8	1004·1	..	28·5	25·2	23·6	29·3	76	..	5·0	..	12·1	0	3	25	0	0	2	2	14	4	6	0	3	0
Vellore	0530	214	1005·2	981·1	..	25·1	22·8	21·6	25·8	82	..	5·6	..	1·9	0	0	11	0	0	0	0	0	4	6	1	20	0
	0830	,,	1006·2	982·2	+0·1	27·0	23·5	21·7	25·9	74	+7	6 5	+1.7	5·8	0	0	28	1	0	0	0	2	1	21	3	3	0
	1130	,,	1005·7	982·1	..	30·6	24·4	21·3	25·5	59	..	6·0	..	5·8	0	0	29	0	1	0	0	0	4	17	7	2	0
	1730	,,	1002·2	978·6	..	31·1	24·3	20·9	24·7	57	..	7·3	..	5·5	0	0	26	3	2	1	3	4	2	9	2	5	0
	2330	,,	1006·3	982·4	..	26·8	23·9	22·4	27·4	78	..	5·4	..	3·0	0	0	15	0	2	0	0	1	1	10	1	16	0
Tambaram Aerodrom	0830	29	1005·8	1002·6	..	29·2	25·7	24·3	30·0	76	..	6·1	..	15.0	0	5	24	0	0	0	1	3	13	9	3	2	0
	1730	,,	1002·7	999·5	..	32·5	27.0	24·6	31·1	65	..	6·1	..	24·2	0	20	11	1	1	7	11	4	3	3	1	0	0
Tiruppattur	0830	390	1007·5	964·1	..	24·7	22·7	21·7	25·9	84	..	7.6	..	3·8	0	0	30	21	5	1	0	0	0	3	0	1	0
	1730	,,	1002·7	960·1	..	29.7	24·2	21·4	25·6	63	..	7·5	..	6·1	0	0	31	20	5	0	0	2	0	4	0	0	0
Mettur Dam R.S.	0830	,,	..	..	..	27·0	24·8	23.8	29·5	83	..	5·8	..	3·1	0	0	21	0	0	0	4	0	11	0	6	10	0
	1730	,,	..	..	..	29.3	26·5	25.3	32.2	79	..	6.3	..	7.0	0	0	31	0	6	0	2	0	22	0	1	0	0
Cuddalore	0530	12	1004·5	1003·2	..	26.4	24·1	23·1	28·3	83	..	6·2	..	4·8	0	0	31	0	2	0	6	4	17	1	1	0	0
	0830	,,	1006·3	1005 0	−0 3	28·7	24·8	23·0	28·3	72	+3	6·5	+1.4	5·5	0	0	27	0	0	0	3	2	20	1	1	4	0
	1130	,,	1005·4	1004·1	..	32·6	25.7	22·6	27·3	57	..	6·2	..	7·9	0	0	31	0	2	0	15	0	13	1	0	0	0
	1730	,,	1002·9	1001·6	..	31·0	26·3	24.2	30·4	69	..	5.0	..	15·3	0	8	23	0	0	0	19	1	10	0	1	0	0
	2330	,,	1005·7	1004·3	..	28·2	25·1	23·7	29·3	77	..	6.2	..	4·7	0	1	30	0	2	0	13	1	12	1	2	0	0
Kallakkurichchi	0830	127	1006·0	991·8	..	27·8	25·0	23·8	29.3	79	..	5.5	..	6·6	0	0	26	1	2	1	1	4	12	0	5	5	0
	1730	,,	1002·1	988·1	..	31·7	26·7	24·6	30·9	68	..	6.6	..	10·2	0	0	30	2	1	4	5	3	10	2	3	1	0
Salem	0530	278	1005·6	974·4	..	24·0	22·1	21·1	25·1	85	..	6·7	..	1·3	0	0	16	0	0	0	0	3	7	6	0	15	0
	0830	,,	1006·9	975·8	−0·6	25·6	22·8	21·3	25·4	78	+1	6·6	+1.1	1·6	0	0	12	0	0	0	0	7	5	0	0	19	0
	1130	,,	1005·9	975·3	..	29·7	23·9	21·0	25.0	60	..	6·5	..	4.0	0	0	26	0	1	0	0	2	9	12	2	5	0
	1730	,,	1002·5	972·0	..	30·4	23·7	20·3	24.0	57	..	7·3	..	4·1	0	1	15	0	0	0	0	0	7	8	1	15	0
	2330	,,	1006·7	975·7	..	25·6	22·8	21·4	25.6	79	..	6.5	..	2·1	0	0	15	0	0	0	0	0	7	8	0	16	0
Coimbatore (Pilamedu)	0530	399	1006·2	961·5	..	22·2	21·6	21·3	25·3	94	..	6·3	..	17·9	0	12	18	0	0	0	0	13	16	1	0	1	0
	0830	,,	1007·6	963·3	..	23·9	22·5	21·7	26·1	88	..	6·2	..	18.6	0	12	18	0	0	0	1	14	14	0	0	1	1
	1130	,,	1006·7	962·7	..	27·7	23·5	21·4	25·5	69	..	6·0	..	20·7	0	16	11	0	0	0	0	13	10	4	0	4	0
	1730	,,	1054·1	960·1	..	26.5	23·4	21·9	26·3	76	..	6·5	..	27·3	0	26	5	0	0	0	0	12	17	2	0	0	0
	2330	,,	1007·5	962·9	..	23·0	22.2	21·9	26·1	93	..	5·5	..	22.7	0	22	8	0	0	0	0	14	15	1	0	1	0
Coimbatore	0830	409	1007·5	962.0	−0·3	24·3	21·9	20·7	24·3	81	+1	7·3	+2.4	23·3	0	28	3	0	2	3	0	13	13	0	0	0	0
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nagapattinam	0830	9	1007·0	1005·9	−0·1	28·6	24·3	22·1	26·9	69	+4	6·3	+1.7	10·1	0	2	28	0	0	0	0	2	8	20	0	1	0
	1730	,,	1003·5	1002·4	..	30·9	25·7	23·3	28·8	66	..	5·5	..	19·8	0	18	12	0	3	1	10	7	5	3	1	1	0
Tiruchchirappalli	0230	88	1004·9	995·1	..	26·0	23·5	22.3	26·9	81	..	5·4	..	15·9	0	10	18	0	0	0	0	0	4	21	3	3	0
	0530	,,	1005·1	995·2	..	25·4	23·2	22·1	26·6	82	..	5·5	..	15·9	0	9	19	0	0	0	0	0	0	26	2	3	0
	0830	,,	1006·4	996·5	−1·0	27·6	24.1	22·5	27.3	75	+16	5·8	+0.8	20·1	0	17	12	1	0	0	0	0	2	25	1	2	0
	1130	,,	1005·8	996·0	..	31·6	25.4	22.6	27.4	60	..	6·0	..	25·0	0	19	12	0	0	0	0	1	3	24	3	0	0
	1430	,,	1003·2	993·6	..	33.6	26·3	22·8	28.3	54	..	6·5	..	23·2	0	15	15	1	1	1	0	1	7	18	1	1	0
	1730	,,	1002·7	993·0	..	32.0	25·4	22·4	27.1	58	..	6·5	..	21·7	0	16	13	1	0	2	2	3	6	12	3	2	0
	2030	,,	1005·4	995.5	..	28.1	24·6	23·0	27.9	75	..	6·2	..	17·7	0	11	18	1	1	0	2	7	4	13	1	2	0
	2330	,,	1006·5	996·5	..	26·5	24·0	22·7	27·6	79	..	6·2	..	16·8	0	11	19	0	1	1	1	1	6	10	4	1	0

(R) Register not received.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Vedaranniyam	0830	4	1007·0	1006·5	..	29·3	25·4	23·8	29·3	73	..	4·3	..	6·3	0	0	30	2	3	0	3	9	13	0	0	1	0
	1730	,,	1003.8	1003·3	..	30·5	26·4	24·7	31·1	71	..	3·9	..	10·6	0	0	31	0	3	0	4	13	11	0	0	0	0
Atirampattinam	0830	6	1006·7	1006·0	..	28·9	24·6	22·5	27·3	69	..	5·7	..	7·0	0	0	29	2	1	1	0	4	8	3	15	2	0
	1730	,,	1003·5	1002·8	..	30·3	26·1	24·2	30·4	71	..	4·9	..	22·6	0	20	11	3	0	0	0	25	2	0	1	0	0
Madurai	0830	133	1007·1	992·1	−0·4	27.7	23·2	20·9	24·7	68	+11	3·5	−2·0	15·4	0	0	30	4	0	0	0	0	2	8	13	1	3
Madurai (Aerodrome)	0530	131	1005·6	990·8	..	25·7	22·9	21·4	25·5	78	..	5·7	..	8·6	0	1	27	8	3	1	0	2	1	6	7	3	0
	0830	,,	1007·1	992·4	..	28·1	23·7	21·4	25·6	69	..	5·9	..	11·7	0	4	27	4	2	1	1	1	6	4	12	0	0
	1130	,,	1006·3	991·8	..	31·7	24·5	20 9	25·1	54	..	5·8	..	13·8	0	6	25	2	2	1	0	2	6	13	5	0	0
	1730	,,	1003·7	989·1	..	30·4	24·5	21·6	25·9	61	..	6·7	..	21·0	0	16	13	0	3	0	3	5	4	11	3	2	0
Tondi	0830	5	1007·2	1006·6	..	28·5	24·5	22·6	27·4	71	..	4·6	..	4·4	0	0	22	1	2	3	2	2	6	2	4	9	0
	1730	,,	1004·0	1003·4	..	30·1	25·9	24·1	30·0	71	..	5·3	..	24·9	0	21	10	0	0	1	11	12	5	1	1	0	0
Pamban	0830	11	1007·0	1005·7	−0·7	28·4	25·8	24·1	30·0	78	+3	4·1	+1·1	7·0	0	1	28	1	0	0	2	0	15	10	1	2	0
	1730	,,	1004.3	1003.0	..	28·8	24·1	24·5	30·7	78	..	5·0	..	8·9	0	3	28	2	0	0	3	10	16	0	0	0	0
Tuticorin	0830	4	1007.5	1007·1	−0·6	28·9	24·8	21·6	26·1	66	+8	4·8	+0·7	11·6	0	5	26	2	0	0	0	0	5	20	4	0	0
	1730	,,	1004·3	1003·9	..	30·6	24·0	21·9	26·6	62	..	5·7	..	20.2	0	17	14	0	0	0	7	6	1	16	1	0	0
Palayankottai	0830	51	1007·3	1001·6	−0·5	29·4	24·0	21·3	25·5	62	+3	5·6	+0·8	8.5	0	6	14	0	0	0	0	1	0	19	0	11	0
	1730	,,	1004·4	998·7	..	30·5	23·5	20·7	24·4	57	..	6·2	..	13·2	0	5	23	0	0	1	0	0	2	23	0	3	2
Kannyakumari	0830	37	1007·9	1003·7	..	26·1	23·5	22·2	26·7	79	..	6·2	..	18·3	0	16	15	0	0	0	0	0	1	26	4	0	0
	1730	,,	1005·5	1001·4	..	26·6	23·7	22·4	26·9	78	..	5·8	..	22·4	0	22	9	0	0	0	0	0	3	23	5	0	0
Coastal Mysore																											
Karwar	0830	4	1007·1	1006·6	−0·3	25·7	24·9	24·5	30·7	93	+5	7·4	−0·2	13·0	0	9	21	0	3	6	2	0	0	3	3	1	13
	1730	,,	1005·2	1004·7	..	27·1	25·5	24·8	31·3	87	..	7·8	..	15·3	0	10	19	0	3	0	0	2	4	0	14	2	6
Honavar	0830	26	1007·3	1004·3	−1·0	24·9	23·9	23·5	28·8	92	+1	7·9	+0·9	7·1	0	2	27	0	1	17	0	5	5	0	1	2	0
	1730	,,	1004·9	1002·0	..	26·9	24.9	24·1	29·8	85	..	7·8	..	7·7	0	5	25	0	0	1	0	2	6	14	7	1	0
Mangalore (Bajpe)	0230	102	1006·4	994·8	..	24·1	23·5	23·3	28·4	95	..	7·9	..	7·3	0	3	19	1	1	7	0	1	2	7	3	9	0
	0530	,,	1006·2	994·6	..	23·8	23·2	23·0	27·9	95	..	7·8	..	6·5	0	2	22	1	4	8	3	0	2	4	2	7	0
	0830	,,	1007·6	996·1	..	24·8	23·9	23·4	28·9	92	..	7·4	..	5·9	0	1	24	1	3	8	3	1	1	4	4	6	0
	1130	,,	1007·8	996·3	..	26·5	24·7	23·8	29·7	85	..	7·4	..	7·8	0	1	29	0	1	1	3	3	5	10	7	1	0
	1430	,,	1006·0	994·5	..	27·3	24·9	23·8	29·5	82	..	7·5	..	11·7	0	3	28	1	0	0	0	1	7	11	10	0	1
	1730	,,	1005·5	994·0	..	26·1	24·5	23·7	29·5	87	..	7·8	..	12·5	0	3	27	0	1	0	0	0	7	13	9	1	0
	2030	,,	1007·3	995·8	..	25·0	24·0	23·5	28·9	91	..	7·5	..	8·0	0	2	26	0	0	1	1	0	2	10	14	3	0
	2330	,,	1008·0	996·4	..	24·4	23·7	23·3	28·6	94	..	7·7	..	6.8	0	2	22	2	4	4	0	0	4	3	7	7	0
Manglore	0830	22	1007·6	1005·1	−0·8	25·5	24·3	23·7	29·5	90	0	7.5	+0·5	6·1	0	0	31	1	0	8	6	5	3	4	1	0	3
	1730	,,	1005·7	1003·2	..	26·9	25·1	24·2	30·4	85	..	7·2	..	8·8	0	3	28	0	2	0	1	1	7	5	11	0	4
Interior Mysore North																											
Bidar	0830	664	1004·7	932·1	..	23·1	21·7	21·4	24·9	89	+7	7·3	+1·7	19·2	0	14	16	0	0	0	0	1	17	11	1	1	0
	1730	,,	1000·4	928·6	..	26·9	22·9	21·4	25·0	73	..	7·9	..	14·9	0	10	17	0	1	2	1	2	10	8	3	4	0
Gulbarga	0830	458	1005·1	954·3	+0·3	24·6	22·5	21·5	25.6	83	+4	7.5	+1·7	8·9	0	4	18	0	0	0	0	0	7	13	2	9	0
	1730	,,	1000·6	950·8	..	29·3	23·1	20·2	23·7	61	..	7·3	..	16·5	0	8	23	0	0	0	0	7	7	12	5	0	0
Bijapur	0830	594	1005·1	939·6	−0·1	23·4	21·8	21·0	24·7	87	+10	7·4	+1·3	3·2	0	0	23	0	0	0	0	0	1	22	0	8	0
	1730	,,	1001·3	936·9	..	28·0	22·9	20·6	24·1	65	..	6·7	..	2·5	0	0	25	0	0	0	0	0	1	10	4	16	0
Raichur	0830	400	1005·1	960·9	−0·1	25·4	22·9	21·5	25·9	77	+3	6·5	+1·7	4·8	0	0	23	0	0	0	0	0	7	11	5	8	0
	1730	,,	1001·5	957·7	..	29·6	23·8	20·9	25·2	61	..	7·0	..	8·0	0	2	28	0	2	1	5	0	10	2	10	1	0
Belgaum	0830	753	1005·5	923·0	−0·7	21·9	21·1	20·6	24·4	93	+5	7·8	+0·4	6·3	0	0	23	0	0	0	0	0	1	22	0	8	0
	1730	,,	1003·2	921·2	..	23·4	22·2	21·5	25·8	90	..	7·9	..	6·1	0	0	31	0	0	0	0	0	0	26	5	0	0
Belgaum (Samra)	0530	747	1005·0	922·8	..	21·0	20·2	19·8	23·1	93	..	6·6	..	9·7	0	5	21	1	0	0	1	1	6	15	2	5	0
	0830	,,	1006·1	924·1	..	22·0	21·0	20·5	24·1	91	..	7·6	..	10·3	0	6	19	0	0	0	0	1	4	17	3	6	0
	1130	,,	1005·7	924·4	..	24·5	21.8	20·7	24·1	79	..	7·6	..	14·1	0	10	21	1	1	0	0	0	8	16	5	0	0
	1430	,,	1003·6	922·8	..	25·4	22·2	20·6	24·4	76	..	7·8	..	15·5	0	12	18	1	0	0	0	0	8	17	4	1	0
	1730	,,	1003·6	922·2	..	23·6	21·6	20·6	24·3	83	..	7·7	..	14·3	0	5	26	0	1	0	0	0	2	26	2	0	0
	2030	,,	1005·7	923·1	..	21·9	20·9	20·3	24·0	91	..	7·1	..	10·3	0	5	25	0	0	0	0	0	5	20	5	1	0
Gadag	0530	650	1005·3	933·5	..	21.5	21·1	20·8	24·7	96	..	7·2	..	9·4	0	3	24	0	0	0	0	1	10	16	0	4	0
	0830	,,	1006·2	934·6	−0·1	22·9	21·9	21·4	25·5	91	+8	7·2	+0·8	8·6	0	0	30	0	0	0	0	0	11	16	3	1	0
	1130	,,	1005·5	934·8	..	26·6	23·3	21·7	26·1	75	..	6·9	..	11·7	0	4	27	1	2	0	0	0	5	20	3	0	0
	1430	,,	1003·1	932·9	..	28·2	23·9	22·1	25·0	70	..	7·1	..	11·3	0	2	29	1	2	0	0	0	4	21	3	0	0
	1730	,,	1002·7	932·1	..	26·1	23·3	22·0	26·6	79	..	7·5	..	8·6	0	0	29	1	0	1	0	2	2	20	3	2	0
	2030	,,	1005·5	934·1	..	23·5	22·2	21·7	25·9	90	..	7.1	..	10.5	0	0	31	1	0	0	0	0	7	22	1	0	0
	2330	,,	1006·8	935·1	..	22·3	21·7	21·3	25·5	94	..	6·8	..	11.0	0	2	28	0	0	0	0	0	11	19	0	1	0

Sub-division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km. p.h.): Mean wind speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore South																											
Bellary	0830	449	1005.7	955.9	−0.2	25.3	22.6	21.1	25.3	78	+1.3	5.9	0	8.9	0	2	27	0	0	0	0	0	27	0	2	2	0
	1730	,,	1001.9	952.9	..	29.0	24.1	21.7	25.9	66	..	6.3	..	8.8	0	1	27	0	0	0	0	0	26	0	2	3	0
Chitradurga	0830	733	1006.5	926.0	−0.1	22.0	20.7	20.1	23.5	89	+8	7.3	+0.2	7.5	0	0	28	0	0	0	0	1	8	19	0	3	0
	1730	,,	1002.5	923.4	..	26.3	21.8	19.6	22.9	68	..	7.8	..	6.0	0	0	25	0	0	0	0	0	1	24	0	6	0
Shimoga	0830	571	1006.6	943.5	−0.7	23.2	21.7	21.0	24.7	87	−1	6.2	−1.2	(d) 4.8	0	0	27	0	0	0	0	0	20	11	0	0	0
	1730	,,	1003.6	941.2	..	25.4	23.0	21.9	26.3	82	..	6.2	..	(b) 6.4	0	0	29	0	0	0	0	0	11	20	0	0	0
Agumbe	0830	..	..	..	..	21.6	21.1	20.9	24.7	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Balehonnur	0830	..	..	..	..	20.4	19.8	19.6	22.7	94	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1477.2	902.7	..	20.5	19.7	19.3	22.3	93	+8	7.3	+0.3	4.3	0	0	31	3	0	0	0	0	15	13	0	0	0
	1730	,,	1463.4	900.7	..	22.8	20.5	19.3	22.5	81	..	6.9	..	4.6	0	0	31	0	1	0	0	0	12	13	5	0	0
Bangalore	0230	921	1467.5	905.9	..	27.8	20.0	19.6	22.4	93	..	6.3	..	7.5	0	1	24	0	0	0	0	0	9	16	0	6	0
	0830	,,	1479.0	906.9	−0.2	21.2	19.9	19.3	22.4	89	+4	7.2	+0.1	7.9	0	2	26	1	0	0	0	0	9	14	4	3	0
	1130	,,	1484.8	906.8	..	25.1	21.1	19.2	22.2	71	..	6.8	..	9.7	0	4	25	1	0	1	0	0	13	10	4	2	0
	1430	,,	1472.4	905.1	..	27.1	21.8	18.9	22.1	60	..	6.9	..	12.8	0	8	21	0	0	2	0	0	6	16	5	2	0
	1730	,,	1464.0	904.4	..	26.4	21.5	19.1	22.1	65	..	7.2	..	11.9	0	6	25	0	1	1	0	1	7	16	5	0	0
	2030	,,	1474.5	906.2	..	22.8	20.7	19.6	22.9	83	..	6.1	..	9.7	0	4	24	0	0	1	0	1	10	14	2	3	0
Bangalore Aerodrome	0530	897	1462.4	907.9	..	20.4	19.9	19.7	22.9	96	..	6.5	..	8.2	0	0	29	0	0	1	0	0	4	23	1	2	0
	0830	,,	1476.9	909.3	..	21.7	20.5	19.9	23.2	89	..	7.1	..	10.3	0	1	29	0	1	0	0	0	2	21	6	1	0
	1130	,,	1482.9	909.2	..	25.0	22.1	20.7	24.4	77	..	6.9	..	12.5	0	6	24	0	0	1	0	0	3	23	3	1	0
	1430	,,	1468.3	907.2	..	27.3	22.9	20.9	24.7	69	..	6.9	..	11.1	0	5	23	1	1	0	0	0	4	21	1	3	0
	1730	,,	1459.2	906.4	..	26.4	22.6	21.1	24.6	73	..	7.1	..	4.1	0	6	20	2	0	0	1	0	3	17	3	5	0
	2030	,,	1472.5	908.5	..	22.9	21.5	20.9	24.6	89	..	6.0	..	10.9	0	1	29	0	0	1	1	0	6	18	4	1	0
	2330	,,	1478.0	909.3	..	21.7	20.9	20.5	24.1	93	..	6.3	..	10.5	0	0	26	0	0	1	0	0	3	22	0	5	0
Mysore	0830	767	1007.5	923.3	−0.6	21.8	20.1	19.2	22.4	85	−5	5.3	−1.3	6.3	0	1	28	0	2	1	1	5	11	6	3	2	0
	1730	..	1004.6	922.3	..	25.0	21.0	19.2	22.0	72	..	6.2	..	5.8	0	3	28	1	0	0	2	0	15	11	2	0	0
Kerala																											
Calicut	0530	5	1007.8	1007.2	..	24.1	23.6	23.3	28.6	95	..	7.2	..	5.7	0	0	29	1	10	3	4	0	2	4	5	2	0
	0830	,,	1008.8	1008.2	−0.7	24.8	24.0	23.7	29.1	93	+1	7.2	+0.1	6.2	0	4	18	2	8	1	0	0	0	3	8	9	0
	1130	,,	1009.3	1008.7	..	26.5	24.9	24.3	30.4	87	..	7.0	..	7.0	0	1	29	0	2	0	0	1	7	10	10	1	0
	1730	,,	1006.6	1006.0	..	26.3	24.7	24.0	29.8	88	..	7.2	..	9.9	0	3	24	1	1	0	0	1	2	14	8	4	0
	2330	,,	1009.3	1008.8	..	24.6	24.0	23.7	29.3	94	..	6.7	.	8.1	0	2	28	1	7	1	1	0	3	6	11	1	0
Palghat	0830	97	1008.4	997.3	..	24.4	23.4	22.9	27.9	91	..	7.2	..	9.9	0	0	31	0	0	2	0	0	2	26	1	0	0
	1730	,,	1005.4	994.4	..	26.1	24.1	23.2	28.4	84	..	6.7	..	12.4	0	2	29	0	0	0	0	0	1	29	1	0	0
Fort Cochin	0830	3	1008.9	1008.6	−1.2	25.2	24.2	23.8	29.3	92	+5	7.7	+1.1	5.4	0	0	27	3	9	7	1	1	2	2	2	4	0
	1730	,,	1006.7	1006.4	..	25.9	24.5	23.8	29.7	88	..	7.6	..	9.2	0	1	29	2	3	2	0	0	4	4	15	1	0
Cochin (Naval Air Station)	0230	3	1007.9	1007.6	..	24.3	23.7	23.4	28.9	95	..	7.6	.	3.0	0	0	8	0	0	0	0	1	0	2	5	23	0
	0530	,,	1007.7	1007.4	..	23.9	23.3	23.0	28.1	95	..	7.3	.	3.8	0	1	7	0	0	0	0	1	0	1	5	23	1
	0830	,,	1008.9	1008.6	..	25.1	24.0	23.5	29.1	91	.	7.2	.	1.9	0	0	6	0	1	1	1	0	1	1	1	25	0
	1130	,,	1009.2	1008.9	.	27.2	24.8	23.7	29.3	82	..	7.0	..	7.6	0	0	19	1	0	1	0	0	3	7	7	12	0
	1730	,,	1007.1	1006.8	..	26.3	24.4	23.5	29.0	85	..	7.5	..	8.1	0	0	21	0	0	0	1	1	1	11	7	10	0
	2330	,,	1009.3	1009.0	..	24.6	23.9	23.5	29.0	93	..	7.6	..	4.2	0	1	9	1	0	0	0	1	0	7	1	21	0
Alleppey	0830	4	1009.1	1008.7	−0.6	24.6	24.1	23.9	30.0	96	+5	7.2	0	6.5	0	3	21	1	6	2	4	0	2	3	6	7	0
	1730	,,	1007.0	1006.6	..	26.4	24.8	24.0	30.0	87	..	7.1	..	18.5	0	11	20	0	0	0	0	0	0	4	27	0	0
Punalur	0830	34	1009.3	1005.1	..	24.1	23.5	23.2	28.8	94	..	7.4	..	0.6	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	,,	1007.1	1003.3	..	25.4	24.2	23.7	29.3	91	..	7.6	..	4.0	0	0	30	0	0	0	0	3	10	12	5	1	0
Trivandrum	0230	64	1007.6	1000.2	..	23.7	23.1	22.8	27.7	94	..	6.0	..	5.4	0	1	22	5	2	0	0	0	0	8	8	8	0
	0530	,,	1007.6	1000.2	..	23.3	22.9	22.7	27.3	90	..	6.2	..	5.6	0	0	26	6	3	0	0	0	0	3	14	5	0
	0830	,,	1009.1	1001.7	−0.9	24.4	23.5	23.0	27.8	92	+5	6.7	−0.1	5.9	0	2	23	9	2	0	0	0	0	0	14	6	0
	1130	,,	1008.9	1001.6	..	27.1	24.5	23.3	28.6	80	..	6.8	..	11.2	0	4	27	8	1	0	0	0	0	8	14	0	0
	1430	,,	1007.1	999.8	..	27.2	24.5	23.1	28.3	78	..	6.4	..	12.1	0	2	29	6	0	0	0	0	0	7	18	0	0
	1730	,,	1006.8	999.4	..	26.0	23.9	22.9	27.6	83	..	6.9	..	10.0	0	1	30	3	0	0	0	0	1	6	21	0	0
	2030	,,	1008.7	1001.4	..	24.5	23.6	23.2	28.4	92	..	6.0	..	6.5	0	0	25	5	1	0	0	0	0	2	17	6	0
	2330	,,	1009.3	1002.0	..	24.0	23.3	23.0	28.2	94	..	6.0	..	8.2	0	1	29	13	4	0	0	0	0	0	13	1	0
Trivandrum Aerodrome	0830	8	1009.4	1008.5	..	25.2	23.6	22.9	27.7	87	..	7.2	..	19.2	0	13	16	12	3	0	0	0	0	0	14	2	0
Arabian Sea Islands																											
Amini*	0530	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(d) Mean of 27 days.

(b) Mean of 29 days.

*Data given on addenda in December 1964 issue.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian Sea Islands – *Contd.*																											
Amini* – (*Contd.*)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	..	..	..	..	..	..	..	..			..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1430	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2030	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1375·2	794·8	−0·5	18·3	17·0	16·1	18·3	87	+1	5·0	+9·5	1·6	0	0	31	11	6	1	7	2	5	8	1	0	0
	1730	..	1358·5	794·0	..	20·5	18·6	17·7	20·2	84	..	5·0	..	1·8	0	0	31	1	7	1	6	2	7	6	1	0	0
Dharmsala	0830	1211	1465·8	875·6	−1·0	22·7	20·5	19·4	22·1	82	+2	6·4	+0·9	0·7	0	0	21	2	13	0	0	0	3	0	3	10	0
	1730	..	1464·4	875·4	..	23·8	21·1	20·1	23·5	79	..	7·0	..	1·0	0	0	31	1	3	1	0	1	21	0	4	0	0
Simla	0830	2202	1430·7	776·8	−0·2	17·2	15·9	15·0	17·1	88	+8	6·5	+0·2	1·4	0	0	22	5	1	2	0	11	1	1	1	9	0
	1730	,,	1417·5	776·5	..	18·2	17·1	16·5	18·8	91	..	6·8	..	0·3	..	..	4	0	2	0	0	2	0	0	0	27	0
Lokpal	0830	..	..	..	..	6·6	18·1	5·6	9·1	93	..	5·8	..	..	0	0	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..																									
Joshimath	0830	..	..	..	..	19·3	18·1	17·4	19·9	89	..	6·0	..	2·2	0	0	12	1	2	4	0	0	1	1	1	19	2
	1730	..	..	..	..	21·9	19·3	17·6	20·1	77	..	6·2	..	3·8	0	0	19	4	2	2	0	0	2	5	2	12	2
Mussoorie	0830	2042	..	..	..	17·7	16·9	16·4	18·8	93	0	7·2	+0·2	2·2	0	0	19	4	1	0	3	6	3	0	2	12	0
	1730	,,	..	..	..	18·5	18·0	17·7	20·2	95	..	7·3	..	3·0	0	0	24	3	0	0	7	10	3	0	1	7	0
Mukteswar (Kumaun)	0830	2311	3097·0	768·5	+0·3	16·0	15·1	14·6	16·7	93	+3	6·3	−0·3	9·2	0	3	23	1	4	5	2	0	3	5	6	5	0
	1730	,,	3085·7	767·0	..	17·9	16·9	16·4	18·7	92	..	6·3	..	12·1	0	5	22	0	2	4	2	1	3	11	4	4	0
Nainital	0830	1953	1427·2	799·9	+0·3	18·5	16·4	14·8	16·8	80	−6	6·0	−0·9	7·7	0	4	23	0	1	10	12	0	0	2	2	4	0
	1730	,,	1397·9	797·5	..	19·1	17·1	16·1	18·4	85	..	6·3	..	9·0	0	1	29	1	1	9	8	0	1	9	1	1	0
Kalimponji	0830	1209	..	871·8	..	23·8	22·3	21·7	25·9	89	−2	4·3	+2·3	6·6	0	0	31	0	0	0	19	0	8	0	4	0	0
	1730	,,	1428·0	..	..	23·9	22·3	21·6	25·8	87	..	4·2	..	5·	0	0	31	0	0	0	13	0	8	0	10	0	0
Darjeeling	0830	2128	1473·8	788·1	+3·2	16·9	16·7	16·6	18·9	97	+8	7·7	+0·6	1·5	0	0	7	4	2	0	0	0	1	0	0	24	0
	1730	,,	1450·6	786·1	..	17·5	16·9	16·6	18·9	97	..	7·6	..	1·1	0	0	7	6	0	0	0	1	0	0	0	24	0
Kohima	0830	1406	1528·4	862·3	..	20·8	19·6	19·0	22·0	91	..	7·6	..	1·9	0	1	31	6	0	0	0	0	0	0	25	0	0
	1630	,,	1449·3	854·5	..	21·2	20·2	19·7	22·9	92	..	7·9	..	1·4	0	0	30	7	3	0	0	0	0	1	19	1	0
Shillong	0830	1500	1471·5	847·4	+3·0	21·2	19·5	18·6	21·4	85	+4	7·7	+1·0	1·1	0	0	5	0	0	0	0	1	4	0	0	26	0
	1730	,,	1450·2	845·4	..	21·2	19·4	18·4	21·1	84	..	7·6	..	1·7	0	1	4	0	0	0	0	1	4	0	0	26	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1460·0	875·5	+2·3	20·6	19·9	19·7	22·9	97	+6	7·4	+0·3	2·0	0	0	20	1	0	0	0	1	18	9	1	11	0
	1730	,,	1432·0	873·3	..	22·7	19·8	18·2	20·9	77	..	6·4	..	4·0	0	0	26	1	0	0	0	1	12	10	2	5	0
Aijal	0830	..	..	..	..	20·8	20·0	19·2	22·2	93	..	(b) 7·6	..	(b) 3·7	0	0	29	0	1	9	1	3	13	2	0	0	0
	1730	..	..	..	..	21·5	20·5	19·9	23·2	91	..	(a) 7·7	..	(a) 5·7	0	0	28	1	0	1	0	3	20	3	0	2	0
SIKKIM																											
Pachmarhi	0830	1075	1447·9	887·6	+1·4	21·6	20·7	20·2	23·8	92	+4	7·6	+0·4	5·9	0	0	30	0	0	0	0	0	3	19	8	1	0
	1730	,,	1428·8	885·4	..	23·4	21·5	20·5	24·1	84	..	7·0	..	4·4	0	0	29	0	1	0	0	0	6	16	6	2	0
Mahableshwar	0830	1382	1459·5	857·9	−0·4	17·8	17·7	17·6	20·2	99	+2	7·8	−0·2	13·5	0	3	28	0	0	0	0	0	31	0	0	0	0
	1730	,,	1446·4	856·6	..	18·6	18·5	18·4	21·3	99	..	7·9	..	12·1	0	0	31	0	0	0	0	0	31	0	0	0	0
Mercara	0830	1152	1480·9	888·4	−0·1	18·7	18·3	18·1	20·8	96	+1	6·6	−1·0	12·1	0	7	24	2	0	0	0	3	5	19	2	0	0
	1730	,,	1465·5	881·5	..	19·8	19·3	18·8	21·6	93	..	7·4	..	11·7	0	6	25	1	1	0	0	0	1	25	3	0	0
Ootacamund (R)	0830	2249																									
(R)	1730	,,																									
Coonoor (R)	0830	..																									
Kodaikanal	0830	2343	3128·2	769·2	+0·3	14·0	12·9	12·2	14·3	89	+1·2	6·8	+1·0	7·9	0	3	19	3	0	0	2	2	1	6	8	9	0
	1130	..	3136·3	769·3	..	16·2	14·4	13·3	15·3	83	..	7·6	..	6·9	0	3	19	3	0	0	4	2	0	2	11	9	0
	1730	..	3113·1	767·7	..	14·3	13·7	13·3	15·3	94	..	7·8	..	7·5	0	4	16	1	1	0	4	0	0	3	11	11	0
Nepal																											
Katmandu	0830	1324	1439·2	861·5	..	22·6	20·7	19·8	23·1	85	..	7·1	..	0·7	0	0	5	1	1	1	1	1	0	0	0	26	0
	1130	,,	1437·8	861·3	..	25·3	21·7	20·2	23·2	73	..	6·6	..	1·4	0	0	9	0	1	2	1	1	1	0	3	22	0
	1730	,,	1418·4	859·4	..	24·0	21·8	20·8	24·6	83	..	6·7	..	1·5	0	0	13	6	0	0	2	2	1	0	2	18	0

*Data given as addenda in December 1964 issue.

(a) Mean of 30 days.

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sikkim																											
Lachen	0830	,,	..	..	..	16·1	14·9	14·2	16·2	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																											
Tilaiya	0830	,,	..	..	..	27·4	25·1	23·9	29·7	83	..	6·5	..	8·0	0	0	30	2	1	13	4	2	0	4	4	1	0
	1730	,,	..	..	..	27·9	25·5	24·5	30·7	82	..	6·1	..	7·6	0	0	29	4	2	9	3	1	1	8	1	8	0
Hazaribagh	0830	615	1000·6	933·6	..	25·5	23·9	23·1	28·3	87	..	7·0	..	7·0	0	0	27	0	0	6	0	3	6	9	3	4	0
	1730	,,	998·2	931·4	..	26·0	24·4	23·7	29·3	87	..	6·9	..	5·6	0	0	26	0	1	4	5	2	6	7	1	5	0
Konar	0830	,,	..	..	..	26·6	27·4	23·8	29·5	85	..	6·7	..	6·3	0	0	30	2	0	4	3	3	0	9	9	1	0
	1730	,,	..	..	..	28.3	25.6	24.4	30.5	80	..	6.4	..	8.0	0	0	31	1	0	6	4	0	0	15	5	0	0
Bokaro	0830	242	1000·8	974·3	..	27.5	25.1	24.0	29.8	83	..	6.3	..	4.2	0	0	28	0	0	7	7	0	10	4	0	3	0
	1730	,,	997·8	971.4	..	28·3	25.1	23.8	29.3	78	..	6.4	..	4.0	0	0	26	1	2	6	14	1	0	1	1	5	0
Maithun	0830	..	..	..	..	28·2	26·1	25·2	32·1	84	..	6·8	..	4·4	0	1	27	1	0	2	5	7	13	0	0	3	0
	1730	..	..	..	..	28·9	23·1	20·1	23·5	59	..	6·6	..	3·4	0	0	30	0	1	2	11	1	14	1	0	1	0
Ranigath	0830	..	..	..	..	27·8	25·5	24·6	30·9	83	..	7·7	..	2·4	0	0	25	0	2	1	6	1	12	2	1	6	0
	1730	..	..	..	..	28·2	25·7	24·7	31·1	81	..	7·3	..	1·7	0	0	18	1	2	1	7	0	6	0	1	13	0
Panchet Hills	0830	..	..	..	..	28·3	26·0	25·1	31·9	83	..	6·1	..	4·1	0	0	23	0	1	0	9	0	13	0	0	8	0
	1730	..	..	..	..	27.2	25.1	24.2	30.2	81	..	6.3	..	2.5	0	0	18	0	3	0	7	0	7	0	1	13	0
Durgapur	0830	..	..	..	..	28.1	26·2	25.4	32·4	86	..	6.3	..	11.5	0	1	30	1	0	3	3	22	2	0	0	0	0
	1730	..	..	..	..	28.6	26.9	26·2	34·0	86	..	6·5	..	11.5	0	1	30	1	0	1	10	6	13	0	0	0	0
Mahanadi Catchment																											
Guinabahar	0830	..	..	..	..	25·3	24·1	23·6	29·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hirakud	0830	159	1002·6	984·8	..	27·0	25·1	24·3	30·9	87	..	6·5	..	4·2	0	1	23	0	0	1	1	4	12	6	0	7	0
	1130	,,	1002·2	984·6	..	29·0	26·2	25·0	31·7	77	..	6·5	..	4·5	0	1	27	0	1	0	1	2	17	5	2	3	0
	1730	,,	999·6	981·9	..	28·9	25·7	24·3	30·6	77	..	6·9	..	3·7	0	0	23	0	0	0	1	6	10	4	2	8	2
Bhimkund	0830	..	..	..	..	26·4	24·5	23·7	29·3	87	..	6·7	..	1·8	0	0	17	0	0	0	6	3	5	1	0	14	0
	1730	..	..	..	..	26·6	24·6	23·7	29·3	86	..	7·1	..	1·5	0	0	12	0	0	0	4	1	5	1	1	19	0
Sonepur	0830	..	..	..	..	27·5	25·4	24·5	30·7	83	..	..	..	4·0	0	0	26	0	0	1	2	9	6	8	0	5	0
Khijrawan	0830	..	..	..	..	25·7	23·7	22·8	27·6	84	..	5·6	..	4·3	0	0	26	0	1	0	2	7	14	2	0	5	0
	1730	..	..	..	..	27·5	24·6	23·4	28·6	79	..	5·6	..	4·2	0	0	25	1	1	0	2	4	10	5	2	6	0
Narmada Catchment																											
Bogra Tawa	0830	..	..	..	..	26·2	24·3	23·4	28·9	85	..	7·2	..	10·7	0	0	31	0	0	0	0	1	21	9	0	0	0
	1730	..	..	..	..	28·4	25·1	23·6	29·1	77	..	7·6	..	7·6	0	0	27	1	0	0	2	0	16	6	2	4	0
Punasa	0830	..	..	..	..	25·9	24·1	23.2	28·6	85	..	6.1	..	10·3	0	1	30	0	0	0	0	2	11	18	0	0	0
	1730	..	..	..	..	30.0	25·1	22.7	27.9	67	..	6.9	..	9.4	0	1	29	2	0	2	0	1	6	15	4	1	0
Thikri	0830	..	..	..	..	26·7	24·7	23·8	29·5	85	..	6·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	28.3	22·5	19.4	22·5	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	33·8	24.8	20·4	24.0	46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	18·9	15·1	13·0	15·0	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·5	14·9	13·2	15·3	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·8	23·1	22·6	27·4	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·8	23·7	22·9	27·9	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	20·1	18·5	17·7	20·2	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	19·2	18·1	20·9	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·8	22·5	21·9	26·2	89	..	6·9	..	0·2	0	0	2	0	0	0	1	1	0	0	0	29	0
	1130	..	..	..	..	26·3	23·2	21·9	26.2	78	..	6·5	..	2·1	0	0	17	0	0	0	8	8	1	0	0	14	0
	1730	..	..	..	..	25·8	23·3	22·3	26·7	81	..	6·5	..	1·3	0	0	10	0	1	2	6	1	0	0	0	21	0
Gorkha	0830	..	..	..	..	22·5	21·5	21·0	24·9	92	..	7·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	24·6	22·8	22·5	26·4	86	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·5	22·4	21·5	25·7	84	..	6·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·5	23·3	22·7	27·7	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment Trans Himalaya																											
Dailekh	0830	..	..	..	..	21·0	19·8	19·2	22·2	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	..	..	..	..	22·3	21·0	20·4	23·9	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	18·7	18·1	17·7	20·3	94	..	6·0	..	4·0	0	0	29	3	3	5	8	1	2	2	5	2	0
	1130	..	..	..	..	20·6	19·1	18·4	21·1	88	..	6·0	..	4·7	0	0	31	3	2	4	8	0	0	1	13	0	0
	1730	..	..	..	..	20·6	19·5	19·0	22·0	90	..	6·1	..	5·3	0	0	31	6	1	7	2	1	1	0	13	0	0

*Data not reliable.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(*Contd.*)																											
Gandak Catchment—(*Contd.*)																											
Sahayana	0830	..	..	..	..	22·8	20·9	20·0	23·5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·1	20·6	19·8	23·1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Banwal	0830	..	..	..	..	27·2	25·6	24·9	31·5	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·4	26·2	25·3	32·3	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Kathmandu*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
[illegible]	0830	..	..	..	..	20·5	20·0	19·8	23·1	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·3	20·7	20·0	23·4	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	0830	..	..	..	..	18·5	17·3	16·8	19·2	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·5	17·7	17·4	19·9	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible] Gola	0830	..	..	..	..	12·9	11·9	11·3	13·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·5	12·2	12·0	14·0	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	0830	..	..	..	..	21·5	20·2	19·5	22·7	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·5	20·3	19·7	23·0	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	0830	..	..	..	..	20·3	19·3	18·8	21·7	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	19·1	18·8	21·7	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]	0830	..	..	..	..	19·6	18·8	18·[illegible]	21·2	93	..	7·3	..	0·4	0	0	4	1	0	0	0	1	0	0	2	27	0
	1130	..	..	..	..	21·5	20·0	19·[illegible]	22·5	88	..	7·1	..	3·1	0	0	22	3	0	0	3	1	2	6	7	9	0
	1730	..	..	..	..	20·8	19·3	18·7	21·5	88	..	7·3	..	4·6	0	0	19	3	1	1	4	7	0	2	1	12	0
[illegible]	0830	..	..	..	..	18·9	18·4	18·2	20·9	96	..	7·2	..	0·6	0	0	5	1	0	0	1	0	0	2	1	26	0
	1130	..	..	..	..	20·9	19·6	19·0	22·1	89	..	7·0	..	1·1	0	0	10	0	1	1	0	1	2	4	1	21	0
	1730	..	..	..	..	19·6	19·8	18·6	21·2	93	..	6·9	..	2·0	0	0	12	0	0	1	2	0	1	5	2	19	0
[illegible]	0830	..	..	..	..	22·2	21·1	20·7	24·4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·3	21·9	21·3	25·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]†	0830	..	..	..	..	23·6	21·9	21·1	25·1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·0	21·6	20·4	24·0	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[illegible]kshetra	0830	146	1002·1	995·7	..	26·5	25·1	24·5	30·7	89	..	7·0	..	3·0	0	0	23	2	0	0	1	0	14	1	5	8	0
	1130	,,	1001·7	995·4	..	28·0	25·8	24·9	31·5	84	..	7·2	..	3·3	0	0	20	0	0	0	0	1	15	3	1	11	0
	1730	,,	999·3	993·1	..	27·8	25·8	25·0	31·7	85	..	6·7	..	2·6	0	0	19	0	2	3	1	1	10	2	0	12	0
[illegible]ta Catchment																											
[illegible]artok	0830	1312	1449·3	815·2	..	18·6	18·1	17·8	20·4	95	..	7·5	..	0·1	0	0	2	1	1	0	0	0	0	0	0	29	0
	1130	,,	1444·2	814·9	..	20·2	19·2	18·8	21·8	92	..	7·5	..	0·6	0	0	6	1	2	0	2	0	1	0	0	25	0
	1730	,,	1427·1	813·2	..	19·4	18·5	18·1	20·8	92	..	7·9	..	0·5	0	0	4	1	0	0	1	1	1	0	0	27	0
[illegible]	0830	..	..	..	..	20·0	19·5	19·3	22·4	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	1730	..	..	..	..	20·9	19·9	19·4	22·6	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.

*Data included under Nepal

†Observations for 29 days

MONTHLY MEANS OF UPPER WINDS

July, 1964 (*Asadha* 10—*Sravana* 9, 1886 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data up to 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n=represents the number of observations;

V=represents the mean wind speed in metres per second irrespective of direction;

v=represents the resultant mean velocity in metres per second;

D=represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23	Gangtok	27°20′	88°16′	2115	1st June, 1963	0830		1730	
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730*	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730*	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.
†Naval Meteorological Office.
@Radiosonde ascents followed by optical theodolite.

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

JULY, 1964 (Asadha 10— Sravana 9, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.0	2.6	152	31	3.2	2.8	177	31	3.1	2.9	149	31	2.2	2.0	233	31	3.2	2.4	229	31	2.9	2.3	216
0.15 a.g.	21	7.6	7.2	167	28	6.6	6.3	179	25	7.9	7.5	179	31	5.8	5.3	243	29	5.3	4.0	240	31	5.2	3.8	224
0.3 a.m.s.l.	21	9.2	8.6	182	28	8.1	7.6	186	25	9.5	9.0	190	31	6.6	5.9	248	29	5.7	4.4	244	31	5.3	4.1	227
0.6 ,,	21	10.0	9.2	189	27	9.3	8.6	192	25	10.5	9.9	199	31	8.0	7.5	264	29	6.0	4.9	259	31	5.4	4.5	236
0.9 ,,	20	9.9	8.8	189	27	9.9	9.0	199	24	9.8	9.1	206	31	8.5	7.6	261	18	6.4	5.4	263	31	5.4	4.5	242
1.5 ,,	20	9.2	7.3	204	21	8.3	6.9	193	18	8.7	7.6	205	31	7.2	6.2	244	9	7.6	6.6	257	31	6.5	5.3	251
2.1 ,,	19	8.7	6.2	217	16	7.7	5.4	200	14	7.1	5.6	205	31	6.9	5.4	227	2	6.5	5.2	293	31	6.2	4.4	257
3.0 ,,	12	8.4	4.3	241	14	6.0	4.1	194	7	6.7	5.4	221	31	6.3	2.3	197					31	5.8	2.5	251
3.6 ,,	9	7.4	2.6	190	9	7.8	5.0	201					31	5.5	0.5	125					31	5.5	2.0	268
4.5 ,,	8	5.8	3.6	164	5	7.1	4.3	216					31	6.0	1.6	064					31	5.7	1.3	166
5.4 ,,	5	6.5	5.4	144	2	5.3	4.4	270					31	5.7	1.5	060					31	5.4	0.3	169
6.0 ,,	4	8.7	8.1	134	1	5.5	5.5	195					31	6.0	1.6	053					31	5.4	1.6	108
7.2 ,,	3	8.7	8.6	116									31	6.1	4.3	085					31	5.4	3.4	081
9.0 ,,	1	10.0	10.0	090									31	7.6	6.7	083					30	7.8	5.8	100

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.5	2.8	221	31	0.8	0.4	200	31	1.8	1.0	251	31	1.7	0.5	230	31	0.9	0.2	195	31	1.9	1.4	115
0.15 a.g.	30	6.9	6.0	218	31	5.7	2.6	270	31	5.0	2.4	244	31	5.6	1.9	250	29	5.9	2.6	205	26	6.4	3.3	122
0.3 a.m.s.l	30	8.1	7.2	219	31	5.8	2.4	226	31	5.4	2.3	241	31	5.6	1.9	250	29	6.7	2.7	205	26	2.8	1.7	109
0.6 ,,	30	9.5	8.6	232	31	6.9	3.8	253	31	5.5	2.7	245	31	5.8	1.4	260	29	7.0	1.5	265	26	7.7	4.5	133
0.9 ,,	30	8.8	8.0	240	31	7.6	4.0	260	29	6.0	2.4	259	31	5.9	1.8	264	29	6.8	3.3	216	23	8.4	3.7	138
1.5 ,,	25	6.3	5.0	246	30	7.3	2.8	269	21	7.5	3.8	255	31	6.9	2.5	267	17	12.3	5.2	232	21	7.1	1.0	236
2.1 ,,	13	5.0	3.2	237	30	7.1	2.2	276	12	6.3	1.6	308	31	7.5	2.8	274	19	9.9	4.5	270	18	7.2	2.1	299
3.0 ,,	13	3.7	1.4	189	30	6.5	1.4	273	4	5.6	2.3	331	31	6.8	2.5	290	10	7.7	0.9	281	14	6.0	4.1	318
3.6 ,,	2	9.3	1.8	181	30	6.6	0.7	97	2	3.7	3.5	306	30	7.4	2.0	270	1	12.0	12.0	065	9	4.2	1.5	325
4.5 ,,					30	6.9	0.9	20					29	7.1	1.0	282					8	5.4	3.0	275
5.4 ,,					30	7.1	0.3	093					29	7.3	0.5	290					6	5.5	4.5	231
6.0 ,,					30	7.1	1.0	056					29	7.7	0.8	352					6	7.3	5.8	228
7.2 ,,					29	7.1	2.5	090					29	6.7	2.3	084					2	5.5	5.4	199
9.0 ,,					28	7.1	4.1	090					28	7.7	4.7	085					1	10.0	10.0	225

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

JULY, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.4	1·5	124	31	1.9	0.3	114	31	2.0	1.3	111	31	2.4	2.1	262	31	4.3	3.3	273	31	4.0	3.1	262
0.15 a.g.	29	5.9	3.7	118	29	5.3	1.2	130	31	6.9	3.0	107	31	6.5	5.9	261	31	6.9	5.7	268	29	8.8	6.8	261
0.3 a.m.s.l.	29	3.4	2.0	119	29	3.1	0.3	142	31	3.3	1.7	105												
0.6 ,,	29	6.4	4.1	123	29	5.9	0.8	141	31	7.3	2.9	119	31	7.3	6.8	258	31	6.5	5.7	266	29	9.0	6.9	262
0.9 ,,	25	7.1	3.8	121	28	6.3	0.5	122	31	7.3	2.5	133	30	9.4	8.9	266	31	7.0	6.3	269	29	10.4	8.2	265
1.5 ,,	18	7.4	1.5	093	27	7.2	0.6	075	29	7.1	1.4	201	26	9.8	8.8	273	29	7.3	6.2	270	29	9.6	8.1	269
2.1 ,,	14	7.6	3.2	350	23	6.9	0.6	055	27	6.8	1.4	230	24	7.9	6.0	273	26	6.5	4.8	264	25	7.9	6.0	266
3·0 ,,	11	6.0	4.5	330	20	5.7	1.6	323	18	6.0	3.3	276	17	6.9	3.9	247	19	5.4	3.0	256	16	5.9	3.1	233
3.6 ,,	10	5.9	4.4	327	14	5.6	1.3	264	3	3.3	0.3	299	14	6.9	2.6	233	11	4.4	2.3	240	10	6.3	2.2	212
4.5 ,,	5	7.0	4.3	332	9	6.4	2.0	264					10	6.7	4.3	154	7	7·0	4·0	233	5	6.7	2.2	185
5.4 ,,	4	6.5	2.8	296	6	5.3	3·8	258					9	7.9	4.8	125	3	7.5	5·0	187	2	8·0	6.2	123
6.0 ,,	3	4.8	3·8	223	6	6.3	5.1	256					8	7·3	5·3	117	3	8·2	4.4	178	1	4.0	4.0	180
7.2 ,,	2	6.5	6.5	270									6	7·0	6·3	109	1	13.0	13.0	105				
9.0 ,,													5	9.9	9.8	097	1	10.0	10.0	075				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.4	0.9	193	31	2.0	1.1	180	31	1.8	1.4	172	31	2.8	2.7	259	31	4.5	3.9	274	31	3·5	3.2	270
0.15 a.g.	26	5.3	3.5	207	27	5.6	3.3	179	27	6.2	4.5	178	29	7.8	7.2	262	29	6.5	5.8	272	28	8.1	7.3	276
0.3 a.m.s.l.	26	5.8	3.8	213	27	5.9	3.4	177	27	6.5	4.9	188												
0.6 ,,	26	8.1	3.5	238	27	6.2	2.9	180	27	8.4	5.7	198												
0.9 ,,	24	8.8	5.4	256	25	6.9	2.1	202	25	7.7	5.3	215	29	9.8	9.1	271	29	6.9	6.3	276	28	9.4	8.3	277
1.5 ,,	22	8.1	5.6	255	19	7.7	3.6	237	22	6.9	4.8	248	25	10.9	10.2	267	28	8.3	7.1	274	24	10.9	9.3	270
2.1 ,,	17	7·2	4.8	246	14	8.4	4.2	265	18	7.2	5.3	250	8	11.1	10.7	250	14	22.4	19.8	254	13	9.5	7.6	258
3.0 ,,	12	6.0	4.7	250	11	7.6	3.6	240	12	6.3	3.7	243	1	6.5	6.5	229					4	5.2	5.1	243
3.6 ,,	8	6.9	5.0	244	7	8.1	4.2	258	6	5.4	1.0	173												
4.5 ,,	5	5.3	3.8	191	5	6.1	3.0	274	2	6.7	5.9	122												
5·4 ,,	3	6.3	5.9	158					1	2.0	12.0	220												
6.0 ,,	2	7.3	7.1	133					1	1.5	1.5	200												
7.2 ,,	2	8.5	8.3	130																				
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·9	087	31	2·1	0·9	097	31	1·3	0·5	113	31	2·7	2·2	267	31	3·5	2·8	273	31	2·9	2·8	256
0·15 a.g.	21	6·1	2·0	114	25	6·1	2·6	125	24	5·3	2·0	117	13	5·9	3·7	287	28	6·0	5·2	263	31	6·5	4·9	256
0·3 a.m.s.l.	21	6.7	2.6	122	25	6·4	2·8	128	24	5·5	1·4	128												
0·6 ,,	21	8.6	2.4	125	25	6·2	2·4	131	24	6·6	2.3	110												
0·9 ,,	20	8·9	2·0	110	21	7.0	2·1	119	24	7.0	1.2	141												
1·5 ,,	17	9·8	0·9	118	10	6·1	2·5	106	23	8·1	0·9	247	13	6·6	4·2	285	28	6·2	5·2	267	31	7·3	5·6	256
2·1 ,,	15	10·3	0·7	345	7	6·8	2·3	101	21	8·7	0·8	312	12	7·4	4·8	278	13	7·2	5·7	267	30	7·7	6·3	263
3·0 ,,	10	8·9	1·2	318	5	8·4	1·9	127	18	9·5	1·2	087	10	7·7	3·2	298	3	5·5	3·1	172	23	6·3	4·2	264
3·6 ,,	10	9·5	8·9	281	4	7·9	5·0	100	11	8·1	0·2	100	8	8·0	3·1	261	2	5·0	4·7	115	20	5·9	3·6	258
4·5 ,,	7	7·6	2·2	015	2	8·7	7·0	144	8	7·1	0·4	199	6	6·2	1·1	145	1	5·5	5·5	155	13	4·5	1·1	213
5·4 ,,	5	6·5	1·4	083	2	9·0	5·6	129	6	4·8	0·7	315	5	8·7	3·4	152	1	7·0	7·0	140	10	4·3	2·3	136
6·0 ,,	5	6·3	2·7	051	1	5·5	5·5	055	7	6·3	0·6	212	5	6·3	3·2	119	1	6·5	6·5	135	9	4·7	2·6	128
7·2 ,,	3	7·7	7·4	117					5	4·5	2·0	221	1	19·0	19·0	110	1	6·0	6·0	100	7	8·2	7·4	116
9.0 ,,	2	9.5	9.3	093					2	3·7	1·3	343	1	11·5	11·5	125	1	5·0	5·0	115	7	9·4	9·2	101

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·5	263	31	1·5	1·1	090	31	1·5	0·4	137	31	3·6	3·0	260	31	3·5	2·6	256	31	2·8	2·2	256
0·15 a.g.	21	8·4	7·0	258	24	6·4	2·1	092	28	4·6	0·1	118	25	7·8	6·9	249	31	7·3	6·0	252	29	7·0	5·2	243
0·3 a.m.s.l.					24	6·2	2·1	093	28	4·3	0·7	091												
0·6 ,,					22	8·0	2·1	140	28	6·3	0·5	153	25	6·0	5·2	248	31	5·8	4·4	250	29	5·4	4·0	240
0·9 ,,					20	8·9	1·6	179	27	6.8	0.7	214	25	9·4	8·2	265	31	7·2	6·0	256	29	8·2	6·0	255
1·5 ,,	21	10·3	8·7	265	20	9·6	0·9	253	25	7·5	1·7	262	21	9·8	8·8	268	29	6·4	5·2	257	29	8·6	6·9	263
2·1 ,,	15	7·9	5·1	254	17	9·5	1·5	328	20	6·7	1·8	247	20	7·7	6·6	266	25	7·2	6·6	264	24	7·5	6·0	265
3·0 ,,	13	6·5	3·6	253	12	7·7	2·6	291	16	6·8	1·5	299	18	5·5	3·8	257	18	6·3	5·1	247	19	4·8	3·2	254
3·6 ,,	11	6·3	2·6	228	10	5·3	1·1	328	15	6·0	3·2	300	15	5·1	2·7	251	12	5·3	3·2	224	10	3·9	2·2	214
4·5 ,,	4	6·7	4·5	098	10	5·0	0·7	258	14	6·4	3·0	302	10	6·5	3·2	228	6	4·7	4·3	179	2	7·0	5·3	229
5·4 ,,					8	5·1	1·0	323	12	4·7	1·8	291	9	6·2	3·2	237	4	3·9	3·3	168				
6·0 ,,					6	6·7	2·9	300	6	4·6	1·7	346	6	5·7	1·0	144	2	4·5	4·5	180				
7.2 ,,					4	3·4	1·7	137	1	2·0	2·0	280	3	6·3	6·0	090	1	4·0	4·0	160				
9·0 ,,					2	5·3	4·3	090	1	4·0	4·0	305	3	9·2	9·2	106								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10— Sravana 9, 1886 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.0	1.2	154	31	1·7	0.9	133	31	3.5	3.1	242	31	3.4	2.5	238	31	3.5	2.8	227	31	3.1	2.8	225
0.15 a.g.	26	5.7	3.3	158	26	4·8	2.6	136	25	8.2	7.7	255	27	6.6	5.6	248	26	8.5	7.5	235	23	7.4	7.0	220
0.3 a.m.s.l.	26	6·3	3·6	169	26	5.0	2.5	138													23	8.1	7·7	227
0.6 ,,	25	6.9	3.4	194	26	6.1	2·2	150	25	6.6	6.3	255	27	5.6	4.5	248	26	7.4	6.7	233	21	8.5	7.9	236
0.9 ,,	21	6.9	3·5	228	25	6.5	2.3	178	24	10.2	9.5	266	27	7.4	6.4	254	26	9.4	8.4	249	21	9.1	8.3	245
1.5 ,,	19	7·7	2·6	230	22	7.4	2·0	202	19	8.6	7.4	274	25	8.4	6.8	262	25	8.7	7.0	257	21	8.5	7.5	260
2.1 ,,	12	6.6	2.1	205	19	8.2	1.7	210	17	7.2	5.2	273	19	8.3	6.3	266	23	8.0	5.7	267	19	7.5	6.9	260
3.0 ,,	11	6.9	2·0	204	15	7.7	1.2	196	14	7.9	4.6	287	14	9.9	6.9	248	15	6.0	2.9	269	13	6.3	5.6	262
3.6 ,,	8	6.7	2.9	138	8	7.1	1.8	252	10	7·9	2·3	245	7	6.5	0.1	192	4	5.0	0.5	174	10	7.2	5.8	258
4.5 ,,	6	5·6	2.6	155	7	6.3	1.4	240	4	7·4	0·6	175	5	5.6	2.7	101					4	5.4	4.9	268
5.4 ,,	6	5·0	1·7	132	6	4.2	2.1	242					2	6.7	6.7	105					1	6.0	6·0	240
6.0 ,,	4	6.0	5.4	110	3	4·5	1.3	153					2	7.5	7.5	107								
7.2 ,,	3	6.3	4.4	090	1	7.0	7.0	065					1	10.0	10.0	115								
9.0 ,,	1	14.5	14.5	085	1	11.0	11.0	090																

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.8	3.6	209	31	3.9	3.3	211	31	3.0	2.8	236	31	6.0	5.6	242	31	5.2	4.9	239	31	1.7	1.5	230
0.15 a.g.	22	7.2	6.3	·212	22	7.2	6.4	208	31	8.1	7.6	245	30	10.3	10.0	247	31	8.6	8.4	239	28	7.2	6.2	232
0.3 a.m.s.l.	22	7·7	6.8	215	22	7.5	6.7	213	31	8.9	8.1	250	30	10.2	10.0	248	31	9.8	9.6	242	28	6.2	5.2	233
0.6 ,,	21	7.7	6.9	218	22	8.3	7.3	221	31	10.1	9·4	253	30	9.9	9.5	242	31	10.8	10.6	244	28	10.2	9.2	248
0.9 ,,	20	7.9	6.8	230	22	7.5	6.4	233	30	9.7	9·2	250	29	9.4	8.4	244	30	9.9	9.7	240	27	10.6	8.7	254
1.5 ,,	18	7.4	6.3	246	17	6.8	5.2	254	25	6.9	5.8	233	23	7.9	6.2	236	26	7.0	6.2	228	26	7.6	5.8	258
2.1 ,,	16	7.8	7.2	257	15	6.2	5.1	260	15	5.0	1.2	255	16	5.2	1.9	250	22	4.7	1.7	196	23	4.7	1.7	300
3.0 ,,	9	6.4	5.8	253	9	5.2	4.2	252	8	4·7	2.6	065	6	4.1	2.7	078	19	4.5	1.1	063	20	6.2	2.1	012
3.6 ,,	5	5.4	4.8	273	4	2.4	2.0	288	1	5.5	5·5	325	6	3.8	2.6	044	9	6.2	4.2	060	16	6.6	3.1	019
4.5 ,,	5	5.0	4.5	299									6	4.6	1.7	049					11	7·7	5.0	027
5.4 ,,	3	1·6	0.6	090									1	7.0	7.0	110					8	4·8	2.1	053
6.0 ,,	2	1·7	1·3	115									1	7.5	7.5	125					8	4.9	0.7	169
7·2 ,,	2	7.0	6·9	074																	7	8.0	1.6	225
9·0 ,,	1	19.5	19.5	090																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·4	221	31	1·6	1.1	222	31	3·2	2·8	255	31	3·8	3·1	243	31	4·7	4·2	261	31	3·7	3·1	248
0·15 a. g.	30	6·0	4.0	225	29	8·1	6·2	213	31	7·9	6·5	239	31	7·7	6·5	239	31	8·1	7·4	251	28	6·5	5·7	238
0·3 a.m.s.l.	30	5·8	3.5	220	29	6·5	4·5	213	31	7·7	7·0	237	31	8·1	7·2	243	31	7·5	7·0	251	28	7·1	6·5	242
0·6 ,,	30	6·3	4·2	230	29	8·4	6·4	217	31	7·7	7·2	238	25	9·4	8·6	244	31	7·2	6·8	248	26	7·5	6·9	247
0·9 ,,	30	6·4	4·0	232	28	8·1	6·1	222	31	8·6	8·2	243	18	7·0	6·6	253	31	7·9	7·5	248	22	7·2	6·5	251
1·5 ,,	29	6·0	3·7	243	27	6·3	4·6	234	31	8·4	7·9	243	10	4·7	1·2	257	31	8·0	7·0	242	20	7·0	6·1	255
2·1 ,,	21	5·7	3.7	257	21	4·3	2·0	267	31	8·7	8·0	238	8	4·9	3·9	234	31	8·1	7·6	236	15	6·9	5·8	242
3·0 ,,	15	5·1	3·1	323	18	4·2	1·9	3.8	31	7·4	6·1	227	3	9·2	8·7	186	31	7·7	6·6	230	7	5·6	4·6	227
3·6 ,,	11	6·5	5·2	345	3	3·2	2·6	049	31	6·4	4·7	217					31	6·6	5·2	224	2	3·3	3·2	256
4·5 ,,	8	4·6	4·1	332	1	9·5	9·5	025	31	5·5	1·6	234					31	5·8	2·9	218	1	1·5	1·5	175
5·4 ,,	6	7·6	6·2	308					31	5·0	0·8	215					31	5·9	2·2	183	1	2·0	2·0	125
6·0 ,,	5	8·6	7·2	289					31	5·2	0·9	095					31	5·5	2·0	129				
7·2 ,,	3	8·6	6·3	289					31	6·4	3·5	083					31	6·2	4·4	082				
9·0 ,,									31	8·8	7·3	078					29	9.5	8.3	080				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·2	196	31	2·1	1·5	189	31	2·7	2·3	185	31	1·9	1·4	178	31	1·2	0·4	008	31	3.0	2.0	279
0·15 a.g.	31	7·0	5·4	207	29	5·8	4·2	199	31	6·9	5·9	191	29	6·5	5·3	196	24	3·3	1·1	017	26	4.7	4·1	286
0·3 a.m.s.l.	31	7·8	6·0	215	22	6·6	5·0	207	31	7·5	6·2	196	29	8·7	7·3	206	24	4·3	2·7	311	26	6.3	5·7	288
0·6 ,,	30	9·1	6·9	225	28	7·8	6·0	220	31	7·6	6·0	202	26	9·7	8.3	215	24	8.0	7·2	299	26	9·1	8·6	291
0·9 ,,	30	8·8	6·3	229	24	7·1	5·7	235	31	7·3	5·6	213	24	9·0	7·4	223	24	9·6	8·8	297	26	10·6	10·1	293
1·5 ,,	30	7·8	5·1	235	15	6·6	5·6	262	31	7·6	5·0	225	20	8·2	5·8	242	20	10·9	10·2	295	19	10·7	10·0	296
2·1 ,,	30	7·7	4·6	246	11	7·1	5·4	262	31	7·8	5·3	232	13	8·4	5.5	220	13	9·8	8·2	297	16	9·6	8·4	295
3·0 ,,	30	7·2	4·0	249	2	6·5	4·1	324	31	7·1	4·3	227	5	9·5	4.0	209	10	8·6	5·3	286	9	6·0	4·2	285
3·6 ,,	30	7·0	3·0	250					30	6·5	2·9	238	1	11·0	11.0	155	6	6·5	0·3	176	7	6·6	4·0	287
4·5 ,,	30	7·3	2·9	230					30	5·7	1·6	250					5	5·5	1·3	148	5	5.2	1·2	181
5·4 ,,	29	6·5	1·9	197					30	5·7	0.6	209					4	5·3	3·3	092	2	3·3	2·8	151
6·0 ,,	29	6·5	1·6	148					30	6·1	0·7	222					2	7·5	7·5	102	2	3·5	3·3	153
7·2 ,,	29	7·1	3·7	118					30	6·2	2·6	084									2	5·0	4·3	109
9·0 ,,	29	8·9	8·1	091					29	7·9	6·5	092												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRADUN								DIBRUGARH/MOHANBARI											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.7	1.1	275	31	0.4	0.2	030	31	0.8	0·3	286	31	0.9	0.2	106	31	1.1	0.4	114	31	1.5	1·1	063
0·15 a.g.	19	4.1	2.7	306	18	2.3	0.8	090	24	2.4	0.8	315	19	3.4	1.6	146	25	3.2	1.0	188	30	3.8	2.3	070
0·3 a.m.s.l.	19	5.7	4.7	299									19	3.9	2.0	164	25	3.3	1·4	185	30	3.9	2.2	070
0·6 ,,	19	8.1	7.2	299									19	6.3	4.5	214	25	2.5	2.1	205	30	3.5	1.2	117
0·9 ,,	19	9.2	8.4	298	18	2.4	1.1	105	24	2.4	0.9	298	17	7.0	5.6	224	23	4.9	3.7	216	29	3.9	2.3	217
1·5 ,,	15	10.5	10.0	294	16	2.7	0.5	200	21	3.6	1.3	270	12	6.5	5.3	234	18	7.4	6.3	222	25	6.2	5.5	228
2·1 ,,	9	8.7	8.0	290	14	4.1	0.5	180	17	4.0	0·1	153	6	3.8	2.3	190	10	8.1	6.5	230	19	6.1	5.5	222
3·0 ,,	6	8.0	6.8	300	7	4.9	1.7	275	8	7.2	2.0	094	5	4.3	3.1	218	5	6.1	4.6	239	15	5·6	5.1	212
3·6 ,,	2	1.7	1.3	321	3	5.2	5.1	299	4	6.4	2.5	290	3	2.7	1.9	128	2	3.0	2.9	089	8	3.6	2·3	190
4·5 ,,	1	7.0	7.0	145	1	12.0	12.0	290	3	8.0	1.5	037	2	3.7	1.8	354	2	2.8	2.7	113	6	3·1	1·6	150
5·4 ,,									2	2.5	2.3	200	2	6.3	5.7	045	1	1.0	1.0	125	5	4·0	1.7	078
6·0 ,,									1	3.0	3.0	175	1	2.0	2.0	180	1	1.5	1.4	130	5	4·7	2.9	100
7·2 ,,																					4	7·6	3·5	033
9·0 ,,																					1	6·5	6·5	035

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1 6	0·8	062	31	3.9	3.5	239	31	5·4	4 5	254	31	5.0	4.6	253	31	0.1	0.1	015	31	0.1	0.0	135
0·15 a g.	17	3·7	2·1	084	31	7.3	6.8	251	29	9.0	8·2	253	28	8.9	8.6	254	3	2.8	2.6	360	2	4.5	4.5	185
0 3 a.m.s.l.	17	3·7	2.0	092																				
0·6 ,,	17	3.1	1 7	136																				
0·9 ,,	17	3 5	1·9	193	30	8.4	7·5	266	29	9.4	8.7	258	28	10.0	9.5	262								
1·5 ,,	15	6 1	4·9	216	24	8.7	7.3	280	26	8.6	7.6	264	24	10.7	9.4	269								
2·1 ,,	9	4.2	3·1	230	21	6.5	3.9	269	18	6.7	4.9	270	20	6.9	4.6	273	3	1.8	1.8	360	2	4.3	4.3	180
3·0 ,,	6	2 6	1·2	227	16	5 5	1.2	290	13	5.6	1.6	225	16	5.2	1.8	265	3	1·3	0·1	270				
3·6 ,,	4	2·6	2.2	195	15	5 9	1 8	315	10	5·2	2·3	2.7	15	4.6	2.5	235	3	3.5	2·9	102				
4·5 ,,					11	6.1	1.3	142	7	5.1	1.4	175	8	5.3	2.3	191	3	5.2	4·7	067				
5·4 ,,					10	5.9	1.2	131	5	7.1	5.2	130	3	6.3	5.1	177	3	5.7	5.5	110				
6·0 ,,					6	6.4	3·9	134	5	6.3	5.1	123	2	6.7	4.3	202	3	4·5	4.5	106				
7·2 ,,					6	6.9	5.1	142	3	6.7	6.0	100					2	8.5	8·1	059				
9·0 ,,					1	5.0	5.0	115	2	13·0	13.0	090					2	6.3	6.2	097				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 10, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0.3	0.1	292	31	2.1	1.5	357	31	0.8	0.3	288	31	0.7	0.1	285	31	1.6	0.4	163	31	1.8	0.3	101
0·15 a. g. .	30	2.3	0.3	334	28	3.5	2.2	360	31	3.4	1.7	276	29	2.3	0.6	305	24	5.3	2.7	193	30	4.3	0·7	222
0·3 a.m.s.l. .	30	2·6	0·4	285	28	3·4	1·4	360	31	3.7	2.4	271	29	2.5	0.8	302	24	5.7	3.0	201	30	4.4	0.6	155
0·6 ,, .	30	3·7	1·0	271	28	4.2	1·1	295	31	4·7	2·5	262	29	4.0	1.8	280	24	7.4	3.8	228	30	5·4	1.0	206
0·9 ,, .	30	5.1	2.9	245	28	5.2	2.5	233	31	5·1	3.8	250	28	5.3	3.9	244	22	7.8	5.1	248	30	6·5	1.7	215
1·5 ,, .	27	5.9	4.1	235	24	7.2	4.4	215	30	6.7	5.8	241	23	7.7	6.0	233	21	7.4	4.0	257	28	7.4	2.5	229
2·1 ,, .	26	6.2	4.2	233	19	7.2	3.3	197	30	7.1	5.7	235	16	7.8	5.5	224	17	7.8	2.8	263	25	7.3	2.9	252
3·0 ,, .	25	7.0	5.0	227	16	8.0	3.1	194	26	7.1	4.5	235	11	6.2	2.6	180	10	7.0	1.7	133	22	7 0	1.4	234
3·6 ,, .	24	6.5	3.8	210	10	7.9	2.5	117	24	7.3	4.0	231	6	6.1	3.4	201	10	6.9	2.1	146	13	6.6	2.6	101
4·5 ,, .	23	5.9	3.1	194	8	7.3	1.5	107	24	6.5	2.4	225	4	6.6	2.7	147	6	8.2	5.9	113	6	7.0	3.1	066
5·4 ,, .	22	5.2	1.4	185	4	7.9	6.5	102	22	5.9	1.6	218	2	13·3	13.3	265	5	5.9	4.8	130	4	4.1	2.6	081
6·0 ,, .	21	4.8	1.2	140	3	5·7	3.0	112	22	6.5	1.5	208	2	18.0	17.3	090	4	5.7	5.4	126	4	2.7	1.9	067
7·2 ,, .	19	4.8	1.6	094	2	5 0	5·0	115	22	5.0	0.9	153					2	8.7	8.7	100				
9·0 ,, .	16	6.4	4.8	090	2	8·3	8·0	102	23	4.9	2.8	090												

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.6	1.0	177	31	3.4	3.3	211	31	6.0	5.9	208	31	4.5	4.5	208	31	1.1	0.5	091	31	1·1	0.5	095
0·15 a.g. . .	26	5.2	3.1	170	22	8.2	7 8	216	26	10.1	9.6	201	24	9.4	9.3	207	27	6.0	3.1	108	30	4.4	1.3	119
0·3 a.m.s.l. .	26	5.3	3.4	174	22	8.6	8.3	220	26	9·9	9.4	208	24	9.6	8.9	210	27	7.2	3.8	115	30	5.1	1.6	114
0·6 ,, .	26	6.0	3.6	184	22	8.3	7 9	228	26	7.2	6.8	218	24	8.9	8.6	213	23	9.1	3.5	120	30	5.9	1.5	132
0·9 ,, .	26	7.7	4.3	202	22	7.2	6.8	235	26	5.7	4.9	234	20	6.7	6.0	217	19	8.9	3.1	115	28	6.9	1·1	157
1·5 ,, .	25	7.3	4.1	224	21	7.3	6.5	251	26	6.7	5.5	255	17	5.0	4.1	243	14	8.7	2.3	100	25	8.2	0.5	130
2·1 ,, .	19	7.5	4·3	242	19	6.4	5.8	260	26	7.1	6.0	246	12	5.5	5.0	255	8	8.8	2.2	082	20	8.4	1.6	245
3·0 ,, .	12	5.1	2.3	191	14	7.8	7.1	262	25	7.6	6·4	239	9	5.8	5.1	250	7	9.1	3.6	093	17	7.3	2.3	268
3·6 ,, .	3	4.7	1·6	333	8	6.7	5.3	244	24	8·0	6·3	237	1	7.5	7.5	240	6	7.9	2.6	100	13	6.7	1.9	275
4·5 ,, .					7	4.8	3.3	252	20	6·6	5·3	242					3	7.0	6.6	108	9	6.3	2.3	163
5·4 ,, .					3	6.5	3.9	246	18	5·6	3·5	262					3	6·5	5·5	100	6	5.3	2.9	126
6·0 ,, .					2	3.7	2.7	260	18	5·6	2·1	246					2	5·8	4·5	125	5	7.1	4·2	116
7·2 ,, .									16	5·1	3·3	094									3	4.8	3·1	115
9.0 ,, .									12	10·1	9·5	081												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.0	1.5	252	31	2.5	1.6	265	31	2.2	0.8	257	31	1.3	0·9	214	31	0.6	0.3	074	31	1.7	1.0	228
0·15 a.g. .	29	6.3	4.2	249	30	5.2	2.9	265	30	5·3	1.5	262	31	5.9	3.3	227	27	2.4	0.1	263	30	2.7	1.6	217
0.3 a.m.s.l.	29	5.1	3.2	245	30	4.7	2.5	264	30	5.2	1.4	270	31	4.8	2.8	223								
0.6 ,, .	29	8.1	5.4	266	30	6.7	3.5	267	30	6.0	2.0	273	30	7.3	3.8	238								
0.9 ,, .	27	8.0	5.5	276	30	7.1	3.9	277	30	6.2	2.5	273	30	7.6	3.9	247	27	2.2	0.1	011	30	2.7	1.4	245
1.5 ,, .	25	6.9	3.1	296	23	6.3	2.8	292	27	7.4	3.7	284	28	7.8	3.2	266	27	3.9	2.9	230	30	4.1	2.5	229
2.1 ,, .	23	6.8	2.4	319	20	5.9	1.0	299	20	7.3	3.9	295	26	7.0	2.2	287	24	8.1	7.0	248	25	7.3	4.9	210
3.0 ,, .	20	6.2	1.8	360	11	6.0	2.1	050	16	6.7	3.0	335	22	5.8	1.7	217	10	7.3	5.7	255	11	7.6	4.1	206
3.6 ,, .	19	6.7	1.4	008	10	6.0	2·9	065	11	7.5	5.4	302	10	5.0	1.6	042	5	10.7	10.2	257	5	5.1	4.1	191
4.5 ,, .	16	6.1	1.0	011	5	5.1	2.7	153	8	5.3	1.8	312	2	2.5	2.5	125	1	15.0	15.0	265	2	6.0	5.7	201
5.4 ,, .	12	6.3	2.6	108	4	6.0	5.5	120	6	6.6	3.2	298	1	3.0	3.0	115								
6.0 ,, .	11	6.1	3.7	110	3	8.7	7.8	120	6	6.7	2.8	309	1	4.0	4.0	115								
7.2 ,, .	10	7.2	5.3	102	3	7.8	7.5	124	5	4.8	1.5	037												
9.0 ,, .	9	6.3	5.4	096	1	5.0	5.0	115	2	5.3	4.5	337												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.9	1.0	266	31	1.5	0.3	202	31	0·9	0.7	225	31	1.5	1.1	233	31	0.7	0.6	204	31	0.9	0.7	230
0.15 a.g. .	29	3.9	2.4	273	24	2.8	1.7	234	24	6.4	5.0	320	25	5.9	4.2	237	26	6.2	5.1	213	27	6.2	5.5	211
0.3 a. m. s.l. .																								
0·6 ,, .									24	7.1	5.9	242	25	6.2	4 6	239	26	6.8	5.6	218	26	3.4	2.8	208
0·9 ,, .	29	3.8	2.2	275	25	2.8	1.4	237	24	9.6	8.8	270	25	8.0	6.4	249	26	8.2	7.0	239	26	8.0	7.1	227
1·5 ,, .	29	4.6	2.9	229	25	4.4	3.2	236	22	9.3	8.0	278	23	7.7	5.8	259	26	8.3	6.7	261	20	8.8	8.1	254
2·1 ,, .	28	6.6	4.3	246	20	7.6	6.2	241	17	8.5	6.5	280	20	8.3	6.4	267	18	7.9	5.9	271	15	6.4	5.8	270
3·6 ,,	15	6.8	4.6	256	7	9.5	4.6	244	13	7.8	5.2	268	13	7.7	4.8	276	14	6.5	4.1	286	11	4.2	3.5	240
3·6 ,, .	9	6.3	4.1	247	3	9.5	9.3	276	10	6.7	4.1	274	11	6.8	4.0	280	6	5.3	3.5	304	10	3.7	3.0	230
4·5 ,, .	7	7.4	4.6	255					7	4.8	0.5	223	10	6.9	3.3	282	1	2.0	2.0	235	7	3.1	2.5	245
5·4 ,, .	3	7.8	2.9	188					3	5.5	2.4	279	6	5.3	2.0	125	1	6.0	6.0	260	6	3.7	1.4	230
6·0 ,, .	1	4.0	4.0	175					2	4.0	1.0	152	6	5.2	3.4	120	1	5.5	5.5	270	3	3.7	3.6	090
7·2 ,, .													2	6.7	5.8	110					1	3.5	3.5	125
9·0 ,, .													2	11.5	11.5	095								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in IST	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.1	1.0	214	31	0.6	0.4	199	31	0.8	0.7	276	31	2.3	1.4	283	31	0.7	0.3	240	31	0.9	0.4	180
0.15 a.g.	26	4.7	4.1	218	26	5.5	5.1	211	30	5.0	3.5	252	30	4.9	3.2	266	31	6.6	2.7	238	28	3.9	2.8	215
0.3 a.m.s.l.																					28	4.0	3·0	215
0.6 ,,	26	3.3	2.9	216	26	4.3	3.8	209	30	5.8	4·2	261	30	5.2	3.3	268	31	7.1	3.0	239	28	7·1	5.2	229
0.9 ,,	26	5.0	4.5	226	26	6.2	5.9	218	29	8.4	6.3	273	29	5.7	3.4	273	31	7.7	3.7	252	28	8.8	6.6	243
1.5 ,,	24	5.4	4·7	249	22	6.6	5.9	246	25	8.2	5.6	291	29	6.3	3.4	273	31	7.2	3.6	255	20	8.7	5.8	261
2.1 ,,	19	6.0	5.3	249	19	7.0	6.1	249	18	5.9	1.9	333	27	6.8	2·7	273	29	6.0	2.8	260	16	8.6	5.0	257
3.0 ,,	9	5.0	4 0	225	14	4.3	3.7	250	13	6.0	2.4	030	21	6.6	3.3	330	26	6.0	2.5	318	6	7.5	4.9	249
3.6 ,,	7	5.6	4.7	224	3	3.3	3.3	237	12	5.5	3.1	059	19	6.9	3.7	328	10	5.5	2.2	010	2	6.7	1.6	180
4.5 ,,	5	5·0	4·4	214	2	3.0	2.1	203	11	5.0	3.0	065	10	7·7	4.1	010	6	6.4	4.1	038	1	8.5	8.5	220
5.4 ,,	4	5·0	4·3	220					10	6.1	2.9	060	7	8.6	5.5	328	1	4·5	4.5	315	1	10.0	10·0	245
																					1	10.0	10 0	245
6.0 ,,	3	3·8	1·5	188					9	5.9	3.0	083	6	10.0	3.8	340								
7.2 ,,	2	4·8	3·5	090					5	6.7	3.6	041	4	9.0	7.2	327								
9.0 ,,	1	16·0	16·0	085					1	13.5	13.5	080	1	2.0	2.0	215								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.3	0.5	152	31	2.4	1.9	197	31	3.2	2.4	215	31	2.0	1.6	197	31	3.1	2.9	242	31	3.5	3·1	239
0.15 a.g.	24	3.7	1.7	206	22	5.5	4.3	212	28	5.5	4.6	210	24	5.2	4.3	208	31	5.4	4 8	252	29	7.3	6.2	240
0.3 a.m.s.l.	24	4.0	1.9	200	22	4.5	3.4	212	28	5.0	4.1	210	24	4.2	3.4	200	31	5.6	4 9	253	29	7.2	6.1	239
0.6 ,,	24	9.4	3.1	208	22	7.4	6.2	240	28	6.0	5.0	233	24	6.7	5 6	223	31	7.9	7.4	248	29	7.2	6.2	236
0.9 ,,	22	6.0	3.6	219	22	8.8	7.3	247	27	6.8	5.5	241	23	7.4	6.6	232	31	8.8	8.1	247	29	7.4	6 5	233
1.5 ,,	18	6.3	4.1	244	21	8.9	7.7	261	24	7.5	5 2	257	22	7.9	6.9	251	30	7.6	5.3	230	22	7.8	5 3	225
2.1 ,,	13	7.4	3.3	254	17	9.9	7.8	267	19	7.4	5.7	258	20	8.3	7.1	257	30	5.7	2.0	235	17	9·0	3.5	222
3.0 ,,	7	9.7	4.8	244	11	9.3	6.3	278	17	7.0	4·9	257	10	7.7	6.7	257	30	5.0	0.5	274	10	8.5	2.5	084
3.6 ,,	4	10.6	7.9	249	9	8·0	7.4	257	11	7.3	6.5	274	2	5.3	5.3	270	30	5.4	1.0	350	9	6.7	2.1	098
4.5 ,,	1	6.0	6.0	290	6	7.6	7.4	252	10	6.5	4.9	271					30	6.1	1.1	030	8	7.1	2.3	101
5.4 ,,	1	1.0	1.0	045	5	5.6	5.2	244	8	4.2	1.6	306					30	5.5	4.0	002	4	3·7	1 0	096
6.0 ,,	1	6.0	6.0	075	2	2·3	1.5	270	7	4.7	0.6	345					30	6.0	0.8	110	4	4.5	1·6	131
7.2 ,,					1	3.5	3.5	150	1	7.0	7.0	100					30	6.0	1.4	067	3	6.2	1.9	098
9.0 ,,																	27	7.0	3.0	070	1	10.0	10.0	085

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.3	3.1	232	31	3.3	2.8	225	31	2.8	1.1	151	31	3.9	0.6	149	31	2.5	1.2	138	31	4.2	2.6	258
0.15 a.g. .	28	5.7	4.0	234	29	9.5	8.4	224	23	5.7	1.2	176	26	5.1	0.8	143	30	8.1	2.2	179	31	5.6	3.7	256
0.3 a.m.s.l. .	28	5.6	4.8	230	29	8.3	7.3	223	23	6.0	1.5	194	26	5.4	0.8	190	30	8.0	0.6	112	31	6.3	4.4	256
0.6 ,, .	28	6.7	5.0	228	29	10.2	9.2	227	23	7.7	1.7	237	26	6.2	0.5	205	30	8.9	3.0	179	31	7.7	5.9	263
0.9 ,, .	28	7.4	5.8	218	29	10.1	7.6	230	23	6.9	2.1	256	25	6.4	0.8	125	29	9.0	2.5	201	31	8.1	6.3	265
1.5 ,, .	28	6.2	4.1	226	28	8.8	7.3	235	21	7.1	1.8	293	21	7.3	0.5	320	28	7.6	2.4	248	31	7.5	6.0	273
2.1 ,, .	28	5.7	2.7	237	26	6.0	3.8	240	15	7.7	0.9	107	18	7.5	0.3	105	20	7.8	1.7	222	31	6.8	5.1	276
3.0 ,, .	27	6.0	1.6	334	13	6.2	4.2	050	12	9.2	2.7	085	10	5.3	2.6	074	10	5.3	2.0	073	31	6.9	3.8	258
3.6 ,, .	27	6.8	2.1	323	8	7.9	7.3	063	6	7.3	4.1	097	7	5.2	1.5	085	4	5.0	1.8	072	31	7.2	3.6	258
4.5 ,, .	27	6.7	2.6	302	1	4.0	4.0	270	4	7.0	6.4	090	2	3.3	3.3	155					31	6.5	2.0	223
5.4 ,, .	27	6.1	2.3	310	1	5.5	5.5	275	4	8.4	7.8	088	1	4.0	4.0	135					31	6.4	2.6	170
6.0 ,, .	27	6.7	2.4	301	1	4.5	4.5	330	4	8.5	8.2	095									31	6.9	2.9	155
7.2 ,, .	26	7.0	1.3	343					3	11.5	11.3	110									31	7.3	3.5	102
9.0 ,, .	24	6.6	1.5	066					3	12.8	12.3	101									28	8.7	7.8	095

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.2	2.2	278	31	5.3	3.0	155	31	4.4	3.1	198	31	1.5	0.2	288	31	3.1	2.5	270	31	1.7	0.7	275
0.15 a.g. . .	31	4.8	3.3	273	31	6.4	3.4	149	31	7.9	5.4	201	22	4.8	1.1	293	28	7.1	6.0	269	27	6.0	4.1	284
0.3 a.m.s.l. .	31	4.6	3.3	268	31	6.5	3.1	160	31	8.7	6.0	203	22	5.5	1.9	287	28	7.8	6.5	270	27	6.4	4.8	283
0.6 ,, .	31	5.0	3.5	267	31	6.2	2.9	199	31	9.3	6.7	209	22	7.0	4.4	285	27	9.4	7.8	276	27	8.9	7.6	287
0.9 ,, .	31	6.1	4.8	270	31	5.8	3.3	250	30	8.2	4.5	215	22	8.2	6.0	290	24	9.7	8.5	279	27	10.4	9.5	287
1.5 ,, .	29	7.5	6.3	273	31	6.0	4.6	274	29	7.8	5.0	242	15	8.3	6.2	291	19	9.6	8.2	282	17	8.5	6.9	289
2.1 ,, .	27	7.3	5.4	271	31	6.6	5.2	275	28	7.6	4.9	264	10	6.9	3.4	284	12	7.2	5.5	285	11	8.8	7.3	292
3.0 ,, .	24	7.3	6.0	260	31	6.9	4.8	268	27	7.0	4.4	266	8	4.8	0.4	095	6	6.7	2.5	301	7	7.1	4.1	290
3.6 ,, .	22	7.2	6.0	252	31	7.0	4.6	260	22	6.6	3.2	248	8	4.9	0.5	085	3	5.5	2.5	075	7	5.6	1.2	346
4.5 ,, .	19	8.1	6.6	243	31	6.8	3.7	246	12	5.0	0.7	108	6	6.2	1.0	103	3	3.8	0.8	063	5	6.9	0.7	103
5.4 ,, .	17	8.1	5.1	299	30	6.7	2.1	200	4	4.5	1.9	165	5	7.7	2.7	116	2	2.5	0.7	132	2	6.0	5.1	118
6.0 ,, .	14	7.4	2.9	232	30	6.0	2.1	166	4	4.7	3.3	117	5	7.9	3.5	111	2	2.7	2.0	132	2	6.3	5.7	104
7.2 ,, .	8	7.9	1.3	262	30	5.4	2.8	110					2	7.7	3.3	111	2	10.7	8.9	119				
9.0 ,, .	4	8.3	5.8	090	29	7.6	6.4	091									1	18.0	18.0	105				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5.4	5.0	279	31	5.0	4.5	281	31	7.0	6.6	284	31	5.9	5.4	280	31	1.3	1.2	263	31	3.0	2.6	251
0.15 a.g.	28	8.9	8.4	286	25	8.7	8.0	285	31	10.2	9.2	278	27	8.4	7.8	283	30	5.8	4.7	256	31	5.3	4.7	250
0.3 a.m.s.l.	28	9.7	9.2	287	25	9.4	8.5	281	31	10.6	10.0	282	27	9.1	8.6	286								
0.6 ,,	28	11.4	10.8	288	25	11.6	10.8	282	31	11.6	10.9	284	27	10.8	10.2	289	31	6.0	5.5	257	30	5.1	4.5	254
0.9 ,,	27	12.8	12.2	291	24	13.4	12.3	285	31	12.7	11.9	286	25	11.8	11.2	291	31	6.5	5.7	265	26	6.3	5.5	262
1.5 ,,	22	13.0	12.3	291	22	13.4	12.5	291	31	12.2	11.5	285	21	11.8	11.3	293	31	6.6	5.7	271	16	8.3	7.2	263
2.1 ,,	18	12.1	11.3	295	22	12.6	11.8	289	31	11.2	10.5	287	16	10.7	10.5	295	31	6.5	5.7	271	12	8.1	6·3	258
3.0 ,,	14	11.1	9.7	300	18	10.7	9.8	285	31	9.9	9.0	285	3	7.7	7.0	301	31	6.0	4.7	271	6	7.7	7.0	247
3.6 ,,	12	8.0	7.3	297	13	7.1	5.8	278	31	7.8	6.5	285					31	5.2	3.7	271	2	6.5	6.5	249
4.5 ,,	7	5.4	4.0	265	7	4.9	2.0	280	31	6.5	4.3	271					31	4.9	2.1	290	1	5.0	5.0	250
5.4 ,,	5	4.3	2.7	274	7	3.5	1.3	252	31	5.9	2.6	253					31	4.9	1.0	062				
6.0 ,,	4	3.3	1.8	233	5	4.2	0.7	007	31	6.0	1.1	231					31	4.7	1.8	073				
7.2 ,,	1	6.0	6.0	125	3	6.0	5.1	117	31	6.3	3.6	098					31	4.9	3.6	090				
9.0 ,,					1	17.5	17.5	090	31	10.7	9.5	093					28	7.5	6.8	091				

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.8	3.1	262	31	2.3	1.7	226	31	2.2	0.9	132	31	3.2	0.6	107	31	2.0	0.1	243	31	2.3	1.0	120
0.15 a.g.	31	6.9	4.9	269	27	6.1	4.1	235	30	5.4	1.5	155	28	4.9	1.4	090	30	4.0	0.6	360	29	5.9	2.3	160
0.3 a.m.s.l.									30	4.3	1.5	145	28	4.7	1.1	091	30	2.8	0.2	019	29	4.7	2.0	152
0.6 ,,	31	5.9	5.1	252	27	6.7	5.2	247	30	5.9	1.7	172	28	5.1	1.2	114	30	4.2	0.5	357	28	6.4	1.7	172
0.9 ,,	31	5.6	4.7	261	26	6.5	5.6	252	30	6.3	1.9	214	26	6.2	0.8	102	30	4.5	0.2	278	26	6.4	1.5	208
1.5 ,,	31	5.9	4.4	272	24	6.2	5.4	260	30	6.1	1.5	259	19	5.8	0.7	047	30	5.1	0.9	276	24	7.1	2.5	258
2.1 ,,	31	6.3	4.9	273	21	6.3	5.2	256	30	6.1	2.4	286	18	6.0	0.4	299	30	5.4	1.5	274	19	8.3	5.3	289
3.0 ,,	31	7.0	5.4	270	14	5.4	4.1	244	30	5·4	1.7	295	11	4.9	1.5	332	30	5.3	2.3	295	9	4.7	2.3	298
3.6 ,,	31	6.5	4.8	265	11	4.7	2.3	251	30	5.1	1.5	325	7	5.4	3.0	010	30	5.5	2.6	306	2	4.0	2.5	334
4.5 ,,	31	6.0	3.4	270	6	4·8	0.4	087	30	4.8	1.3	295	6	5.2	3.2	007	30	5.8	2.7	307				
5.4 ,,	31	5.0	2.0	274	3	9.5	6·9	220	30	5.5	1.5	244	2	3.0	2.0	329	30	6.3	3.1	302				
6.0 ,,	31	4.7	5.6	304	1	6·0	6.0	095	30	5.3	1.2	244	2	2.5	1.8	295	30	6.7	3.2	309				
7.2 ,,	31	4.9	2.7	093					29	5.4	1.5	234	1	4.0	4.0	345	28	6.0	2.3	317				
9.0 ,,	31	8·5	7.5	093					29	5.2	1.3	242					28	6.4	1.7	248				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·7	251	31	2·2	2·0	270	31	0·9	0·9	267	31	2·4	2·2	227	31	3·6	3·0	216	31	2·4	2·1	229
0·15 a. g. .	30	5·2	5·0	259	30	7·5	7·1	261	29	6·1	5·9	256	31	6·1	5·5	236	30	5·9	4·7	220	30	5·3	4·4	233
0·3 a.m.s.l. .													31	6·2	5·2	229	30	6·0	4·7	220	30	5·6	4·6	233
0·6 ,, .	30	2·5	2·3	263	30	4·3	4·0	268	29	3·1	3·0	263	31	7·5	6·5	227	29	6·7	5·4	222	30	6·5	5·2	232
0·9 ,, .	30	7·4	7·0	261	30	7·8	7·6	261	29	7·4	7·1	261	31	7·3	6·2	228	26	7·1	6·0	224	30	6·6	5·3	238
1·5 ,, .	22	10·6	9·6	269	22	9·8	9·4	264	25	9·6	9·1	265	30	6·6	5·0	227	18	5·4	3·3	204	30	6·3	4·7	233
2·1 ,, .	11	7·7	5·7	268	10	5·6	3·8	252	13	6·3	5·1	254	30	6·2	3·9	220	12	5·1	3·4	163	29	5·9	4·0	232
3·0 ,, .	5	4·9	2·5	217	8	3·6	2·3	208	5	3·2	2·8	196	31	6·5	3·6	213	12	5·1	3·3	182	27	5·4	2·8	217
3·6 ,, .	5	4·4	2·2	212	4	5·5	1·5	180	3	2·3	2·1	212	28	5·9	2·5	195	5	10·2	3·6	216	27	5·2	3·2	194
4·5 ,, .	1	3·0	3·0	105	3	4·5	3·6	090					27	5·6	2·1	179	5	6·8	4·3	175	27	5·2	3·0	161
5·4 ,, .					1	6·5	6·5	125					24	5·6	2·3	139	4	6·6	6·2	114	25	5·4	3·7	132
6·0 ,, .					1	6·5	6·5	130					24	4·7	2·0	123	3	6·8	6·0	118	23	6·0	5·3	115
7·2 ,,					1	7·0	7·0	110					20	4·3	3·2	078					20	5·1	4·4	100
9·0 ,,													18	7·3	7·0	082					17	8·0	7·5	078

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·4	1·8	213	31	2·7	2·4	228	31	3·2	2·9	234	31	2·7	2·4	213	31	1·9	1·7	093	31	1·8	1·3	108
0·15 a. g. .	31	5·6	3·2	243	26	7·7	6·8	228	28	6·0	5·6	238	27	7·9	7·6	221	15	6·4	6·3	104	27	4·4	3·1	120
0·3 a.m.s.l. .	31	6·2	5·0	218													15	7·1	7·0	106	27	4·6	3·3	122
0·6 ,, .	31	7·0	5·9	224	26	9·4	8·6	240	28	6·6	6·3	241	27	8·6	8·4	233	14	8·8	8·3	113	27	5·6	3·0	123
0·9 ,, .	31	6·1	5·4	223	25	10·1	9·1	250	28	7·7	7·1	247	27	8·1	7·9	243	13	8·3	6·9	112	26	6·2	2·5	130
1·5 ,, .	29	5·7	4·4	223	20	9·9	8·8	261	26	7·8	6·6	256	26	7·4	6·8	253	9	5·7	5·4	098	22	8·2	2·7	123
2·1 ,, .	26	4·7	3·3	219	16	8·4	7·2	262	22	8·5	6·9	261	23	6·8	5·7	260	6	4·6	3·1	105	17	8·8	4·0	123
3·0 ,, .	23	5·0	2·5	240	14	8·0	6·8	258	16	7·3	5·1	260	19	6·9	5·6	263	4	7·6	5·9	094	3	8·2	7·2	106
3·6 ,, .	15	4·8	2·1	176	12	6·9	6·2	253	14	6·3	4·1	259	16	6·2	4·6	246	2	7·8	7·7	082				
4·5 ,, .	9	4·6	2·8	150	11	6·2	5·1	254	11	4·4	3·4	276	9	5·8	1·7	263	1	8·0	8·0	090				
5·4 ,, .	3	3·3	2·2	125	9	4·8	3·5	267	9	3·5	1·9	279	7	5·1	1·5	033	1	5·5	5·5	090				
6·0 ,, .	2	3·5	3·5	085	6	3·0	1·8	224	7	3·0	0·5	357	5	3·2	0·8	018	1	6·5	6·5	100				
7·2 ,, .					3	5·2	1·9	220	4	4·4	4·1	083	2	4·5	4·5	096	1	8·5	8·5	135				
9·0 ,, .									2	9·0	8·7	105												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9·0 km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.0	1·4	059	31	2·1	1·4	084	31	2·5	1·8	044	24	0·4	0·3	310	31	1·5	0·2	226	31	4·7	4·5	273
0.15 a.g.	12	4·2	4·0	069	23	3·5	1·7	089	18	4·5	3·6	074	24	1·6	0·1	023	31	2·0	0·5	085	31	8·7	8·6	277
0.3 a.m.s.l.	12	4·4	4·0	073	23	3·6	1·7	094	18	4·5	3·4	081									31	9·9	9·7	277
0.6 ,,	12	4·2	3·9	084	23	3·9	1·5	114	18	4·3	3·1	110									30	12·3	11·9	276
0.9 ,,	11	4·2	3·5	087	20	4·5	1·7	106	16	4·4	2·9	109									30	11·4	10·7	276
1.5 ,,	8	5·4	3·0	100	15	5·5	1·2	122	11	5·6	3·5	100									30	8·9	7·5	272
2.1 ,,	5	5·1	2·7	082	12	5·6	1·3	176	7	6·2	3·6	114	24	1·9	0·5	018	31	2·4	0·9	154	28	7·6	6·9	266
3.0 ,,	4	6·5	2·1	059	4	7·5	2·9	211	2	9·0	8·9	102	24	2·3	0·6	347	31	2·7	0·2	315	25	6·6	5·1	258
3.6 ,,	1	6·0	6·0	275	2	4·3	4·1	192					24	3·0	0·5	204	31	3·3	0·8	293	22	5·1	3·1	244
4.5 ,,													24	4·0	1·1	182	30	4·3	1·5	273	17	5·6	3·5	194
5.4 ,,													24	5·2	2·0	229	30	5·3	2·8	274	15	5·5	3·9	147
6.9 ,,													24	6·7	2·9	245	30	6·2	3·7	270	14	5·1	3·4	129
7.2 ,,													24	10·3	7·9	277	30	9·8	7·9	281	10	7·5	6·8	102
9.0 ,,													22	15·4	13·4	272	29	13·6	11·5	268	5	11·0	10·8	083

Station	TIRUCHCHIRAPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·2	4·1	261	31	4.1	3.3	264	31	1.2	1.0	340	31	3.0	2.4	318	31	3·8	3·6	300	30	2·4	2.0	334
0.15 a.g.	31	6·8	5·2	261	27	7.6	6.0	262	31	7.0	6.6	325	30	5.7	5.1	306	31	8.2	8.0	302	28	6.6	6·2	322
0.3 a.m.s.l.	31	6·8	5.2	258	27	8.0	6.3	263	31	7.7	7.3	312	30	6.2	5.7	309	31	8·8	8·5	302	28	8.0	7.5	318
0.6 ,,	31	6·9	5·4	261	27	9.9	8.0	264	31	10.1	9.5	307	30	7·8	7·1	310	31	10.5	10·1	299	28	10.6	10.0	310
0.9 ,,	30	7.6	6·3	261	27	9.6	7.7	261	31	11.5	11·0	302	23	10.1	9.5	305	31	11·7	11.0	295	27	11.5	10.9	306
1.5 ,,	29	8.2	6·8	262	26	8.0	7.0	263	31	12.2	11.7	298	13	11.0	10·9	301	31	11.9	11.2	296	20	11.2	10.9	300
2.1 ,,	26	8.2	6·4	272	20	8·3	6.4	272	31	11.7	11.1	296	6	11.9	11.8	302	31	10.7	10.1	296	11	8.2	7.7	297
3.0 ,,	19	7.7	7.0	265	14	6.2	4.4	281	31	9·0	7.5	291	2	6.3	6.3	312	31	8·9	8.2	288	7	4.9	3.9	272
3.6 ,,	14	6.8	5.7	263	9	5.2	1.0	271	31	7.9	5.9	290	1	6.0	6.0	330	31	8.1	6·8	281	4	4.9	4.7	284
4.5 ,,	11	4.6	2.2	223	6	3.7	2.1	114	31	5,9	3,3	271	1	3.0	3.0	020	31	6·5	4·0	267	2	4.7	1.8	162
5.4 ,,	10	5.5	3.6	146	4	7·4	4.2	115	31	5.2	0.8	205	1	4·0	4·0	070	30	5.2	0·3	291	1	6.0	6.0	100
6.0 ,,	10	5.3	4.0	147	2	7·5	7·4	090	31	5.4	2.4	090					30	5·0	1·8	095	1	10.5	10.5	110
7.2 ,,	7	7.6	6.7	113					31	6.4	4.9	090					30	6·5	5.7	086				
9·0 ,,	5	11·1	11.0	106					31	10.0	8.8	090					29	10·4	9·3	090				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	0·7	0·6	258	31	1·3	1·1	241	31	0·8	0·7	216	31	1·4	0·6	263	31	2·1	1·3	271	31	1·2	0·6	258
0·15 a g.	28	4·4	3·8	257	31	4·1	3·3	250	29	4·1	3·7	229	25	5·0	3·3	280	27	6·0	4·5	270	28	5·2	2.9	281
0·3 a. m. s. l.													25	6·1	4·6	278	27	7·4	6·1	274	28	6·4	4·6	285
0·6 ,,													22	8·2	6·7	283	26	9·4	8.4	278	28	8·2	6·6	282
0·9 ,,	28	5·2	4·5	259	31	5·0	3·9	254	29	5·1	4·5	233	12	6·8	5·6	302	17	8·1	7·4	292	18	7·7	6·1	298
1·5 ,,	21	7·8	5·9	270	30	6·0	3·7	268	27	5·8	4·3	245	6	4·4	3·0	300	9	5·1	4·1	284	14	7·9	6·5	293
2·1 ,,	15	6·6	3·1	255	27	7·5	3·4	275	21	5·9	2·5	275	4	4·1	1·1	004	6	4·7	2·4	273	8	5·1	3·3	293
3·0 ,,	10	6·6	1·5	106	18	6·7	1·0	355	14	4·7	2·6	041	2	4·3	4·1	131	4	4·4	4·1	154	3	3·3	1·8	167
3·6 ,,	9	6·1	0·6	097	15	6·1	1·2	346	9	5·4	2·5	054					3	3·0	3·0	157	1	5·0	5·0	165
4·5 ,,	7	6·0	2·9	081	12	6·9	1·4	325	3	4·5	0·6	355					2	5·0	4·5	116				
5·4 ,,	6	5·8	3·7	100	7	8·9	1·9	315	2	5·7	2.5	352					1	9·5	9·5	120				
6·0 ,,	5	6·5	2·8	074	6	7·9	1·5	331	1	3·0	3·0	340					1	10.0	10·0	130				
7·2 ,,	3	6.3	5·2	107	2	8·0	6·3	224																
9·0 ,,	2	7.3	6.8	073																				

Station	VERAVAL												VIJAYWADA/GANNAVARAM											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	8·5	7·9	261	31	7·8	7·1	263	31	8·0	7.2	251	31	2·5	1·7	240	31	3·4	1·4	252	31	2·8	1·8	187
0·15 a. g.	26	9·7	9·3	249	28	8·3	8·1	256	31	9·1	8·6	250	29	5·4	4·3	230	31	4·6	2.7	243	31	6·3	4·8	191
0·3 a. m. s. l.	26	10·3	9·8	250	28	8·8	8·7	257	31	9·5	9·2	252	29	6·9	5·7	237	31	5.0	3·0	241	31	6·8	5·2	202
0·6 ,,	26	10·5	10·2	253	27	9·6	9·5	259	30	9·9	9·6	254	29	8·6	7·2	242	31	5·3	3·5	247	31	6·6	4·5	218
0·9 ,,	19	10·5	10·3	256	25	10·2	9·9	263	26	9·9	9·6	257	29	9·0	7·4	254	31	5·4	3·9	259	31	6·3	4·5	240
1·5 ,,	12	9·5	9·3	255	19	7·2	6·7	256	21	8·5	7·9	249	28	8·3	6·1	268	31	6·5	5·4	267	30	6·7	5·2	259
2·1 ,,	3	6·7	6·1	238	14	7·4	5·7	252	15	6·9	4·9	233	26	6·5	4·2	264	31	7·6	6·5	264	27	6·0	4·7	264
3·0 ,,	2	4·7	4·7	246	9	5·0	2·9	278	12	4·8	3·1	240	18	5·7	2·1	249	27	6·8	4·8	254	25	5·6	3·4	256
3·6 ,,					9	4·3	1·9	273	5	3·5	3·0	350	17	5·3	2·1	211	24	5·3	3·5	223	17	3·8	2·2	218
4·5 ,,					9	3·4	1·5	226	1	2·5	2·5	050	16	4·7	2·3	177	21	5·8	3·4	192	14	4·3	2·3	199
5·4 ,,					9	4·1	1·4	120					14	5·1	2·8	117	19	4·4	2·8	197	11	5·1	3·0	134
6·0 ,,					7	4·8	3·0	121					12	6·3	4·9	108	17	4·2	2·9	170	10	5·3	3.7	110
7·2 ,,					6	5·0	4.1	075					9	6·4	6·0	117	11	5·0	3·3	098	3	8·3	8·0	090
9·0 ,,					5	9.0	8.8	083					6	10·3	10·2	092	6	8·8	8·7	082				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

July, 1964 (Asadha 10— Sravana 9, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·5	4·0	274	31	4·7	4·3	235	31	4·0	3·2	250	31	1·6	1·4	230
0.15 a. g. .	31	5·9	5·2	272	29	6·2	5·7	220	31	5·7	4·7	248	31	4·6	4·2	223
0·3 a. m. s. l. .	31	6·0	5·2	265	29	5·7	5.3	224	31	5·8	4·9	245	31	5·6	5·3	224
0·6 ,, .	31	6·6	6·1	202	29	5·8	5·3	234	31	5·9	5.5	242	29	6·3	5·9	231
0·9 ,, .	31	6·7	6·1	210	25	6·6	6·2	245	31	6·3	5·7	250	27	6·6	6·1	240
1·5 ,, .	31	7·1	6·1	255	18	6·7	5·7	246	31	6·0	5·4	260	21	6·7	5·4	253
2·1 ,, .	31	6.2	5·2	253	14	7·3	6·4	245	31	6·0	5·0	265	18	5·1	3·8	252
3·0 ,, .	31	5·3	4·2	254	10	4·1	2·7	231	31	6·4	4·7	250	14	4·5	3·0	236
3·6 ,, .	30	5·2	3·8	250	8	4·9	2·7	193	31	6·7	5·1	242	9	3·7	2·8	221
4·5 ,, .	30	6·0	3·2	252	5	4·1	3·4	157	31	6·1	4·2	235	6	3·0	1·2	228
5·4 ,, .	30	4·8	1·8	259	5	4·0	2·7	150	31	6·3	3·8	230	6	3·9	1·5	090
6·0 ,, .	30	4·3	0.6	265	5	4·5	2·0	107	31	6·7	3·4	238	4	4·1	2·1	077
7.2 ,, .	30	4.7	1.4	112	2	11·0	10·9	087	31	6·2	1·3	050	2	8.5	8.5	090
9·0 ,, .	29	7.1	6·1	095	2	10·3	9·9	085	28	8.9	7·9	077				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

July, 1964 (Asadha 10 — Sravana 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10.5	25	11.1	10.4	089
12.0	20	15.2	14.6	093
14.1	15	23.4	22.4	084
16.2	8	28.8	28.3	078
18.0	3	26·8	25.7	097
21.0	3	18.3	17.7	058
	1730 hr.*			
10.5	22	10.9	10.4	085
12.0	22	15.8	15.1	092
14.1	16	21.6	20.6	088
16.2	10	29 6	28.1	088
18.0	5	35.9	34.8	087
21.0	1	17.0	17.0	100
	LAHABAD			
	0530 hr.*			
10.5	22	9.6	8.7	087
12.0	20	13.2	12.5	086
14.1	20	18.4	17.0	0.8
16.2	15	23.6	22.4	093
18.0	6	20.9	19.4	081
21.0	1	23.0	23.0	100
	1730 hr.*			
10.5	23	10.4	8.9	083
12.0	20	12.1	10.6	083
14.1	18	16.6	14.1	092
16.2	15	21.4	19.0	089
18.0	5	22.5	22.4	095
21.0	1	25.5	25.5	095
	ANANTAPUR			
	0530 hr.			
10.5	3	13·2	13·0	093
12·0	3	17.7	17.3	086
14·1	1	23.5	23.5	090
16·2	1	30.5	30.5	095
18·0	1	32.5	32.5	070
	BAHRAICH			
	0530 hr.			
10·5	1	12·0	12·0	110
	BANGALORE			
	1130 hr.			
10·5	1	12·5	12·5	100
12.0	1	16·0	16·0	095

Ht. in Km.	n	V	v	D
	1730 hr.@			
10.5	5	14.3	14.3	094
12.0	2	20.5	19.2	102
14.1	2	26.2	26.2	084
16.2	2	36.0	36.0	098
18.0	1	26.5	26.5	085
21.0	1	15.0	15.0	090
	BAREILLY			
	0530 hr.			
10.5	1	9.0	9.0	270
	BEGAMPET			
	0530 hr.			
10·5	3	9·7	9.6	103
12.0	2	12.3	12.3	098
14·1	2	15.0	14.9	097
16·2	1	30.0	30.0	105
18.0	1	34.0	34.0	100
	BHAGALPUR			
	1730 hr.			
10.5	1	16.5	16.5	085
	BOMBAY/ SANTA CRUZ			
	0530 hr.*			
10.5	28	12.6	11.9	078
12.0	25	18.1	17.2	078
14.1	9	28 8	28.1	071
16.2	5	44.6	43.0	069
18.0	2	36.5	36.0	056
21.0	1	21.5	21.5	105
	1730 hr.*			
10.5	25	13.8	13.4	074
12.0	19	21.2	21.1	081
14.1	9	30.6	29.4	071
16.2	4	35.3	34.5	074
18.0	1	29.5	29.5	070
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10.5	29	12.0	11.6	085
12.0	29	16.3	15.7	080
14.1	29	22·6	21·8	074
16.2	27	29.0	28.0	080
18.0	20	26.1	25.5	091
21.0	5	19.3	17.9	083

Ht. in Km.	n	V	v	D
	1730 hr.*			
10.5	28	9.9	9.0	079
12.0	28	13·8	13.0	076
14.1	26	17.5	16.7	071
16.2	26	25.1	24.2	079
18.0	18	25.7	25.2	080
21.0	6	23·1	22.7	092
	DIBRUGARH/ MOHAN BARI			
	1730 hr.			
10.5	1	6·0	6·0	315
	GANGTOK			
	0530 hr.			
10.5	2	10.7	10.7	062
	GAUHATI			
	0530 hr.*			
10.5	13	8·2	6·9	065
12.0	12	12·1	10·2	052
14.1	9	12.5	10.6	056
16.2	5	15.8	13.5	072
18.0	2	25.7	24.9	065
	1130 hr.			
10.5	2	9.0	8.9	115
12.0	2	14.3	14.1	127
	1730 hr.*			
10.5	16	6.3	4.1	055
12.0	15	8.3	7.3	043
14.1	13	13.3	12.6	053
16.2	8	14.7	13.9	070
18.0	4	13.4	12.8	078
21.0	1	20·0	20·0	095
	GOPALPUR			
	***1730* hr.**			
10.5	8	14.2	13.9	091
12·0	7	19.5	19.4	085
14.1	1	36.0	36.0	045
	GWALIOR			
	0530 hr.			
10·5	9	8·1	7·0	087
12.0	7	10.4	9.7	103
14.1	6	18.3	17·7	108
16·2	6	18·7	17·4	104
18·0	4	22·6	22.0	088
21·0	1	24·0	24·0	055
24.0	1	34.0	34.0	095

Ht. in Km.	n	V	v	D
	1730 hr.			
10·5	2	6·0	1·1	332
	JAIPUR/SANGANER			
	1730 hr.			
10·5	1	5·5	5·5	140
12·0	1	20·0	20·0	130
14·1	1	9·0	9·0	115
16·2	1	16·0	16·0	075
	JODHPUR			
	0530 hr.*			
10·5	25	7·4	4·6	078
12.0	22	10·2	7·1	076
14·1	14	16.4	11.9	070
16·2	3	19.7	18·8	062
	1130 hr.			
10·5	1	12·0	12·0	105
	1730 hr.*			
10.5	23	6·4	3·8	083
12·0	19	10·7	7·7	105
14·1	11	13·9	8·2	098
16·2	5	18·4	16·7	078
18·0	3	21·7	21·0	058
21·0	2	9·3	9.2	085
24·0	1	10·0	10·0	085
	LUCKNOW/ AMAUSI			
	0530 hr.			
10·5	2	14·7	14·5	110
	MADRAS/ MINAMBAKKAM			
	0530 hr.			
10·5	25	12·9	12·2	099
12·0	25	19·8	19·0	087
14·1	22	27·0	26·3	078
16·2	18	33·4	32·7	088
18·0	13	23·7	23·3	095
21·0	7	14·2	13·5	079
24·0	3	21·2	19·6	098
	1730 hr.*			
10·5	29	13·0	12·3	090
12·0	27	18·7	18·0	089
14·1	25	30·3	28·8	084
16·2	22	34·0	33·6	089
18.0	16	24·6	24·4	087
21.0	4	17·9	17·6	096

Ht. in Km.	n	V	v	D
	MINICOY			
	1730 hr.*			
10·5	30	14·2	13·6	086
12.0	30	20.1	19.2	083
14.1	29	31.9	31.5	080
16.2	26	30.0	28.1	90
18.0	23	16.1	15.5	083
21.0	7	9.7	8.6	100
24.0	2	7.5	7.0	085
	NAGPUR/SONEGAON			
	0530 hr.*			
10.5	27	10 3	9.5	096
12·0	24	14·5	13·7	086
14·1	20	20·5	20·5	083
16·2	8	26·8	26·0	089
18·0	2	15·5	15·5	095
21·0	1	25·0	25·0	095
24·0	1	14·0	14·0	090
	1730 hr.*			
10·5	31	11·6	11.2	094
12·0	30	17·6	17·2	090
14·1	24	23·4	22·1	080
16·2	16	27.2	26.7	084
18·0	6	26.0	25.7	092
21.0	2	16·0	16·0	089
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10.5	29	5.9	1.1	198
12.0	29	6.1	1.5	156
14.1	28	9.0	1.9	077
16.2	27	10.6	5.8	069
18.0	24	11.9	11·2	077
21.0	14	14.6	14.3	090
24.0	11	16.4	15.9	096
27.0	2	21.5	21.5	092
	1730 hr*			
10.5	27	6.5	1.2	223
12.0	27	7.3	1.3	135
14.1	25	8.1	2.6	140
16.2	24	10.0	7.4	098
18.0	21	12.3	11.5	092
21.0	14	14.3	13.9	090
24.0	6	17.0	16.9	097
27.0	2	16.0	15.9	091
30.0	1	10.0	10.0	095

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

July, 1964 (Asadha 10—Sravana 9, 1885 Saka)

Ht. in Km.	n	V	v	D
	PORT BLAIR			
	0530 hr.*			
10·5	17	11·9	11·7	078
12·0	17	16·1	15·3	282
14·1	15	21·2	20·7	083
16·2	11	28·9	28·7	082
18·0	10	23·1	22·8	087
21.0	3	21·5	20·7	262
24.0	1	30.0	30.0	090
	1730 hr.*			
10·5	17	10·4	9·2	077
12·0	16	14·7	13·9	069
14·1	12	25.0	24·4	076
16·2	8	32.4	32.1	081
18·0	4	28·7	28.7	089
21.0	2	22·5	22·5	091
24.0	1	11.0	11.0	095
	SRINAGAR			
	0530 hr.*			
10·5	21	18.8	15.1	265
12·0	18	24.6	16.9	265
14·1	10	18·6	14·4	270
16·2	3	9·8	6·0	320
18·0	1	11·5	11·5	055
21·0	1	8·0	8·0	110
	1730 hr.*			
10·5	25	17·8	15·4	265
12·0	21	21·6	18·4	270
14·1	10	23·5	19·5	275
16.2	2	14.5	8.8	309
	TIRUCHCHIRAPPALLI			
	0530 hr.			
10·5	3	12·8	12·8	090
12·0	2	17·0	16·8	087
	1730 hr.			
10·5	1	14.0	14.0	105
	TRIVANDRUM			
	0530 hr.*			
10·5	30	13.9	13.0	090
12·0	30	21·2	20.5	090
14.1	30	30·0	29·3	075
16.2	22	35·2	34·0	085
18·0	14	20·1	19·7	090
21·0	5	12·0	8·2	076
24·0	1	13·5	13.5	085
	1730 hr.*			
10·5	29	15·4	14·4	088
12·0	28	22·6	21·9	084
14·1	27	31·1	30·3	076
16·2	23	33·7	33.0	083
18·0	19	16·7	15·4	084
21.0	5	8.8	7.3	103
	VERAVAL			
	1730 hr.			
10·5	2	13·5	13·5	087
	VIJAYWADA/ GANNAVARAM			
	0530 hr.			
10·2	4	15·5	15·5	102
12·0	3	23·5	23·5	097
14·1	3	38·3	38·3	087
16·2	2	31·0	30·9	083
	1730 hr.			
10·5	1	17·0	17·0	100
	VISHAKHAPATNAM			
	0530 hr*			
10·5	29	11·7	10·8	080
12·0	28	17·5	17·0	073
14.1	24	25·3	24·7	074
16.2	21	31·8	30·9	080
18·0	18	23·4	23·0	085
21·0	5	20·0	18·2	069
	1730 hr.*			
10·5	28	13·1	12·2	079
12·0	28	20·1	19·1	075
14·1	26	25·8	20·0	076
16·2	19	27·4	26·6	080
18·0	12	25·3	24·5	087
21·0	8	21·4	10·7	068

RADIOSONDE DATA

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmadabad	Clock type	20th July, 1961	00 and 12	Fan type used upto 24-2-63
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September, 1954	00 and 12	Clock type used upto 22-2-63
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (994 mb.)						ALLAHABAD/BAMHRAULI (998 mb.)						BANGALORE (906 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	55	299.5	301	298	297.6	31	098	299.7	302	298	297·9	31	921	293.2	295	292	292.0
1000	31	003	..	..	..	..	31	—012	..	..	..	..	31	067	..	..	..	..
900	31	933	295.1	298	293	292.9	31	918	296.5	299	293	293.5	31	980	292.8	294	291	292.0
850	31	1429	292.3	295	289	289.9	31	1415	293.5	296	290	290.8	31	1473	290.3	293	287	289.0
800	31	1951	289.8	293	287	287.8	31	1939	290.5	293	287	288.0	31	9191	288.1	292	284	286.1
700	31	3079	284.8	289	277	281.2	31	3068	284.3	287	282	282.1	31	3117	283.1	287	278	280.1
600	31	4357	278.8	283	275	274.6	31	4343	278.3	282	275	274.8	30	4389	276.2	281	273	273.7
500	31	5830	271.3	275	268	..	31	5812	270.7	275	267	..	30	5850	268.0	273	262	..
400	31	7574	261.6	265	258	..	31	7555	261.3	265	257	..	30	7573	257.5	263	251	..
300	30	9730	248.1	254	244	..	31	9709	248.3	254	241	..	29	9684	242.3	249	237	..
250	25	11039	238.8	244	234	..	31	11011	238.2	247	231	..	26	10963	232.8	238	224	..
200	24	12556	226.9	236	220	..	30	12530	226.9	233	219	..	26	12445	220.9	228	212	..
175	22	13415	218.7	226	211	..	30	13405	220.7	230	210	..	22	13292	215.0	221	205	..
150	21	14388	211.9	220	203	..	30	14390	213.9	223	203	..	20	14262	208.7	214	201	..
125	17	15504	204.1	214	197	..	28	15554	206.9	215	198	..	17	15339	203.8	211	197	..
100	15	16833	198.7	207	193	..	26	16834	201.2	209	194	..	16	16687	200.0	204	195	..
80	11	18147	198.4	205	190	..	20	18134	202.6	212	196	..	15	18031	203.2	208	196	..
70	9	18919	199.4	205	195	..	19	18899	204.9	213	196	..	14	18820	205.8	212	199	..
60	7	19847	202·3	208	196	..	17	19846	207.1	220	199	..	8	19804	210.0	215	204	..
50							11	20959	212.9	225	204		5	20995	214.8	221	208	..
40																		

	BOMBAY/SANTA CRUZ (1001 mb.)						CALCUTTA/DUM DUM (1006 mb.)						GAUHATI (996 mb.)					
Surface	31	013	299.2	201	297	297.3	31	006	299.4	301	297	298.2	31	49	299.4	301	298	298·1
1000	31	025	..	..	..	..	31	013	..	..	..	..	31	014	..	..	..	..
900	31	949	294.1	296	291	291.4	31	940	295.5	298	293	293.0	29	944	295.7	298	293	293.4
850	31	1443	291.5	292	286	288.8	31	1438	292.7	296	290	290.6	29	1451	293.2	296	290	290.9
800	31	1959	288.4	291	287	285.6	31	1948	290.2	293	288	288.1	29	1963	290.3	295	284	287.7
700	31	3087	283.9	289	281	278.7	31	3094	284.7	290	281	282.1	29	3090	285.1	289	281	282.2
600	31	4358	277.2	282	273	273.3	30	4375	278·4	284	275	276.0	29	4369	279.0	283	275	276·0
500	31	5821	269.6	273	263	..	30	5849	271.0	272	266	..	29	5840	271.6	277	267	..
400	30	7548	259.3	264	255	..	30	7593	261.3	269	257	..	29	7589	262.5	268	256	..
300	30	9676	244.2	245	237	..	30	9740	248.7	255	243	..	24	9760	250.3	255	246	..
250	28	10958	234.7	239	227	..	30	11034	238.0	246	233	..	24	11074	241.2	245	235	..
200	28	12451	222.3	227	215	..	30	12566	227.4	236	220	..	24	12612	229.4	238	223	..
175	22	13307	215.4	220	209	..	30	13442	221.3	231	214	..	18	13501	222.2	227	215	..
150	21	14272	208.8	215	201	..	30	14430	214.6	229	207	..	17	14488	215.0	220	206	..
125	20	15362	200.9	208	191	..	29	15561	207.1	218	201	..	17	15644	206.7	213	199	..
100	16	16647	196.7	201	191	..	27	16868	200.0	209	193	..	17	16948	201.3	212	190	..
80	11	17956	203.2	209	197	..	22	18258	201.4	211	195	..	12	18288	203.3	217	194	..
70	8	18763	205.5	208	199	..	18	18946	204.1	217	197	..	10	19101	205.9	220	196	..
60	8	19684	208.0	212	201	..	14	19863	206.7	222	199	..	8	20036	212·9	223	206	..
50	7	20843	212.0	217	207	..	14	20974	211.4	224	205	..	7	21114	215·3	221	210	..
40							5	22405	212.0	216	208	..						

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

July, 1964 (Asadha 10—Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR. Surf. Pr. (974 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (967 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	301·0	305	297	296.7	31	015	300.0	303	297	295.5	31	311	297.4	299	296	295·9
1000	31	—011	..	..	..	..	31	040	..	..	..	..	31	12	..	..	..	..
900	31	913	297.0	302	294	292.4	31	967	294.8	299	291	290.6	31	940	297.4	299	296	295·9
850	31	1405	295.1	299	290	289.5	31	1462	291.8	297	273	287.7	31	1438	292.7	295	290	290·4
800	31	1927	292.3	297	288	286.7	31	1982	289.3	293	285	285.6	31	1967	289.9	293	287	287·9
700	31	3059	286.1	289	281	279.2	31	3106	282.8	287	280	279.4	31	3090	283.9	288	280	282·8
600	31	4335	279.5	284	276	269.7	31	4371	275.6	280	272	272.6	31	4365	277.2	282	273	275·0
500	31	5805	272.0	275	268	265.1	31	5825	267.7	271	263	..	30	5827	269.4	275	265	..
400	31	7557	262.5	268	255	..	31	7543	257.6	269	251	..	30	7557	259.2	269	224	..
300	29	9726	249.3	254	241	..	28	9654	242.3	248	237	..	30	9685	244.5	249	236	..
250	27	11333	239.4	246	234	..	26	10920	232.2	237	227	..	29	10965	237.6	241	226	..
200	26	12561	228·0	238	222	..	25	12398	219.6	225	215	..	28	12479	222.4	228	215	..
175	21	13323	221.0	230	215	..	24	13243	213.1	218	208	..	28	13299	216·2	223	211	..
150	19	14420	213.2	225	205	..	23	14198	206.3	215	201	..	28	14280	209.6	217	205	..
125	18	15519	206.3	219	199	..	22	15279	199.8	205	194	..	27	15353	202.9	209	196	..
100	14	16896	201.9	211	193	..	16	16595	198.4	205	193	..	26	16692	197.7	205	189	..
80	11	18333	202.6	208	195	..	13	17918	204.1	208	198	..	22	17988	202·3	211	197	..
70	10	19164	205.4	210	198	..	11	18759	207.4	215	208	..	20	18807	206·0	217	196	..
60	6	19974	210.1	215	206	..	9	19722	212.2	218	205	..	17	19712	208·5	218	199	..
50	6	21114	217.1	223	213	..	7	20849	215.3	223	207	..	16	20804	211·8	221	203	..
40							5	22210	216.1	222	209	..	7	22155	217.3	221	211	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (975 mb.)						PORT BLAIR (999 mb.)						SRINAGAR (834 mb.)					
Surface	31	209	300.1	306	298	298.7	31	079	298.0	301	296	296.5	24	1588	291·2	296	286	289.6
1000	31	—21	..	..	..	..	31	068	..	..	..	..	24	014	..	..	..	..
900	31	912	297.8	306	293	293.7	31	0988	294.0	297	289	291.1	24	933	..	..	..	..
850	31	1412	294.6	302	291	291.4	31	1481	291.3	296	285	287.8	24	1424	..	..	..	..
800	31	1939	291.8	298	288	289.1	31	1999	288.6	292	281	285.1	24	1943	290.1	296	286	287.0
700	31	3073	285.8	291	282	282.5	31	3121	283.1	287	275	279.0	24	3073	284.7	291	280	281.6
600	31	4354	279.1	282	276	274.3	31	4383	275.5	281	271	272.4	24	4348	277.0	281	271	274.5
500	31	5827	271.8	274	269	..	31	5837	267.3	273	261	..	24	5810	268.2	273	264	..
400	31	7577	262.4	265	260	..	30	7551	257.3	264	251	..	24	7536	260.4	267	253	..
300	31	9735	248.6	252	242	..	29	9653	241.4	249	234	..	23	9686	248.7	253	244	..
250	31	11038	239.7	245	235	..	29	10916	230.8	239	225	..	23	10995	240.7	247	236	..
200	30	12564	228.3	235	220	..	29	12391	219.3	229	211	..	20	12544	230·7	238	224	..
175	30	13441	221.8	228	213	..	27	13224	213.3	221	203	..	19	13432	224·7	235	217	..
150	28	14437	215.0	222	208	..	23	14176	206.0	213	199	..	18	14443	219·1	228	215	..
125	27	15565	207.0	214	201	..	21	15260	201.6	209	193	..	16	15600	212.9	219	207	..
100	27	16896	200.9	209	193	..	18	16596	199.8	205	192	..	14	16975	208.1	212	215	..
80	26	18205	202·7	213	194	..	14	17973	203.4	211	195	..	11	18304	205.0	212	199	..
70	24	18997	205.5	217	197	..	14	18695	206.7	212	198	..	11	19119	207.0	215	201	..
60	21	19952	210.1	221	199	..	9	19650	210.7	218	198	..	10	20050	208.0	217	193	..
50	17	21045	216.1	228	208	..	5	20746	214.4	222	207	..	5	21194	214.8	221	210	..
40	16	22542	220.8	233	209	..						..						
30	13	24477	226.9	235	[illegible]													

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

July, 1964 (Asadha 10— Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1003 mb.)						VISHAKHAPATNAM Surf. Pr. (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean.	Max.	Min.	Dew point
Surface	31	064	296.9	298	296	295.8	31	041	300.6	301	298	298.1
1000	31	064	..	..	..	..	30	266	..	..	..	..
900	31	986	292.4	295	289	290.9	30	954	295·7	297	293	291.8
850	31	1478	289.7	292	287	288.1	30	1451	293.2	296	291	289.6
800	31	1994	287.4	291	284	283.2	30	1972	290.2	292	287	287.2
700	31	3114	281.7	285	278	279.8	30	3101	284.1	288	279	280.5
600	31	4376	274.5	279	271	273.1	30	4373	277.0	281	273	274.2
500	31	5829	266.9	271	262	..	30	5836	268.9	275	265	..
400	31	7545	256.2	261	251	..	30	7565	259.3	266	255	..
300	31	9643	240.7	247	233	..	29	9692	244.4	250	236	..
250	30	10909	231.2	236	223	..	29	10973	234.8	240	227	..
200	30	12380	219.2	224	212	..	28	12473	223.3	229	217	..
175	30	13221	213.2	217	206	..	26	13304	216.8	222	211	..
150	30	14175	206.1	214	199	..	26	14292	210.8	216	203	..
125	29	15237	200.2	209	193	..	26	15366	203.7	209	197	..
100	27	16566	199.0	205	192	..	26	16710	199.2	207	189	..
80	24	17908	204.4	214	196	..	19	18069	204.1	210	197	..
70	22	18699	208.1	214	201	..	16	18883	207.1	214	201	..
60	20	19637	210.6	219	205	..	11	19811	210.4	216	205	..
50	18	20776	213.1	221	206	..	10	20917	214.8	221	207	..
40	10	22063	215.0	224	212	..						
30	7	23895	218.0	223	213	..						
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

From Ascents at 12 Hours G. M. T.

July, 1964 (Asadha 10— Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (993 mb.)						ALLAHABAD/BAMHRAULI (987 mb.)						BANGALORE (904 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	304.2	308	299	298.0	31	098	304.3	310	299	298.2	31	921	299.8	305	297	292.5
1000	31	—7	..	..	..	..	31	—205	..	..	..	..	31	029	..	..	..	..
900	31	933	298.0	301	294	293.6	30	914	298.4	305	295	293.9	31	963	299.4	304	297	292.1
850	31	1433	294.6	298	291	291.0	30	1414	294.8	299	293	291.4	31	1464	294.8	299	292	289.1
800	31	1960	291.3	294	288	288.1	30	1939	291.8	295	289	288.1	31	1988	290.2	295	287	286.6
700	31	3092	285.8	288	282	282.1	30	3074	286.2	290	284	281.2	31	3116	283.1	287	281	280.4
600	31	4374	279.9	284	274	274.0	30	4358	279.8	284	277	275.2	31	4388	276.7	281	273	273.3
500	31	5851	272.4	276	267	..	30	5837	272.4	276	269	..	31	5850	268 8	273	265	..
400	31	7602	262.4	265	259	..	30	7581	263.2	267	259	..	31	7577	258.1	262	252	..
300	29	9759	249.1	253	245	..	30	9754	249.4	253	247	..	30	9691	242.6	248	233	..
250	29	11067	239.8	244	235	..	30	11062	239.8	245	236	..	26	10964	232.9	239	223	..
200	29	12595	228.1	234	223	..	29	12592	228.8	235	225	..	21	12453	221.2	228	214	..
175	25	13484	221.7	228	217	..	29	13476	221.7	227	217	..	18	13311	214.7	220	208	..
150	24	14475	215.0	220	210	..	26	14468	214.0	220	208	..	18	14271	207.9	213	201	..
125	23	15604	207.7	215	201	..	26	15605	205.7	213	197	..	15	15350	201.3	208	195	..
100	23	16914	202.4	210	197	..	23	16889	199.4	206	191	..	13	16664	197.2	202	189	..
80	21	18245	200.0	216	193	..	20	18207	200.1	205	194	..	11	17995	201.0	207	191	..
70	18	19037	202.4	220	193	..	17	18956	205.5	213	199	..	10	18786	204.0	210	192	..
60	13	19945	207.0	224	200	..	14	19949	211.9	217	203	..	7	19738	204.9	211	197	..
50	11	21023	210.3	220	205	..	9	21085	215.2	219	209							
40	5	22427	215.6	220	211	..	5	22553	217.6	223	210							
30																		

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ Surf. Pr. (100 mb.)						CALCUTTA/DUM DUM (1000 mb.)						GAUHATI (996 mb.)					
Surface	31	013	301.3	303	297	297.5	31	06	301.3	304	296	298.7	31	049	301.9	307	299	298.7
1000	31	022	..	..	..	..	31	02	..	..	..	..	30	—01	..	..	..	..
900	31	949	294.4	297	292	291.5	31	934	296.1	299	293	293.6	30	920	297.1	301	294	293.8
850	31	1444	291.6	294	280	288.8	31	1433	293.6	297	290	290.5	30	1431	294.7	299	284	291.2
800	31	1964	289.1	291	286	286.0	31	1956	290.8	294	286	287.9	30	1955	291.6	295	288	288.5
700	31	3089	284.0	287	282	279.2	31	3090	285.1	290	281	282.6	30	3090	285.9	289	282	282.9
600	31	4362	277.8	282	275	273.5	31	4372	279.3	284	275	276.7	30	4374	279.4	283	275	275.8
500	31	5828	270.0	273	267	..	31	5849	271.5	275	268	..	29	5850	272.8	277	267	..
400	31	7562	259.4	263	255	..	31	7596	261.9	265	258	..	28	7603	263.4	268	261	..
300	31	9696	245.4	251	237	..	30	9757	248.3	253	245	..	25	9776	250.0	253	246	..
250	28	10983	235.3	243	229	..	29	11060	239.3	243	236	..	24	11083	240.8	244	234	..
200	26	12478	223.0	228	219	..	29	12588	227.8	234	222	..	23	12620	228.5	233	219	..
175	22	13345	217.1	221	212	..	28	13470	221.4	228	213	..	21	13497	221.3	227	213	..
150	19	14315	210.6	217	203	..	28	14456	213.7	222	205	..	20	14474	214.9	221	207	..
125	15	15430	203.9	209	198	..	28	15587	205.8	215	197	..	17	15592	207.0	213	195	..
100	13	16764	199.1	208	193	..	28	16903	199.6	207	192	..	14	16942	200.0	205	191	..
80	8	18117	204.4	209	202	..	21	18244	200.0	207	193	..	11	18253	200·0	211	191	
70	6	18914	207.2	211	203	..	19	19030	203.1	215	196	..	5	19909	204.0	207	198	
60	5	19878	209.2	214	205	..	11	19945	205.1	213	196	..						
50							11	21050	209.5	217	201							
40							7	22403	213.9	221	205							
30																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

From Ascents at 12 Hours G. M. T.

JULY, 1964 (Asadha 10 —Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (973 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						MINICOY (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	307.5	313	297	298.7	31	015	304.7	310	301	296.1	31	002	299.7	301	297	296.7
1000	29	—025	..	..	..	..	31	23	..	..	..	..	31	067	..	..	..	..
900	29	916	301.8	307	295	291.8	31	959	297.6	301	293	285.2	31	992	292.7	296	290	290.0
850	29	1419	296.0	303	292	288.4	31	1458	294.0	297	291	289·3	31	1484	290.3	293	287	286.8
800	29	1943	293.4	298	289	280.2	31	1931	290.2	294	287	286.5	31	2000	287.4	291	285	283.3
700	29	3082	287.1	293	283	279.2	31	3109	283.5	286	273	279.6	31	3119	281.5	284	279	277.0
600	29	4364	280.1	285	276	271.0	31	4377	276.6	280	273	272.8	31	4380	275.0	278	273	272.0
500	29	5839	273.4	276	269	..	30	5838	268.8	274	265	..	31	5828	267.1	269	264	..
400	28	7515	262.9	268	260	..	30	7563	258.0	264	252	..	31	7540	256.6	260	252	..
300	26	9742	249.7	255	241	..	29	9678	242.5	249	237	..	31	9638	241.3	245	234	..
250	25	11057	240.5	246	235	..	29	10949	232.6	239	227	..	30	10897	230.5	235	225	..
200	24	12606	230.5	237	222	..	28	12419	219.9	225	215	..	30	12236	218.1	223	213	..
175	22	13492	224.0	230	215	..	26	13261	214.2	219	209	..	27	13321	211.9	217	205	..
150	22	14485	217.2	224	208	..	27	14237	206.3	216	206	..	26	14415	204.7	213	195	..
125	19	15638	209.7	217	202	..	27	15324	201.2	206	194	..	25	15497	198.9	207	191	..
100	17	16962	202.2	213	194	..	25	16621	197.2	202	192	..	24	16520	200.0	208	192	..
80	14	18259	202.4	209	198	..	20	17913	200.3	210	193	..	21	17826	203.6	209	196	..
70	12	19127	208.0	211	199	..	20	18696	204·1	213	199	..	16	18625	204.9	211	197	..
60	9	19976	207.3	217	195	..	19	19626	206.9	217	199	..	14	19570	207.6	214	202	..
50	5	21034	209.2	217	203	..	14	20713	210.1	214	101	..	11	20657	208.7	215	205	..
40							6	22011	212.0	217	207							
30																		
20																		

	NAGPUR/SONEGAON Surf. Pr. (964 mb.)						NEW DELHI/SAFDARJUNG (973 mb.)						PORT BLAIR (997 mb.)					
Surface	31	311	301.6	307	297	295.6	31	209	304.0	3012	298	300.1	31	79	299.9	302	297	297.1
1000	31	—5	..	..	..	..	31	—033	..	..	..	..	31	057	..	..	..	..
900	31	933	297.6	301	294	293.4	31	908	299.5	308	296	295.0	31	979	294.2	297	289	290.3
850	31	1435	294.1	297	291	291.0	31	1411	296.2	304	293	292.2	31	1472	291.5	295	287	287.9
800	31	1958	289.6	293	288	288.0	31	1942	293.2	299	291	289.3	31	1991	289.1	291	286	284.0
700	31	3091	284.7	289	280	282.3	31	3080	287.0	291	285	282.4	31	3114	283.0	285	279	278.8
600	31	4438	284.5	281	273	275.4	31	4362	280.0	283	277	275.9	31	4380	275.9	279	270	..
500	31	5840	270.1	276	263	..	31	5847	272.5	276	269	..	30	5835	267.6	271	264	..
400	31	7575	260.2	264	255	..	29	7604	263.2	266	260	..	30	7555	257.5	262	253	..
300	31	9712	246.1	253	239	..	29	9772	249.8	255	244	..	28	9674	243.3	247	235	..
250	30	10998	236.0	245	230	..	29	11077	241.4	249	236	..	28	10980	232.4	238	223	..
200	30	12504	223.9	233	217	..	28	12626	229.8	235	224	..	28	12431	220 5	227	212	..
175	27	13327	216.5	227	207	..	28	13511	223.0	230	215	..	27	13290	214.7	227	204	..
150	27	14315	210.2	226	204	..	28	14501	215.3	221	207	..	24	14240	207.3	212	195	..
125	26	15391	203.0	212	195	..	28	15629	207.3	214	199	..	16	15443	203.0	217	197	..
100	25	16727	199.5	204	190	..	26	16969	201.8	209	193	..						
80	20	18089	201·6	207	195	..	26	18285	202.6	213	193	..						
70	16	18862	203·7	211	197	..	26	19092	205.3	217	196	..						
60	13	19804	207·3	217	202	..	22	20028	210.7	221	203	..						
50	9	20894	210.1	218	420	..	20	21051	214.7	224	207	..						
40						..	15	22543	219.4	229	209	..						

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

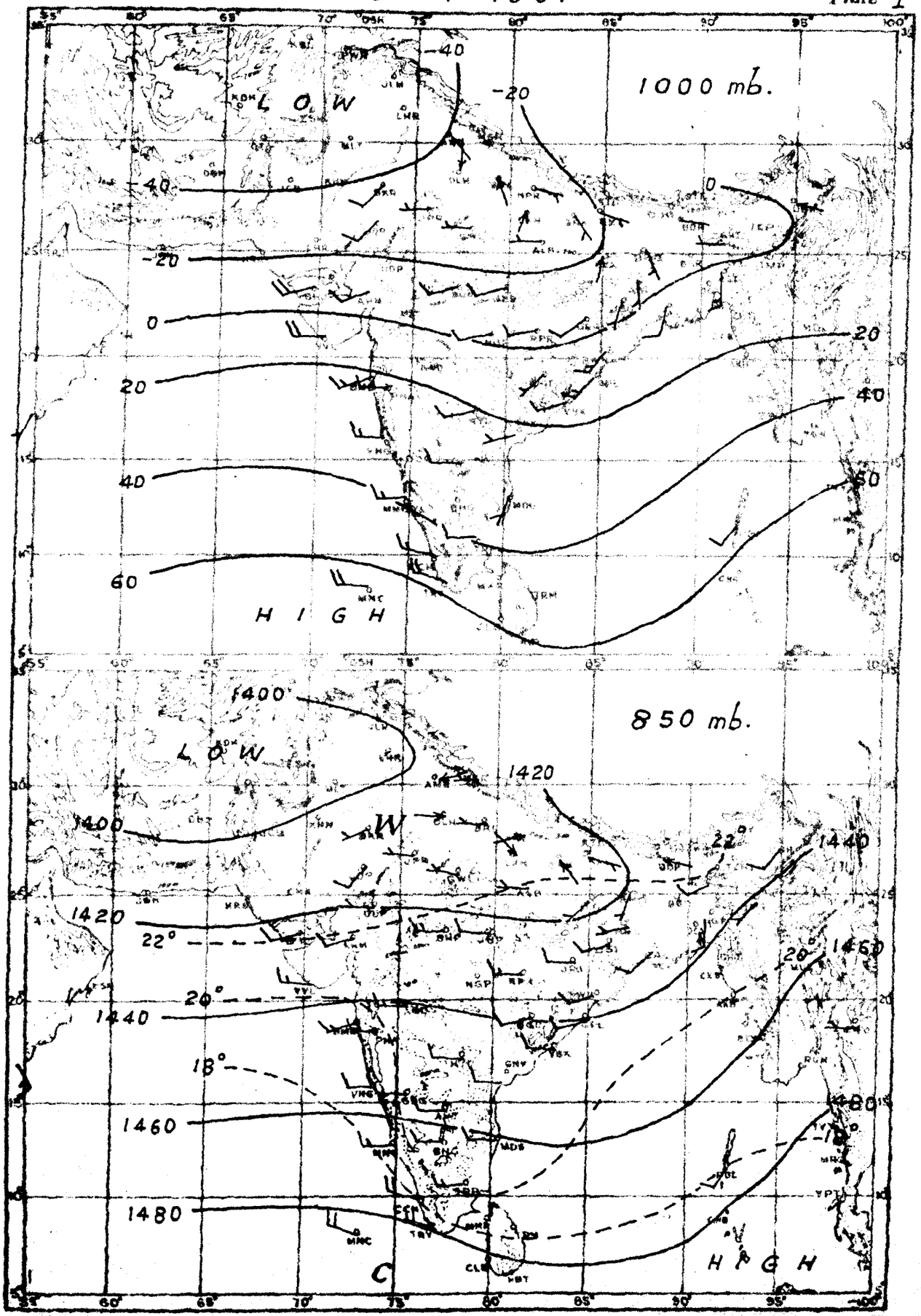
(July, 1964 Asadha 10—Sravana 9, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (832 mb.)						TRIVANDRUM Surf. Pr. (999 mb.)						VISHAKHAPATNAM Surf. Pr. (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No of Obs.	Ht. gpm.	Temperature			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min	D point
Surface	31	1588	299.4	306	292	291.1	31	064	299.5	302	297	296.5	31	041	302.4	305	299	299.5
1000	31	—047	..	..	..	..	31	059	..	..	..	..	31	015	..	..	..	..
900	31	898	..	..	..	..	31	984	293.1	295	291	291.2	31	955	297.0	301	294	292.6
850	31	1404	..	..	..	..	31	1478	290.4	292	288	288.1	31	1447	294.0	297	291	290.1
800	31	1936	295.7	303	288	287.0	31	1995	287.7	291	285	285.6	31	1967	290.7	294	287	287.0
700	31	3083	287.8	295	281	279.3	31	3118	282.6	286	279	279.4	31	3101	284.6	289	279	280.0
600	30	4369	278.7	285	271	..	31	4385	275.7	279	272	..	31	4375	277.2	283	273	274.2
500	30	5835	269.8	274	264	..	30	5840	267.5	272	262	..	31	5841	269.3	275	264	..
400	30	7572	261.5	269	254	..	30	7557	256.7	263	252	..	31	7570	258.9	264	254	..
300	28	9721	248.5	255	244	..	29	9656	241.2	245	236	..	29	9692	243.8	250	236	..
250	25	11017	240.0	246	237	..	29	10925	231.8	239	226	..	29	10974	233.2	242	226	..
200	21	12562	230.7	239	226	..	29	12404	220.0	226	212	..	29	12468	221.6	231	211	..
175	18	13448	224.4	230	220	..	29	13240	213.3	220	205	..	27	13303	215.5	222	208	..
150	16	14447	218.4	223	213	..	29	14203	206.7	214	198	..	27	14206	208.1	215	200	..
125	14	15591	212.2	219	206	..	29	15279	200.3	209	191	..	22	15354	203.2	209	197	..
100	9	16908		213	201	..	25	16599	199.6	205	193	..	22	16692	198.3	205	191	..
80	10	18273	203.7	211	198	..	24	17922	205·1	211	199	..	17	18031	202.3	212	195	..
70	10	19066	206.1	213	202	..	21	18729	206.7	212	201	..	15	18823	204.8	214	197	..
60	9	19972	208.9	212	207	..	18	19660	209.0	216	203	..	11	19697	207.6	216	201	..
50	9	21100	212.7	217	209		15	20750	212·1	220	206	..	11	20786	212.5	219	204	..
40	7	22498	216.3	225	209		8	22193	214.8	219	210	..	5	22062	214.8	222	209	..
30	6	24345	220.0	224	217							..						..

Note : Number of observation refer to those of dynamic height. Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.
Means are not worked out for less than five observations at standard pressure surfaces.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D. JULY 1964 Plate I

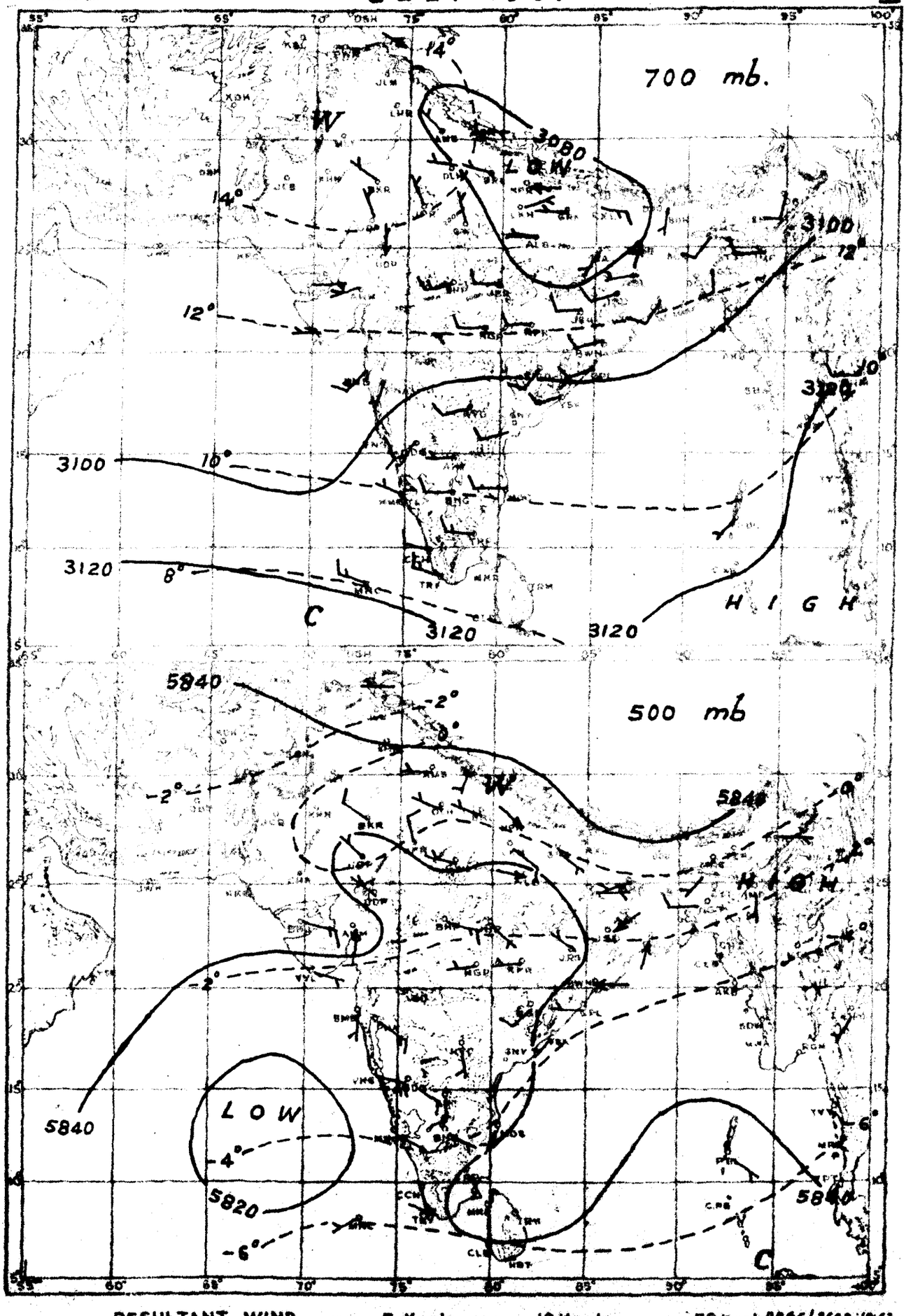


RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. JULY 1964 Plate II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

AUGUST

Published by authority of the Government of India

Chief features :—

(i) Fairly good activity of the monsoon in the Peninsula during the first fortnight and over the central parts of the country and northwest India after the first week;

(ii) Weak monsoon conditions over Assam and West Bengal except during the first week;

(iii) Heavy rains leading to floods in :

(a) Assam, north Bengal, north Bihar and east Uttar Pradesh during the first week,

(b) Madhya Pradesh and east Uttar Pradesh during the third week and

(c) Bihar State, east Rajasthan, the Punjab(I) and Delhi area during the second fortnight;

(iv) Formation and movement of four Bay depressions and

(v) Development of a midget cyclone in the Arabian Sea off Bombay causing serious damages along the north Konkan coast.

The monsoon activity which had revived in the west coast towards the end of last month was sustained during the first week of this month as a result of the development of an upper air trough over the east central Arabian Sea off the Konkan-Kanara coasts on the 1st. The trough moved northwards and merged into the seasonal low by 3rd. It caused good rainfall over the other parts of the Peninsula also. The monsoon was particularly strong over the Konkan and coastal Mysore. Some of the noteworthy amounts of rainfall recorded were : Karwar and Harnai 11 cm each on 2nd, Mahabaleshwar 23 cm, Harnai 16 cm., Bhira and Devgarh 13 cm each and Honavar 12 cm on 3rd, Mercara 14 cm, Bhira 12 cm and Veraval 9 cm on 4th, Bhira 23 cm, Khandala 20 cm, Mahabaleshwar 19 cm and Devgarh 13 cm on 5th, Mercara 26 cm, Mahabaleshwar 15 cm, Harnai 14 cm and Calicut 12 cm on 6th, Mercara 28 cm on 7th and 13 cm on 8th, Ratnagiri 16 cm and Devgarh 14 cm on 7th, Mahabaleshwar 16 cm on 8th. A low pressure area which developed over the extreme east central Arabian Sea off the Konkan coast on 6th intensified into a cyclonic storm of very small extent centred near Lat. 19·0°N and Long. 71·5°E on the morning of 7th. Moving in a northerly direction close to the coast, it rapidly weakened by the morning of 8th when it lay as an upper air low over Saurashtra and Kutch. Later it merged with the seasonal trough. It caused heavy rains and squally weather in the north Konkan. According to press reports, two persons were killed on 7th when squally winds accompanied by heavy rains lashed Bombay. Two small ships in midstream broke loose from their moorings. Very extensive damage to plantain and Chiku orchards in Thana district was also reported.

The axis of the monsoon trough lay close to the foot of the Himalayas at the beginning of the month. But it shifted southwards on third when a trough of low pressure formed over the north Bay of Bengal. The trough intensified and concentrated into a depression over the northwest Bay by the morning of 5th centered near Lat. 19·5°N and long. 88·0°E. Moving westwards, it further intensified into a deep depression by the morning of 6th and crossed coast near Puri by the same evening. Thereafter it weakened rapidly into a low pressure area and moving westnorthwestwards merged into the seasonal low over Rajasthan by 9th. In association with these developments, the monsoon was quite active over northeast India, northeastern parts of the Peninsula and central parts of the country. Some of the noteworthy amounts of rainfall recorded were : Cooch Behar 13 cm on 2nd, Pasighat 13 cm on 3rd, Jalpaiguri 16 cm on 4th, Lucknow (Amausi) 15 cm and Jagdalpur 12 cm on 6th, Kanker 13 cm on 7th and Radhanagri 24 cm on 7th and 46 cm on 8th. According to press reports, most of the rivers in Assam, north Bengal, north Bihar and east Uttar Pradesh were in high floods causing serious havoc in many villages and damage to standing crops.

Another low pressure area which formed over the north Bay of Bengal on 8th also intensified into a depression by the next morning when it lay centered near Lat. 19·5°N and Long. 89·5°E. It further intensified into a deep depression by the morning of 10th. Moving northwestwards, it crossed coast near Chandbali during the night of 10th—11th. It began to weaken progressively from 12th, becoming a depression by 12th evening and a low pressure area by the 13th morning. It finally merged with the seasonal low by 13th evening.

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This was immediately followed by another depression. A trough of low pressure formed over the head Bay of Bengal on 14th and it intensified into a depression by the morning of 15th when it lay centered dear Lat. 21.0°N and Long. 87.5°E. Moving northwestwards, it crossed coast near Balasore the same day and weakened into a low pressure area over northeast Madhya Pradesh and adjoining east Uttar Pradesh on 17th. It finally merged into the seasonal trough by 18th. Under the influence of these two depressions the monsoon activity was well maintained over the central and northern parts of the country during second and third weeks. The monsoon was particularly strong in Madhya Pradesh, Vidarbha, west Uttar Pradesh and parts of north-west India during the third week. Heavy rains also occured in Gujarat State, and the Konkan. Some of the noteworthy amounts of rainfall recorded during this spell were : Kailashahar 21 cm on 8th, Sironcha 13 cm on 10th, Titlagarh 13 cm and Puri 12 cm on 11th, Bhira 24 cm, Mahabaleshwar 21 cm, Dahanu 19 cm, Pachmarhi 15 cm and Bombay (Santacruz) 14 cm on 12th, Surat 32 cm and Bhira 21 cm on 13th, Aligarh 18 cm, Merrut 17 cm and New Delhi 13 cm on 15th, Abu 16 cm on 16th, 28 cm on 18th and 17 cm on 19th, Ferozepore 19 cm on 18, Daltonganj 16 cm on 19th, Chaparmukh 17th cm on 20th. According to press reports, many rivers in Bihar State, Madhya Pradesh, Uttar Pradesh and the Punjab (I) rose in spate affecting thousands of acres of cultivated land and hundreds of villages. The bridge accross the Narmada at Khalghat on the Bombay-Agra road was reported to be 14 feet under water on 13th.

A fresh low pressure area from the east moved into the north Bay of Bengal on 21st. Moving north-westwards it intensified into a depression by the morning of 23 centered near Contai. It moved westnorth-westwards and weakened into a low on 26th. Thereafter it moved westwards to south Rajasthan and Sindh and merged with the seasonal low by 29th. Another low pressure area from the east moved into the east central Bay of Bengal on 29th. It moved westwards, crossed the Circars coast on the night of 30th-31st and merged into the seasonal trough by 1stSeptember. In association with these developments, the monsoon continued to be fairly active over the central and northern parts of the country till the end of the month. Heavy rains occurred particularly in Uttar Pradesh, the Punjab(I) and Rajasthan where serious floods were reported to have caused large scale damage to standing crops and many road breaches. Sikar recorded a heavy fall of 18 cm of rain on 25th and Banda 14 cm on 28th.

The monsoon was moderate to weak over the Peninsula, Assam and West Bengal during the last three weeks of the month. However, spells of good rainfall occured in the Madras State and Andhra Pradesh particularly towards the end of the month. Spells of good rainfall occured in the Bay Islands also except during the third week. Long Island recorded 12 cm of rain on 3rd, Maya Bandar 14 cm on 7th and Long Island 9 cm on 29th.

The total rainfall during the month was in large excess in Saurashtra and Kutch, the Konkan and south Interior Mysore, in moderate excess in Orissa, west Rajasthan, Madhya Maharashtra, Vidarbha and costal Mysore and in slight excess in the Bay Islands, the Punjab (I), east Rajasthan, Madhya Pradesh, coastal Andhra Pradesh, and north Interior Mysore. It was in slight defect in Sub-Himalayan West Bengal, Gujarat Region and the Arabian Sea Islands, in moderate defect in Assam, Gangetic West Bengal, east Uttar Pradesh, Rayalaseema and in large defect in Bihar Plains. It was normal over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in east Uttar Pradesh, and below normal in coastal Andhra Pradesh, Rayalaseema, the Madras State and Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was below normal in Orissa and was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Rajasthan, and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Jammu and Kashmir, the Madras State, north Interior Mysore and the Arabian Sea Islands. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

Poona 5;
The 24th November 1964.

R. Ananthakrishnan,
for DIRECTOR GENERAL OF OBSERVATORIES.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity% 0830 hrs. IST	Relative humidity% 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
DIVISION								
1. Assam (Including Manipur and Tripura)	243·5 −98·7	71	31·8 +0·6	24·4 −0·3	85 0	79	6·4 −0·1	5·8
2. West Bengal	288·6 −88·3	77	31·9 +0·3	25·6 −0·1	85 +1	81	6·0 −0·4	5·7
3. Orissa	445·0 +107·9	132	31·1 0	24·3 −1·2	86 +2	83	6·8 +0·7	6·8
4. Bihar	197·4 −127·1	61	31·9 +0·7	25·1 −0·2	84 +1	80	6·3 +0·1	6·1
5. Uttar Pradesh	227·7 −76·9	75	33·3 +1·1	25·3 −0·3	83 0	74	5·6 +0·3	5·3
6. Punjab (India) Including Himachal Pradesh and Delhi*	259·7 +37·9	117	33·8 −0·2	25·5 +0·2	81 +3	70	4·7 +0·6	4·7
7. Jammu and Kashmir	106·2 −10·9	91	27·7 +0·6	15·4 −0·5	68 −7	63	5·0 +1·0	3·5
Sub Division								
1. Bay Islands	468·8 +55·0	113	29·2 +0·6	23·3 −0·4	83 −1	86	7·2 +0·6	7·5
2. Assam (Including Manipur, Tripura).	243·5 −93·7	71	31·8 +0·6	24·4 −0·3	85 0	79	6·4 −0·1	5·8
3. Sub-Himalayan, West Bengal.	451·1 −101·3	82	31·9 +0·2	24·7 −0·3	85 0	79	6·0 +0·2	5·3
4. Gangetic, West-Bengal.	229·5 −83·5	73	31·9 +0·4	25·8 0	85 +1	82	6.0 −0·6	5·9
5. Orissa	445·0 +107·9	132	31·1 0	24·3 −1·2	86 +2	83	6·8 +0·7	6·8
6. Bihar Plateau	340·7 −4·5	99	31·1 +0·6	23·7 −0·7	85 +2	83	6·4 +0·1	6·3
7. Bihar Plains	132·3 −182·9	42	32·6 +0·8	26·2 +0·2	83 0	77	6·1 +0·1	5·9
8. Uttar Pradesh, East	160·8 −141·2	53	33·6 +1·4	25·5 −0·3	84 −1	74	6·2 +0·4	5·2
9. Uttar Pradesh, West.	327·9 +19·6	106	32·9 +0·7	24·9 −0·2	83 +2	74	5·4 0	5·4
10. Punjab (India)(Including Delhi).	259·7 +37·9	117	33·8 −0·2	25·5 +0·2	81 +3	70	4·7 +0·6	4·7
11. Himachal Pradesh	370·3 ..	..	31·6 ..	16·9 ..	87 ..	75	3·7 ..	3·6
12. Jammu and Kashmir	106·2 −10·9	91	27·7 +0·6	15·4 −0·5	68 −7	63	5·0 +1·0	3·5
13. Rajasthan, West	144·2 +44·0	144	35·1 0	26·0 −0.1	85 +9	65	4·3 +0·1	4·7
14. Rajasthan, East	260.2 +41·8	119	31·4 +0·2	24·6 +0·4	84 +5	75	6·3 +0·8	6·8
15. Madhya Pradesh (West).	350·8 +64·3	122	29·6 +0·4	23·2 +0·2	89 +3	80	7·1 +0·5	7·1

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative Humidity% 0830 hrs. IST.	Relative Humidity% 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
8. Rajasthan	202·2 +42·9	127	33·1 +0·1	25·2 +0·2	84 +7	71	5·5 +0·5	5·8
9. Madhya Pradesh	412·9 +74·4	122	29·6 +0·3	23·4 +0·1	89 +3	81	7·1 +0·5	7·1
10. Gujarat State	195·3 +43·4	129	31·0 0	25·1 +0·2	88 +3	80	6·7 +0·2	6·6
11. Maharashtra State	421·8 +116·3	138	29·0 −0·5	22·7 −0·2	88 +4	78	7·0 +0·5	7·2
12. Andhra Pradesh	171·4 +13·5	109	31·3 −1·0	24·3 −0·4	80 +3	69	6·5 +0·4	6·6
13. Madras State	92·9 +1·3	101	32·9 −1·1	24·6 −0·3	71 +3	61	5·6 +1·1	5·9
14. Mysore	344·7 +105·7	144	27·5 −1·0	21·2 +0·1	88 +4	75	7·1 +0·8	7·1
15. Kerala	336·5 +14·9	105	28·7 +0·1	23·6 0	91 +2	85	6·4 0	6·5
Sub Division—*contd.*								
16. Madhya Pradesh (East).	491·9 +87·2	122	29·6 +0·1	23·6 +0·1	88 +3	82	7·1 +0·5	7·0
17. Gujarat Region	182·2 −43·3	81	30·5 −0·4	24·5 +0·1	90 +3	79	7·0 +0·3	6·9
18. Saurashtra and Kutch.	201·1 +81·9	169	31·3 +0·2	25·4 +0·2	88 +3	80	6·6 +0·2	6·5
19. Konkan	716·5 +251·1	154	28·6 −0·3	24·1 −0·4	90 +4	87	7·1 +0·1	7·2
20. Madhya Maharashtra.	292·1 +62·7	127	28·8 −0·6	21·5 −0·1	86 +4	73	6·9 +0·8	7·2
21. Marathwada	136·5 −4·6	97	29·5 −0·5	21·6 0	86 +4	69	6·9 +0·4	7·1
22. Vidarbha	360·5 +78·8	128	29·3 −0·6	22·9 −0·3	88 +4	79	7·0 +0·5	7·1
23. Coastal Andhra Pradesh.	172·0 +32·7	123	31·9 −1·3	25·2 −0·5	79 +3	71	6·5 +0·4	6·5
24. Telangana	227·9 +13·5	106	30·3 −0·4	23·2 −0·3	83 +3	73	6·7 +0·6	6·8
25. Rayalaseema	76·1 −31·2	71	31·8 −1·5	23·8 −0·4	76 +4	59	6·2 +0·2	6·6
26. Madras State	92·9 +1·3	101	32·9 −1·1	24·6 −0·3	71 +3	61	5·6 +1·1	5·9
27. Coastal Mysore	845·3 +233·1	138	28·3 −0·2	23·6 −0·1	89 −1	84	7·6 +0·7	7·7
28. Interior Mysore, North.	156·7 +21·8	116	28·5 −1·2	21·2 +0·1	87 +5	73	7·1 +1·5	7·1
29. Interior Mysore, South.	291·2 +123·0	173	26·4 −1·2	20·1 +0·2	87 +5	73	6·7 +0.1	6·9
30. Kerala	336·5 +14·9	105	28·7 +0·1	23·6 0	91 +2	85	6·4 0	6·5
31. Arabian Sea Islands.	174·5 −23·2	88	29·7 +0·3	25·0 −0·2	82 +1	77	6·3 +1·1	3

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data for Himachal Pradesh not included.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·5	..	31·1	13,20	24·4	..	22·4	28	268·1	550·9	..	139·8	7	20	..	22·3	17·3	..	1	21	0	0	3	0	0	0	0	0	0
Long Island	29·8	..	32·0	13	24·3	..	21·9	7	409.7	598·0	..	117·1	3	15	..	12·1	7·8	..	0	15	0	0	2	0	0	0	0	0	0
Port Blair	29·2	+0·6	30·4	16,28	23·3	−0·4	21·3	4,5	203·9	468·8	+55·0	69·0	29	18	−2·9	27·5	21·3	−0·3	1	22	0	0	6	0	0	0	0	7	0
Car Nicobar	30·0	..	31·6	14	24·9	..	22·4	2	69.4	164·2	..	41·7	30	12	..	8·8	6·2	..	0	16	0	0	3	0	0	0	0	0	0
Nancowry	29·4	..	30·7	24,27	24·9	..	21·6	2	97·6	216·5	..	68·2	2	14	..	14.0	12·2	..	0	18	0	0	6	0	0	0	0	3	0
Kondul	28·5	..	29·6	23	24·3	..	22·1	2	168·4	376·8	..	67·0	18	19	..	..	..	..	0	20	0	0	3	0	0	0	0	0	0
Assam (including Manipur, Tripura)																													
Pasighat	31·3	..	36·7	11	23·0	..	20·8	2	190·3	492·1	..	127·2	3	16	..	4·3	4·8	..	0	18	0	0	2	0	0	0	0	0	0
Dibrugarh (Mohanbari)	32·0	+1·3	35·7	11	23·0	−1·4	20·8	17	77·5	405·6	−45·5	56.0	13	16	−2·7	4·5	3·3	+0·2	1	20	0	0	13	1	0	0	0	0	0
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimipur	31·9	+0·7	35·7	11	23·8	−0·8	21·7	24	53·9	426·9	−101·2	92·6	24	16	−3·0	6·5	5.0	..	0	17	0	0	12	0	0	0	0	0	0
Sibsagar	32·8	+1·2	36·2	11	25·5	+0·1	23·9	24	25·4	420·5	+4·7	104·0	20	13	−5·1	5·0	4·5	+1.3	1	20	0	0	4	0	0	0	0	0	0
Gohpur	32·5	..	34·9	16	25·5	..	23·4	8,23	62.6	478·3	..	95·4	20	15	..	4.8	3.4	..	0	17	0	0	5	0	0	0	0	0	0
Majbat	32.5	..	35.5	11	24.9	..	22.1	21	46·1	250·1	..	61·4	17	10	..	5·7	3·5	..	0	11	0	0	6	0	0	0	0	0	0
Jorhat (Aerodrome)	33.0	..	36·0	11	25·1	..	22·8	8	21.0	291·3	..	80·0	24	11	..	..	..	..	0	16	0	0	17	1	0	0	0	0	0
Tangla	32·9	..	36·1	11	24·5	..	22·8	31	23.0	71·0	..	12·0	20	9	..	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Tezpur	32·0	+0·1	35·8	11	25·5	+0·1	24·6	3	40·6	254·1	76.6	91·4	20	11	−4 9	5·3	3·7	+1·4	0	17	0	0	5	0	0	0	0	0	0
Golaghat	33·1	..	36.6	11	24·8	..	23.4	19,24	15·8	268·4	−76·6	52·6	20	12	..	(h) 4.5	3.4	..	0	15	0	0	0	0	0	0	0	0	0
Rangia	33·7	..	35·7	11	25·1	..	22·9	1	34·0	122·5	..	..	..	..	.	(e) 8·2	(g) 4·3	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh	33·0	..	..	..	25·0	..	..	..	38·4	269·6	..	..	..	..	..	8.7	..	..	..	..	..	..	..	..	..	..	..	..	..
Gopalpara	33.1	..	36·2	24	24·6	..	22·4	1	58·0	281·8	..	57·4	27	11	..	4·8	3·6	..	0	15	0	0	0	0	0	0	0	0	0
Gauhati	..	..	..	..	..	..	..	..	..	146·0	−114·6	37·4	17	10	−3.1	..	..	..	0	17	..	..	..	..	..	..	..	..	..
Gauhati (Bhojor)	32·4	+0·4	34·8	11	25·6	+0·5	23·3	1	77·7	191·6	−69·0	36·7	26	15	+1.9	7·2	4·9	..	0	20	0	0	18	0	0	0	0	0	0
Dhurbi (Rupsi)	32·1	..	35·4	11	25·1	..	23·3	31	160·6	376·4	..	181·4	3	12	..	6·2	5·1	..	0	14	0	0	9	0	0	0	0	0	0
Dhubri	31·1	+0·9	34·2	30	26·5	+0·7	24·9	3	72.6	212·4	−125·2	103·8	3	10	−4.6	11·1	8·7	+3·1	0	11	0	0	5	0	0	0	0	0	0
Lumding	34·0	+1·7	36·6	9	24·3	−0·5	21·8	4	32·5	157·9	−47·3	42·2	26	11	−0·3	5·9	3·7	..	0	14	0	0	0	0	0	0	0	0	0
Tura	29·6	..	32·3	11	20·1	..	19·0	4,17	268·6	475·3	..	96·6	27	16	..	5·5	4·7	..	5	20	0	0	5	0	0	0	0	0	0
Haflong	28·0	..	31·7	8,11	20·5	..	19·1	17	67·3	189·6	−72·8	30·4	28	13	−4·1	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram)	32·6	..	36·5	8,11	24·5	..	23·4	17	86·4	264·6	..	92·2	21	16	..	6·8	5·8	..	1	21	0	0	9	2	0	0	0	0	0
Silchar	31·1	−0·8	35·9	8	25·4	+0·5	22·0	29	90·2	204·2	−310·4	30·6	21	16	−6·2	3·0	1·9	−0·5	0	19	0	0	9	0	0	0	0	0	0
Imphal (Tulihal)	29·0	+0·2	31·9	30	20·1	−1·6	19·1	31	82·1	147·3	−41·3	39·7	31	14	+1·6	6·5	5·2	−0·2	0	19	0	0	6	0	0	0	0	0	0
Kailashahar	32·3	..	35·3	7	24·7	..	22.7	8	100·2	407·2	..	206·6	8	15	..	6·1	4·6	..	2	23	0	0	15	0	0	0	0	0	0
Agartala	31·7	+0.6	33·9	10,11	24·0	−0.8	22·6	30	88·6	165·9	−185·4	34·2	6	14	−3·3	10·7	8·6	+0·4	1	22	0	0	12	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	31·9	+0·2	36·1	11	24·6	−0·1	23·0	5	112·4	449·5	−215·2	97·4	4	20	−1·7	14·1	11·9	+6·1	0	25	0	0	11	0	0	0	0	0	0
Jalpaiguri	31·5	−0·1	35·4	11	24·8	−0·4	23·4	1,2,31	169·4	614·6	−27·3	157·4	4	17	−3·4	9·7	6·8	+4·1	0	24	0	0	10	0	0	0	0	0	0
Cooch Bihar	32·2	..	35·4	10,11	25·2	..	23·3	1	73·5	492·4	−110·6	130·7	2	13	−5·7	6·9	4·6	..	3	18	0	0	10	0	0	0	0	0	0
Balurghat	32·5	..	35·5	10	25·7	..	23·8	16,24	119·5	258·0	..	53·6	3	17	..	10·5	7·3	..	0	20	0	0	3	0	0	0	0	0	0
Malda	32·3	+0.6	34·9	10,11	..	..	..	..	71·0	227·9	−52·0	75.6	13	15	+0·4	4·9	4·0	−3·6	0	18	0	0	11	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	32·7	+1·0	35·3	10	25·6	−0·4	23.3	1	90·1	161.6	−128·2	25·2	19	13	−3·3	6·0	4·3	−0·5	0	16	0	0	0	0	0	0	0	0	0
Suri	32·0	..	35·8	4	24·9	..	20·3	24,25	..	174·8	..	40 8	24	13	..	..	7·0	..	0	19	0	0	2	0	0	0	0	0	0
Asansol	32·2	+0·6	36·6	4	25·5	+0·2	23·2	16	121.4	273·9	−63·4	63·2	21	17	0	9·7	7·2	−0·4	1	23	0	0	14	0	0	0	0	0	0
Shanti Niketan	32·0	..	35·2	4	25·7	..	22·9	16	95·5	170·7	..	23·8	20	14	..	11·0	9·2	..	3	19	0	0	14	0	0	0	0	0	0
Krishnanagar	32·6	+0·7	35·0	10	26·1	+0·3	24·4	16,27	56·0	89·0	−174·7	15·1	12	12	−3·3	6·9	4·6	−1·0	0	16	0	0	3	0	0	0	0	0	0
Purulia	31·4	0	37·3	3	23·7	−1·2	21·4	17	74·2	233·4	−72·8	37·2	26	20	+3·5	8·1	6·2	+1·0	0	21	0	0	7	0	0	0	0	0	0
Bankura	32·3	..	35·5	4	25.0	..	22.3	16	151·3	357·7	+49·6	77·4	24	18	+2·0	3·6	3·2	..	0	22	0	0	1	0	0	0	0	0	0
Burdwan	32·3	+0·5	34·5	4days	(m) 26·9	..	..	..	163·1	332·9	+30·1	81·5	21	18	+1·8	11·4	10.5	+6·8	0	21	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	32·4	..	75·2	4	26.0	..	22.2	12	104·5	172·2	..	26·0	27	18	..	..	..	..	0	20	0	0	8	0	0	0	0	0	0

(a) Mean of 30 days. (e) Mean of 26 days. (d) Total for 27 days. (h) Mean of 23 days. (g) Mean of 24 days. (m) Mean of 18 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum)	32·1	+0·3	34·2	3,14	26·2	+0·1	24·0	16	91·8	216·5	—62·3	59·7	25	16	—2·3	12·5	10·2	+0·2	0	22	0	0	13	0	0	0	0	0	0
Calcutta	32·2	+0·5	34·5	4	26·2	+0·5	24·6	26	123·5	289·7	—38·5	87·5	27	17	—1·0	13·2	8·1	+2·6	1	23	0	0	10	0	0	0	0	1	0
Midnapore	31·6	—0·2	34·6	4	25·8	0	22·9	16	121·1	184·5	—139·4	44·4	23	16	—0·8	7·8	5·8	+2·3	0	19	0	0	2	0	0	0	0	0	0
Contai	31·4	+0·3	35·1	4	26·0	—0·1	23.3	16	71·8	225·0	—141·9	45·0	21	12	—4·2	15·7	11·9	+1·3	0	16	0	0	0	0	0	0	0	0	0
Sagar Island	30·4	—0·1	32·6	5,10	26·7	—0·3	24·5	16,17	41·5	160·3	—177·0	24·6	5	14	—2·3	27·5	25·9	+8·8	0	21	0	0	6	0	0	0	0	0	0
Sandheads	30.7	..	32·6	30	25·8	..	21·3	16	67·6	138·2	—86·3	32·5	14	10	—2·0	..	..	..	2	18	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	32·2	..	35·3	4	24·8	..	21·9	16	176·5	345·8	..	110·4	22	15	..	5·2	3·7	..	0	24	0	0	18	0	0	0	0	0	0
Jharsuguda	30·7	—0·2	34·4	5	24·4	—0·3	21·9	17	154·6	336·3	—99·5	80·7	25	18	+1·0	11·7	9·4	+0·6	1	20	0	0	14	0	0	0	0	0	0
Keonjhargarh	29·2	..	32·2	2,3	23·5	..	21·1	16	261·6	529·6	..	62·0	24	16	..	10·1	8·4	..	0	21	0	0	0	0	0	0	0	0	0
Balasore	31·6	+0·3	34·6	4	24·4	—1·4	21·6	16	(a) 281·2	663·4	+364·7	112·3	16	17	+2·2	(a) 14·0	11·6	+5·8	0	21	0	0	12	0	0	0	0	0	0
Sambalpur	31·0	+0·6	35·1	4	20·3	—4·6	16·8	17,18	251·9	613·8	+130·2	102·5	23	19	+0·1	..	..	..	0	22	0	0	0	0	0	0	0	0	0
Angul	30·8	—0·1	33·9	4,12	24·8	—0.1	21·8	17	165·0	348·2	+54·6	62·4	23	16	+0·9	10·6	7·9	0	0	20	0	0	2	0	0	0	0	0	0
Cuttack	31·5	—0·2	35·2	4	25·3	—0·3	22·9	16	120·6	407·2	+66·8	70·2	11	17	+1·2	9·3	6·7	+3·2	0	27	0	0	4	0	0	0	0	0	0
Chandbali	31·2	—0·1	34·4	2,4	24·7	—1·1	22·5	17,23	102·0	493·0	+120·4	109·4	23	19	+3·2	13·1	11·9	+1·3	0	21	0	0	1	0	0	0	0	0	0
Bolangir	30·3	..	34·4	3,31	23·6	..	20·8	16,17	201·0	488·6	..	57·4	16	19	..	7·5	8·5	..	0	23	0	0	6	0	0	0	0	0	0
Phulbani	28·3	..	32·2	31	22·9	..	20·6	17	183·2	470·4	..	165·2	11	19	..	7·5	4·6	..	1	25	0	0	1	0	0	0	0	0	0
Titlagarh	30·6	..	35·0	3	23·9	..	20·6	18	367·4	689·2	..	134·4	11	21	..	5·5	4·3	..	0	24	0	0	3	0	0	0	0	0	0
Bhubaneswar	30·9	—0·4	34·4	4,5	24·8	—0·6	23·1	16	176·4	345·5	+9·5	61·6	10	16	—1·3	17·5	13·8	—0·1	1	23	0	0	11	0	0	0	0	0	0
Puri	30·9	0	35·3	4	24·9	—1·5	22·9	28	92·0	344·9	+67·5	116·2	11	16	+3·1	24·5	20·8	+4·9	0	17	0	0	2	0	0	0	0	0	0
Gopalpur	31·2	+0·2	34·9	4	25·2	—0·8	23·3	16	270·4	452·7	+257·1	75·8	7	16	+5·2	18·6	14·5	+2·1	0	19	0	0	12	0	0	0	0	0	0
Koraput (R)		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																													
Dumka	31·8	+0·4	34·9	3	25·4	+0·1	23·6	16,17	85·0	231·0	—97·7	34·4	14	17	—0·6	14·3	8·7	+5·3	1	20	0	0	1	0	0	0	0	0	0
Daltonganj	32·5	+1·0	35·0	11	25·2	+0·3	23·4	22	168·0	460·3	—117·2	155·3	19	19	+2·6	5·8	5·6	+0·3	0	19	0	0	14	0	0	0	0	0	0
Hazaribagh	29·1	+0·2	32·2	4	23·2	+0·3	21·9	17	..	..	..	..	..	..	..	11·4	9·9	+0·4	..	..	0	0	11	2	0	0	0	0	0
Dhanbad	30·9	..	34·7	4	25·0	..	23·0	16,17	132·1	296·9	..	48·0	1	20	..	(f) 3·7	(g) 5·1	..	0	22	0	0	9	0	0	0	0	0	0
Ranchi	30·4	+1·9	31·7	31	20·0	—2·7	19·7	17,19	185·4	441·2	+89·7	47·0	4	23	+4·4	(a) 8·1	(b) 6·4	—1·0	0	23	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	28·4	..	32·5	4	22·3	..	20·4	17	190·2	399·6	..	85·8	24	18	..	14·5	12·2	..	0	22	0	0	16	0	0	0	0	0	0
Jamshedpur	31·9	+0·3	35·4	4	24·4	—1·2	21·7	17	122·0	266·9	—124·5	49·3	22	16	—2·0	8·5	6·4	0	0	23	0	0	5	0	0	0	0	0	0
Jamshedpur (P.B.O.)	31·6	..	34·4	5	25·3	..	23·0	17	142·0	284·6	..	66·6	22	17	..	9·1	6·9	..	0	25	0	0	13	0	0	0	0	0	0
Chaibasa	30·9	—0·4	34·5	5	24·2	—0·7	21·6	16	110·0	305·2	—5·7	113·6	22	16	—0·6	5·7	3·9	+0·5	1	20	0	0	5	0	0	0	0	0	0
Bihar Plains																													
Motihari	32·7	+0·8	36·5	11	25·9	+0.2	23·4	31	103·2	248·0	—81·4	67·3	31	14	+0.8	5·4	3·4	—2·7	0	16	0	0	3	0	0	0	0	0	0
Forbesganj	32·4	..	36·8	11	26·2	..	24·1	4,5	44·2	162·1	..	53·8	4	12	..	11·8	8·5	..	0	20	0	0	10	0	0	0	0	0	0
Darbhanga	32·6	+0·9	36·7	11	26.6	+0·4	23·6	17	45·6	140·4	—202·7	36·4	21	13	—0·8	9·7	7·5	+2·4	0	17	0	0	2	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	61·0	—258·0	15·4	23	7	—6·6	..	..	..	1	15	0	0	0	0	0	0	0	0	0
Chapra	32·9	..	36·4	11	26·4	..	24·1	11,31	101·8	139·1	—14·4	31·6	31	11	—2.4	11·1	6·5	..	0	15	0	0	2	0	1	0	0	0	0
Purnea	31·9	+0·2	35·0	10	25·6	—0·2	23·2	27	42·6	237·6	—96·4	62·8	27	12	—4·2	10·6	7·0	+3·3	0	17	0	0	1	0	0	0	0	0	0
Patna	33·0	+1·3	37·2	10	27·0	+0·5	24·4	1	65·6	147·1	—185·4	26·6	29	12	—1·9	9·4	8·9	+2·6	1	18	0	0	2	0	0	0	0	0	0
Patna Aerodrome	32·5	..	35·6	11	25·6	..	23·9	1	106·0	131.7	..	43·7	20	12	..	..	..	..	0	17	0	0	12	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	62·8	—256·5	19·3	20	6	—8·6	..	..	..	1	14	0	0	0	0	0	0	0	0	0
Bhagalpur	33·0	+0·7	36·0	10	26·3	0	24·6	17	16·8	74·8	—176·1	24·7	22	7	—6·7	10·4	7·5	+1·5	1	13	0	0	10	0	0	0	0	0	0
Sabaur	32·2	+0·5	35·6	10	25·9	—0·3	24·0	18	32·8	87·8	—179·1	17·0	11	8	—7·0	12·9	9·5	+0·5	2	12	0	0	11	0	0	0	0	0	0
Jamui	32·5	..	36·9	11	26·3	..	23·3	1	47·4	170·1	..	572·4	14	11	..	(a) 6·8	(a) 5·3	..	0	12	0	0	0	0	0	0	0	0	0
Dehri	32·5	..	35·8	4,11	26·4	..	22·5	1	58·3	148·5	—187·3	30·1	15	14	—0·6	6·5	5·1	..	0	16	0	0	8	0	0	0	0	0	0
Gaya	33·1	+0·9	36·2	11	26·3	+0·6	24.9	23	60·0	108·2	—241·1	20·1	23	9	—6·7	14·2	11·3	+2·8	1	13	0	0	13	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri	33·6	+1·5	36·8	11	26·2	+0·5	23·5	1	12·3	210·4	—94·1	49·0	2	7	—6·4	6·4	3·9	+0·7	0	13	0	0	8	0	0	0	0	0	0
Baharaich	33·2	+0·9	35·4	23	26·4	+0·6	24·1	2	2·8	124·5	—200·4	58·4	2	7	—5·5	11·3	6·9	+3·4	1	9	0	0	8	0	0	0	0	0	0
Nautanwa	33·1	..	37·0	11	23·6	..	21·0	23	125·0	458·6	..	150·0	23	12	..	7·6	6·9	..	0	16	0	0	0	0	0	0	0	0	0
Hardoi	33·9	+1·4	73·6	11	25·1	—1·0	22·0	1	46·9	145·9	—178·2	43·6	15	6	—7·2	7·6	7·0	+1·5	1	8	0	0	1	0	0	0	0	0	0
Gonda	33·2	+1·1	37·0	11	25·7	—0·1	23·1	31	10·2	130·6	—266·9	80·2	2	6	—7·5	7·3	6·3	+0·5	0	6	0	0	0	0	0	0	0	0	0

(a) Total or Mean of 30 days. (g) Mean of 24 days. (b) Mean of 29 days. (R) Register not received. (f) Mean of 25 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5) mm. or more		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East) —*Contd.*																													
Lucknow	34.5	+2·0	37.9	11	24·3	—1·6	21.4	1	6.4	41.0	—251.1	10.2	21	6	—7.7	5.2	4·4	+1·3	0	11	0	0	0	0	0	0	0	0	0
Lucknow Amausi	33.6	+1·1	36·7	11	25·3	—0·1	23·0	31	16.2	284.0	—8.1	146.8	10, 11	8	—5·7	14·5	10·8	..	0	15	0	0	10	0	0	0	0	0	0
Faizabad	33.4	..	36·4	11	25·9	..	24·4	31	60.3	140.8	..	52.4	1	9	..	5·0	3·0	..	0	14	0	0	9	0	0	0	0	0	0
Gorakhpur	33.6	+1·6	37·0	11	24·8	—1·1	22·5	1,24	99.9	221.5	—127·8	86.4	31	9	—5·9	4.5	2.3	—0.9	0	13	0	0	0	0	0	0	0	0	0
Kanpur	33.8	+1·7	37·3	11	26·4	+0.5	25·1	13	44.4	94.8	—189.7	19.8	23	8	—5·3	13·6	10·1	—0.2	0	13	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	34.3	..	37·5	11	26·8	..	25·4	13	28.6	63.0	..	15.8	27	8	..	..	..	..	0	14	0	0	6	0	0	0	0	1	0
Sultanpur	33.6	..	36·2	11	24·9	..	23·9	25	66.2	152.8	..	63.2	31	8	..	9·1	6·7	..	0	8	0	0	10	0	0	0	0	0	0
Azamgarh	32.9	..	36·1	11	25·9	..	23·3	1	..	..	..	..	..	..	..	..	..	..	..	..	0	0	4	0	0	0	0	0	0
Fatehpur	33·7	+1·6	36·6	11	25·8	0	23·7	5	32.8	101.3	—153·5	41.8	5	9	—5·4	7·5	5·4	+0·3	1	13	0	0	1	0	0	0	0	0	0
Ballia	32·8	..	35·0	4	25·7	..	18·6	1	70 4	243·8	..	90.8	31	10	..	7·9	4·8	..	0	11	0	0	1	0	0	0	0	0	0
Banda	34·1	..	39·0	11	26·0	..	22·7	28	53.2	340.2	..	141.0	28	17	..	4·9	3·4	..	0	18	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	33·5	+1·6	37·2	5,11	25·6	—0·2	23·7	23	138.0	255.3	+0·5	67.9	31	13	—1·7	8·1	6·2	—0·7	1	19	0	0	10	0	0	0	0	0	0
Varanasi (Babatpur)	33·2	+1.0	36·1	11	26·0	—0.1	24·4	28	64·2	130·3	—110.0	38·2	28	10	—2·2	8·7	6·3	—2.8	0	16	0	0	10	0	0	0	0	0	0
Varanasi	33·5	+1·5	37·9	11	24·8	—1·0	22·5	28	52.1	190.1	—115·0	59.8	28	13	—1·9	8·5	6·8	+1·7	0	15	0	0	0	0	0	0	0	0	0
Uttar Pradesh West																													
Mukhim	23·0	..	25·5	4,27,28	17.0	..	16.1	19	59·8	276.7	..	36·5	10	18	..	..	..	..	0	28	0	0	4	21	0	0	0	0	0
Tehri	32·3	..	35·6	4	23·3	..	22·0	10	35·6	230·0	..	46·4	15	17	..	3·3	2.2	..	0	18	0	0	0	0	0	0	0	0	0
Dehra Dun	29·8	+0·6	32·6	8	21·9	—0·8	20·4	27	193·9	764·5	+33·2	109·8	29	24	+2·7	3·5	2·4	+0·1	2	26	0	0	20	0	0	0	0	0	0
Mansiari	20·8	..	22·7	14,28	15·7	..	1·7	18	..	754·9	..	57·4	30	27	..	..	..	..	0	31	0	0	0	0	0	0	0	0	0
Roorkee	32·2	+0·1	35·4	5	23·6	—1·5	21·0	8	97.6	342 0	+57·0	109.2	31	14	+2·2	7·3	4·6	+1·4	0	19	0	0	6	0	0	0	0	0	0
Najibabad	33·5	..	37·0	5	23.5	..	21·1	12	162.5	248·9	..	53·6	12	16	..	6·1	6·8	..	0	16	0	0	11	0	0	0	0	0	0
Meerut	32·9	+0·1	36·0	5	24·8	—0·9	22.8	24	..	458.6	+235·1	171.2	15	12	+2·2	..	6·5	..	0	13	0	0	0	0	0	0	0	0	0
Bareilly	33·9	+1.6	35·7	4,5,30	26·3	+0·6	23·2	1	38.0	140.0	—154·8	29.0	16	7	—5·3	10·2	6·8	+3·9	0	13	0	0	6	0	0	0	0	0	0
Aligarh	33·2	+0·1	37·5	5	26·6	+0·9	24·5	15	87.0	294.0	+92·6	183.7	15	7	—2·4	11·3	8·3	+1·7	0	11	0	0	1	0	0	0	0	0	0
Mainpuri	34·3	+1·1	38·4	1	..	..	..	..	55.8	96.8	—133.1	45.2	17	5	—5·5	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Agra	34·2	+1·2	38·5	4	26·4	+0·3	24·9	26	154.4	305.4	+99.4	76.1	18	12	+1·7	5·0	3·6	—2·4	0	12	0	0	0	0	0	0	0	0	0
Agra(Aerodrome)	34·2	..	37 2	4	26·2	..	24·3	21	78.8	172.4	..	39.4	15	12	..	..	..	..	0	14	0	0	6	0	0	0	0	0	0
Orai (R)																													
Jhansi	32·9	+1·1	38·0	5	24.9	0	23·2	29	88.8	222.0	—72·4	42.0	26	11	—2·3	6·8	6·5	+0·9	0	13	0	0	0	0	0	0	0	0	0
Punjab (India) (including Delhi)																													
Pathankot	32·6	+0·1	36·5	4.5	23·9	—0·1	21·4	28	170·5	370.4	—65·4	164·4	15	11	—3·6	..	..	..	0	13	0	0	0	2	0	0	0	0	0
Amritsar (Rajasansi)	34·2	0	40·7	4	26.2	+0·7	24·1	18	145·2	192·0	+38·9	64·8	21	10	+2·3	10·7	8·6	—0·2	0	13	0	0	10	0	0	0	0	0	0
Adampur Aerodrome	34·4	.	37·5	5	25·6	..	21·7	31	1·8	302·2	..	59·0	11	12	..	..	..	..	0	13	0	0	19	0	0	0	0	0	0
Ludhiana	34·4	—0·5	38·4	6	25·6	—0·6	22·4	31	149·6	285.0	+116·1	60·0	34	12	+4·7	2·7	3·2	+0·8	0	15	0	0	4	0	0	0	0	0	0
Ferozepore	34·3	..	38·6	7	26·2	..	24·0	18,19	92·0	302.0	..	190·0	18	7	..	3·0	2·5	..	0	7	0	0	0	1	0	0	0	0	0
Halwara Aerodrome	33·6	..	37·0	5	25.8	..	23·9	24	219·9	351.9	..	96·2	16	8	..	..	..	..	0	10	0	0	16	0	0	0	1	0	0
Chandigarh	33·2	+0·4	6·0	6,7	25.7	+2·2	22·9	24	129.6	199.6	—63·7	38·1	25	11	—0·6	..	..	..	0	13	0	0	0	0	0	0	0	0	0
Ambala	33·9	—0·1	37·4	6	25·3	—0·3	23·3	24	173·9	343·0	+142·6	91·2	15	11	+2·0	7·4	6·7	+3 0	0	13	0	0	5	0	0	0	0	0	0
Ambala (Aerodrome)	33·0	..	36·4	6	25·5	..	23·4	27	147.7	469·9	..	197·0	9	11	..	..	..	..	0	13	0	0	14	0	0	0	0	0	0
Patiala	33·8	..	37·2	6	26·2	..	23·7	*24,25	81·2	176·6	—68·8	72·0	15	8	—1.2	8·0	6·2	..	0	11	0	0	5	0	0	0	0	0	0
Bhatinda	35·8	..	39·4	6	25·7	..	23·9	27	63.2	258.8	..	181.4	18	5	..	4·6	3·1	..	0	6	0	0	0	0	0	0	0	0	0
Karnal	32·9	..	36·5	7	25·3	..	23.0	17	118·0	270.0	..	122·0	24	5	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Hissar	34·7	—1·0	38·6	6	26·3	+0·2	24·5	22	24·3	64.3	—59·4	19·8	22	8	+2·5	9·4	7·5	—0·4	0	10	0	0	4	0	0	0	0	0	0
New Delhi (Safdarjung)	33·6	0	38·0	5	25·2	—0·9	22·5	24	116.7	446.3	+262·7	134.8	15	13	+4·0	12·0	8·5	—0·4	1	14	0	0	7	0	0	0	0	0	0
Palam Aerodrome	33·7	..	38·0	5	25·7	..	23·3	23	150.1	346.6	..	134.5	15	11	..	..	..	..	0	16	0	0	9	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	32·0	+1·4	33·9	12	16·8	—4·6	14·6	27	103·1	467·8	—31·5	116·8	5	23	+3·4	2·6	1·9	—0·3	0	28	0	0	3	0	0	0	0	0	0
Bilaspur	31.2	..	34.0	5	17·1	..	13.9	30	77·1	272·9	..	56·0	15	15	..	2·4	2·0	..	0	17	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Precipitation (0·2mm and 0·2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																														
Misgar (R)																														
Gilgit (R)																														
Skardu (R)																														
Dras (R)																														
Sonatmarg	..	..	..	..	..	..	..		..	22·2	−69·7	11·1	17, 22	2	−7·0	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Leh	26·3	+1·9	26·6	4 days	8·2	−1·6	5·5	1	2·4	19·2	+4·2	12·0	21	2	+0·1	4·5	5·3	+2·6	0	3	0	0	0	0	0	0	0	0	0
Srinagar	30·0	−0·5	34·4	15	18·6	+1·2	16·2	26	21·8	38·0	−23·5	16·5	22	5	−0·3	5·2	4·1	+0·4	0	7	0	0	2	0	0	0	0	0	0
Srinagar (Aerodrome)	28·5	..	32·0	15	18·7	..	16·[illegible]	26	20·1	27·8	..	10·2	22	4	..	..	..	..	0	6	0	0	4	0	0	0	0	0	0
Gulmarg	20·6	+0·[illegible]	23·2	9	9·8	−1·1	6·7	2	84·8	117·8	−0·1	46·2	16	7	−2·9	7·3	4·2	−0·1	0	9	0	0	4	3	0	0	0	0	0
Qazigund	27·8	..	30·5	15	17·1	..	14·7	27	32·8	66·5	..	18·5	20	6	..	5·3	4·1	..	0	8	0	0	8	0	0	0	0	0	0
Banihal	27·8	..	30·0	5	18·3	..	14·4	2	34·3	61·4	..	13·2	18	7	..	..	..	..	0	9	0	0	2	0	0	0	0	0	0
Jammu	33·8	+0·6	37·3	5	25·1	−0·3	21·9	24	139·6	334·0	+34·5	106·0	24	12	+0·4	5·4	4·9	..	0	14	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	33·5	..	36·6	5	26·5	..	22·8	10, 24, 31	147·5	395·3	..	96·6	24	13	..	..	..	..	0	14	0		14	0	0	0	0	0	0
Rajasthan (West)																														
Ganganagar	36·5	−0·9	41·6	10	26·2	−1·1	23·2	22	42·0	107·0	+37·5	56·7	27	5	+0·4	6·9	5·5	−0·6	0	6	0	0	6	0	0	0	0	0	0
Anupgarh (R)																														
Mahajan	37·6	..	41·5	9	28·5	.	25·3	1	..	..	..	..	..	..	..	12·6	8·1	..	..	..	0	0	0	0	0	0	0	0	0
Churu	34·7	.	40·3	7	26·1		23·9	23	143·5	333·3	..	99·0	10	9	..	12·0	11·0	..	0	10	0	0	10	0	0	0	0	0	0
Bikaner	35·5	−0·9	41·7	8	26·5	−0·4	23·7	24	79·3	141·7	+50·3	38·2	28	8	+3·1	9·0	7·6	−2·5	0	12	0	0	7	0	0	0	0	0	0
Nagaur	33·3	..	40·3	7	25·1		21·6	23,24	137·8	323·0	..	84·2	18	13	..	10·4	9·0	..	0	14	0	0	1	0	0	0	0	0	0
Phalodi	36·0	..	41·8	8	24·9	..	23·0	16	90·7	156·9	+73·6	62·0	28	7	+2·1	18·9	15·6	..	0	7	0	0	4	0	1	0	0	0	0
Jaisalmer	36·8	..	42·5	8,9	26·2		22·3	4	15·2	32·6	..	13·4	14	3	..	17·7	17·2	..	0	3	0	0	0	0	0	0	0	0	0
Jodhpur	33·7	+0·5	40·7	7	25·9	+0·9	23·5	16	55·3	181·5	+59·6	92·9	18	6	+0·1	13·2	10·5	−4·1	1	13	0	0	5	0	0	0	0	0	0
Barmer	34·8	+1·2	40·0	9	25·3	+0·4	22·5	16	88·9	134·1	+0·2	60·6	27	7	+1·2	7·0	5·5	−4·8	0	11	0	0	5	0	0	0	0	0	0
Erinpura (Jawai Dam).	31·9	..	35·6	6	26·5		21·5	15	98·4	233·7	..	80·8	13	7	..	4·9	5·3	..	1	12	0	0	0	0	0	0	0	0	0
Munabao (R)																														
Rajasthan (East)																														
Pilani (R)																														
Sikar	32·6	..	38·6	7	24·4	..	20·0	1	328·0	471·3	..	184·4	25	9	..	10·0	7·0	..	0	13	0	0	0	0	0	0	0	0	0
Alwar	33·6	..	37·8	6	26·7	..	24·2	25	181·5	399·9	..	83·8	25	16	..	4·0	2·3	..	1	19	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer)	32·3	−0·4	38·0	6	24·7	+0·3	22·7	74	185·8	373·7	+169·0	125·2	24	11	+0·8	..	..	..	0	18	0	0	8	0	0	0	0	0	0
Dholpur	34·4	..	39·8	4	26·2	..	24·7	4 days	96·5	178·3	..	33·6	17	11	..	6·7	5·2	..	0	15	0	0	9	0	0	0	0	0	0
Ajmer	31·3	+0·4	37·4	9,10	24·8	+0·4	22·4	16	103·3	248·1	+76·6	64·2	22	13	+4·6	11·6	10·1	+1·9	1	15	0	0	6	0	0	0	0	0	0
Tonk	33·6	..	39·0	10	25·4	..	22·3	24	116·2	338·1	..	91·0	27	13	..	9·0	9·0	..	0	17	0	0	17	0	0	0	0	0	0
Bhilwara	31·7	..	36·5	9	33·9	..	22·4	17	127·7	231·9	..	39·5	22	14	..	10·1	9·1	..	0	18	0	0	5	0	0	0	0	0	0
Kota (Aerodrome)	32·6	..	38·0	6	25·1	..	22·7	24	149·9	278·9	..	64·0	22	14	..	14·3	12·3	..	2	18	0	0	10	0	1	0	0	0	0
Kota	32·4	+0·4	37·6	6	25·3	−0·1	23·2	24	85·5	139·5	−105·9	32·0	21	9	−1·4	11·5	9·3	+3·8	1	11	0	0	2	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam).	1·53	..	35·9	3,6	24·5	..	22·6	16,17	163·2	228·6	..	30·4	9	15	..	10·0	7·6	..	0	18	0	0	1	0	0	0	0	0	0
Udaipur	29·8	+0·1	34·5	7	23·4	+0·2	21·8	16,17	35·7	170·4	−7·7	44·0	11	6	−2·6	4·7	3·0	..	2	13	0	0	8	0	0	0	0	0	0
Jhalawar	31·3	+0·7	37·3	4	25·0	+1·1	23·1	28	215·4	369·2	+76·9	78·3	26	13	+0·2	9·0	8·1	+1·8	0	15	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	33·1	+1·2	38·5	4	26·1	+0·8	23·6	26	167·2	352·3	+121·9	107·5	16	11	−1·7	11·1	7·3	..	1	16	0	0	19	0	0	0	0	0	0
Sheopur	31·9	+0·6	38·0	6	25·0	+0·3	23·1	24	232·6	393·4	+43·4	66·4	24	14	−1·9	11·0	8·3	+1·7	0	16	0	0	6	0	0	0	0	0	0
Shivpuri	30·7	..	35·6	8	22·1	..	21·0	4 days	130·6	317·8	..	63·8	27	11	..	10·7	9·0	..	0	13	0	0	0	0	0	0	0	0	0
Nowgong	32·9	+1·7	37·1	4,5	24·9	0	23·4	17	122·4	220·6	−111·9	43·7	26	16	+2·1	8·7	7·0	+3·0	0	20	0	0	10	0	0	0	0	0	0
Guna	30·3	+0·7	35·2	3,4,5	23·4	+0·3	21·9	15	192·1	386·4	−6·0	81·4	21	18	+4·4	15·2	12·4	..	0	21	0	0	11	0	0	0	0	0	0
Nimach	29·7	+0·4	35·1	6	23·4	+0·7	22·1	28	117·2	224·8	−7·6	63·2	27	8	−2·0	14·9	13·6	+0·9	0	14	0	0	6	0	0	0	0	0	0
Rajgarh	30·5	..	35·7	5	23·7	..	22·0	16	182·2	289·9	..	87·6	21	10	..	13·4	10·6	..	0	12	0	0	0	0	0	0	0	0	0
Sagar	28·6	0	33·5	3,9	22·8	+0·7	21·3	17	122·4	453·0	+95·6	129·0	15	16	+0·4	12·5	11·1	..	1	20	0	0	3	0	0	0	0	0	0
Ratlam	28·5	+0·1	33·7	3	22·3	−0·2	20·4	15	77·4	241·8	+23·0	36·4	7	15	+1·7	14·1	10·9	+1·0	0	20	0	0	3	0	0	0	0	0	0
Bhopal (Bairagarh)	29·0	+0·3	34·6	8	21·8	−0·8	20·3	15,21	279·1	419·8	+141·9	89·1	9	21	+6·2	19·2	17·2	+5·8	0	22	0	0	8	0	0	0	0	0	0

(R)—Register not received. (c). Mean for 28 days.

Sub-Division and Station	Air Temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—*Contd.*																														
Ujjain . .	29·1	..	34·6	3	24·4	..	22·1	17	52·7	134.3	..	33.0	13	12	..	18·7	16·0	..	0	17	0	0	3	0	0	0	0	0	0
Narsinghpur .	29·3	..	34·0	3,4	22·6	..	21·0	17	172·0	394·0	..	82.0	12	17	..	8·0	6·0	..	0	17	0	0	0	0	0	0	0	0	0
Hoshangabad	29·9	+0·7	33·9	2,7	23·4	−0·2	21·0	16	265.6	571.8	+189·3	98.6	9	22	+6·3	9·9	7·4	+2·6	0	24	0	0	10	0	0	0	0	0	0
Indore . .	28·3	+0·2	33·0	3	22·1	+0·3	20·6	28,29	64.2	187·0	−20·0	33.8	7	12	+0·7	22·8	21·1	..	0	19	0	0	5	0	0	0	0	0	0
Rajpur (Jhabua)	29·4	..	34·0	3	23·1	..	21.4	16	102·2	200.2	..	35.8	17	18	..	12·3	10·8	..	0	21	0	0	1	0	0	0	0	0	0
Chhindwara .	27·5	−0·3	31·6	7	22·1	+0·2	20·4	17	197.7	412.1	+148·4	88.1	11	18	+4·4	12·9	9·4	+1·3	3	24	0	0	10	0	0	0	0	0	0
Seoni . .	28·3	+0·1	31·4	4	22·4	+0·5	20·8	17	310.9	524·0	+185·9	66.2	2	21	+4·5	11·0	7·9	+1·8	0	29	0	0	11	0	0	0	0	0	0
Betul . .	26·7	−0·4	31·1	2	21·7	−0·2	20.6	17	111·8	331.6	+62·6	65.0	12	20	+5·3	9·3	7·7	−0·1	0	22	0	0	4	0	0	0	0	0	0
Khandwa .	29·8	−0·1	33·2	1	23·3	0	21·9	17,27	34.8	192.6	+33·9	31.8	17	15	+5·1	18·3	12.3	+1·4	0	20	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																														
Satna . .	31·4	+1·4	35·3	4	24·7	+0·1	22·7	9·	196.4	432·9	+97·6	102·1	24	16	+0·9	6·7	6·3	−0·6	0	20	0	0	17	0	0	0	0	0	0
Sidhi . .	32·5	..	35·5	11	25·2	..	24·0	15,28	190.6	265·2	..	38.2	24	19	..	7·6	5·2	..	0	21	0	0	0	0	0	0	0	0	0
Umaria. .	30·2	+0·8	34·4	4	24·0	+0·4	21·8	16	133.0	403·0	+69·8	100.2	25	14	−2·0	8·2	5·9	−0·4	0	19	0	0	0	0	0	0	0	0	0
Jabalpur .	29·9	+0·7	33·9	8	24·0	+0·9	22·0	17	124·7	319.8	−111·2	56·3	26	18	+0·6	10·2	8·7	+3·7	2	25	0	0	10	0	0	0	0	0	0
Ambikapur .	29·6	+0·4	32·7	6	23·1	+0·2	21·3	17	198.4	448·9	−15·8	99.7	24	16	−3·4	9·4	7·3	−1·2	0	26	0	0	4	0	0	0	0	0	0
Pendra . .	28·6	+0·7	32·3	11	22·7	+0·5	21·5	16,25	171.4	433.4	+69·7	56.7	11	18	−0·4	9·6	7·6	..	2	25	0	0	22	0	0	0	0	0	0
Mandla .	29·3	+0·1	33·2	31	33·0	−0·1	21·5	26	155·0	579·0	+151·8	105.5	12	23	+4·4	7·0	4·5	+0·8	0	25	0	0	11	0	0	0	0	0	0
Champa .	30·8	0	34·3	6	23·8	−1·1	21·5	17	248·8	488.4	−12·2	115.0	12	17	−2·3	10·6	9·6	+1·4	1	23	0	0	11	0	0	0	0	0	0
Raigarh. .	30·7	−0·3	34·0	4.6.7	24·3	−0·6	22·0	17	308·8	648.3	+140·6	107.2	25	20	+1·1	7·9	6·3	−0·2	0	23	0	0	4	0	0	0	0	0	0
Raipur . .	29·6	−0·3	32·9	6	23·7	−0·1	20·9	16	246.4	567.2	+203·5	93.0	12	23	+7·5	13·3	11·6	−0·3	1	25	0	0	9	0	0	0	0	0	0
Kanker . .	28·0	−1·1	32·0	3	23·7	+0·5	21·3	17	323·1	611·2	+300·3	129.0	7	16	+0·8	15·5	11.4	+3·4	0	18	0	0	3	0	0	0	0	0	0
Jagdalpur .	27·0	−1·3	31·2	31	22·1	+0·1	19·0	16	225·3	479.1	+65·6	123.5	6	25	+6·1	9·5	7·1	..	1	29	0	0	7	1	0	0	0	0	0
Gujarat Region																														
Deesa . .	32·2	..	37·4	7	23·9	..	22·2	19	79.7	201.1	..	55.6	17	11	..	(a) 10·9	9·6	..	1	15	0	0	0	0	0	0	0	0	0
Radhanpur .	35·7	..	38·6	9	17.4	..	15.7	16	..	..	..	..	..	..	..	5·5	9·1	..	..	..	0	0	0	0	0	0	0	0	0
Idar . .	30·1	..	35·3	7	23·7	..	22·3	17	109.0	322.0	..	96.8	13	18	..	8·6	6·2	..	0	18	0	0	1	0	0	0	0	0	0
Ahmedabad .	31·6	−0·5	35·3	7	24·9	+0·5	23·4	17	51.5	98.8	−105·7	21·3	18	11	0	6·9	6.8	−1·6	4	17	0	0	0	0	0	0	0	0	0
Dohad . .	28·9	−0·2	34·0	3	23·3	0	22·1	24	41·2	178.8	−26·8	40.1	18	13	+0·8	19·6	19·5	−2·6	1	23	0	0	4	0	0	0	0	0	0
Vallabh Vidyanagar .	31·5	..	35·2	3	25·2	..	23.8	16	82.1	203·3	..	48.1	13	11	..	10·5	8·6	..	0	20	0	0	0	0	0	0	0	0	0
Baroda Aerodrome .	31·0	..	35·4	3	24·8	..	22·8	16	147.3	215.6	..	45.3	11	14	..	12·8	11·4	..	1	20	0	0	0	0	0	0	0	0	0
Baroda . .	31·3	−0·3	36·0	3	25·2	+0·3	22·9	16	89·5	163.3	−100·6	24.0	13, 16	15	+3·3	4·8	2·7	−4·3	0	20	0	0	1	0	0	0	0	0	0
Broach . .	30·4	−0·7	34·4	1	24·8	−0·3	23·3	17	159.0	288.0	+59·7	89·0	13	16	+3·8	6·9	5·7	−4·3	2	22	0	0	0	0	0	0	0	0	0
Surat . .	30·0	−0·3	33·0	2,3	25·1	+0·1	24·0	17,25	501·1	830.0	+640·8	324.6	13	23	+10·6	11·6	12·1	+2·6	0	28	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Naliya	31.1	..	35·6	7	25·3	..	23·6	8	125.0	248.6	..	85.2	10	8	..	20·6	17·0	..	0	10	0	0	5	0	0	0	0	0	0
Bhuj (Rudramata) .	32·5	+0·7	37·4	7	25·2	+0·3	23·6	31	65.1	136.1	+61.7	60·6	13	6	+2·3	18·2	15·6	−3·1	0	13	0	0	7	0	0	0	0	0	0
Kandla Aerodrome .	32·9	..	37·4	7	24·5	..	..	..	28.0	168·4	..	76·0	13	8	..	26·3	22·7	..	0	12	0	0	4	0	0	0	0	0	0
New Kandla .	32·0	..	37·2	7	26·0	..	24.1	16	19·5	154·7	..	83·8	13	7	..	26·1	24·3	..	0	13	0	0	5	0	0	0	0	0	0
Mandvi .	31·3	+1·0	35·0	8	26·6	+0·5	25·0	28	71·7	138.5	+64·1	52.0	28	7	+2·2	30·0	30·7	−2·4	0	9	0	0	0	0	0	0	0	0	0
Surendranagar	32.7	+0·2	36·8	7	25·3	+0·5	23.4	17	104.4	148.6	−24·8	50·2	30	9	+2·1	13·9	13·4	−3·4	0	12	0	0	3	0	0	0	0	0	0
Okha . .	30·2	..	32·1	9	25·7	..	23·4	28	82.7	125.8	..	71.1	28	5	..	23·8	22·7	..	2	14	0	0	2	0	0	0	0	0	0
Jamnagar Aerodrome) .	30·6	−0·8	34·7	7	24·8	−0·6	23.2	31	166.5	227·9	+130·1	97·8	13	9	+3·8	..	..	..	1	12	0	0	4	0	0	0	0	0	0
Dwarka .	30·1	+0·8	33·4	9	26·2	+0·3	24·2	14,17	64.6	130.4	+64·9	45·0	28	8	+4·2	22·5	23·4	+3·1	0	12	0	0	0	0	0	0	0	0	0
Rajkot . .	30·9	−0·2	35·6	7	23·9	+0·2	22·8	31	139.7	275.4	+64·9	69·6	12	11	+1·8	22·9	19·7	−3·5	1	15	0	0	4	0	0	0	0	0	0
Bhaunagar Aerodrome .	31·9	−0·8	34·3	3	25·4	+0·4	24·0	13,17	81.7	103.7	−31·7	37·6	31	10	+2·7	25.1	21·1	+3·9	1	15	0	0	0	0	0	0	0	0	0
Porbander Aerodrome .	30·0	+0·7	32·6	7	25·8	+0·2	24·4	16	87.7	191.6	+42·3	37·8	10	10	+1·5	21·2	18·5	..	0	18	0	0	3	0	0	0	0	0	0
Keshod . .	29·3	..	33·4	7	24·3	..	22·3	31	218·8	562·0	..	186·0	12	14	..	24·5	19·8	..	1	26	0	0	2	0	0	0	0	0	0
Mahuva .	30·1	..	32·5	3	24·3	..	23·4	13	83.5	185·3	..	66·2	9	12	..	17·3	13·5	..	0	18	0	0	0		0	0	0	0	0
Veraval .	29·4	..	33·5	1	25·2	..	23·9	28	348.2	457·5	+365·8	111·4	10	13	+7·1	33·1	33·3	..	1	24	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (25 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Konkan																													
Dahanu	29.1	−0.2	32.2	2	24.5	−0.5	22.0	8	247.6	680.0	+183.0	189.6	12	28	+8.7	27.1	24.5	+0.3	0	30	0	0	1	0	0	0	0	0	0
Bombay (Santacruz)	29.2	0	31.4	6	23.8	−0.2	22.6	17	352.8	621.0	+186.7	137.8	12	26	+2.7	24.7	21.9	..	1	30	0	0	0	0	0	0	1	7	0
Bombay	29.3	−0.1	32.4	1	24.9	+0.4	23.8	4	206.0	464.2	+124.1	89.3	12	21	+2.0	(b) 15.0	(b) 13.9	−2.0	0	27	0	0	0	0	0	0	0	19	0
Alibag	28.8	0	31.4	2	24.1	−0.9	23.1	3	..	624.6	+207.0	106.7	12	24	+2.9	..	31.9	+8.2	0	30	0	0	1	0	0	0	0	0	0
Bhira	27.3	..	32.0	2	22.7	..	21.1	8	874.6	1983.4	..	239.2	12	30	..	4.7	3.8	..	0	30	0	0	0	0	0	0	0	0	0
Harnai	27.5	−0.5	29.6	1	23.8	−0.7	22.3	4 days	283.0	1012.0	+463.9	164.2	3	30	+7.6	22.3	23.6	+3.7	0	30	0	0	0	0	0	0	0	0	0
Ratnagiri	28.3	..	30.0	31	23.1	..	21.9	8	337.7	755.3	+269.4	161.4	7	24	+0.7	26.4	27.6	..	1	29	0	0	0	0	0	0	0	0	0
Devgarh	27.7	−0.8	29.4	31	23.9	−0.6	21.4	4	419.0	785.4	+344.3	136.2	7	28	+5.5	32.1	32.1	+6.7	0	29	0	0	0	0	0	0	1	0	0
Vengurla	28.5	−0.2	29.6	11	23.7	−0.2	22.0	5	344.1	789.3	+230.4	112.6	5	28	+3.4	13.8	11.0	..	0	31	0	0	3	0	0	0	0	0	0
Panjim	28.4	..	29.6	30	22.9	..	21.8	2,3,4	303.0	763.5	..	94.7	7	28	..	19.6	17.9	..	1	30	0	0	2	0	0	0	0	0	0
Mormagao	27.9	..	28.7	30,31	22.7	..	19.3	7	209.1	610.4	..	65.6	1	29	..	26.9	26.7	..	0	31	0	0	0	0	0	0	2	0	0
Madhya Maharashtra																													
Nandurbar	29.5	..	35.2	2	23.0	..	21.1	16	84.3	180.9	..	37.1	16	12	..	12.8	9.4	..	0	19	0	0	1	0	0	0	0	0	0
Jalgaon	30.2	−1.0	34.9	1	23.4	0	22.0	17	165.5	288.9	+118.5	43.0	8,11	18	+6.5	14.0	10.9	−1.6	0	22	0	0	9	0	0	0	0	0	0
Malegaon	31.0	+0.3	34.4	1	22.2	0	20.6	30	9.8	66.4	−10.8	36.4	2	5	−0.3	14.8	11.3	−2.5	0	11	0	0	0		0	0	0	0	0
Deolali (Aerodrome)	26.8	..	31.4	2	21.5	..	20.5	30	44.6	117.0	..	20.5	17	13	..	21.8	18.3	..	0	19	0	0	1	0	0	0	0	0	0
Ahmednagar	28.9	−0.7	31.9	30	..	..	..	..	18.3	36.7	−32.4	18.6	30	4	−0.6	14.5	10.5	−3.7	0	10	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	1608.5	+346.1	232.0	12	30	+0.7	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	27.1	..	32.8	2	20.9	..	19.2	30	57.7	124.2	..	27.4	13	10	..	..	..	..	0	17	0	0	1	0	0	0	0	0	0
Poona	26.8	−0.7	31.6	2	20.6	−0.7	19.1	30	53.3	128.1	+37.9	34.8	13	9	+0.7	15.4	11.5	..	1	23	0	0	1	0	0	0	0	0	0
Jeur	30.3	−0.4	34.9	30	21.2	+0.2	19.2	29	17.7	103.7	+15.3	35.2	30	5	−1.7	21.5	14.5	−1.1	0	11	0	0	2	0	0	0	0	0	0
Baramati	29.5	+0.1	33.0	2	21.6	+0.1	19.9	29	41.2	27.4	−59.2	12.4	5	3	−3.0	18.8	15.2	−1.4	0	8	0	0	1	0	0	0	0	0	0
Sholapur	30.0	−1.6	34.1	31	21.6	−0.1	20.6	21	19.8	137.1	+28.4	34.2	31	12	+5.0	15.0	11.6	−2.4	0	13	0	0	0	0	0	0	0	0	0
Miraj	27.2	−0.6	31.4	31	20.9	−0.2	19.7	7,8,29	36.6	127.2	+7.6	38.4	7	15	+5.8	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Kolhapur	25.7	−0.7	29.9	31	20.7	−0.3	19.0	8	127.4	396.9	+175.4	85.5	7	21	+2.5	23.0	19.9	+2.7	0	28	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	28.7	−0.6	32.4	31	21.2	+0.3	19.3	28	44.6	80.6	−41.1	12.4	5	9	+0.1	18.4	14.3	−2.0	1	22	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthan)	30.6	.	35.1	3	22.0	..	20.9	25	56.4	143.9	..	21.8	18	10	..	17.3	14.3	..	2	16	0	0	9	0	0	0	0		
Parbhani	30.4	−0.5	32.9	31	22.0	−0.3	20.8	17	29.0	192.4	+31.9	63.6	2	9	−0.5	16.1	12.1	−0.2	0	14	0	0	3	0	0	0	0	0	0
Nander	30.6	..	34.5	2	22.3	..	21.1	17	57.9	276.7	..	47.2	12	15	..	8.3	8.5	..	0	21	0	0	0	0	0	0	0	0	0
Bir	30.2	..	34.0	29	22.4	..	21.5	6 days	15.8	110.7	..	42.8	1	6	..	13.3	9.6	..	0	10	0	0	0	0	0	0	0	0	0
Vidharbha																													
Gondia	29.4	−0.5	33.0	4,31	23.8	−0.4	21.7	16,17	259.2	527.2	+102.4	101.1	17	22	+5.1	4.8	4.0	−1.6	0	26	0	0	9	0	0	0	0	0	0
Nagpur (Sonegaon)	30.0	−0.7	33.2	2	23.3	−0.5	21.5	16,17	187.5	418.8	+128.7	72.7	7	17	+3.7	15.6	12.1	..	0	26	0	0	12	0	0	0	0	3	0
Amraoti	29.4	−0.5	34.8	2	22.9	+0.1	21.7	17	79.2	247.0	+82.1	37.2	12	15	+5.2	20.2	15.1	+4.5	1	18	0	0	4	0	0	0	0	0	0
Akola Aerodrome	29.7	..	34.5	1	22.4	..	21.2	16,17	81.6	173.2	..	30.3	11	16	..	13.1	10.3	..	0	23	0	0	2	0	0	0	0	0	0
Akola	29.8	−1.0	34.5	1	22.8	−0.4	21.4	16,17	83.1	158.5	−2.0	33.8	11	14	+4.9	(b) 13.5	(b) 9.8	−0.5	0	19	0	0	0	0	0	0	0	0	0
Bramhapuri	29.5	..	33.0	2,3	24.1	..	21.5	17	241.8	535.6	..	90.6	17	23	..	11.1	9.3	..	0	23	0	0	1	0	0	0	0	0	0
Buldana	27.3	−0.1	31.0	1	20.8	−0.4	19.6	28	47.3	102.9	−88.1	16.7	10	12	−0.2	11.8	10.5	−0.9	0	19	0	0	0	0	0	0	0	0	0
Yeotmal	28.8	−0.5	33.4	1	22.0	−0.2	20.6	16	105.0	703.2	+36.2	40.5	11	17	+4.0	20.3	17.4	+1.3	0	23	0	0	0	0	0	0	0	0	0
Chanda	29.5	−1.2	33.2	2	23.9	−0.1	22.5	17,24	200.4	553.2	+233.2	86.0	10	19	+4.2	15.8	11.3	+3.9	0	24	0	0	8	0	0	0	0	0	0
Pusad	30.4	..	33.9	2	23.3	..	21.6	31	64.4	199.0	..	40.2	24	17	..	14.5	10.5	..	0	23	0	0	0	0	0	0	0	0	0
Sironcha	30.1	−0.6	34.3	2	23.9	−0.6	22.8	5,19	92.6	572.9	+138.0	127.2	10	21	+4.7	9.1	5.7	+0.1	0	22	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	30.7	−1.5	33.5	22	24.9	−1.0	23.7	5,6	135.8	393.4	+220.7	160.2	6	15	+5.5	17.0	13.7	+3.9	0	16	0	0	0	0	0	0	0	0	0
Vishakhapatnam	31.3	−1.9	34.2	1	25.3	−0.4	23.9	7,29	76.1	167.8	+36.7	46.0	6	15	+6.8	21.4	15.3	+3.1	0	20	0	0	4	0	0	0	0	0	0
Kakinada	30.5	−1.6	33.3	30	24.6	−1.1	23.2	7	27.4	159.8	+18.6	28.8	3	15	+5.4	16.6	12.7	+4.0	0	19	0	0	0	0	0	0	0	0	0
Nidadavole	30.4	..	34.0	29	24.6	..	22.6	18	41.4	260.8	..	41.0	4	16	..	14.0	12.3	..	0	19	0	0	0	0	0	0	0	0	0
Rentachintala	33.9	+0.1	37.4	30	26.0	+0.2	23.9	6	14.0	49.0	−40.9	24.4	6	4	−3.8	16.0	12.8	−1.0	0	4	0	0	0	0	0	0	0	0	0
Gannavaram	31.2	−0.9	35.1	29	24.9	−0.2	22.7	15	26.7	219.3	+15.0	84.6	31	13	+1.1	12.1	13.9	−1.4	2	18	0	0	5	0	0	0	0	0	0
Nagajunkonda (R)																													
Masulipatam	31.3	−1.6	34.6	29	24.4	−1.1	22.7	30	19.2	168.2	+9.2	28.8	18	14	+3.8	6.0	4.4	−5.3	0	17	0	0	4	0	0	0	0	0	0
Ongole (R)	..																												
Nellore	34.2	−1.4	37.4	29	26.3	0	23.7	6	10.7	46.4	−30.3	15.4	4	5	−0.5	13.5	10.6	+1.7	0	9	0	0	3	0	0	0	0	0	0

(R) Register not received. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed Km. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Telangana																													
Ramgundam	30·5	—1·0	35·6	2	24·2	—0·4	22·9	20	79·4	411·4	+80·7	84·2	19	17	+2·8	8·6	6·0	—0·1	0	19	0	0	1	0	0	0	0	0	0
Nizamabad	30·2	—0·2	33·9	2	22·8	·0	21·5	16,24	20·6	189·8	—58·1	50·0	20	13	—0·8	10·8	8·8	+1·1	0	16	0	0	3	0	0	0	0	0	0
Hanamkonda	30.6	+0.2	34.1	31	23.4	—0.5	22·1	18	20·4	161·6	—15.7	32·8	19	16	+5.3	14.0	10.5	+0·8	0	18	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	28.0	..	30.8	28	21.0	..	20.1	7	19·4	103·1	..	14·5	1	11	..	..	..	..	0	16	0	0	1	0	0	0	0	1	0
Bhadrachalam	30.9	—0.4	35.2	1	24.6	.0	23.0	23	134·0	319·4	+37.7	87·0	6	16	+1.6	5.6	6.2	—1·0	0	20	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	29·1	—0·5	32·7	29	21·2	—0·7	19·9	7	14·9	57·3	—7·7	10·2	31	7	—2·9	29·3	24·6	+8·2	0	16	0	0	3	0	0	0	0	0	0
Khammam	31·3	..	33·9	29	24·3	..	22·6	12	25·4	228·2	..	78·0	11	10	..	14·6	8·1	..	0	16	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·4	..	34·0	31	22·0	..	20·9	6,7	37·2	124·8	..	43·0	7	8	...	14·0	12·6	..	1	12	0	0	1	0	0	0	0	0	0
Rayalaseema																													
Kurnool	31·4	—1·1	34·2	28	23·1	—0·4	21·5	5	66·3	108·0	—6·3	50·6	5	9	+0·4	26·3	21·8	+7·0	0	13	0	0	0	0	0	0	0	0	0
Anantapur	31·2	—1·4	34·9	29	23·4	—0·2	21·7	6	15·9	38·9	—35·6	23·1	6	3	—1·8	21·4	18·4	+0·8	0	6	0	0	0	0	0	0	0	0	0
Cuddapah	32·9	—1·9	36·1	29	24·8	—0·1	22·0	5	11·4	81·4	—51·7	28·2	31	7	—0·7	4·0	3·0	—7·6	0	8	0	0	0	0	0	0	0	0	0
Arogyavaram	29·1	..	31·4	29	20·5	..	19·2	1	28·0	98·8	..	48·6	1	9	..	15·7	13·0	..	0	11	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	33·2	..	35·7	13	24·9	..	21·9	22	..	193·2	..	53·4	22	12	..	..	9·8	..	1	15	0	0	9	0	0	0	0	0	0
Madras (Minambakkam)	33·7	—1·2	36·3	13	25·2	—0·4	21·8	22	7·6	152·4	+36·1	28·2	26	10	+2·1	13·8	12·2	—3 4	2	12	0	0	9	0	0	0	0	0	0
Vellore	32·9	—1·1	35·3	22	23·3	—1·0	21·7	3,29	36·0	116·4	—29·4	21·9	29	12	+4·6	9·5	9·1	+2·7	0	15	0	0	6	0	0	0	0	0	0
Tambaram (Aerodrome)	34·1	..	37·4	15	24·8	..	21·6	22	22.1	228·2	..	67·3	19	10	..	..	..	..	0	13	0	0	9	0	0	0	0	0	0
Tiruppattur	31·7	..	35·1	21	22·6	..	21·1	17	4·6	67·5	..	30·8	30	5	..	10·9	7·3	..	0	5	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	32·5	..	35·4	21	23·8	..	21·4	2	4·6	106·3	..	67·1	27	5	..	6·6	7·2	..	0	8	0	0	0	0	0	0	0	0	0
Cuddalore	34·1	—0·5	37·9	13	25·0	0	21·4	9	13·0	267·0	+145·1	92·4	29	7	—0·1	12·8	10·9	+4·1	0	8	0	0	6	0	0	0	0	0	0
Kallakkurichchi	31·7	..	35·4	18	24·3	..	21·7	29	40·4	166·4	—34·1	76·2	19	8	+0·4	10·2	8·7	..	0	13	0	0	7	0	0	0	0	0	0
Salem	31·8	—1·7	34·0	26	23·4	+0·5	22·3	6	19·8	134·3	—32·6	28·8	1	7	—2·9	8·6	6·8	+0·8	1	9	0	0	4	0	0	0	0	0	0
Coimbatore (Pilamedu)	29·5	..	31·9	29	21·4	..	20·0	5	34·0	81·0	..	43·7	6	7	..	33·6	29·4	..	0	11	0	0	3	0	0	0	0	0	0
Coimbatore	29·0	—1·8	31·2	30	21·2	—0·5	19·9	5,13	..	125·6	+94·4	60·8	6	9	+5·9	..	15·5	+6·8	0	10	0	0	1	0	0	0	0	0	0
Nagappatinam	33·9	—0·6	36·[illegible]	13	25·8	+0·4	23·2	30	0 4	17·0	—60·5	8·6	30	2	—2·9	12·6	10·4	+2·0	1	7	0	0	1	0	0	0	0	0	0
Tiruchchirappalli	34·0	—1·8	36·5	26	25·0	—0·1	22·9	16	0·7	34·8	—62·5	15·5	16	3	—1·7	17·9	14·5	—10·0	0	6	0	0	3	0	0	0	0	0	0
Vedaranniyam	32·8	..	36·0	29	25·1	..	20·9	16	14·6	132 8	..	56·4	30	7	..	9·0	7·9	..	0	7	0	0	0	0	0	0	0	0	0
Adirampattinam	32·2	..	35·0	15,29	25·2	..	21·4	16	1·2	89·4	..	56·4	16	5	..	14·1	10·8	..	0	6	0	0	2	0	0	0	0	0	0
Madurai	34·2	—0·9	36·5	15,26	24·8	+0·1	22·7	16	..	72·2	—31·4	30·6	19	5	—1·0	..	5·9	—0·2	0	9	0	0	3	0	0	0	0	0	0
Madurai (Aerodrome)	33·[illegible]	..	35·8	25	25·2	..	22·3	16	48·5	65·3	..	47·9	16	4	..	17·9	14·9	..	0	7	0	0	9	0	0	0	0	0	0
Tondi	32·6	..	36·9	10	25·7	..	22·4	16	0	22·4	..	21·2	16	1	..	18·1	14·6	..	0	2	0	0	1	0	0	0	0	0	0
Pamban	31·4	—0·3	33·1	10,13, 26	26·2	+0·2	24·2	16	0	2·6	—12·4	2·6	27	1	0	17·4	16·8	+3·8	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	33·3	—1·2	36·8	26	25·4	—0·9	23·9	17	0	0	—5·0	0	..	0	—0·8	21·6	16·9	—2·3	0	0	0	0	0	0	0	0	0	0	0
Palayankottai	33·8	—1·0	36·8	15	25·3	—1·1	23·1	16	25·6	25·6	+8·3	22·4	16	2	+1·0	16·8	13·2	—4·4	0	2	0	0	0	0	0	0	0	0	0
Kanniyakumari	29·5	..	33·1	15	23·0	..	21·7	7	32·2	70·6	..	33·8	7	5	..	23·0	18·5	..	0	6	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28·4	+0·5	30·0	14	24·3	+0·2	22·8	4	262·0	871·1	+334·7	112·4	2	28	+3·8	21·8	20·0	..	0	30	0	0	1	0	0	0	0	0	0
Honavar	27·7	—1·0	29·8	31	23·0	—0.6	21·6	3	357·0	921·2	+218·6	116·8	3	27	+1·3	..	..	..	0	30	0	0	3	0	0	0	0	0	0
Mangalore (Bajpe)	28·0	..	29·6	31	22·8	..	21·3	1	184·8	646·4	..	94·7	3	25	..	12·9	10·2	..	1	29	0	0	4	0	0	0	0	0	0
Mangalore	28·7	—0·1	30·8	21,22	23·4	0	21·4	5	218·2	743·5	+146·1	102·7	5	25	—0·1	10·7	9·6	+2·4	0	29	0	0	4	0	0	0	1	0	0
Interior Mysore North																													
Bidar	28·1	—0·8	30·8	29,30	20·7	—0·4	19·8	14,15	[illegible]8·2	87·4	—79·2	22·0	20	7	—3.1	24·8	21·5	+3·8	0	8	0	0	0	0	0	0	0	0	0
Gulbarga	29·9	—1·7	33·4	30	21·8	—0·1	20·8	7,14	17·8	42·2	—86·6	20·2	7	5	—2·7	25·4	19·0	+4·4	0	8	0	0	1	0	0	0	0	0	0
Bijapur	28·8	—1·6	33·4	31	21·3	+0·2	20·4	7,8,14	30·6	66.4	+5·4	19·0	7	7	+3·3	16·5	13·4	—0·8	0	9	0	0	0	0	0	0	0	0	0
Raichur	31·3	—0·9	35·0	28	22·7	+0·1	21·4	6	44·4	65·8	—45·7	25·3	6	6	—1·8	21·1	19·5	+4·1	0	8	0	0	0	0	0	0	0	0	0
Belgaum	24·4	—1·2	28·4	31	20·1	+1·1	19·7	4 days	227·4	597·0	+359·0	107·2	7	25	+7·4	12·7	9·2	—3·6	0	29	0	0	0	0	0	0	0	0	0
Belgaum (Santra)	24 9	..	28·5	31	20·0	..	19·2	29	122·2	336·0	..	71·0	7	20	..	18·9	16·1	..	1	28	0	0	0	0	0	0	0	0	0
Gadag	..	..	..	..	20·6	—0·2	19·9	3	25·5	81·4	—22·2	27·4	1	8	—0·3	21·7	18·3	+1·7	1	18	0	0	0	0	0	0	0	0	0

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Interior Mysore South																													
Bellary	30·4	−2·1	33·6	29,30	23·5	+0·2	22·4	6,16	17·0	43·0	−17·5	16·0	7	5	+1·0	16·5	13·3	+0·6	0	7	0	0	0	0	0	0	0	0	0
Chitradurga	26·4	−1·7	29·7	31	20·6	+0·3	19·8	16,17, 19	18·4	70·1	−15·8	18·1	1	9	+1·6	14·8	13.8	+1·9	1	20	0	0	0	0	0	0	0	0	0
Shimoga	26·1	−1·0	30·1	31	20·2	−0·8	19 2	5	77·4	410·9	+283·2	68·6	12	17	+2·9	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Mumbe	22·6	..	26·0	31	19·3	..	17·6	2	..	472·7	..	91·6	3	21	..	..	9·1	..	1	29	0	0	0	0	0	0	0	0	0
Balehonnur	23·3	0	27·0	31	18·7	+0·1	17·5	6	..	1062·4	+468·0	153·0	8	24	−0·5	..	..	..	0	29	0	0	0	0	0	0	0	0	0
Hassan	24·5	−1·4	28·3	30,31	18·5	0	17·7	17	68·2	195·2	+96·1	30·6	10	13	+3·8	15·3	12·5	+2·5	0	20	0	0	1	0	0	0	0	0	0
Bangalore	26·7	−0·7	29·6	30	19·6	+0·9	18·2	17	49·9	105·7	−20·8	23·4	28	11	+1·7	18·7	15·3	+3·6	1	17	0	0	1	0	0	0	0	0	0
Bangalore (Aerodrome)	26·8	..	29·3	21	18·7	..	17·2	17	35·9	136·6	..	65·2	31	9	..	..	..	..	0	15	0	0	3	0	0	0	0	0	0
Mysore	27·1	−1·2	30·0	31	19·7	+0·4	18·6	19	69·8	151·4	+67·8	70·6	6	7	0	20·7	15·6	+3·2	0	11	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	28·1	−0·2	30·5	20	23·4	−0·1	21·5	5	124·9	585·6	+149·7	123·3	6	18	−1·3	11·9	9·8	+2·6	0	20	0	0	2	0	0	0	0	0	0
Palghat	28·5	..	30·6	21,30	22·4	..	20·2	5,6	201·2	551·8	..	84.8	7	17	..	16·1	13·2	..	0	19	0	0	2	0	0	0	0	0	0
Fort Cochin	28·1	+0·1	29·6	21,22	24·0	+0·1	20·7	6	64·4	409·8	+57·0	100·5	6	15	−3·7	11·8	9·8	+1·8	1	22	0	0	2	0	0	0	0	0	0
Cochin (Naval Air Station)	29·0	..	30·8	20	23·5	..	21·2	6,13	57·6	408·8	..	109·8	6	15	..	13·1	9·8	..	1	20	0	0	4	0	0	0	0	0	0
Alleppey	29·3	+0·4	31·5	23	23·7	+0·1	21·7	12	88·0	275·0	−102·8	65·4	12	16	−3·6	13·5	10·8	0	0	18	0	0	0	0	0	0	0	0	0
Punalur	28·7	..	31·1	30	22·6	..	21.2	24	151·5	292.9	..	50·8	31	13	.	3·5	4·5	..	0	17	0	0	0	0	0	0	0	0	0
Trivandrum	29·4	+0·3	31·4	15	23·3	0	21·5	12	27·9	75·7	−44·4	15·0	7	10	+0·2	16·3	11·2	+0·6	2	14	0	0	3	0	0	0	0	0	0
Trivandrum (Aerodrome)	29·1	..	31·2	15	23·7	..	21·4	13	..	86·8	..	29·0	6	7	..	..	12·2	..	1	13	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	22·8	+0·1	25·0	8 days	16·3	−0·2	15·0	18,19, 24	323·0	515·0	−105·0	55·0	9	21	−0·3	1·8	1·7	−0·4	0	26	0	0	7	31	0	0	0	0	0
Dharamsala	26·5	+0·2	28·4	3	20·0	−0·5	18·5	24	364·4	822·3	−213·9	138·2	5	25	+1·3	5·3	3·6	0	0	28	0	0	7	0	0	0	0	0	0
Simla	20·8	+0·6	23·4	5	15·6	+0·5	14·4	21	210·3	360·5	−67·5	74·6	21	20	+0·3	1·1	1·2	−0·3	0	22	0	0	2	0	0	0	0	0	0
Dharampur	..	..	..	..	..	..	..	..	..	250·2	−68·8	33·6	6	18	+1·5	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Lokpal	10·0	..	12·0	1,3	5·9	..	4·8	31	..	330·0	..	30·4	18	26	..	..	..	..	0	29	0	0	0	0	0	0	0	0	0
Badrinath (R)																													
Joshimath	24·4	..	26·4	4,13	17·3	..	16·7	18	18·3	211·7	..	25·2	6	17	..	5·0	3·4	..	1	23	0	0	0	7	0	0	0	0	0
Mussoorie	20·2	+0·1	24·2	28	15·4	−0·1	14·1	24	216·2	795·7	+101·3	317·0	5	22	−1·8	7·8	6·7	+0·9	0	25	0	0	8	3	0	0	0	0	0
Mukteswar (Kumaun)	21·3	+1·3	23·7	10	14·1	0	13·1	25	78·4	120·2	−191·2	25·0	9	10	−7·9	8·8	10·8	+2·6	0	21	0	0	12	28	0	0	0	0	0
Nainital	21·5	+0·4	23·8	24	16·2	−0·2	15·0	24,25	194·0	359·5	−201·2	71·5	4	21	−1·9	9·7	7·1	+0·1	0	25	0	0	0	8	0	0	0	0	0
Kalimpong	26·8	+2·6	28·6	10,14	22·2	+2·6	20·6	29	96·0	593·7	+88·8	59·4	14	22	+0·5	11·1	8·4	−0·1	0	23	0	0	0	0	0	0	0	0	0
Darjeeling	19·6	+0·2	25·0	10	14·8	−0·4	13·7	30	97·2	604·8	−69·8	75·6	11	26	+2·3	3·4	2·5	−0·4	0	26	0	0	4	2	0	0	0	0	0
Kohima	25·2	..	28·9	7	18·6	..	17·3	17	108.6	265·3	..	60·8	14	17	..	..	0·4	..	0	21	0	0	0	0	0	0	0	0	0
Shillong	25·6	+1·7	29·4	10	18·0	+0·2	15·6	4	129·0	240·7	−76·6	62·2	5	17	−1·5	2·6	3·2	+0·5	0	23	0	0	2	0	0	0	0	0	0
Cherrapunji (R)																													
Abu	23.3	+1·1	29·1	8	18·3	+0·3	17·0	16	283·2	1186·8	+608·9	283·2	18	22	+4·6	20·0	11·0	−1·6	0	23	0	0	5	0	0	0	0	0	0
Aijal	25·8	..	29·4	8	19·8	..	18·3	19	71·9	229·7	..	49·3	21	13	..	11·2	10·6	..	0	16	0	0	0	0	0	0	0	0	0
Pachmarhi	23·3	−0·5	26·5	6-7,8	19·3	−0·1	17·4	15,16	334·6	872·2	+267·2	151·0	12	23	+1·1	10·5	10·5	+0·2	0	23	0	0	11	0	0	0	0	0	0
Mahabaleshwar	18·8	+0·1	22·6	2	16·2	−0·2	14·8	8	861·2	2415·5	+558·5	229·3	3	30	+0·2	21·7	21·3	+3·9	0	31	0	0	0	31	0	0	0	0	0
Mercara	20·2	−0·5	23·4	31	16·5	−0·2	15·0	12	494·6	1352·4	+676·7	279·0	7	27	+0·5	18·3	16·9	+6·6	0	27	0	0	2	0	0	0	8	0	0
Ootacamund (R)																													
Coonoor (R)																													
Kodaikanal	17·9	+0·8	20·7	14	11·0	−0·1	10·3	17	100·1	139·4	−38·4	32·2	15	10	−2·1	14·1	14·7	+0·9	4	16	0	0	4	2	0	0	0	0	0
Nepal																													
Katmandu	28·0	..	30·2	8	20·1	..	18·3	31	54·0	287·9	..	54·8	17	19	..	1·2	0·8	..	3	25	0	0	8	0	0	0	0	0	0
Sikkim																													
Lachen (R)																													
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	31·1	..	34·5	4	24·6	..	22·4	19	131·9	231·9	..	61·3	11	13	..	11·3	9·0	..	3	19	0	0	11	0	0	0	0	0	0
Hazaribagh	29·1	..	32·4	4	22·4	..	20·2	17	101·8	260·0	..	72·6	14	13	..	10·5	6·2	..	3	18	0	0	11	1	0	0	0	0	0

(R) Register not received.

*Data given as addenda in December 1964 issue.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—Damodar Catchment—*contd.*																													
Konar	29·8	..	34·0	4	23·8	..	21·5	16	86·2	240·1	..	111·0	19	15	..	9·0	7·0	..	0	22	0	0	0	0	0	0	0	0	0
Bokaro	31·6	..	33·5	4	24·0	..	22·4	26	138·2	249·9	..	35·0	23	19	..	10·3	7·5	..	1	24	0	0	13	0	0	0	0	0	0
Maithon	32·2	..	36·1	4	23·3	..	20·6	16	125·4	269·2	..	72·8	22	4	..	..	..	..	1	22	0	0	13	0	0	0	0	0	0
Ramgarh	31·2	..	36·0	4	24·2	..	22·0	16	230·2	379·5	..	113·8	19	16	..	4·1	2·4	..	0	21	0	0	0	0	0	0	0	0	0
Panchet Hills	31·6	..	35·5	4	25·7	..	23·3	16	140·9	295·6	..	64·7	22	19	..	7·5	5·9	..	1	22	0	0	0	0	0	0	0	0	0
Durgapur	32·1	..	35·6	4	25·8	..	23·2	16	76·3	335·6	..	113·0	21	14	..	11·4	11·3	..	0	21	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	30·0	..	32·9	10	22·9	..	20·7	17	..	470·6	..	78·8	16	20	..	..	..	..	0	26	0	0	7	0	0	0	0	0	0
Hirakud	30·8	..	35·0	6	25·0	..	22·1	16	279·5	606·2	..	113·0	24	21	..	7·5	6·7	..	2	24	0	0	8	0	0	0	0	0	0
Bhimkund	29·9	..	32·5	2	23·8	..	20·9	16	189·0	455·8	..	112·0	15	19	..	6·9	3·9	..	0	25	0	0	17	0	0	0	0	0	0
Sonepur	30·4	..	34·0	4	25·5	..	23·5	15	..	619·5	..	125·2	11	20	..	..	(a) 13·1	..	0	24	..	..	..	..	.		..	..	..
Khijrawan	28·3	..	31·6	4 days	..	..	..	..	0	593·0	..	106·0	16	15	..	16·1	12·3	..	0	18	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	28·6	..	33·4	3	23·5	..	21·9	17	261·1	582·3	..	108·6	12	19	..	9·7	8·3	..	0	22	0	0	3	0	0	0	0	0	0
Punasa	29·6	..	34·6	2	23·7	..	22·1	28	47·1	211·9	..	46·0	17	10	..	10·4	(a) 8·9	..	0	19	0	0	2	0	0	0	0	0	0
Thikri	30·6	..	35·4	4	22·7	..	20·1	28	..	158·2	..	41·2	8	13	..	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	33·2	..	36·4	5	25·1	..	24·4	15	76·2	275·0	..	60·0	18	16	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Gandak Catchment	(h)																												
Jomosom	24·5	..	26·6	23	14·1	..	11·3	27	6·8	80·2	..	19·4	9	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	85·2	911·0	..	96·0	12	22	..	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Timure	26·7	..	29·1	11	17·6	..	16·3	7	9·9	278·4	..	61·4	7	19	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Pokhara	29·6	..	32·7	11	22·0	..	20·5	31	83·7	873.1	..	176·3	4	23	..	2·3	1·5	..	0	28	0	0	12	0	0	0	0	0	0
Gorkha	27·9	..	30·6	11	21·7	..	20·2	23	71·6	452·2	..	69·4	4	17	..	..	..	..	2	20	0	0	13	20	0	0	0	0	0
Nuwakot	30.7	..	33.2	11	21.3	..	19.9	31	34·5	491·9	..	77·9	20	17	..	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh	27·4	..	29·2	27	19·1	..	16·7	5	54·2	374·1	..	75·0	11	13	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	23·8	..	25·7	27	16·8	..	15·2	22	62·9	235·6	..	50·0	6	15	..	4·9	3·9	..	2	24	0	0	6	12	0	0	0	0	0
Sallyana	26·6	..	30·5	7	18·9	..	17·0	22	76·7	217·3	..	29·2	17	15	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Butwal	32·9	..	35·9	11	25·1	..	22·4	1	188·8	576·6	..	102·0	23	22	..	..	..	..	1	23	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	26·8	..	29·6	10	18·0	..	16·3	23	63·2	585·4	..	80·3	14	20	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Chepua	(a)	..	..	..	..	..	..	..	36·1	380·1	..	36·4	18	26	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Walung Chung Gola	16·7	..	21·0	21	9·9	..	8·5	24	75·1	325·5	..	28·3	10	25	..	..	..	..	1	29	..	..	..	..	..	..	..	..	..
Taplethok	28·1	..	31·1	23	18·6	..	17·8	24	0	428·6	..	48·8	14	28	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Bhojpur	24·4	..	27·5	11	18·6	..	16·8	31	35·3	155·4	..	53·0	4	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Taplejung	24·6	..	26·9	11	17·7	..	16·1	20	36·9	220·9	..	37·7	4	13	..	4·7	2·6	..	1	21	0	0	2	9	0	0	0	0	0
Okhaldhunga	24·6	..	27·0	12	17·1	..	15·2	1	75·2	315·4	..	90·9	23	14	..	1·3	1·4	..	0	21	0	0	6	12	0	0	0	0	0
Chainpur	27.7	..	30·4	11	20·1	..	18·8	31	77·1	251·9	..	39·8	11	17	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
Angbung	(a) 27·4	..	30.4	24	20·3	..	18·3	29	45·0	352·7	..	122·5	14	8	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Barahakeshetra	31.9	..	36·0	11	23.9	..	22.8	4	114·3	523·7	..	266·9	4	13	..	7.3	4.1	..	1	23	0	0	9	0	0	0	0	0	0
Tista Catchment																													
Gangtok	23.1	..	27.0	10	16.9	..	15.2	31	89·6	575.5	..	76.7	14	29		1.3	0.8	..	0	30	0	0	0	27	0	0	0	0	0
Gezing	26.2	..	29.8	10	18.1	..	16.4	23	29·7	514·8	..	135·2	23	18	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days. *Data included under 'Nepal'. (h) mean of 23 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007.3	1004.2	..	27.1	25.6	24.9	31.5	88	..	6.6	..	17.3	0	9	22	0	0	0	0	0	25	5	0	0	1
	1730	,,	1005.5	1002.5	..	26.9	25.4	24.7	31.1	88	..	6.8	..	17.6	0	14	16	0	0	0	0	0	21	9	0	1	0
Long Island	0830	25	1007.5	1004.7	..	27.3	25.5	24.7	31.1	85	..	8.5	..	3.2	0	0	18	0	0	0	0	0	7	11	0	13	0
	1730	,,	1005.6	1002.8	..	26.9	25.0	24.1	30.0	83	..	6.3	..	3.7	0	0	18	0	0	0	0	0	8	10	0	13	0
Port Blair	0530	79	1006.6	997.7	..	25.2	24.0	23.4	28.8	83	..	7.0	..	18.1	0	11	20	0	0	0	0	1	25	5	0	0	0
	0830	,,	1007.9	999.1	−0.4	27.3	25.1	24.1	30.0	83	−1	7.2	+0.6	24.0	0	23	8	0	0	0	0	1	24	6	0	0	0
	1130	,,	1007.1	998.2	..	28.0	25.2	23.9	29.7	79	..	7.5	..	28.9	0	25	6	0	0	0	0	0	24	6	1	0	0
	1730	,,	1006.1	997.2	..	26.1	24.3	23.5	28.9	86	..	7.5	..	18.7	0	13	17	0	0	0	0	0	25	4	1	1	0
	2330	,,	1007.5	998.5	..	25.4	24.3	23.8	29.5	90	..	6.0	..	18.1	0	16	15	0	0	0	0	0	29	1	1	0	0
Car Nicobar	0830	10	1008.9	1007.7	..	28.1	25.5	24.4	30.5	81	..	5.8	..	4.1	0	0	28	0	0	0	0	0	28	0	0	3	0
	1730	,,	1007.1	1005.9	..	27.3	25.0	23.9	29.7	83	..	6.3	..	3.8	0	0	27	0	0	0	0	0	25	1	0	4	1
Nancowry	0830	26	1009.5	1006.6	..	27.3	25.1	24.1	30.0	82	..	6.3	..	14.3	0	7	23	0	0	0	0	0	20	8	2	1	0
	1730		1007.3	1004.5	..	26.6	24.6	23.7	29.3	84	..	6.4	..	12.5	0	8	22	0	0	0	0	0	19	7	4	1	0
Kondul	0830	8	..	..	..	27.6	25.3	24.3	30.4	83	..	7.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	.	26.7	24.9	24.1	30.0	85	..	7.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1003.0	985.5	..	27.3	25.1	24.2	30.2	84	..	5.5	..	5.7	0	0	29	0	5	3	5	1	2	2	11	2	0
	1730	,,	999.0	981.6	..	28.9	26.6	25.7	33.2	84	..	5.0	..	2.4	0	0	17	0	4	0	1	2	2	1	7	14	0
Dibrugarh (Mohanbari)	0230	111	1000.3	987.8	..	25.2	24.4	24.0	29.8	93	..	6.1	..	3.4	0	0	14	0	8	3	0	1	0	2	0	17	0
	0530	,,	1001.2	988.7	..	25.1	24.5	24.2	30.2	95	..	6.3	..	2.9	0	0	15	1	4	7	2	0	0	0	1	16	0
	0830	,,	1002.6	990.1	−1.6	27.4	25.4	24.5	30.7	85	0	6.4	+0.1	4.7	0	0	26	2	5	10	2	4	1	0	2	5	0
	1130	,,	1001.3	988.9	..	29.3	26.2	24.9	31.6	78	..	6.2	..	5.2	0	0	29	3	6	8	4	1	3	3	1	2	0
	1430	,,	998.6	986.3	..	30.8	26.5	24.7	31.1	69	..	5.4	..	6.2	0	0	28	5	10	6	1	0	3	3	0	3	0
	1730	,,	998.3	986.0	..	29.5	26.4	25.1	31.9	78	..	5.2	..	3.3	0	0	19	2	7	5	1	0	2	0	2	12	0
	2030	,,	1000.6	988.2	..	27.0	25.8	25.3	32.2	90	..	4.5	..	3.8	0	1	15	1	6	6	0	1	1	0	1	15	0
	2330	,,	1001.1	989.0	..	26.2	25.2	24.8	31.3	92	..	5.6	..	3.7	0	1	15	0	11	3	0	0	1	0	1	15	0
Digbal (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1002.9	991.6	−0.7	27.9	25.9	25.0	31.7	85	−5	6.5	−0.6	2.8	0	0	18	1	6	3	0	4	2	1	1	13	0
	1130	,,	1001.5	990.3	..	30.2	26.8	25.4	32.4	76	..	6.3	..	5.5	0	0	24	1	3	6	4	8	1	1	0	7	0
	1430	,,	998.8	987.6	..	30.9	27.2	25.7	33.0	75	..	5.6	..	6.0	0	0	30	3	6	7	4	6	1	3	0	1	0
	1730	,,	998.8	987.5	..	29.1	27.9	26.1	33.3	83	..	5.7	..	4.1	0	0	18	4	7	3	0	2	1	1	0	13	0
Sibsagar	0830	97	1003.1	992.4	−0.7	28.2	26.1	25.2	32.1	84	−2	7.0	0	3.0	0	0	21	6	0	0	2	4	9	0	0	10	0
	1730	,,	998.8	988.2	..	30.6	27.2	25.8	33.2	76	..	5.4	..	2.3	0	0	16	6	3	0	1	1	5	0	0	15	0
Gohpur	0830	..	..	.	..	27.5	26.0	25.3	32.2	87	..	6.3	..	2.5	0	0	27	0	14	1	5	0	3	0	4	4	0
	1730	..	..	..	..	30.2	27.2	26.0	33.6	79	..	5.4	..	2.5	0	0	29	1	9	0	8	1	7	0	3	2	0
Majbat	0830	..	..	..	..	28.9	26.7	25.7	33.0	83	..	4.6	..	2.3	0	0	23	0	2	5	8	4	2	1	0	8	1
	1730	,,	..	..	..	29.5	27.1	26.1	33.8	82	..	3.5	..	0.5	0	0	8	0	2	2	1	1	0	0	2	23	0
Johat (Aerodrome)	0530	90	1001.1	991.0	..	25.7	25.2	25.0	31.7	95	..	6.9	..	3.5	0	0	17	0	5	0	0	2	6	3	1	14	0
	0830	,,	1002.4	992.4	..	28.5	26.2	25.2	32.1	83	..	6.7	..	4.7	0	0	22	0	8	0	0	1	8	2	3	9	0
	1130	,,	1001.0	991.0	..	30.8	26.9	25.2	32.1	73	..	6.3	..	7.9	0	0	30	4	8	1	0	1	7	5	4	1	0
	1730	,,	998.2	988.5	..	30.1	26.4	24.9	31.5	77		5.6	..	3.9	0	0	18	1	9	1	0	0	3	2	2	13	0
	2330	,,	1000.9	990.9	..	26.8	25.9	25.5	32.6	93	..	6.2	..	3.0	0	0	9	1	3	0	0	0	4	0	1	22	0
Tangla	0830	78	1002.3	993.4	..	28.6	26.0	24.9	31.5	82	..	2.9	..	1.7	0	0	19	0	0	0	14	0	5	0	0	12	0
	1730	,,	998.0	989.1	..	30.7	27.5	26.2	34.0	78	..	2.1	..	0.5	0	0	5	0	0	0	2	0	7	0	0	26	0
Tezpur	0830	79	1002.7	994.0	−1.4	27.3	26.2	25.7	33.0	91	+4	5.8	−0.7	1.8	0	0	24	1	8	4	4	3	4	0	0	7	0
	1730	,,	998.9	990.2	..	30.2	27.0	25.7	33.0	77	..	4.8	..	1.4	0	0	17	3	7	2	0	0		1	0	14	0
Golaghat	0830	95	1002.4	991.8	..	27.5	25.8	25.1	31.9	87	..	5.2	..	2.0	0	0	27	5	0	6	2	12	1	0	1	4	0
	1730		999.1	988.6	..	31.3	27.3	25.7	33.0	72	..	(g) 2.4	..	(b) 1.7	0	0	17	0	6	0	7	0	1	0	3	7	0
Rangia	0830	..	1003.4	996.7	..	29.2	26.7	25.7	33.0	82	..	(c) 5.5	..	(e) 6.3	0	0	28	0	1	13	2	3	2	6	1	0	0
	1730	60 ,,	1000.2	993.4	..	31.0	27.8	26.6	34.8	78	..	(b) 3.8	..	(b) 3.2	0	0	22	1	2	7	1	4	2	3	2	7	0
Chaparmukh*	0830	66	1004.0	996.7	..	29.0	26.4	25.3	32.2	80	..	5.5	..	5.7	0	0	15	0	1	5	5	3	1	0	0	0	0
	1730	,,	1000.3	992.7	..	29.9	27.1	26.0	33.6	80	..	4.1	..	2.7	0	0	15	4	3	0	4	0	2	2	0	0	0
Goalpara	0830	38	1003.2	998.9	..	27.3	26.0	25.5	32.6	90	..	3.2	..	1.4	0	0	21	1	7	0	5	3	4	1	0	10	0
	1730	,,	1000.5	996.4	..	30.2	27.7	26.7	35.0	82	..	1.5	..	1.2	0	0	18	2	1	0	2	2	5	5	1	13	0
Gauhati(†)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(?) Register not received. † Data not reliable. (g) Mean of 24 days. (b) Mean of 29 days. * Observation for 15 days. (c) mean of 28 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*(Contd.)*																											
Gauhati (Bhorjor)	0230	54	1000.4	994.3	..	26.7	25.9	25.5	32.6	93	..	5.3	..	2.1	0	0	10	0	3	1	0	3	3	0	0	21	0
	0530	,,	1001.0	994.8	..	26.5	25.8	25.5	32.6	94	..	6.9	..	2.6	0	0	13	1	2	3	2	2	2	1	0	18	0
	0830	,,	1002.3	996.2	−1.0	29.1	26.7	25.8	33.2	82	+1	6.6	+0.5	6.5	0	0	25	1	12	5	0	2	2	2	1	6	0
	1130	,,	1001.1	995.0	..	31.1	27.4	25.9	33.4	74	..	6.1	..	9.2	0	0	29	12	9	1	1	0	0	4	2	2	0
	1430	,,	998.8	992.7	..	30.7	27.2	25.7	33.0	76	..	6.0	..	9.7	0	1	28	4	9	2	0	2	4	1	7	2	0
	1730	,,	998.6	992.5	..	29.8	26.8	25.6	32.8	79	..	6.2	..	5.5	0	0	23	2	3	1	2	3	5	6	1	8	0
	2030	,,	1000.9	994.8	..	27.8	26.5	25.9	33.4	90	..	4.8	..	3.9	0	0	14	0	2	0	1	5	6	0	0	17	0
	2330	,,	1001.3	995.2	..	27.3	26.2	25.7	33.0	91	..	6.1	..	1.4	0	0	10	0	2	0	0	6	2	0	0	1	0
Dhubri (Rupsi)	0530	36	1000.6	995.5	..	26.1	25.4	25.2	32.1	95	..	6.2	..	2.6	0	0	12	0	8	1	0	2	1	0	0	19	0
	0830	,,	1001.3	996.7	..	28.4	26.6	25.9	33.4	86	..	6.2	..	5.5	0	0	24	0	7	7	1	6	3	0	0	7	0
	1130	,,	1001.1	996.0	..	30.1	27.2	26.0	33.6	79	..	6.0	..	6.7	0	0	28	1	4	14	1	1	5	2	0	3	0
	1730	,,	998.1	993.0	..	30.3	27.5	26.4	34.4	80	..	5.0	..	3.0	0	0	16	1	0	5	2	3	4	1	0	15	0
Dhubri	0330	35	1002.7	998.7	−0.7	28.1	26.2	25.3	32.2	85	0	5.2	−0.6	7.3	0	1	29	0	18	3	3	3	2	1	0	1	0
	1730	,,	999.2	995.3	..	29.2	26.6	25.5	32.6	81	..	5.4	..	0.6	0	0	9	0	5	0	1	3	0	0	0	22	0
Lumding	0830	149	1002.3	985.7	..	27.7	25.9	25.1	31.9	85	+2	5.4	..	2.1	0	0	22	0	7	0	9	1	2	0	3	9	0
	1730	,,	998.4	982.0	..	30.1	26.7	25.3	32.2	75	..	4.4	..	1.9	0	0	23	0	4	0	8	0	5	0	6	8	0
Tura	0830	370	1003.4	962.4	..	26.2	25.8	25.7	33.0	97	..	7.8	..	3.1	0	0	26	0	3	4	5	2	5	4	3	5	0
	1730	,,	999.4	958.5	..	27.3	26.8	26.7	35.0	96	..	7.9	..	2.8	0	0	28	1	1	4	5	4	4	6	3	3	0
Haflong	0830	682	1004.8	930.2	..	24.2	22.3	21.5	25.6	86	..	5.9	..	7.0	0	0	31	0	0	0	0	9	22	0	0	0	0
	1730	,,	998.4	924.3	..	26.1	23.8	22.8	27.7	82	..	4.9	..	7.1	0	0	31	0	0	0	0	4	27	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1000.7	989.8	..	25.0	24.3	23.9	27.7	94	..	6.8	..	5.6	0	0	27	0	1	23	0	0	0	1	2	4	0
	0830	,,	1001.7	990.9	..	27.9	25.6	24.6	30.9	83	..	6.7	..	5.5	0	0	23	1	0	15	4	1	1	1	0	8	0
	1130	,,	1000.2	989.5	..	30.6	26.3	24.5	30.2	71	..	6.2	..	7.5	0	1	28	1	4	5	1	3	10	3	2	2	0
	1730	,,	998.1	987.3	..	29.2	26.1	24.7	31.1	78	..	6.4	..	3.7	0	0	22	0	1	5	0	2	4	8	2	9	0
Silchar	0830	29	1002.9	999.6	−1.6	28.3	26.9	26.3	31.9	89	+3	6.3	−0.1	0.9	0	0	14	3	5	2	1	2	0	0	1	17	0
	1730	,,	998.4	995.1	..	29.8	26.8	25.6	33.5	79	..	5.8	..	0.6	0	0	9	0	1	2	1	0	1	1	2	22	1
Imphal (Tulihal)	0530	781	1003.5	918.0	..	22.3	21.6	21.3	25.4	95	..	7.5	..	0.7	0	0	3	0	2	1	0	0	0	0	0	28	0
	0830	,,	1003.6	919.1	−0.7	25.3	22.8	21.6	25.8	80	−2	7.3	+0.5	2.9	0	0	14	2	4	0	3	2	0	1	2	17	0
	1130	,,	1001.8	917.8	..	27.1	23.7	22.1	26.6	74	..	7.0	..	6.9	0	0	27	3	0	6	2	8	1	3	4	4	0
	1430	,,	999.2	915.7	..	27.7	23.7	21.7	25.9	71	..	6.6	..	8.9	0	1	25	1	0	1	7	5	3	2	7	5	0
	1730	,,	999.8	915.8	..	25.6	22.9	21.5	25.6	79	..	6.8	.	9.8	0	0	27	0	1	3	6	7	2	2	6	4	0
	2030	,,	1002.7	917.9	..	24.0	22.5	21.8	26.1	87	..	6.2	..	3.3	0	0	18	0	0	4	3	5	1	2	3	13	0
	2330	,,	1003.4	918.3	..	23.1	22.2	21.8	26.1	92	..	6.7	..	2.2	0	0	10	1	1	1	1	5	0	0	1	21	0
Kailashahar	0530	29	1002.0	998.7	..	25.5	24.9	24.6	30.9	94	..	7.2	..	2.6	0	0	19	0	1	4	1	11	2	0	0	12	0
	0830	,,	1003.1	999.9	..	28.5	26.1	25.1	31.9	82	..	6.8	..	5.3	0	0	29	0	1	10	2	11	5	0	0	2	0
	1130	,,	1001·9	998.7	..	31.2	27.1	25.4	32.4	72	..	6.7	..	5.5	0	0	31	2	4	6	2	7	5	4	1	0	0
	1730	,,	999.6	996.4	..	29.2	26.8	25.8	33.2	83	..	6.5	..	4.8	0	0	26	4	2	1	0	5	9	5	0	5	0
Agartala	0230	16	1000.1	998.3	..	25.8	25.2	24.9	31.5	95	..	6.7	..	11.3	0	2	25	1	0	2	18	6	0	0	0	4	0
	0530	,,	1000.5	998.7	..	25.5	25.0	24.7	31.1	96	..	7.1	..	10.4	0	2	28	1	0	4	21	3	1	0	0	1	0
	0830	,,	1001.7	999.9	−1.1	28.4	26.2	25.2	32.1	83	−1	6.6	−0.3	19.3	0	7	23	0	1	5	13	10	0	0	1	1	0
	1130	,,	1001.0	999.1	..	30.4	27.1	25.8	33.2	77	..	6.9	..	14.3	0	3	27	0	0	2	12	10	4	1	1	1	0
	1430	,,	998.7	997.0	..	30.4	27.1	25.8	33.2	77	..	6.7	..	15.7	0	10	21	1	1	0	7	11	4	2	5	0	0
	1730	,,	998.6	996.8	..	28.5	26.5	25.7	33.0	85	..	6.6	..	11.1	0	3	23	2	0	0	7	14	2	1	0	5	0
	2030	,,	1000.8	999.0	..	27.0	25.8	25.3	32.2	91	..	6.0	..	10.1	0	0	25	0	1	2	15	6	0	1	0	6	0
	2330	,,	1001.2	999.4	..	26.3	25.4	25.0	31.7	93	..	6.3	..	10.6	0	2	22	1	0	0	18	5	0	0	0	7	0
Sub-Himalayan West Bengal																											
Beghdogra	0230	131	1000.1	985.4	..	25.9	25.1	24.7	31.1	93	..	6.7	..	5.3	0	1	14	1	5	9	0	0	0	0	0	16	0
	0530	,,	1000.4	985.6	..	25.3	24.6	24.3	30.4	93	..	6.8	..	6.9	0	0	22	1	16	4	0	1	0	0	0	9	0
	0830	,,	1001.6	987.0	−0.8	28.3	25.8	24.7	31.9	82	−3	6.6	−0.2	12.3	0	3	24	0	8	17	1	0	1	0	0	4	0
	1130	,,	1001.1	986.5	..	30.3	26.5	24.9	31.5	74	..	6.5	..	13.8	0	9	19	0	5	15	6	1	1	0	0	3	0
	1730	,,	997.9	983.5	..	29.4	26 4	25.1	31.9	78	..	6.2	..	8.8	0	1	20	0	3	10	5	1	1	1	0	10	0
	2330	,,	1001.1	996.3	..	26.6	25.5	25.1	31.9	91	..	6.4	..	7·5	0	1	21	0	14	5	1	0	0	0	2	9	0
Jalpaiguri	0830	83	1001.6	992.3	−1.4	27.2	25.7	25.1	31.9	88	+1	5.3	+0.3	7.9	0	2	28	4	11	10	3	0	0	0	2	1	0
	1730	,,	998.0	988.8	..	29.5	26.5	25.2	32.2	79	..	4.5	..	6.3	0	1	25	3	4	4	11	1	2	0	1	5	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—AUGUST, 1964 (SRAVANA 10—BHADRA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*Contd*).																											
Cooch Behar	0830	43	1001·9	997·1	..	28·5	26·6	25·9	33·4	86	..	6·5	..	6·8	0	1	25	1	4	17	1	1	2	0	0	5	0
	1130	"	1001·2	996·4	..	30·3	27·3	26·1	33·8	79	..	6·4	..	9·3	0	4	24	0	3	17	5	2	0	1	0	3	0
	1730	"	998·3	993·5	..	30·3	27·5	26·4	34·4	81	..	5·6	..	3·7	0	0	17	0	0	9	3	4	1	0	0	14	0
Balurghat	0830	26	1000·3	997·3	..	29·1	26·7	25·7	33·0	83	..	6·3	..	5·2	0	0	28	0	2	9	9	2	4	0	0	3	2
	1730	"	997·0	994·1	..	30·0	27·0	25·8	33·2	78	..	5·3	..	3·5	0	0	26	1	1	6	12	4	1	0	0	5	1
Malda	0830	31	1000·8	997·3	—1·6	28·2	26·8	26·2	34·0	85	+2	6·0	+0·4	3·4	0	0	27	0	2	9	7	8	0	1	0	4	0
	1730	"	997·6	994·1	..	29·9	27·1	26·0	33·6	80	..	5·3	..	3·0	0	0	23	1	1	8	9	2	1	0	1	8	0
Gangetic West Bengal																											
Berhampore	0830	19	1000·4	998·1	—1·8	28·5	26·8	26·1	33·8	89	+4	7·0	+0·4	3·6	0	0	26	1	0	11	2	9	1	2	0	5	0
	1730	"	997·1	995·0	..	29·3	26·8	25·7	33·0	80	..	6·7	..	2·8	0	0	23	1	0	12	1	9	0	0	0	8	0
Suri	0830	..	..	..	..	28·9	26·5	25·5	32·6	82	..	6·3	..	5·7	0	0	31	0	3	9	4	14	1	0	0	0	0
Asansol	0230	126	998·3	984·2	..	26·4	25·4	25·0	31·7	91	..	5·7	..	4·8	0	1	20	0	2	6	5	5	2	1	0	10	0
	0530	"	998·7	984·6	..	26·2	25·2	24·8	31·3	92	..	6·3	..	4·5	0	0	22	0	2	7	5	4	1	2	1	9	0
	0830	"	1000·1	986·0	—1·2	28·2	25·9	24·9	31·5	83	—2	6·7	+0·1	7·5	0	1	30	1	4	5	11	4	2	2	2	0	0
	1130	"	999·4	985·5	..	30·2	26·6	25·1	31·9	74	..	6·7	..	8·8	0	1	29	0	5	6	8	4	3	1	3	1	0
	1430	"	997·1	983·3	..	30·7	26·8	25·1	31·9	74	..	6·5	..	8·1	0	2	28	0	4	6	11	4	0	2	3	1	0
	1730	"	997·0	983·0	..	29·3	26·2	24·9	31·5	78	..	6·4	..	7·7	0	0	30	0	6	5	10	5	2	2	0	1	0
	2330	"	999·7	985·5	..	26·9	25·7	25·2	32·1	90	..	5·4	..	6·1	0	0	25	0	3	7	7	5	0	2	1	6	0
Shanti Niketan	0830	59	1000·6	994·0	..	28·3	26·3	25·5	32·6	85	..	6·2	..	8·5	0	0	31	0	7	5	6	10	3	0	0	0	0
	1130	"	1000·1	993·5	..	30·1	27·0	25·7	33·0	78	..	5·7	..	6·1	0	1	29	0	6	9	5	4	2	3	1	1	0
	1730	"	997·4	990·8	..	28·9	26·7	25·8	33·2	83	..	6·2	..	6·3	0	0	26	1	2	4	8	7	3	0	1	5	0
Krishnanagar	0830	15	1000·1	998·5	—2·2	29·3	27·0	26·1	33·8	84	0	4·1	—2·1	1·0	0	0	14	0	0	5	0	9	0	0	0	17	0
	1730	"	997·3	995·6	..	29·7	27·1	26·1	33·8	82	..	4·5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Purulia	0830	255	999·8	971·6	—1·8	26·8	25·1	24·3	30·4	89	+5	7·4	+0·6	5·4	0	0	30	1	6	2	10	6	3	0	2	1	0
	1730	"	996·7	968·7	..	28·3	26·0	25·1	31·9	81	..	7·6	..	3·7	0	0	28	0	7	0	11	6	1	0	3	3	0
Bankura	0830	100	999·5	988·4	..	28·1	26·1	25·3	32·2	85	..	5·0	..	2·1	0	0	25	2	7	4	2	4	3	2	0	6	1
	1730	"	997·0	986·1	..	29·3	26·8	25·7	33·0	81	..	5·6	..	1·3	0	0	13	4	6	1	1	1	0	0	0	18	0
Burdwan	0830	32	1000·4	996·7	—1·5	28·7	26·9	26·2	34·0	86	+2	4·8	—1·8	3·7	0	0	23	0	2	13	3	3	2	0	0	8	0
	1730	"	996·8	993·2	..	29·6	27·4	26·5	34·6	85	..	5·2	..	6·0	0	0	28	0	0	18	1	8	0	1	0	3	0
Barrackpore (Aerodrome)	0530	7	999·5	998·7	..	26·7	25·7	25·3	32·2	93	..	6·1	..	7·6	0	1	27	0	0	10	6	6	4	1	1	3	0
	0830	"	1000·8	1000·0	—1·0	28·7	26·5	25·6	32·8	83	—3	6·4	—0·4	10·6	0	1	29	0	1	11	5	6	5	1	1	1	0
	1130	"	1000·3	999·6	..	30·5	27·0	25·5	32·6	75	..	6·4	..	9·6	0	1	27	0	1	8	5	4	6	4	0	3	0
	1730	"	998·0	997·3	..	28·9	26·6	25·7	33·0	83	..	6·1	..	8·7	0	2	24	0	0	4	10	7	3	2	0	5	0
	2330	"	1000·6	999·8	..	27·4	26·2	25·7	33·0	91	..	4·5	..	4·9	0	0	20	0	0	4	5	7	4	0	0	11	0
Calcutta (Dum Dum)	0230	6	998·3	997·6	..	27·0	25·9	25·5	32·6	91	..	5·0	..	6·2	0	0	28	0	1	10	5	8	4	0	0	3	0
	0530	"	998·6	997·9	..	26·6	25·6	25·2	32·1	92	..	6·7	..	5·3	0	0	28	0	2	10	5	6	4	1	0	3	0
	0830	"	1000·0	999·3	—1·8	28·9	26·3	25·2	32·1	81	—1	7·1	+0·2	7·9	0	1	29	0	2	8	9	4	6	1	0	1	0
	1130	"	999·4	998·7	..	30·7	26·9	25·3	32·2	73	..	7·1	..	9·2	0	2	28	0	1	7	11	5	4	1	1	1	0
	1430	"	997·4	996·7	..	30·3	26·8	25·3	32·2	76	..	7·1	..	9·6	0	2	29	0	2	10	8	6	4	1	0	0	0
	1730	"	997·1	996·4	..	29·2	26·6	25·5	32·6	81	..	6·9	..	7·5	0	0	29	0	1	8	6	10	3	1	0	2	0
	2030	"	999·2	998·5	..	27·8	26·1	25·3	32·2	86	..	4·5	..	6·0	0	0	27	0	0	8	8	7	4	0	0	4	0
	2330	"	999·6	998·9	..	27·4	26·8	25·4	32·4	89	..	5·1	..	6·1	0	0	28	0	0	7	9	7	5	0	0	3	0
Calcutta	0830	6	999·8	999·1	—2·1	28·9	26·4	25·3	32·2	81	—4	5·9	—0·8	7·0	0	1	29	0	1	10	7	7	4	1	0	1	0
	1130	"	999·1	998·4	..	30·9	27·0	25·4	32·4	73	..	6·1	..	8·9	0	2	29	1	2	7	7	6	6	2	0	0	0
	1730	"	996·9	996·2	..	29·2	26·7	25·7	33·0	82	..	5·8	..	6·5	0	0	28	0	2	5	3	16	1	1	0	3	0
Midnapore	0830	45	999·5	994·4	—2·2	28·1	26·3	25·5	32·6	86	+3	5·5	—0·2	4·3	0	0	26	1	4	5	1	8	5	0	0	5	0
	1730	"	996·8	991·9	..	28·7	26·4	25·5	32·6	84	..	5·8	..	3·0	0	0	25	2	2	1	3	15	2	0	0	6	0
Contai	0830	11	999·4	998·2	—1·7	28·8	26·8	26·0	33·6	85	0	4·6	—1·5	10·0	0	4	25	0	4	3	5	5	10	2	0	2	0
	1730	"	997·0	995·8	..	28·9	26·8	25·9	33·4	84	..	4·3	..	10·9	0	6	23	0	0	5	3	15	5	1	0	2	0
Sagar Island	0830	3	999·3	999·0	—2·3	28·3	26·8	26·2	34·0	88	+4	6·0	—0·8	24·6	0	21	8	0	3	3	5	5	12	1	0	2	0
	1730	"	996·7	996·4	..	29·0	26·9	26·1	33·8	84	..	5·6	..	26·3	0	23	8	0	0	4	7	10	9	0	1	0	0
Sandheads	0530	10	997·5	996·4	..	28·3	26·4	25·7	33·0	85	..	6·5	..	21·9	1	12	18	0	3	1	4	6	14	2	1	0	0
	0830	"	999·5	998·4	—2·6	28·6	26·4	25·5	32·6	84	+1	6·0	+0·2	20·8	0	16	15	1	1	4	4	4	15	1	1	0	0
	1130	"	999·1	998·0	..	29·0	26·7	25·7	33·0	82	..	6·2	..	22·8	0	17	14	0	1	4	2	4	15	4	1	0	0
	1730	"	996·7	995·6	..	29·1	26·7	25·7	33·0	82	..	6·4	..	21·3	0	15	16	0	2	3	5	6	14	1	0	0	0
	2330	"	998·9	997·8	..	28·5	26·5	25·7	33·0	85	..	..	..	22·6	0	17	14	0	2	3	2	3	17	4	0	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—																											
Baripada	0830	54	1000·3	994·1	..	28·1	26·3	25·5	32·6	86	..	6·5	..	3·9	0	0	25	4	5	2	1	5	5	1	1	6	1
	1730	,,	997·6	991·5	..	28·4	26·4	25·6	32·8	85	..	6·5	..	3·3	0	0	24	1	1	2	4	8	6	1	1	7	0
Jharsuguda	0230	230	998·1	972·5	..	25·4	24·7	24·3	30·4	94	..	7·0	..	7·8	0	3	22	0	2	0	3	5	7	6	2	6	0
	0530	,,	998·3	972·6	..	25·1	24·5	24·2	30·2	94	..	7·4	..	7·3	0	1	21	0	2	1	2	4	7	6	0	9	0
	0830	,,	999·8	974·2	−1·7	26·5	25·1	24·5	30·7	88	+1	7·5	+0·3	10·8	0	2	27	1	2	0	2	3	7	13	1	2	0
	1130	,,	999·1	973·7	..	28·6	25·8	24·6	30·9	80	..	7·1	..	13·2	0	8	21	2	4	1	1	1	8	11	1	2	0
	1730	,,	996·5	971·1	..	27·8	25·4	24·3	30·4	82	..	7·5	..	11·5	0	5	23	1	2	1	1	3	5	13	2	3	0
	2330	,,	999·4	973·8	..	25·9	24·9	24·5	30·7	91	..	6·9	..	8·4	0	1	25	0	3	0	3	6	7	6	1	5	0
Keonjhargarh	0830	463	997·5	946·9	..	25·7	23·8	22·9	27·9	84	..	6·0	..	2·2	0	0	29	9	1	1	1	0	0	14	3	2	0
	1730	,,	993·9	943·6	..	26·4	24·1	23·1	28·3	83	..	5·5	..	2·1	0	0	31	4	0	4	2	3	6	11	1	0	0
Balasore	0830	20	999·3	997·1	−2·3	28·2	26·2	25·4	32·4	85	+2	6·7	+0·9	9·9	0	2	29	2	4	1	0	10	13	0	1	0	0
	1730	,,	996·7	994·5	..	28·7	26·4	25·5	32·6	83	..	(a) 6·8	..	(a) 10·2	0	3	26	0	2	3	5	6	10	2	1	1	0
Sambalpur	0830	148	1000·0	983·5	−2·0	27·0	25·2	24·4	30·5	86	+1	6.8	+0·2	5.6	0	2	21	1	1	0	0	1	18	2	0	8	0
	1730	,,	997·3	980·6	..	27·5	25·3	24·3	30·4	84	..	6.3	..	6.4	0	2	22	2	2	0	0	1	17	0	2	7	0
Angul	0830	139	999·9	984·5	−1.9	27·1	25·1	24·2	30·2	85	+4	7·7	+1·7	4·9	0	0	29	1	1	0	3	1	3	10	10	2	0
	1730	,,	996·9	981·5	..	28·1	25·4	24·3	30·4	80	..	7·6	..	4·6	0	0	28	3	1	0	3	4	3	10	4	3	0
Cuttack	0830	27	1000·2	997·2	−2.1	27·6	25·8	25·0	31·7	86	+5	6·3	+0·3	7·2	0	1	24	0	1	2	1	1	9	6	5	6	0
	1730	,,	997·3	994·3	..	29·3	26·6	25·5	32·6	81	..	6·3	..	8·3	0	3	23	0	3	4	1	4	8	6	0	5	0
Chandbali	0830	6	999·	998·9	−2.5	28·1	26·1	25·3	32·2	85	..	7·0	+0·9	7·0	0	2	27	1	2	2	2	5	11	4	2	2	0
	1730	,,	997·0	996·3	..	28·6	26·5	25·7	33·0	83	..	6·3	..	8·9	0	1	27	0	3	1	6	5	4	3	6	3	0
Bolangir	0830	190	1000·7	979·4	..	26·5	24·7	23·9	29·7	86	..	6·9	..	8·3	0	0	31	1	1	1	0	10	12	4	2	0	0
	1730	,,	997·8	976·5	..	27·5	25·1	24·0	29·8	83	..	2·0	..	8·1	0	0	29	0	0	1	1	11	13	2	0	2	1
Phulbani	0830	464	998·7	947·8	..	25·3	23·5	22·7	27·6	86	−3	7·4	..	1·2	0	0	9	0	0	0	0	0	5	4	0	22	0
	1730	,,	995·4	944·8	..	26·2	23·9	22·9	27·9	83	..	6·3	..	1·0	0	0	8	1	0	0	1	0	2	4	0	23	0
Titlagarh	0830	211	1001·1	977·6	..	26·4	24·7	23·9	29·7	87	..	6·6	..	4·6	0	0	31	1	2	0	0	8	20	0	0	0	0
	1730	,,	998·2	974·7	..	27·3	25·3	24·4	30·5	84	..	7·3	..	4·7	0	0	28	1	1	0	3	8	12	1	2	3	0
Bhubaneswar	0230	46	998·6	993·3	..	26·1	25·3	25·0	31·7	94	..	5·0	..	11·4	0	5	22	0	0	0	2	0	16	6	3	4	0
	0530	,,	998.8	993·5	..	25·8	25·1	24·7	31·1	94	..	5·8	..	10·1	0	4	26	1	1	0	2	1	14	5	6	1	0
	0830	,,	1000·3	995·1	−1·1	27·9	25·8	24·9	31·5	85	−1	6·4	−0·4	13·7	0	8	22	0	2	0	1	1	14	6	6	1	0
	1130	,,	999.8	994.6	..	29.4	26.2	24·8	31·3	77	..	6·7	..	16·7	0	12	19	2	0	1	1	1	11	9	6	0	0
	1430	,,	997.7	992.5	..	29.7	26·6	25·3	32·2	78	..	6·8	..	16·3	0	9	22	2	2	1	2	3	9	9	3	0	0
	1730	,,	997·5	992·3	..	28·3	26·1	25·2	32·1	84	..	6·4	..	13·3	0	10	18	0	2	1	1	4	11	5	3	3	1
	2330	,,	999·9	994·7	..	26·8	25·8	25·4	32·4	92	..	4·8	..	10·6	0	3	26	1	1	0	2	3	14	6	2	2	0
Puri	0830	6	1000·2	999.5	−2·0	28·6	26·7	25·9	33·4	85	+3	6·1	+0·5	16·3	0	10	20	3	2	0	2	0	17	2	4	1	0
	1730	,,	997.5	996.8	..	28·7	26·9	26·2	34·0	87	..	6·4	..	17·7	0	13	17	1	2	0	5	4	17	1	0	1	0
Gopalpur	0530	17	999·1	997·2	..	26·5	25·3	24·8	31·3	91	..	6·8	..	8·5	0	5	19	3	0	0	0	3	16	1	1	7	0
	0830	,,	1000·8	998·9	−1·6	28·0	26·0	25·2	32·1	85	+4	6·8	+1·8	11·7	0	8	17	3	0	0	1	3	15	1	2	6	0
	1130	,,	1000·3	998·4	..	30·0	26·8	25·5	32·6	78	..	6·8	..	16·3	0	10	19	1	0	0	1	5	15	3	4	2	0
	1730	,,	998·0	996·1	..	27·8	26·1	25·3	32·2	87	..	7·3	..	14·8	0	9	20	0	0	0	2	4	15	4	3	2	1
	2330	,,	1000·4	998·5	..	27·1	25·8	25·3	32·2	90	..	6·6	..	9·7	0	6	18	2	0	0	1	2	14	3	2	7	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1000·4	983·8	−1.3	27·8	25·9	25·1	31·9	84	+1	6·3	+0·5	7·5	0	0	30	3	4	6	11	2	4	0	0	1	0
	1730	,,	997·0	980·6	..	29·1	26·1	24·8	31·3	78	..	5·6	..	6·3	0	0	27	0	2	11	9	2	2	1	0	4	0
Daltonganj	0830	221	999·5	975·0	−1·6	28·5	26·3	25·4	32·4	83	0	4·5	−0·5	3·4	0	0	29	0	9	0	5	0	11	1	3	2	0
	1730	,,	995·0	970·8	..	29·4	26·9	25·9	33·4	83	..	4·3	..	4·6	0	0	31	3	5	2	5	5	6	2	3	0	0
Hazaribagh	0830	611	999·4	932·8	−1·9	25·3	23·7	22·9	27·9	88	+4	7·0	−0·2	10·3	0	3	[illegible]	0	4	4	6	6	2	2	4	3	0
	1730	,,	996·2	930·1	..	26·6	24·3	23·3	28·6	82	..	6·8	..	9·9	0	4	[illegible]	0	3	6	7	6	3	0	3	3	0
Dhanbad	0830	257	999·4	970·9	..	26·7	25·4	24·9	31·5	89	..	6·5	..	(d) 4·7	0	0	24	0	4	1	11	0	0	0	2	3	1
	1730	,,	996·7	968·3	..	27·7	25·8	24·9	31·5	85	..	5·9	..	(b) 3·3	0	0	20	0	2	6	8	1	1	1	1	9	0
Ranchi	0830	655	999·3	927·6	−2·0	22·7	21·3	20·6	24·3	88	+3	7·0	+0·3	1·2	0	0	17	5	5	4	0	1	1	0	1	14	0
	1730	,,	997·3	926·0	..	23·9	21·7	20·7	24·4	82	..	7·0	..	1·3	0	0	21	4	7	7	1	1	1	0	0	10	0
Ranchi Aerodrome	0530	652	998·1	926·9	..	23.4	22.9	22.7	27.6	97	..	7.0	..	11.2	0	2	25	4	5	3	1	7	5	1	1	4	0
	0830	,,	999.1	928.2	..	24·9	23.7	23.2	28.4	90	..	7.2	..	14.7	0	5	25	1	10	1	1	8	5	1	3	1	0
	1130	,,	998·3	927·9	..	26·9	24·7	23·8	29·5	83	..	6·9	..	15·1	0	7	21	3	9	2	2	5	4	2	1	3	0
	1430	,,	996.2	926.0	..	27·3	25·0	24·1	30·0	83	..	6·9	..	13·9	0	2	29	4	10	5	2	4	4	2	0	0	0
	1730	,,	995.1	925.7	..	26·1	24·4	23·7	29·8	87	..	6·8	..	11·7	0	2	28	3	7	7	3	5	2	2	1	1	0

(R) Register not received. (d) Mean of 27 days. (b) Mean of 29 days. (a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*(Contd.)*																											
Jamshedpur	0830	129	999·3	984·9	—2·3	28·0	25·9	25·1	31·9	84	+2	6·3	—0·4	5·1	0	0	25	0	3	8	1	1	5	4	3	6	0
	1730	,,	996·1	981·9	..	29·3	26·3	25·0	31·7	79	..	6·9	..	6·0	0	1	23	2	2	9	3	2	2	3	1	7	0
Jamshedpur (P.B.O.)	0530	142	998·1	982·3	..	28·9	25·0	24·6	30·9	93	..	6·4	..	4·4	0	2	14	0	4	2	3	1	3	1	2	15	0
	0830	,,	999·5	983·7	..	27·6	25·5	24·5	30·7	84	..	6·9	..	6·5	0	2	19	1	7	1	2	5	4	0	1	10	0
	1130	,,	998·9	983·2	..	29·1	26·2	24·9	31·5	79	..	6·9	..	7·1	0	0	28	2	7	5	0	5	5	4	0	3	0
	1430	,,	996·7	981·1	..	30·1	26·5	25·0	31·7	75	..	6·8	..	7·9	0	3	24	1	7	7	2	3	3	2	2	4	0
	1730	,,	996·3	980·7	..	29·0	26·0	24·7	31·1	79	..	7·1	..	6·5	0	1	24	1	7	3	5	1	6	1	1	6	0
	2330	,,	999·2	983·4	..	26·9	25·5	24·7	31·5	93	..	5·7	..	3·6	0	0	17	0	8	1	0	2	4	0	2	14	0
Chaibasa	0830	226	999·2	974·1	—1·9	27·1	25·2	24·3	30·4	85	+2	7·3	+0·9	4·1	0	0	26	0	9	0	0	1	14	1	1	5	0
	1730	,,	976·1	971·1	..	28·6	26·1	25·1	31·9	84	..	7·5	..	2·6	0	0	18	0	7	0	1	0	7	2	1	13	0
Bihar Plains																											
Motihari	0830	66	1000·1	992·6	—18	28·9	26·7	25·8	33·2	85	+1	6·0	+0·9	(a) 3·4	0	0	23	1	0	15	5	0	1	0	1	7	0
	1730	,,	996·9	989·5	..	30·4	27·5	26·3	34·2	80	..	5·1	..	1·7	0	0	14	0	1	10	2	0	0	0	1	17	0
Forbesganj	0830	61	1001·0	994·2	..	28·7	26·3	25·3	32·2	82	..	6·2	..	5·9	0	0	30	0	4	17	6	0	0	3	0	1	0
	1730	,,	997·5	990·7	..	30·2	27·0	25·7	33·0	75	..	5·2	..	4·3	0	1	29	0	0	16	9	0	1	4	0	1	0
Darbhanga	0830	49	1001·2	995·7	—0·5	29·3	26·9	25·7	33·0	79	—3	5·4	—0·7	4·9	0	2	19	1	3	15	1	0	0	0	1	10	0
	1730	,,	998·7	993·1	..	31·3	27·8	26·5	34·6	76	..	5·8	..	5·0	0	3	19	1	4	15	1	0	0	1	0	9	0
Chapra	0830	58	1000·2	993·7	..	29·6	27·0	26·0	33·6	81	..	6·4	..	3·9	0	0	30	2	13	8	5	0	0	2	0	1	0
	1730	,,	997·3	990·9	..	31·2	27·7	26·3	34·2	75	..	5·5	..	2·8	0	0	30	1	13	6	3	0	1	3	3	1	0
Purnea	0830	38	1000·9	996·7	—1·3	28·7	26·7	25·9	33·4	85	—1	5·6	—0·2	4·4	0	0	31	0	0	24	3	0	1	3	0	1	0
	1730	,,	997·2	993·1	..	30·1	27·1	25·9	33·4	78	..	5·2	..	4·5	0	0	29	2	4	16	4	1	0	2	0	2	0
Patna	0830	53	999·9	994·0	—1·5	28·9	26·4	25·3	32·2	81	—1	6·5	—0·4	9·7	0	3	28	1	10	13	3	0	0	2	2	0	0
	1730	,,	996·7	990·7	..	30·8	26·8	25·1	31·9	72	..	5·4	..	7·5	0	1	29	1	15	9	0	0	1	4	0	1	0
Patna Aerodrome	0530	60	998·0	991·3	..	27·3	26·1	25·6	32·8	91	..	6·7	..	8·3	0	3	19	0	1	15	4	1	1	0	0	9	0
	0830	,,	999·5	992·3	..	29·0	26·7	25·7	33·0	83	..	6·7	..	13·7	0	5	25	0	0	14	10	2	0	3	1	1	0
	1130	,,	999·0	992·3	..	30·9	27·2	25·7	33·0	74	..	6·5	..	15·2	0	8	23	3	1	14	10	0	2	0	1	0	0
	1430	,,	996·7	990·1	..	31·1	27·1	25·5	32·6	72	..	6·5	..	13·6	0	3	28	1	1	16	7	1	2	1	2	0	0
	1730	,,	996·0	989·4	..	30·5	26·8	25·3	32·2	74	..	6·0	..	9·5	0	2	26	0	1	20	2	0	0	1	3	3	1
	2330	,,	998·9	992·2	..	28·2	26·5	25·8	33·2	87	..	5·0	..	9·5	0	5	19	0	0	17	5	1	1	0	0	7	0
Bhagalpur	0530	49	999·1	993·6	..	27·0	26·1	25·7	33·0	93	..	7·4	..	5·2	0	1	23	0	0	8	14	1	1	0	0	7	0
	0830	,,	1000·5	995·1	—1·1	29·5	26·9	25·9	33·4	81	—3	7·0	+0·5	8·8	0	3	26	0	0	13	10	2	3	1	0	2	0
	1130	,,	1000·0	994·6	..	31·4	27·6	26·1	33·8	74	..	7·1	..	10·3	0	6	24	0	2	10	13	1	2	1	1	1	0
	1730	,,	997·2	991·8	..	30·3	26·9	25·5	32·6	76	..	7·0	..	8·3	0	11	17	1	1	13	10	0	2	1	0	3	0
	2330	,,	999·9	994·4	..	27·9	26·4	25·7	33·0	83	..	5·5	..	6·0	0	1	26	0	3	8	15	1	0	0	0	4	0
Sabour	0830	37	1000·3	996·1	—1·6	28·9	27·2	26·5	34·6	86	+1	6·5	—0·1	7·9	0	0	30	0	1	19	4	1	1	1	3	1	0
	1730	,,	997·3	993·1	..	29·3	27·7	26·7	35·0	82	..	6·4	..	7·7	0	0	29	2	2	19	3	1	0	2	0	2	0
Jammu	0830	82	1000·2	991·0	..	29·3	27·4	26·7	35·0	86	..	2·3	..	3·7	0	0	31	0	3	12	5	3	0	6	2	0	0
	1730	,,	997·4	988·3	..	29·9	27·5	26·6	34·8	83	..	2·8	..	3·2	0	0	30	0	2	7	7	4	0	4	6	1	0
Delhi	0830	107	999·1	987·2	..	28·8	26·5	25·5	32·6	82	..	6·5	..	3·6	0	0	30	2	4	7	5	4	3	2	3	1	0
	1730	,,	995·3	983·5	..	30·3	26·7	25·2	32·1	77	..	6·6	..	3·8	0	0	31	2	5	12	3	0	1	6	2	0	0
Gaya	0230	116	998·2	985·3	..	27·0	26·0	25·6	32·8	92	..	4·6	..	4·8	0	1	21	0	2	10	4	0	4	2	0	9	0
	0530	,,	998·2	985·2	..	26·5	25·9	25·6	32·8	94	..	5·6	..	4·5	0	2	23	0	3	11	3	2	5	1	0	6	0
	0830	,,	999·5	986·6	—1·5	28·9	26·6	25·7	33·0	83	+6	5·7	+0·5	8·3	0	2	26	0	0	11	7	1	6	3	0	3	0
	1130	,,	999·2	986·4	..	31·3	27·3	25·7	33·0	72	..	5·9	..	9·9	0	2	29	1	1	9	10	1	1	3	5	0	0
	1730	,,	996·1	983·3	..	30·5	26·9	25·4	32·4	75	..	6·2	..	7·3	0	3	25	0	3	11	6	2	2	1	3	3	0
	2330	,,	999·1	986·2	..	27·6	26·3	25·7	33·0	90	..	4·7	..	4·9	0	0	24	0	1	10	6	1	5	1	0	7	0
Uttar Pradesh (East)																											
Kheri	0830	147	999·0	982·6	—2·1	27·7	26·2	25·6	32·8	89	+1	5·5	+0·1	2·5	0	0	25	0	2	21	1	0	0	1	0	6	0
	1730	,,	995·8	979·6	..	31·1	27·5	26·1	33·8	75	..	5·7	..	2·1	0	0	26	0	1	20	1	1	0	3	0	5	0
Bahraich	0830	124	1000·1	986·3	—0·8	29·1	26·3	25·3	32·1	82	0	6·7	+2·2	5·9	0	2	22	0	0	23	1	0	0	0	0	7	0
	1730	,,	996·7	983·2	..	30·9	27·3	25·6	32·8	74	..	6·4	..	6·5	0	1	19	0	0	16	1	0	2	1	0	11	0
Nautanwa	0830	99	999·4	988·4	..	28·6	26·2	25·3	32·2	83	..	5·3	..	3·6	0	0	27	0	4	9	9	2	2	0	1	4	0
	1730	,,	996·6	986·0	..	30·9	27·2	25·7	33·0	75	..	5·1	..	3·5	0	0	26	0	3	11	7	0	1	1	3	5	0
Hardoi	0830	142	..	..	..	29·0	26·6	25·6	32·8	82	—5	5·3	—0·1	7·0	0	0	29	0	1	18	6	1	1	2	0	2	0
	1730	,,	..	..	..	32·1	27·5	25·8	32·2	69	..	4·1	..	3·4	0	0	28	0	0	21	4	0	1	2	0	3	0
Gonda	0830	110	999·9	987·0	..	29·3	26·8	25·8	33·2	82	—2	5·4	—0·8	3·3	0	0	24	0	0	24	0	0	0	0	0	0	0
	1730	,,	996·7	984·6	..	30·5	27·5	26·3	34·2	79	..	4·4	..	1·7	0	0	19	0	1	15	0	1	1	1	0	12	0
Lucknow	0830	111	998·9	986·7	—1·6	28·9	26·8	25·8	33·2	84	+1	5·9	0	4·0	0	0	27	1	8	7	5	2	2	0	2	4	0
	1730	,,	995·8	983·4	..	32·3	27·9	26·1	33·8	70		5·6	..	2·6	0	0	22	0	8	9	0	1	0	3	1	9	0

(a) Mean of 30 days.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or high in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 to more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Lucknow (Amausi)	0230	128	997.6	983.4	..	27.2	26.1	25.7	33.0	92	..	5.4	..	6.0	0	0	24	0	7	9	2	2	2	1	1	7	0
	0530	,,	997.9	983.6	..	26.6	25.8	25.4	32.4	93	..	6.5	..	6.3	0	1	20	0	5	10	2	1	2	1	0	10	0
	0830	,,	999.1	984.9	−1.6	28.7	26.6	25.8	33.2	85	+4	6.6	+0.7	13.0	0	7	23	0	2	17	6	0	4	0	1	1	0
	1130	,,	998.9	984.8	..	31.3	27.3	25.7	33.0	73	..	6.6	..	15.4	0	7	24	0	2	12	8	3	1	2	3	0	0
	1430	,,	996.7	982.7	..	32.5	27.6	25.6	32.8	67	..	6.5	..	15.0	0	13	16	0	4	10	8	2	1	1	3	2	0
	1730	,,	995.7	981.7	..	31.4	27.4	25.8	33.2	73	..	5.8	..	9.4	0	11	14	0	5	10	2	2	3	0	3	6	0
	2030	,,	997.6	983.5	..	28.7	27.0	26.3	34.2	87	..	4.5	..	4.0	0	0	20	0	6	9	2	1	0	1	1	11	0
	2330	,,	998.5	984.3	..	27.9	26.7	26.2	33.8	91	..	4.6	..	5.7	0	0	20	0	6	7	3	1	2	1	0	11	0
Faizabad	0830	102	999.3	988.0	..	28.8	26.5	25.6	32.8	83	..	6.2	..	4.0	0	0	24	1	2	5	15	1	0	0	0	7	0
	1730	,,	996.2	985.0	..	30.6	27.4	26.0	33.6	77	..	5.8	..	4.0	0	0	20	1	3	6	8	0	2	0	0	11	0
Gorakhpur	0830	77	999.6	991.0	−1.7	29.3	26.6	25.1	31.9	80	−5	6.2	+1.4	2.3	0	0	27	0	1	21	4	0	0	1	0	4	0
	1730	,,	995.7	987.4	..	30.8	27.2	25.4	32.4	74	..	5.6	..	4.5	0	0	27	2	5	15	2	0	1	2	0	4	0
Gorakhpur P.B.O.	0230	78	998.5	989.8	..	27.7	26.4	26.0	33.6	91	..	4.6	..	6.8	0	2	21	0	13	6	2	0	0	1	1	8	0
	0530	,,	998.4	989.5	..	26.9	26.0	25.6	32.8	92	..	5.7	..	5.8	0	0	25	3	10	8	3	0	0	1	0	6	0
	1130	,,	999.6	990.9	..	30.6	27.6	26.7	35.0	80	..	6.2	..	10.0	0	3	27	0	5	10	10	5	0	0	0	1	0
	1430	,,	997.3	988.7	..	31.3	27.7	26.7	35.0	77	..	5.6	..	9.0	0	1	30	1	6	10	7	5	0	2	0	0	0
	2030	,,	998.6	989.9	..	28.6	26.9	26.1	33.8	87	..	3.6	..	5.0	0	1	22	1	6	11	4	1	0	0	0	8	0
	2330	,,	999.4	990.7	..	27.8	26.6	26.1	33.2	89	..	3.6	..	6.5	0	1	25	1	12	9	2	2	0	0	0	5	0
Kanpur	0830	126	998.8	984.7	−2.0	28.5	26.6	25.8	33.2	86	−1	6.2	+1.6	7.9	0	1	27	0	1	19	3	1	0	4	0	3	0
	1730	,,	995.6	981.7	..	31.4	27.2	25.8	32.6	72	..	5.2	..	7.2	0	1	28	3	0	17	2	0	3	4	0	2	0
Kanpur (Aerodrome)	0530	126	997.7	983.7	..	27.1	26.1	25.7	33.0	92	..	6.4	..	10.6	0	0	29	0	3	13	2	3	2	4	1	2	1
	0830	,,	998.9	982.4	..	28.7	26.6	25.6	32.8	82	..	5.7	..	15.1	0	0	30	1	1	14	7	1	2	4	0	1	0
	1130	,,	998.8	985.0	..	31.7	27.0	25.2	31.9	69	..	6.6	..	6.9	0	0	31	0	1	13	8	2	2	3	2	0	0
	1730	,,	995.3	982.3	..	31.3	27.4	24.7	31.1	72	..	6.6	..	15.0	0	0	31	0	1	13	7	2	1	6	1	0	0
	2330	,,	998.7	984.5	..	28.2	26.6	26.0	33.6	85	..	5.4	..	7.8	0	0	24	0	2	14	3	0	0	3	2	7	0
Sultanpur	0830	97	999.7	983.5	..	29.0	26.8	25.9	33.4	84	..	5.1	..	2.1	0	0	16	0	3	4	7	0	1	0	1	15	0
	1730	,,	995.6	985.2	..	30.9	28.1	27.3	36.3	79	..	5.2	..	1.6	0	0	19	0	2	10	5	0	0	2	0	12	0
Azamgarh	0830	78	998.9	990.9	..	28.7	27.2	26.6	34.8	88	..	7.0	..	9.0	0	0	29	1	10	10	1	0	2	5	0	2	0
	1730	,,	995.9	987.6	..	30.2	27.7	27.1	35.9	84	..	6.0	.	5.0	0	0	27	2	2	18	0	0	0	5	0	4	0
Fatehpur	0830	114	999.1	986.4	..	29.0	26.8	25.9	33.4	84	−1	6.2	+0.2	6.5	0	0	28	1	5	7	4	1	5	4	1	3	0
	1730	,,	995.8	983.1	..	31.3	27.3	25.7	33.0	72	..	5.8	..	5.9	0	0	28	1	6	6	5	0	3	6	1	3	0
Ballia	0830	64	1000.3	993.2	..	29.2	27.0	26.3	34.2	85	..	7.0	..	3.5	0	0	22	0	2	14	1	1	1	3	0	9	0
	1730	,,	997.5	990.9	..	30.3	27.6	26.5	34.6	80	..	6.4	..	1.9	0	0	19	1	3	12	1	0	1	1	0	12	0
Banda	0830	121	999.6	986.0	..	29.0	26.7	25.8	33.2	84	..	5.5	..	3.1	0	0	27	0	5	1	4	1	12	1	3	4	0
	1730	,,	996.3	982.3	..	31.2	27.5	26.1	33.8	76	..	2.1	..	3.2	0	0	26	0	5	1	7	0	12	1	0	5	0
Allahabad (Bamhrauli)	0230	98	997.5	986.3	..	27.2	25.9	25.3	32.4	90	..	5.7	..	3.4	0	0	21	0	6	9	0	2	3	1	0	10	0
	0530	,,	997.7	986.7	..	26.8	25.8	25.4	32.4	89	..	6.2	..	4.1	0	0	24	0	11	3	2	2	3	1	2	7	0
	0830	,,	999.1	988.2	−1.7	28.7	26.4	25.5	32.7	84	0	6.8	0	6.1	0	1	27	0	9	9	0	3	4	2	1	3	0
	1130	,,	998.9	988.1	..	31.6	27.4	25.7	33.1	72	..	6.5	..	6.7	0	0	29	1	8	7	0	2	3	8	0	2	0
	1430	,,	996.8	986.0	..	32.2	27.6	25.7	33.0	70	..	6.8	..	6.3	0	0	29	3	8	5	1	0	3	7	2	2	0
	1730	,,	995.6	984.8	..	30.7	27.2	25.7	33.1	76	..	6.7	..	5.2	0	0	29	4	7	6	0	2	4	4	2	2	0
	2030	,,	997.6	986.0	..	28.9	26.9	26.2	34.0	86	..	6.3	..	2.1	0	0	17	1	7	2	2	1	3	1	0	14	0
	2330	,,	998.6	987.7	..	27.8	26.2	25.6	32.9	88	..	6.0	..	2.8	0	0	21	0	7	5	3	1	3	1	1	10	0
Varanasi (Babatpur)	0530	85	998.6	988.9	..	27.1	26.9	25.3	32.2	89	..	6.1	..	7.0	0	1	27	0	6	11	2	2	5	2	0	3	0
	0830	,,	1000.1	990.5	−1.0	28.8	26.7	25.9	33.4	85	0	6.7	+0.4	10.4	0	2	27	0	8	8	4	1	5	0	2	2	1
	1130	,,	1000.0	990.2	..	31.4	27.3	25.7	33.0	73	..	6.5	..	12.3	0	5	24	1	4	10	5	0	7	2	0	2	0
	1730	,,	996.7	987.2	..	31.0	27.6	26.2	34.0	77	..	5.8	..	8.5	0	1	30	0	4	12	6	0	5	4	0	0	0
	2330	,,	999.4	989.8	..	28.3	26.4	25.7	33.0	86	..	4.3	..	5.6	0	1	20	0	0	14	3	1	2	1	0	10	0
Varanasi	0830	76	999.0	990.6	−1.8	28.5	26.6	25.8	33.2	86	+2	5.9	−0.6	2.1	0	0	31	3	6	7	2	0	3	8	2	0	0
Uttar Pradesh (West)	1730	,,	995.6	987.1	..	31.1	27.3	26.6	34.8	76	..	5.8	..	2.5	0	0	30	4	8	9	0	1	2	6	0	1	0
Mukhim	0830	76	..	..	..	18.8	18.0	17.5	20.0	92	..	6.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20.2	18.8	18.1	20.8	88	..	6.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	,,	..	..	..	25.3	23.6	22.8	27.5	87	..	3.5	..	1.1	0	0	8	0	4	0	0	2	2	0	0	23	0
	1130	..	..	..	..	29.2	24.4	22.1	26.6	69	..	6.0	..	1.7	0	0	11	0	0	3	1	2	3	2	0	20	0
	1730	,,	..	..	..	29.9	24.5	22.1	26.6	64	..	5.9	..	3.4	0	0	23	1	1	1	8	5	5	0	0	8	2
Dehra Dun	0530	682	999.1	924.3	..	23.9	23.0	22.6	27.1	92	..	7.5	..	1.0	0	0	9	5	3	0	1	0	0	0	0	22	0
	0830	,,	1000.0	925.8	−1.1	24.8	23.7	23.4	28.6	91	+6	7.0	+0.5	1.3	0	0	18	5	2	1	1	6	1	0	2	13	0

Sub-Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in gpm. of nearest standard isobaric level	Mean pressure in millibars: At Station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) – (*Contd.*) Dehra Dun—*Contd.*	1130	682	999.9	926.2	..	27·2	24·3	22·7	28·1	79	..	6.9	..	1·9	0	0	23	3	0	1	7	1	6	4	1	8	0
	1730	,,	996.7	923.2	..	28.2	24.8	23·8	28·8	82	..	6.7	..	2·0	0	0	21	5	2	2	1	3	7	1	0	10	0
	2330	,,	999.4	925.2	..	25·0	23.9	23.4	28·8	91	..	7.0	..	1·3	0	0	12	3	6	1	0	1	1	0	0	19	0
Mussiari	0830	,,	..	..	..	17.3	16.5	16.3	18.5	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	,,	..	..	..	18.3	17.1	16.4	18.6	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Roorkee	0830	274	999.5	967.2	−1·4	27.5	25.9	24.7	31.1	85	+3	5.2	−0.1	1.2	0	0	20	0	1	0	16	0	2	0	1	11	0
	1730	,,	996.5	966.6	..	30.3	26.3	24.9	31.5	74	..	4·6	..	0·9	0	0	15	0	1	0	10	0	1	0	3	16	0
Najibabad	0830	270	1000.3	970.3	..	27.8	25.6	24.9	31.5	84	..	6.3	..	4.3	0	0	25	0	5	16	4	0	0	0	0	6	0
	1730	,,	997.8	968.2	..	29.9	26.9	25.6	32.8	78	..	5.6	..	4.5	0	0	25	0	1	12	6	0	0	4	2	6	0
Meerut	0830	222	999.4	975.0	−1.2	29.0	26.6	23·9	29.7	75	−5	4.1	−1.1	6.1	0	0	31	0	0	20	0	3	0	6	2	0	0
Bareilly	0830	173	999.5	980.3	1.4	29.1	25.6	25.6	32.8	82	−2	5.5	−0.4	7.7	0	0	31	0	2	4	15	4	1	2	3	0	0
	1730	,,	996.0	977.0	..	31.2	27.3	25.8	33.2	73	..	5.4	..	5.3	0	0	31	4	0	2	6	8	7	3	1	0	0
Bareilly P.B.O.	0230	172	998.3	975.6	..	28.1	26.3	25.6	32.6	86	..	3.8	..	3.8	0	0	28	1	2	19	2	2	0	2	0	3	0
	0530	,,	998.2	978.9	..	27.4	25.9	25.7	33.0	88	..	5.5	..	4.1	0	0	30	0	5	21	1	0	0	2	1	1	0
	1130	,,	999.5	980.5	..	31.8	27.1	25.3	32.2	73	..	6.0	..	5.8	0	0	30	2	1	15	9	0	1	1	1	1	0
	1430	,,	997.3	978.4	..	32.1	27.3	25.8	33.2	70	..	5·6	..	5.5	0	0	30	0	2	13	7	0	2	4	2	1	0
	2030	,,	997.8	978.4	..	29.6	26 0	25.8	33.2	80	..	3·8	..	3.9	0	0	29	1	2	17	1	1	2	5	0	2	0
	2330	,,	998.8	979·6	..	28.7	26.6	25.9	33.4	85	..	4.9	..	3.6	0	0	29	0	2	18	4	2	2	1	0	2	0
Aligarh	0830	187	999.4	978·2	..	28.9	26.5	25.5	32·6	83	+5	6.5	+1.9	4.5	0	0	29	6	2	15	0	1	1	4	0	2	0
	1730	,,	996.3	975.4	..	31.3	27.0	25.2	32.1	71	..	6.3	..	2.5	0	0	29	2	0	14	5	2	0	4	2	2	0
Mainpuri	0830	157	998.5	981.4	−1·8	29.1	26.6	25.6	32.8	82	+1	3.6	−1.9	3.0	0	0	29	0	8	3	15	0	3	0	0	2	0
	1730	,,	995·7	978·5	..	31·7	27·4	25·7	33·0	72	..	3·0	..	3·0	0	0	30	1	6	1	13	1	7	0	1	1	0
Agra	0830	169	999.3	980.7	−1·3	29.1	26.8	25.9	33.4	84	+7	5.1	−0.5	0	0	0	30	0	0	0	0	0	0	0	0	31	0
	1730	,,	995.9	977.3	..	31.1	27.3	25.7	33.2	74	..	5.9	..	0.8	0	0	3	0	1	1	0	0	0	0	1	28	0
Agra (Aerodrome) (R)	0230	169																									
	0530	,,	997.7	978.9	..	26.6	26·1	25.9	33.4	96	..	5·4	..	7.0	0	0	22	1	3	6	2	2	2	2	3	9	0
	0830	,,	999.2	979.9	..	27.7	26.5	25.9	33.4	89	..	6.0	..	13.0	0	0	28	4	2	6	6	1	2	4	3	3	0
	1130	,,	999·1	980.5	..	31.2	28.3	27.3	36.3	80	..	6.0	..	16.0	0	0	29	4	2	6	6	3	1	2	1	2	0
	1730	,,	995.9	977.4	..	30.9	27.9	26.7	35.0	79	..	6.2	..	15.0	0	0	26	2	1	7	3	2	2	4	4	5	1
	2330	,,	998.5	979.7	..	27.8	26.8	26.4	34.4	92	..	4.6	..	7.0	0	2	17	0	0	6	3	0	4	4	2	12	0
Orai (R)	0830	141																									
(R)	1730	,,																									
Jhansi	0830	251	1000.5	972.7	−0.8	28.5	25.2	23.6	29.1	78	−2	6.5	+1.5	1.7	0	0	25	10	0	6	0	2	0	1	6	6	0
Punjab (India) including Delhi	1730	,,	996.5	969.5	..	30.4	25.9	24.0	29.8	70	..	5.9	..	1.5	0	0	23	12	0	8	0	3	0	0	0	8	0
Pathankot	0530	312	997.7	963.3	..	26.3	24.7	23.8	29.5	85	..	5.4	..	4.3	0	0	14	1	2	10	1	0	0	0	0	17	0
	0830	,,	999.4	965.0	−0.8	28.7	25.1	23.8	29.5	78	−4	6.0	+0.3	5.6	0	0	20	1	6	5	3	3	1	1	0	11	0
	1130	,,	999·3	965.3	..	30.1	25.9	24.1	30.0	72	..	5.5	..	8.6	0	0	25	0	6	3	4	9	3	0	0	6	0
	1730	,,	996.9	962.4	..	31.1	26.1	23.8	29.7	66	..	5.3	..	7.5	0	0	23	2	2	3	2	4	5	3	2	8	0
	2330	,,	998.4	963.9	..	28 0	25.3	24.2	30.2	81	..	4.6	..	2.8	0	1	8	0	3	5	0	1	0	0	0	22	0
Amritsar (Rajasansi)	0530	234	997.5	971.5	..	27.1	26·1	25.7	33.0	92	..	4.5	..	6.4	0	1	20	0	2	12	3	0	1	3	0	10	0
	0830	,,	998.8	973.0	−0.9	29.3	26.7	25.8	33.2	81	−1	4.3	+0.2	9.6	0	3	22	0	1	7	11	2	2	1	1	6	0
	1130	,,	999.1	973.5	..	31.6	27.4	25.8	33.2	73	..	5.2	..	11.1	0	2	28	0	0	10	9	3	2	5	1	1	0
	1430	,,	997.6	972.0	..	31.9	27.4	25.6	32.8	71	..	5.3	..	11.8	0	4	24	0	2	10	7	2	2	2	3	3	0
	1730	,,	995.8	970.3	..	32.3	27.6	25.6	33.2	69	..	5.1	..	10.7	0	2	23	1	1	8	6	4	3	0	2	6	0
	2030	,,	996.7	971.0	..	29.6	27.4	26.4	34.6	84	..	3.9	..	5.5	0	1	19	0	0	9	7	2	1	1	0	11	0
Adampur (Aerodrome)	0830	249	999.1	971.7	..	28.0	26.2	25.6	33.2	86	..	5.6	..	9.0	0	0	22	2	0	6	14	0	0	0	0	9	0
	1730	,,	996.4	967.2	..	30.4	27.3	26.3	34.2	80	..	5.4	..	9.0	0	0	25	3	0	6	4	3	1	4	4	6	0
Ludhiana	0830	247	999.0	971.5	−1.5	28.3	26.2	25.2	32.5	84	+9	5.5	+1.8	1.7	0	0	24	0	5	4	8	1	1	3	2	7	0
	1730	,,	995·8	968.8	..	31.7	27.6	26.0	33.6	73	..	4.6	..	1.9	0	0	26	0	6	1	14	0	3	0	2	5	0
Ferozepur	0830	200	998·8	976.7	..	28·9	26·4	25.4	32·4	82	..	2·9	..	2·1	0	0	26	2	9	2	3	4	5	0	1	5	0
	1730	,,	996.3	974.3	..	31.4	27.1	25.4	32.4	72	..	3.0	..	1.7	0	0	25	6	9	2	2	2	0	0	4	6	0
Halwara (Aerodrome)	0830	242	999.9	973.4	..	28.5	26.1	25.2	32.0	84	..	4.9	..	2.8	0	0	31	1	3	5	13	2	3	3	1	0	0
	1730	,,	997.6	971.4	..	31.8	27.3	25.5	32.6	71	..	5.0	..	9.8	0	0	31	5	4	3	9	5	0	5	0	0	0
Chandigarh	0830	347	999.0	960.8	−1.2	28.0	25.3	24.1	30.0	80	..	4.8	+0.9	1.3	0	0	9	0	0	0	1	0	0	0	8	22	0
	1730	,,	995.7	958.0	..	30.8	26.2	24·1	30.0	69	..	4·0	..	3.4	0	0	12	0	0	0	2	0	0	0	10	19	0
Ambala	0830	272	998.9	968.8	−1.6	29.5	25.3	23.5	28.9	74	−5	4.1	−0.6	1.1	0	0	12	0	3	0	7	0	0	0	2	19	0
	1730	,,	995.8	966.3	..	31.4	26.4	24.5	30.7	68	..	3.4	..	2.0	0	0	18	0	3	0	10	0	0	0	5	13	0

(R)—Registerd

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi—(*Contd.*)																											
Ambala (PBO)	0230	278	997.3	966.6	..	27.7	26.0	25.4	32.4	87	..	4.4	..	3·7	0	1	13	0	0	4	6	0	2	1	1	17	0
	0530	,,	997.4	966.6	..	27.1	25.6	25.0	31.7	88	..	5.7	..	3.9	0	0	14	1	0	1	11	0	0	1	0	17	0
	1130	,,	999.1	968.6	..	30.6	26.8	25.5	32.6	75	..	5.8	..	6.7	0	0	23	0	1	1	16	0	1	2	2	8	0
	1430	,,	997.2	966.8	..	31.6	27.0	25.5	32.6	71	..	5.5	..	6.7	0	0	26	2	2	2	12	1	2	3	2	5	0
	2030	,,	997.7	966·2	..	29.5	26.9	26.1	33.8	84	..	3.8	..	4.8	0	0	20	1	2	2	10	1	0	2	2	11	0
	2330	,,	997.8	967.2	..	28.7	26.5	25.8	33.2	83	..	3.9	..	4.6	0	0	18	1	0	1	12	0	2	1	1	13	0
Ambala (Aerodrome)	0530	274	997.6	967.2	..	26.4	25.8	25.4	32.4	95	..	5.3	..	4.8	0	0	13	0	0	6	5	0	0	2	0	18	0
	0830	,,	998.1	968.7	..	28.0	25.7	25.2	32.0	85	..	5.6	..	10.0	0	0	26	3	2	6	9	2	0	3	1	5	0
	1130	,,	999.1	969.0	..	30.3	26.8	25.4	32.4	76	..	5.3	..	13.2	0	0	26	1	3	4	10	2	1	2	3	5	0
	1730	,,	995.7	965.8	..	30.8	27.1	25.6	32.8	75	..	5.2	..	10.0	0	0	26	2	0	4	9	1	2	3	4	5	1
	2330	,,	998.1	967.8	..	27.4	26.3	25.8	33.2	92	..	3.9	..	5.2	0	0	14	0	1	5	4	1	0	0	1	17	2
Patiala	0830	251	999·5	971.7	..	28·5	26.2	25.2	32.1	83	..	5.1	..	8.6	0	0	25	0	1	0	17	0	1	0	6	6	0
	1730	,,	996·2	968·9	..	31.4	27.5	25.8	33.2	74	..	4.7	..	5.7	0	0	17	1	0	0	12	0	0	0	4	14	0
Bhatinda	0830	211	998.7	975.6	..	30.5	27.1	25.5	32.6	79	..	2.6	..	3.6	0	0	23	0	0	2	14	0	4	0	3	8	0
	1730	,,	996.1	973.1	..	33.0	27.6	25.4	32·4	66	..	2.2	..	1.7	0	0	20	0	1	5	5	0	4	1	4	11	0
Karnal	0830	249	999.3	971.7	..	28.9	26.2	25.0	31.7	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	,,	995.7	968.6	..	31.3	27.1	25.5	32.6	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hissar	0530	221	997.8	973.3	..	26.6	25.7	25.2	32.1	92	..	4.5	..	2.8	0	0	18	0	1	0	10	0	6	1	0	13	0
	0830	,,	999.2	974.7	—1.2	28.3	26.6	25.9	33.4	87	+17	4.0	+1.0	5.4	0	0	27	0	2	7	6	3	5	4	0	4	0
	1130	,,	999.1	975.2	..	31.9	28·0	26.4	34.4	74	..	5.7	..	6.5	0	0	27	0	3	1	10	2	7	2	2	4	0
	1730	,,	995.9	971.8	..	32·3	28.2	26.7	35.0	73	..	4.7	..	4.8	0	0	27	0	5	4	6	3	3	5	1	4	0
	2330	,,	998.1	973.7	..	28.2	26.5	25.8	33.2	87	..	3.4	..	3.4	0	0	22	0	3	4	8	1	3	3	0	9	0
New Delhi (Safdarjang)	0230	216	998.1	974.1	..	27.7	26.0	25.2	32.1	87	..	3.9	..	6.6	0	0	25	0	5	7	4	1	4	4	0	6	0
	0530	,,	998.2	974.1	..	27.1	25.6	24.9	31·6	88	..	5.0	..	6.8	0	1	23	1	6	8	1	0	4	3	1	7	0
	0830	,,	999.5	975.5	—1.3	28.4	26.0	24.9	31.6	81	+3	4.0	+0.3	11.1	0	3	25	0	3	11	3	1	2	6	2	3	0
	1130	,,	999.4	975.7	..	31.3	26.5	24.9	31.6	70	..	6.3	..	13.2	0	7	22	0	3	12	1	2	3	5	3	2	0
	1430	,,	997.7	974.0	..	31.7	27.0	25.0	31.7	70	..	6.3	..	12.0	0	4	25	1	9	7	3	1	0	4	4	2	0
	1730	,,	996.4	972.7	..	31.1	26.8	24.9	31.6	72	..	5.8	..	6.8	0	2	23	1	5	9	2	0	2	1	5	6	0
	2030	,,	997.7	973.8	..	29·6	26.7	25.5	32.7	80	..	4.9	..	4.1	0	0	23	0	6	7	2	1	4	1	2	8	0
	2330	,,	998.7	974.8	..	28.2	26·4	25.6	32.9	87	..	4.0	..	8.3	0	1	22	0	2	9	5	3	2	1	1	8	0
Palam (Aerodrome)	0230	233	998·0	971.9	..	27.2	25.5	24.7	31.1	88	..	4.1	..	12.0	0	0	29	0	3	9	6	3	3	5	0	2	0
	0530	,,	997.8	972.1	..	26·6	25.4	25.0	31.7	88	..	5·2	..	11·0	0	2	27	1	3	5	10	0	1	6	3	2	0
	0830	,,	999·5	973·6	..	28.2	25.9	24·9	31.5	83	..	6.0	..	13.4	0	2	28	0	0	5	12	2	0	7	4	1	0
	1130	,,	999.5	973.9	..	31.1	26.7	25.2	32.1	72	..	5.9	..	15.1	0	0	31	1	0	2	12	5	2	3	6	0	0
(R)	1430	,,																									
	1730	,,	996.6	970.8	..	31.3	26.9	24.9	31.5	71	..	5.6	..	12.2	0	2	28	2	3	9	11	0	0	1	4	1	0
(R)	2030	,,																									
	2330	,,	998.6	972.6	..	28.1	26.0	25.0	31.1	83	..	4.1	..	10.0	0	1	28	1	1	7	9	3	1	5	2	2	0
Himachal Pradesh																											
Mandi	0830	761	1000.4	917.8	—0.1	24·1	30.0	22·3	26.9	91	+2	7·2	+1.6	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	996.1	914.0	..	27·4	24.4	23·1	28·3	78	..	7·0	..	0.1	0	0	1	0	0	0	0	0	1	0	0	30	0
Bilaspur	0830	587	1000.4	935.8	..	26.2	23.7	22.9	27.9	84	..	..	..	0.2	0	0	3	0	0	2	0	0	1	0	0	28	0
	1730		998.6	934·7	..	30.2	25.5	24.5	30.7	71	..	..	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir.																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3082.1 (v)	665·0 (g)	..	8·8	3.4	—3.2	4.6	42	..	2·7	..	5.0	0	0	26	7	17	0	0	1	1	0	0	5	0
	0830	,,	3074.6 (f)	665·3 (f)	..	18·3	9.9	1.7	7.4	33	—26	2.2	—1.6	1·4	0	0	11	0	0	0	0	8	2	0	1	20	0
	1730	,,	3091.4	667.1	..	22.9	14.9	9·4	12.3	45	..	2.3	..	4.5	0	0	31	1	6	4	0	3	4	9	4	0	0
Srinagar	0830	1587	1436.9	835.3	+0.1	21.8	19.4	18.1	20.9	80	—3	3.6	—0.2	1.8	0	0	18	1	0	2	5	4	1	2	3	13	0
	1130	,,	1427·7	834·9	..	26·1	21·1	18·8	21·7	65	..	3·4	..	2.5	0	0	23	3	3	3	2	2	2	4	4	8	0
	1430	,,	1411.3	833·4	..	28·4	22·0	19·2	22·2	58	..	3·5	..	3·9	0	0	26	2	1	0	5	1	1	7	9	5	0
	1730	,,	1397.6	832·2	..	28·0	21.4	18.4	20.9	57	..	2·8	..	3·0	0	0	24	5	2	1	1	0	2	5	8	7	0
	*2030	,,	1405·5	832·7	..	23·6	20.2	18.6	21.4	74	..	2.2	..	1·7	0	0	10	4	2	0	0	2	0	0	0	21	0

(F) Mean of 2 days. (R) Register not received. (g) Mean of 24 days.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Srinagar (Aerodrome)	0530	1166	1416·3	825·9	..	19·2	17·2	16·2	18·4	83	..	4·8	..	2·0	0	0	11	1	0	0	0	3	2	3	2	20	0
	0830	,,	1420·1	827·2	..	21·9	18·7	16·7	19·0	75	..	4·5	..	2·2	0	0	12	1	1	2	1	1	0	0	6	19	0
	1130		1420·1	827·0	..	25·4	20·2	17·7	20·2	63	..	4·4	..	2·9	0	0	13	1	0	3	2	0	0	1	6	18	0
	1730	,,	1388·8	824·5	..	27·4	19·9	16·1	18·0	51	..	4·2	..	3·9	0	0	20	1	1	1	1	3	1	1	11	11	0
	2330	,,	1412·2	825·9	..	21·4	18·7	17·3	19·7	75	..	3·1	..	0·5	0	0	3	0	0	2	0	0	1	0	0	28	0
Gulmarg	0830	2655	3083·0	736·4	−0·6	17·0	14·6	13·0	15·0	79	−2	4·1	−0·1	1·4	0	0	9	4	4	1	0	0	0	0	0	22	0
	1730	,,	3072·2	735·2	..	18·8	16·3	14·7	16·7	78	..	4·4	..	2·4	0	0	13	1	6	4	0	1	1	0	0	18	0
Qazigund	0830	..	..	..	..	21·1	18·8	17·6	20·1	81	..	4·5	..	1·2	0	0	18	0	0	0	1	3	13	0	1	13	0
	1730	,,	..	..	..	25·3	20·5	18·2	20·9	65	..	4·5	..	4·9	0	0	27	0	0	0	2	3	19	1	2	4	0
Banihal	0830	..	..	..	..	21·3	19·0	17·9	20·5	82	..	4·6	..	0·1	0	0	2	0	0	2	0	0	0	0	0	29	0
	1730	,,	..	..	..	24·8	20·2	14·8	16·8	67	..	4·6	..	6·6	0	0	27	0	0	3	3	18	1	0	2	4	0
Jammu	0830	..	..	..	..	28·5	25·8	24·6	30·9	80	+1	5·0	+0.8	4·1	0	0	27	5	15	1	2	1	1	1	0	4	1
	1730	,,	..	..	..	31·6	27·0	25·0	31·7	70	..	4·6	..	3·5	0	0	29	4	2	1	1	6	1	3	8	2	3
Jammu (Aerodrome)	0530	292	997·1	964·7	..	27·0	25·0	24·0	29·8	83	..	5·2	..	2·4	0	0	12	0	9	2	0	1	0	0	0	19	0
	0830	,,	998·9	966·5	..	28·5	25·9	24·8	31·3	80	..	5·1	..	3·6	0	2	15	0	5	3	7	2	0	0	0	14	0
	1130	,,	999·2	967·0	..	30·9	26·3	24·4	30·6	70	..	5·4	..	9·6	0	4	23	0	1	7	9	5	3	2	0	4	0
	1730	,,	996·3	964·1	..	31·7	26·8	24·7	31·3	67	..	5·2	..	6·0	0	0	23	2	2	4	1	3	3	6	2	8	0
	2330	,,	997·9	965·5	..	28·1	25·5	24·7	31·1	82	..	3·7	..	3·7	0	1	8	0	4	1	3	1	0	0	0	22	0
Rajasthan (West)																											
Ganganagar	0530	177	997·1	977·4	..	27·7	25·6	24·7	31·1	84	..	3·5	..	4·1	0	0	20	0	0	2	8	2	8	0	0	11	0
	0830	,,	998·2	978·7	−1·1	29·1	26·3	25·1	31·9	80	+10	3·3	+0·8	4·4	0	0	30	0	1	3	9	4	12	1	0	1	0
	1130	,,	998·4	979·1	..	33·0	27·1	24·6	30·9	55	..	5·2	..	8·1	0	1	28	0	2	4	5	7	8	2	1	2	0
	1730	,,	994·9	975·7	..	35·3	27·1	23·9	29·7	57	..	5·0	..	3·5	0	0	21	1	3	5	4	2	5	1	0	10	0
	2330	,,	997·3	977·7	..	29·7	26·2	24·6	30·9	76	..	2·9	..	4·2	0	0	22	0	0	3	10	2	7	0	0	9	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	998·0	977·0	..	29·9	27·3	26·0	33·6	80	..	3·2	..	(c) 8·7	0	1	27	0	0	7	3	1	15	2	0	0	0
	1730	,,	994·4	973·2	..	33·3	27·8	25·5	32·6	64	..	1·6	..	(a) 7·5	0	0	30	0	2	6	1	2	13	3	3	0	0
Churu	0830	291	999·4	967·3	..	28·2	25·1	23·7	31·1	77	..	4·5	..	12·0	0	6	25	0	0	6	1	4	2	15	3	0	0
	1730	,,	995·7	964·1	..	32·8	25·5	22·0	26·4	57	..	5·5	..	11·0	0	3	27	3	2	6	1	5	1	5	7	1	0
Bikaner	0830	224	998·5	973·6	−1·9	28·9	27·3	26·5	34·6	88	+16	2·7	−0·3	6·1	0	0	27	1	2	1	2	2	16	1	2	4	0
	1730	,,	995·4	970·9	..	33·3	28·5	26·7	35·0	70	..	2·3	..	6·3	0	0	29	2	2	2	5	1	13	3	1	2	0
Bikaner P.B.O.	0530	224	997·1	972·5	..	27·5	25·1	24·0	30·0	82	..	4·9	..	2·9	0	0	15	0	0	0	0	3	11	1	0	16	0
	1130	,,	998·6	974·3	..	31·8	26·2	23·8	29·4	64	..	5·4	..	5·5	0	0	25	0	2	0	2	5	8	7	0	6	1
	2330	,,	997·5	972·5	..	29·1	25·5	23·7	29·2	74	..	4·1	..	4·7	0	0	19	0	0	1	2	7	9	0	0	12	0
Nagaur	0830	298	999·4	966·3	..	28·3	26·3	25·6	32·8	86	..	5·6	..	7·5	0	0	31	1	1	2	3	8	14	2	0	0	0
	1730	,,	996·1	963·6	..	30·9	27·5	26·2	34·0	77	..	6·1	..	6·4	0	0	31	2	1	3	2	10	9	1	3	0	0
Phalodi	0830	234	999·2	973·2	..	28·3	25·3	23·9	29·7	78	..	4·5	..	12·0	0	4	27	1	0	0	1	7	15	6	1	0	0
	1730	,,	996.8	971.3	..	33.1	26.1	22.8	27.7	59	..	5.1	..	12.5	0	5	26	1	4	1	2	4	15	2	2	0	0
Jaisalmer	0830	242	998.1	971.2	..	28.1	22.7	20.3	23.8	64	..	4.7	..	15.3	0	7	24	0	1	1	0	15	12	2	0	0	0
	1730	,,	994.8	968.5	..	34.7	27.0	23.4	28.8	54	..	5.6	..	16.1	0	7	23	2	2	0	1	14	10	1	0	1	0
Jodhpur	0230	224	998.1	973·2	..	27.3	25.5	24.8	31.2	86	..	4.4	..	8.1	0	2	24	0	0	0	0	8	17	1	0	5	0
	0530	,,	998.4	973.4	..	26.6	25.0	24.4	30.7	88	..	5.5	..	7.0	0	2	25	0	0	0	0	1	18	8	0	4	0
	0830	,,	999·7	974·8	−0.4	27.4	25.6	24.7	31.1	86	+7	6.0	0	9.5	0	0	27	1	0	0	1	1	13	11	0	4	0
	1130	,,	1000·0	975·1	..	30.3	26.6	25.0	31.7	75	..	6.0	..	10.2	0	2	24	1	1	1	0	2	13	6	2	5	0
	1430	,,	998·2	973·4	..	31.9	27.0	24.9	31.9	67	..	6.2	..	13.0	0	3	27	0	1	1	2	4	12	7	3	1	0
	1730	,,	996.4	971.9	..	31.9	27.0	24.9	31.7	69	..	6.0	..	10.7	0	2	27	0	1	1	1	3	14	8	1	2	0
	2030	,,	997.7	973.0	..	30.1	26.3	24.0	31.1	75	..	5.7	..	7.0	0	1	21	0	1	0	1	2	14	3	1	9	0
	2330	,,	998.9	974.1	..	28.6	26.0	24.8	31.4	81	..	4.9	..	8.0	0	0	27	0	0	2	0	4	15	6	0	4	0
Barmer	0530	194	997.4	975.7	..	26.5	24.7	23.9	29.7	86	..	4.5	..	2.3	0	0	21	0	0	1	0	4	6	7	3	10	0
	0830	,,	998.9	977.3	−2·1	27.6	25.4	24.5	30.7	84	+5	5.4	0	3.0	0	0	23	0	0	0	2	3	11	6	1	8	0
	1130	,,	998.8	977.5	..	30.9	26.4	24.4	30.6	69	..	5.4	..	3·0	0	0	29	0	3	0	1	4	13	7	1	2	0
	1730	,,	995.5	974.3	..	32.6	26.9	24·7	31.1	65	..	5.3	..	4.0	0	2	24	0	2	1	1	6	14	2	0	5	0
	2330	,,	998.1	976.1	..	29.0	25.6	24.1	30.0	76	..	3.3	..	2.0	0	0	19	0	0	0	0	3	7	7	2	12	0
Erinpura (Jawai Dam)	0830	295	1000.3	961.3	..	26.3	24.8	24.2	30.2	88	..	5.8	..	6.1	0	0	29	2	1	0	0	2	9	7	8	2	0
	1730	,,	997.0	958.7	..	28.9	25.9	24.7	31.1	79	..	5.6	..	7.7	0	0	30	1	1	0	2	7	8	4	7	1	0
Munabao (R)	0830	80											..														
	(R) 1730	,,																									

(c) Mean of 28 days. (R) Register not received. (a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation, in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W		Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)																											
Pilani (R)	0830	301	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sikar	0830	433	998.8	951.4	..	26.6	24.4	23.4	28.8	83	..	5.0	..	0.4	0	0	6	0	0	0	0	0	0	6	0	25	0
	1730	,,	995.6	948.8	..	30.2	25.4	22.5	27.3	67	..	6.0	..	10.0	0	0	10	1	0	1	2	0	1	4	1	21	0
Alwar	0830	271	997.1	967.3	..	28.8	25.9	24.5	30.0	79	..	5.7	..	2.4	0	0	23	4	6	1	1	3	5	0	3	8	0
	1730	,,	995.7	966.1	..	30.7	26.4	24.5	30.7	71	..	5.0	..	0.8	0	0	11	0	3	1	4	0	1	0	2	20	0
Jaipur (Sanganer)	0230	390	997.7	954.9	..	26.1	24.5	23.8	29.5	87	..	4.5	..	3.0	0	0	14	1	1	3	0	0	1	4	4	17	0
	0530	,,	998·0	954·8	..	25.5	24·2	23·7	29·3	90	..	5·8	..	2.5	0	0	13	0	0	5	0	0	0	3	4	18	1
	0830	,,	999.3	956.2	—2.5	26.8	24.9	23.9	29.7	83	+3	6.0	+0.6	7.1	0	1	23	1	0	6	0	0	0	8	9	7	0
	1130	,,	998.9	956.3	..	29·7	25.5	23.6	29.1	70	..	6.3	..	8.9	0	2	25	2	0	5	3	2	0	7	8	4	0
	1430	,,	996.9	954.5	..	30.5	25.5	23.1	28.3	64	..	6.7	..	8.0	0	0	26	2	0	4	3	2	2	10	3	5	0
	1730	,,	995.8	953.5	..	30.1	25.4	23.2	28.4	70	..	7.0	..	5.9	0	1	25	1	0	4	1	1	5	8	6	5	0
	2030	,,	997.6	954.8	..	27.8	24.9	23.5	28.9	80	..	6.3	..	3.5	0	1	13	0	1	3	1	1	0	7	1	17	0
	2330	,,	998.6	955.8	..	26.3	24.8	23.9	29.7	85	..	5.5	..	3.0	0	0	15	0	2	4	0	0	1	6	2	16	0
Dholpur	0830	176	998.7	979.2	..	29.0	26.1	24.8	31.3	79	..	6.3	..	4.3	0	0	21	1	2	2	2	1	2	8	3	10	0
	1730	,,	995.1	975.8	..	31.4	26.5	24.4	30.5	69	..	6.6	..	4.2	0	0	20	0	2	2	2	2	2	7	3	11	0
Ajmer	0830	486	999.7	946.4	—2.1	26.4	24.1	23.1	28.1	83	+6	6.3	+1.3	12.0	0	6	23	0	2	1	1	3	10	12	0	2	0
	1730	,,	996.1	943.6	..	29.6	25.2	23.3	28.6	71	..	6.8	..	11.4	0	5	25	2	2	1	0	0	10	13	2	1	0
Tonk	0830	272	998.3	968.3	..	28.1	25.9	24.9	31.5	81	..	5.1	..	5.1	0	0	31	0	4	1	2	0	3	13	8	0	0
	1730	,,	995.4	965.5	..	30.6	26.5	24·9	31.5	73	..	5.5	..	5.0	0	0	31	4	0	1	3	2	2	13	6	0	0
Bhilwara	0830	425	999.3	953.4	..	25.7	24.6	23.2	28.4	80	..	6.9	..	9.1	0	0	29	1	2	0	0	2	18	1	5	2	0
	1730	,,	997.3	950.8	..	27.5	25.6	22.4	27.1	72	..	7.6	..	9.9	0	1	29	0	2	0	0	3	16	3	6	1	0
Kota (Aerodrome)	0530	274	998.3	967.5	..	26.3	24.5	23.7	29.3	86	..	6.6	..	10.2	0	1	29	0	1	0	0	0	13	14	2	1	0
	0830	,,	999.9	969.5	..	27.5	25.0	23.9	29.7	81	..	6.5	..	11.2	0	2	29	0	2	1	1	0	7	19	1	0	0
	1130	,,	1000.0	969.9	..	29.6	25.6	23.7	29.3	71	..	7.0	..	12.9	0	3	28	2	0	3	0	0	6	14	6	0	0
	1730	,,	996.8	966.7	..	29.9	25.9	23.6	29.1	84	..	7.3	..	11.4	0	2	29	1	1	4	0	1	10	12	2	0	0
	2330	,,	999.3	968.9	..	27·1	24.9	24.0	29.8	74	..	5.9	..	12.1	0	2	29	0	1	0	0	1	12	15	2	0	0
Kota	0830	257	999.2	970.9	—2·3	28.1	25.5	24.3	30.4	81	+6	6.4	+1.2	11.6	0	1	27	1	2	0	0	0	5	13	7	3	0
	1730	,,	998.0	969.4	..	29.8	26.0	24.4	30.5	75	..	6.9	..	10.1	0	12	17	1	1	0	0	1	13	9	4	2	0
Chambal (Rawat Bhatta Dam)	0830	351	1000.3	967.5	..	26.5	24.3	23.3	28.6	82	..	6.0	..	3.0	0	0	21	0	1	0	1	6	8	5	0	10	0
	1730	,,	997.9	965.3	..	28.8	25.3	23.7	29.3	75	..	6.7	..	3.7	0	0	22	0	0	0	4	13	5	0	0	9	0
Udaipur	0230	582	999.7	936.0	..	24.4	23.4	23.0	28.1	92	..	6.0	..	1.1	0	0	10	0	0	0	0	5	5	0	0	21	0
	0530	,,	959.7	935.9	..	24.0	23.1	22.7	27.6	92	..	6.5	..	0.8	0	0	6	0	0	0	0	2	3	1	0	25	0
	0830	,,	1000.6	937.0	—1.6	25.5	23.8	23.0	28.1	87	+9	6.7	+0.9	1.8	0	0	12	1	0	0	0	2	7	2	0	19	0
	1130	,,	1000.3	937.3	..	28.2	25.2	24.0	29.8	78	..	6.0	..	2.3	0	0	19	0	1	0	0	7	7	2	2	12	0
	1730	,,	998.2	935.2	..	27.5	25.1	24.0	29.8	82	..	6.9	..	4.0	0	0	24	0	0	1	0	8	11	3	1	7	0
	2330	,,	1000.7	936.9	..	25.0	23.9	23.4	28.8	91	..	5.7	..	1.3	0	0	8	0	0	0	0	3	4	1	0	23	0
Jhalawar	0830	321	999.6	964.5	—1.8	26.8	24.5	23.5	29.0	84	0	6.3	+0.1	11.6	0	0	30	1	2	0	0	0	13	14	0	1	0
	1730	,,	996.5	961.4	..	28.8	25.3	23.5	28.9	78	..	6.2	..	12.0	0	0	31	0	1	0	1	0	13	13	3	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	997.5	974.6	..	27.2	25.5	24.8	31.3	87	..	5.3	..	4.6	0	1	17	2	0	4	1	0	4	6	1	13	0
	0530	,,	997.7	974.7	..	26.8	25.3	24.6	30.9	89	..	6.3	..	4.1	0	1	20	0	2	3	0	1	3	8	4	10	0
	0830	,,	998.9	976.1	—1·6	28.4	25.9	24.9	31.5	83	+1	6.8	+0·7	6.8	0	1	24	0	4	4	1	0	1	11	4	6	0
	1130	,,	998.8	976.1	..	30.9	26.8	25.1	31.9	70	..	6.8	..	9.9	0	2	26	4	3	4	1	0	2	5	9	3	0
	1430	,,	996.8	974.2	..	31.4	26.8	24.9	31.5	71	..	6.4	..	9·1	0	3	27	6	3	4	3	2	1	6	5	1	0
	1730	,,	995.9	973.2	..	30.3	26.4	24.7	31.1	75	..	6.8	..	8.7	0	2	29	0	2	7	4	2	5	10	1	0	0
	2030	,,	997.6	974.7	..	28.4	26.0	24.9	31.7	83	..	5.9	..	5.1	0	0	25	0	4	4	4	1	3	7	2	6	0
	2330	,,	998.5	975.6	..	27.7	25.7	24.9	31.3	86	..	5.6	..	5.5	0	1	20	1	1	4	1	1	4	6	3	10	0
Sheopur	0830	235	999.8	973.7	—0·9	27.4	25·4	24.6	30.7	85	—3	6.3	—0·6	7.3	0	1	30	3	2	3	2	5	9	6	2	0	0
	1730	,,	995.5	969.7	..	29.7	25.8	24.1	30.0	75	..	7.3	..	9.2	0	1	29	2	2	1	2	3	6	9	5	1	0
Shivpuri	0830	464	999.3	948.3	..	26.0	24.2	23.6	28.9	87	..	5.8	..	10.9	0	4	26	3	1	1	0	0	4	15	6	1	0
	1730	,,	996.3	945.7	..	28.1	25.2	24.0	30.0	81	..	6.3	..	8.5	0	1	29	0	6	1	0	0	6	9	8	1	0
Nowgong	0830	229	999·1	973.7	—2.2	27.5	25.8	25·1	31.9	87	+4	6.6	+0.3	8.1	0	0	31	0	3	4	2	2	14	5	1	0	0
	1730	,,	995·9	970·9	..	30·2	26·4	24·7	31·3	75	..	6·4	..	4·5	0	0	26	0	5	3	1	0	12	3	2	5	0

(R) Register not received.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed: 20 to 61	Wind speed: 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Guna	0530	478	998·8	946.0	..	24.1	23.4	23.1	28.3	94	..	7.0	..	11.4	0	5	24	0	0	2	0	0	5	21	1	2	0
	0830	,,	1000.2	947.6	—1·6	25.5	24.2	23.6	29.1	90	+4	7.1	+1·1	9.7	0	2	29	0	2	0	1	0	3	23	2	0	0
	1130	,,	999.7	947.5	..	28.0	25.3	24.3	30.4	81	..	7.1	..	14.1	0	8	23	0	1	1	0	0	2	21	6	0	0
	1730	,,	996.9	944.8	..	27.4	24.9	23.9	29.6	83	..	7.3	..	11.3	0	3	28	1	3	1	1	2	1	17	5	0	0
	2330	,,	999.6	947·0	..	25.1	24.1	23.7	29.3	92	..	6.1	..	6.3	0	1	23	0	0	1	0	5	3	14	1	7	0
Nimach	0830	496	1000.9	946.3	—1·8	24.9	23.3	22.6	25.8	87	+2	7.2	+1·2	14.4	0	7	24	0	2	1	0	0	7	20	1	0	0
	1730	,,	997·9	944·1	..	27·7	24·3	22·9	27·9	77	..	7·3	..	13·5	0	5	25	0	1	1	0	0	9	19	0	1	0
Rajgarh	0830	382	1000.5	958.3	..	25.6	24.2	23.5	29.1	90	..	6·7	..	11.4	0	2	28	0	0	0	0	0	4	20	6	1	0
	1730	,,	998.1	956.2	..	27.9	24.9	23.6	28.9	79	..	6.5	..	10.7	0	3	28	4	0	1	0	0	4	20	2	0	0
Sagar	0830	551	999 9	939 5	—1·8	24.4	23.3	22.8	27.9	91	+3	7.1	+0·5	7.7	0	0	31	0	0	2	0	0	3	19	7	0	0
	1730	,,	996.9	937.1	..	26.6	24.1	22.9	28·3	81	..	7.0	..	6.7	0	0	28	0	0	1	0	0	2	19	6	3	0
Ratlam	0830	486	1001·7	947.8	—1·3	23.9	22.9	22.4	27.3	91	—2	8.0	+0·4	11.9	0	1	30	1	0	0	0	1	9	18	2	0	0
	1730	,,	998·6	945·5	..	27.1	24.4	23.2	28.3	81	..	7.6	..	11.2	0	1	30	1	1	0	0	0	13	14	2	0	0
Bhopal (Bairagarh)	0230	523	999·6	941·9	..	23.6	22.7	22.3	26.9	91	..	7.0	..	13.7	0	6	25	0	0	1	1	0	10	17	2	0	0
	0530	,,	999.8	942.0	..	23.3	22.4	22.0	26.4	93	..	7.6	..	13.5	0	4	26	0	1	0	0	0	8	18	3	1	0
	0830	,,	1001·1	943.4	—1·8	24.4	22.8	22.3	26.4	88	+1	7.5	+0·9	15.4	0	6	25	0	0	1	0	0	4	17	9	0	0
	1130	,,	1000.9	943.6	..	26.4	23.8	22.6	27.6	81	..	7.4	..	15.5	0	10	20	0	1	1	0	0	3	17	8	1	0
	1430	,,	998.4	941.5	..	27.5	24.2	22.8	27.8	77	..	7.4	..	18.7	0	11	20	3	0	0	0	1	4	13	10	0	0
	1730	,,	997.7	940.7	..	26.8	24.0	22.8	27.6	80	..	7.3	..	14.5	0	7	23	1	2	0	1	1	4	16	5	1	0
	2030	,,	999.7	942.3	..	25·1	23.6	22.9	27·9	88	..	7.2	..	9 2	0	0	29	1	1	0	0	4	8	14	1	2	0
	2330	,,	1000.6	943.0	..	24.4	23.2	22.7	27.6	91	..	7.0	..	11.7	0	0	30	1	0	0	1	1	13	13	1	1	0
Ujjain	0830	489	1001.3	947.2	.	24.4	23.2	22.7	27.6	90	..	7.7	..	17.5	0	11	20	0	0	1	0	0	1	14	15	0	0
	1730	,,	997.3	944.0	..	27.5	24.2	22.8	27.7	77	..	7.1	..	17.4	0	14	16	0	1	0	0	0	1	21	7	1	0
Narsinghpur	0830	356	1000.5	960.9	..	24.8	23.8	23.3	28 6	92	..	6.8	..	3.4	0	0	31	5	0	1	0	11	0	14	0	0	0
	1730	,,	997.3	958.2	..	27.4	24.9	23·7	29 3	81	..	6.6	..	3.5	0	0	31	6	0	3	0	5	0	17	0	0	0
Hoshangabad	0830	302	1001.4	967.6	—2.1	24.5	23.9	23.4	29.1	95	+7	7.8	+0·8	6.3	0	0	31	1	0	0	0	5	14	11	0	0	0
	1730	,,	998.1	964.7	..	27.0	25.4	24.7	31.1	88	..	7.0	..	5.6	0	0	31	1	0	0	0	1	24	5	0	0	0
Indore	0530	567	1000.4	937.7	..	22 6	22.0	21.7	25.9	95	..	6 9	..	16.5	0	13	16	0	0	0	0	1	17	10	1	2	0
	0830	,,	1001.8	939.3	—1·9	23.6	22.5	22 0	26.6	91	+4	7.0	—0.2	19·6	0	14	16	0	0	0	0	0	18	12	0	1	0
	1130	,,	1001.4	939.4	..	25.9	23.4	22.3	26.9	81	..	7.1	..	21.7	1	18	13	0	2	0	0	0	21	7	1	0	0
	1730	,,	998.3	936.6	..	26.5	23.4	22.2	26.6	79	..	6.9	..	18.5	0	12	19	2	0	1	0	1	15	10	1	0	1
	2330	,,	1001·4	938.9	..	23.2	22.4	22.0	26.4	93	..	6.4	..	19.3	0	12	19	1	0	1	0	0	19	9	1	0	0
Rajpur (Jhabua)	0830	293	1002.3	969.6	..	25.0	23.7	23.1	28.3	89	..	6.8	..	10.8	0	2	28	0	0	0	0	0	9	21	0	1	0
	1730	,,	999.5	967.1	..	26.9	24.6	23.6	28.9	83	..	6.8	..	9.6	0	0	30	0	0	0	0	0	7	23	0	1	0
Chhindwara	0830	685	1000.5	925.3	—2·0	23.5	22.1	21.4	25.5	89	+2	7.1	+0·5	11.2	0	3	27	2	1	0	0	0	2	13	12	1	0
	1730		998.0	923.3	..	25.2	22.7	21.6	25.8	81	..	6.7	..	11.1	0	5	24	1	1	0	1	0	1	17	8	2	0
Seoni	0830	6	1000.7	932.9	—1·7	24.0	22.9	22.4	27.3	91	+7	7.0	+0·8	8.1	0	1	30	1	1	1	1	1	5	15	6	0	0
	1730		997.6	930.7	..	25.7	23.9	23.1	28.1	86	..	7.4	..	10.3	0	0	31	2	1	0	1	2	6	12	7	0	0
Betul	0830	653	1002.2	930.3	—1·2	22.8	22.0	21.6	25.8	93	+3	7.5	—0.1	6.8	0	0	31	0	1	0	2	0	1	10	17	0	0
	1730		998.6	927.6	..	25.1	23.1	22.3	26.7	85	..	7.3	..	7.1	0	0	31	1	2	0	2	0	2	14	10	0	0
Khandwa	0830	8	1002.3	966.8	—1.6	25.1	23.4	22.7	27.3	87	+4	7.1	+1·3	3.8	0	0	31	0	0	0	0	0	17	9	5	0	0
	1730		999.0	963.9	..	27.5	24.5	23.1	28.4	78	..	7.1	..	4.6	0	0	31	1	0	0	0	2	20	6	2	0	0
Madhya Pradesh (East)																											
Satna	0530	317	998.0	962.7	..	25.1	24.5	24.2	30.2	95	..	5.7	..	4.8	0	1	23	0	0	6	0	0	8	9	1	7	0
	0830	,,	999.1	964.0	—1·8	26.8	25.2	24.6	30.7	88	+4	6.5	+0·1	5.2	0	1	29	0	1	5	0	1	6	14	3	1	0
	1130	,,	998·8	964.0	..	29.2	26.2	25.0	31.5	78	..	6.6	..	6.5	0	0	29	0	0	7	1	1	3	14	3	2	0
	1730	,,	996·0	961.3	..	28.8	26.0	24.8	31.3	80	..	6.2	..	4.8	0	0	29	1	2	8	0	0	3	12	3	2	0
	2330	,,	998.9	963.7	..	26.3	25.2	24.7	31.1	91	..	6.2	..	5.0	0	0	27	0	0	4	0	7	7	8	1	4	0
Sidhi	0830	272*	998.1	968.0	..	27.5	25.6	24.7	31.1	85	..	5.7	..	2.4	0	0	30	0	1	5	1	1	4	16	2	1	0
	1730	,,	996.1	966.3	..	29.1	25.9	24.5	30.7	77	..	(a) 5·3	..	2.2	0	0	30	3	2	5	0	3	1	15	1	1	0
Umaria	0830	459	999.9	949.3	..	25.7	24.2	23.5	28.9	88	+5	7.2	+0·2	4.6	0	0	22	2	0	2	1	1	5	4	4	9	3
	1730	,,	995.2	945.3	..	27.9	25.0	23.9	29.7	80	..	7.1	..	5.4	0	0	22	0	2	0	1	0	8	6	5	9	0
Jabalpur	0530	393	999.0	955.5	..	24.5	23.8	23.5	28.8	94	..	7.1	..	.1	0	1	18	0	1	0	0	2	4	12	0	12	0
	0830	,,	1000.3	956.9	—1·5	25.7	24.3	23.7	29.3	89	+5	7.6	+0·8	5.3	0	0	26	0	1	1	0	2	7	14	1	5	0
	1130	,,	999.8	956.7	..	27.7	25.1	24.0	29.7	81	..	7.2	..	6.5	0	0	30	1	2	1	0	0	8	16	2	1	0
	143	,,	997.6	954.6	..	27.9	25.1	23.9	29·5	80	..	7.3	..	6.4	0	0	30	1	3	0	0	1	6	16	3	1	0

*Height calculated provisionally.

(a) Mean of 30 days

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Jabalpur—*Contd.*	1730	393	997.0	954.0	..	27.7	25.0	23.8	29.5	80	..	7.3	..	5.9	0	0	27	1	1	0	0	2	7	14	2	4	0
	2330	,,	999.9	956.4	..	25.2	24.2	23.8	29.3	92	..	7.1	..	4.1	0	0	18	1	0	0	0	3	5	9	0	13	0
Ambikapur	0830	611	999.2	932.7	—1.7	25.2	23.8	23.1	28.4	88	0	6.6	+0.6	4.4	0	0	22	5	3	0	1	0	2	9	2	9	0
	1730	,,	996.1	930.0	..	26.5	24.4	23.5	29.1	84	..	6.8	..	6.5	0	1	26	3	4	1	1	2	5	8	3	4	0
Pendra	0530	625	993.5	930.2	..	23.3	22.7	22.4	27.1	95	..	6.9	..	6.1	0	2	22	5	0	0	1	8	2	3	5	7	0
	0830	,,	995.8	931.7	—1.8	24.9	23.4	22.8	27.7	88	+3	6.8	+1.2	6.9	0	1	28	7	2	1	2	7	2	5	2	2	1
	1130	,,	999.1	931.5	..	26.6	24.2	23.0	28.2	80	..	6.8	..	8.8	0	2	28	7	1	0	1	4	3	5	8	1	1
	1430	,,	996.9	929.4	..	26.9	24.3	23.3	28.4	81	..	6.8	..	11.0	0	5	25	8	1	2	1	6	3	5	4	1	0
	1730	,,	996.6	928.9	..	26.0	24.0	23.2	28.4	85	..	7.0	..	7.0	0	1	27	5	1	0	0	7	4	5	5	3	1
	2330	,,	999.6	931.3	..	24.1	23.2	22.8	27.7	93	..	6.5	..	6.8	0	1	24	3	0	0	2	10	5	1	4	6	0
Mandla	0830	145	1000.4	951.5	—1.4	25.0	39.9	23.4	28.8	91	+3	6.8	−0.2	2.3	0	1	10	4	0	0	0	4	0	0	3	20	0
	1730	,,	997.3	948.9	..	26.9	24.6	23.6	29.1	83	..	6.5	..	2.0	0	1	8	4	0	0	0	4	0	1	0	22	0
Champa	0830	245	1000.2	972.7	—1.7	26.4	25.0	24.3	30.5	89	+2	7.3	+0.1	6.3	0	1	29	1	0	0	1	1	6	19	2	1	0
	1730	,,	996.9	969.9	..	28.0	25.6	24.5	30.9	80	..	7.5	..	8.7	0	4	24	0	0	2	1	0	9	10	6	3	0
Raigarh	0830	220	999.9	975.4	—1.4	26.7	25.0	24.3	30.3	87	+1	7.1	−0.1	3.6	0	0	30	2	2	0	2	2	12	7	3	1	0
	1730	,,	996.7	972.0	..	28.1	25.5	24.5	30.5	82	..	7.6	..	1.5	0	0	13	2	0	0	0	0	10	1	0	18	0
Raipur	0530	298	999.2	966.0	..	24.2	23.5	23.1	28.3	93	..	7.5	..	9.1	0	4	24	0	0	0	0	1	15	10	2	3	0
	0830	,,	1000.9	967.7	—1.5	25.5	24.2	23.6	29.1	89	+3	7.4	+1.1	10.0	0	3	28	1	0	0	1	1	14	12	2	0	0
	1130	,,	1000.4	967.5	..	27.7	25.1	23.9	29.7	80	..	7.2	..	10.8	0	1	29	1	1	0	2	1	10	14	1	1	0
	1430	,,	998.1	965.3	..	28.3	25.1	23.6	29.3	77	..	7.2	..	12.5	0	5	26	1	2	1	0	2	12	13	0	0	0
	1730	,,	997.7	964.8	..	27.3	24.7	23.6	29.0	81	..	7.3	..	10.6	0	4	27	0	0	1	0	5	11	11	2	0	1
	2330	,,	1000.4	967.2	..	25.2	24.1	23.6	29.0	91	..	7.1	..	10.6	0	2	27	0	0	0	0	2	19	8	0	2	0
Kanker	0830	402	1001.7	957.3	—1.5	25.4	23.6	22.7	27.6	85	+3	7.6	+0.8	3.8	0	0	22	0	0	0	0	0	15	6	1	9	0
	1730	,,	998.6	954.5	..	26.5	24.3	23.2	28.4	83	..	6.6		2.5	0	0	24	0	0	0	0	1	18	4	1	7	0
Jagdalpur	0530	553	1000.6	939.7	..	22.7	21.8	21.3	25.3	92	..	7.3	..	4.8	0	0	15	0	0	0	0	1	12	2	0	16	0
	0830	,,	1002.1	941.3	—1.4	23.9	22.4	21.7	25.9	87	+2	7.5	+1.4	7.4	0	0	29	0	0	0	0	0	21	8	0	2	0
	1130	,,	1001.4	941.0	..	25.4	22.9	21.9	25.9	81	..	7.5		11.2	0	0	31	0	0	0	0	0	18	10	3	0	0
	1730	,,	999.1	938.0	..	25.1	23.0	22.1	28.6	84	..	7.5	..	7.6	0	1	28	0	1	0	0	1	17	10	0	2	0
	2330	,,	1001.9	941.0	..	23.2	22.2	21.7	25.9	92	..	6.7	..	4.5	0	0	19	0	0	0	0	0	15	4	0	12	0
Gujarat Region																											
Deesa	0830	156	1001.2	986.0	—1.7	26.7	25.3	24.6	31.1	88	..	5.8	..	8.6	0	0	31	0	0	0	10	2	14	1	4	0	0
	1730	,,	998.3	983.1	..	29.9	25.8	24.0	30.0	72	..	6.0	..	10.5	0	0	31	0	2	0	13	3	13	0	0	0	0
Radhanpur	0830	30	1001.5	998.1	..	27.3	26.1	25.6	32.8	89	..	..	..	5.1	0	0	31	0	0	0	6	0	22	1	2	0	0
	1730	,,	997.7	994.4	..	30.6	24.8	22.1	26.6	63	..	..	..	5.5	0	0	31	0	0	0	1	1	29	0	0	0	0
Idar	0830	219	1001.3	976.7	..	25.5	24.5	24.0	29.8	92	..	7.5	..	3.2	0	0	29	1	0	0	3	2	14	9	0	2	0
	1730	,,	998.0	973.9	..	28.6	25.3	23.9	29.7	77	..	7.2	..	3.4	0	0	29	2	1	2	3	1	8	12	0	2	0
Ahmadabad	0230	55	1000.2	993.9	..	26.1	25.0	24.5	30.7	91	..	6.2	..	10.1	0	0	27	0	0	0	0	2	17	8	0	4	0
	0530	,,	1000.1	993.8	..	25.7	24.7	24.2	30.4	92	..	6.3	..	8.5	0	0	27	0	0	0	1	3	13	8	2	4	0
	0630	,,	1001.6	995.3	—2.3	26.5	25.2	24.7	31.1	90	+8	6.9	+0.7	9.3	0	1	27	0	0	0	1	3	14	8	2	3	0
	1130	,,	1001.7	995.5	..	29.1	26.1	24.8	31.3	78	..	7.2	..	11.4	0	4	24	1	0	1	1	2	9	12	2	3	0
	1430	,,	999.8	993.6	..	30.3	26.7	25.1	32.1	75	..	6.8	..	11.6	0	2	28	0	0	0	1	6	10	10	2	1	1
	1730	7	998.6	992.4	..	29.8	26.5	25.1	31.9	77	..	6.7	..	12.6	0	3	27	0	0	0	1	8	10	9	2	1	0
	2030	,,	1000.2	993.9	..	27.5	25.8	25.1	31.9	87	..	6.1	..	10.4	0	5	18	0	1	0	0	6	14	2	0	8	0
	2330	,,	1001.2	994.9	..	26.7	25.4	24.9	31.5	90	..	6.1	..	10.1	0	1	27	0	0	0	0	3	16	8	1	3	0
Dohad	0830	333	1001.7	964.7	—1.7	24.9	23.6	23.0	27.9	89	0	7.5	+0.3	16.5	0	13	17	0	0	0	0	2	16	11	1	1	6
	1730	,,	999.0	962.3	..	27.2	24.5	23.3	28.6	80	..	7.3	..	16.6	0	10	21	0	0	0	1	0	22	7	1	0	0
Vallabh Vidyanagar	0830	44	1001.6	996.7	..	25.9	25.2	24.7	31.5	93	..	6.5	..	7.5	0	0	30	0	0	0	6	7	15	1	1	1	0
	1730	,,	999.0	994.0	..	28.7	26.1	24.9	31.7	81	..	6.6	..	8.8	0	0	30	0	0	0	2	10	16	1	1	1	0
Baroda (Aerodrome)	0830	38	1002.1	997.8	..	26.4	25.3	24.8	31.5	90	..	6.7	..	10.2	0	1	29	0	0	0	0	8	20	2	0	1	0
	1130	,,	1002.2	997.9	..	28.6	25.9	24.7	31.1	81	..	6.8	..	12.9	0	1	27	0	0	0	0	5	15	7	0	3	1
	1730	,,	999.2	994.9	..	28.0	25.9	24.9	31.9	83	..	6.7	..	17.2	0	11	19	0	0	1	0	7	17	4	1	1	0
Baroda	0530	34	1000.9	996.9	..	25.6	24.9	24.7	30.7	95	..	6.6	..	0.6	0	0	5	0	0	0	0	1	3	1	0	26	0
	0830	,,	1002.3	998.3	—1.6	26.5	25.5	25.1	31.9	92	+4	6.6	0	1.2	0	0	13	0	0	0	0	1	4	8	0	18	0
	1130	,,	1002.4	998.5	..	29.1	26.5	25.4	32.4	81	..	6.8	..	1.7	0	0	17	0	0	0	2	1	6	8	0	14	0
	1730	,,	999.5	995.6	..	29.1	26.4	25.4	32.2	81	..	6.9	..	2.7	0	0	23	0	0	0	1	3	12	7	0	8	0
	2330	,,	1002.1	998.1	..	26.3	25.4	25.0	31.9	93	..	5.7	..	2.9	0	0	21	0	0	0	0	1	17	3	0	10	0
Broach	0830	17	1001.8	999.8	—1.6	26.0	24.9	24.4	30.7	90	+1	7.0	+0.2	5.9	0	0	31	0	0	0	0	7	19	3	2	0	0
	1730	,,	999.4	997.4	..	28.1	25.5	24.3	30.5	80	..	6.8	..	6.6	0	0	31	0	0	0	0	4	23	1	3	0	0
Surat	0530	12	1001.1	999.8	..	25.7	24.8	24.3	30.5	92	..	7.2	..	10.5	0	5	23	0	0	0	5	3	18	2	0	3	0
	0830	,,	1002.6	1001.3	—2.1	26.4	25.2	24.6	31.1	90	+8	7.5	+ .6	8.9	0	3	26	0	0	1	3	5	22	0	0	2	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (k.m. p.h.): 62 or more	Wind speed (k.m. p.h.): 20 to 61	Wind speed (k.m. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region —(*contd.*)																											
Surat	1130	12	1003·0	1001·7	..	27·9	25·5	24·5	30·7	82	..	7·2	..	11·9	0	7	23	0	0	0	2	1	24	2	1	1	0
	1730	,,	1000·4	999·1	..	28·3	25·5	24·4	30·4	81	..	7·2	..	12·7	0	5	26	0	0	0	2	1	27	1	0	0	0
	2330	,,	1002·6	1001·3	..	26·4	25·0	24·4	30·5	89	..	6·3	..	14·3	0	7	23	0	0	0	2	3	24	1	0	1	0
Saurashtra & Kutch																											
Naliya	0830	21	1000·0	997·6	..	27·1	26·1	25·4	33·0	88	..	6·3	..	15·2	0	5	23	0	0	0	0	3	20	4	1	3	0
	1730	,,	998·1	995·7	..	29·2	26·6	25·4	32·6	81	..	6·5	..	13·5	0	6	25	0	0	0	1	5	21	3	1	0	0
Bhuj (Rudramata)	0230	60	999·0	990·0	..	26·4	24·9	24·2	30·4	88	..	4·1	..	10·6	0	3	23	0	0	0	0	0	13	13	0	5	0
	0530	,,	998·9	989·9	..	25·9	24·6	24·1	30·1	90	..	5·2	..	7·4	0	1	19	0	0	0	0	0	10	9	1	11	0
	0830	,,	1000·3	991·3	−2·1	27·2	25·2	24·4	30·4	85	+8	6·1	+0.1	12·4	0	3	24	1	1	0	0	0	8	16	2	4	0
	1130	,,	1000·5	991·5	..	30·1	25·7	23·6	29·5	69	..	6·5	..	16·5	0	10	20	1	1	1	0	0	8	18	1	1	0
	1430	,,	998·7	989·8	..	31·2	26·0	23·5	29·3	64	..	6·6	..	17·6	0	8	22	0	0	1	1	1	11	15	1	1	0
	1730	,,	997·7	988·8	..	30·3	25·6	23·4	28·9	69	..	6·2	..	18·7	0	14	17	0	0	1	2	0	16	12	0	0	0
	2030	,,	999·2	990·2	..	28·0	25·0	23·6	29·3	78	..	5·2	..	15·9	0	7	23	1	0	0	0	0	12	17	0	1	0
	2330	,,	1000·3	991·3	..	26·9	25·0	24·0	30·0	84	..	4·3	..	13·4	0	1	29	1	0	0	0	0	13	15	1	1	0
Kandla Aerodrome	0830	35	1000·9	997·0	..	27·6	25·4	24·4	30·5	82	..	5·8	..	17·9	0	13	16	0	0	0	0	3	18	6	2	2	0
	1130	,,	1001·1	997·2	..	30·3	25·9	24·0	29·8	70	..	6·4	..	23·5	0	23	7	1	1	1	1	2	18	5	1	1	0
	1730	,,	998·2	994·3	..	31·0	25·8	23·4	28·9	66	..	5·7	..	29·3	0	28	3	0	0	2	0	4	24	1	0	0	0
New Kandla	0330	14	1001·1	999·5	..	28·0	25·6	24·7	30·9	82	..	6·4	..	17·9	0	13	16	1	0	0	0	1	7	15	5	2	0
	1730	,,	998·7	997·1	..	30·6	26·2	24·3	30·4	70	..	6·4	..	31·7	0	28	2	0	0	1	1	0	15	13	0	1	0
Mandvi	0830	9	1001·0	999·9	−1·6	28·2	25·8	24·8	31·3	82	−7	6·6	−0·1	27·5	0	22	8	2	0	0	0	0	7	8	3	1	10
	1730	,,	998·9	997·8	..	29·5	26·6	25·4	32·4	79	..	5·9	..	34·1	0	30	1	0	0	0	0	3	17	9	0	0	2
Surendranagar	0830	74	1001.3	993.0	−1·5	27.1	25.0	24.1	30.0	84	−2	6.5	−0·2	13.0	0	6	23	0	0	0	2	5	4	11	3	2	0
	1730	,,	998.5	990.3	..	30.3	25.5	23.4	28.6	68	..	7.0	..	13.5	0	7	23	1	0	1	4	2	6	15	1	1	0
Okha	0530	7	999.8	999.0	..	27.2	26.2	25.8	33.2	92	..	5.2	..	23.5	0	20	11	0	0	0	0	0	20	9	2	0	0
	0830	,,	1001.2	1000.4	..	27.8	26.5	26.0	33.4	90	..	6.5	..	23.6	0	16	15	1	0	0	0	1	17	8	4	0	0
	1130	,,	1001.8	1001.0	..	28.8	27.1	26.4	34.6	87	..	6.2	..	24.4	0	21	10	0	0	0	0	0	17	10	4	0	0
	1730	,,	999.3	998.5	..	28.8	27.0	26.2	34.2	86	..	6.1	..	27.7	0	26	5	1	0	0	0	0	14	14	2	0	0
	2330	,,	1001.5	1000.7	..	27.4	26.3	25.9	33.4	91	..	5.0	..	23.2	0	18	13	0	0	0	0	0	17	12	2	0	0
Jamnagar (Aerodrome)	0530	3	999.7	997.1	..	25.4	25.3	25.2	32.2	99	..	(a) 5.1	..	(a) 19.7	0	15	15	0	0	0	1	0	16	12	1	0	0
	0830	,,	1001.2	998.6	—[illegible].1	26.7	26.1	25.8	33.4	95	+13	6.6	−1.7	20.2	0	14	17	1	1	0	0	0	15	13	1	0	0
	1130	,,	1001.5	998.9	..	29.2	26.8	25.9	33.2	82	..	7.0	..	25.2	0	24	7	2	1	0	0	0	8	18	2	0	0
	1730	,,	998.9	996.3	..	28.8	26.7	25.8	33.4	84	..	6.6	..	27.0	0	30	1	2	1	0	0	0	4	18	6	0	0
	2330	,,	1001.4	998.8	..	26.4	25.7	25.5	32.4	95	..	5.2	..	19.7	0	16	14	0	1	0	1	0	8	19	1	1	0
Dwarka	0830	11	1001.1	999.8	−2.4	27.6	27.1	26.9	35.4	96	+10	7.2	+0.4	22.6	0	22	9	1	0	0	0	0	9	21	0	0	0
	1730	,,	999.2	997.7	..	28.6	27.8	27.5	36.7	94	..	6.5	..	24.3	0	18	13	0	0	0	0	0	10	20	1	0	0
Rajkot	0530	138	999.9	984.4	..	24.7	23.8	23.3	28.6	93	..	4.9	..	14.1	0	12	14	0	0	0	0	5	19	2	0	5	0
	0830	,,	1001.4	985.9	−1.8	25.9	24.7	24.2	30.2	90	−1	5.9	−0.5	17.0	0	14	15	0	0	0	0	3	21	3	1	2	1
	1130	,,	1001.5	986.1	..	28.5	25.6	24.2	30.4	78	..	6.1	..	21.8	0	9	20	1	0	0	0	4	19	4	1	2	0
	1730	,,	998.8	983.5	..	28.4	25.7	24.6	30.7	81	..	6.3	..	25.9	0	23	6	0	1	0	0	2	20	5	1	2	0
Bhavnagar (Aerodrome)	0830	11	1002.0	1000.8	−2·2	27.4	24.9	23.8	29.3	81	+8	6.1	−0·2	17.5	0	13	17	0	0	1	0	4	18	6	0	1	1
	1130	,,	1002.3	1001.1	..	29.8	25.5	23.6	28.9	70	..	6.5	..	17.6	0	12	19	0	1	1	1	2	17	7	1	0	1
	1730	,,	999.4	998.2	..	29.4	25.4	23.5	29.1	71	..	6.5	..	21.7	0	21	10	0	0	0	2	7	18	3	1	0	0
Porbander Aerodrome	0830	7	1001.6	1000.8	−1.6	27.5	25.6	24.8	31.1	86	−6	7.0	+0.2	16.8	0	15	14	0	1	0	0	0	17	8	3	2	0
	1130	,,	1002.0	1001.2	..	28.7	26.1	24.9	31.7	80	..	6.8	..	21.7	0	21	10	0	0	0	0	0	20	9	2	0	0
	1730	,,	999.7	998.9	..	28.2	25.9	24.8	31.5	82	..	6.6	..	21.2	0	21	10	0	1	0	0	0	19	11	0	0	0
Keshod	0830	51	1002.0	996.2	..	25.9	24.9	24.4	30.7	91	..	6.9	..	15.8	0	12	15	1	0	0	0	0	17	7	1	4	1
	1130	,,	1002.4	996.6	..	27.7	25.3	24.3	30.2	82	..	6.8	..	20.7	0	18	13	3	0	0	0	0	15	10	0	0	3
	1730	,,	1000.1	994.3	..	27.7	25.4	24.3	30.4	82	..	6.8	..	27.3	0	26	5	0	1	0	0	1	15	14	0	0	0
Mahuva	0830	9	1002.1	1001.1	..	26.2	25.0	24.4	30.7	90	..	7.7	..	4.8	0	25	0	0	1	0	0	0	17	7	0	6	0
	1730	,,	999.9	998.9	..	27.9	25.9	25.0	31.9	85	..	7.4	..	7.5	0	0	31	0	0	1	1	3	21	4	1	0	0
Veraval	0230	8	1000.9	1000.0	..	22.9	25.7	25.2	32.1	90	..	6.4	..	35.5	0	27	3	1	1	0	0	0	9	18	2	0	0
	0530	,,	1000.6	999.7	..	26.9	25.7	25.2	32.1	90	..	6.7	..	33.3	1	28	3	1	1	0	0	0	8	19	2	0	0
	0830	,,	1002.1	1001.2	−2·7	27.3	25.9	25.3	32.2	89	+3	7.0	−0·3	31.4	0	23	8	2	2	0	0	0	8	17	2	0	0
	1130	,,	1002.6	1001·7	..	28.0	26.2	25.4	32.4	86	..	6.8	..	32.3	0	24	7	0	1	0	0	1	7	18	4	0	0
	1430	,,	1001.3	1000.4	..	28.0	26.2	25.5	33.4	87	..	6.9	..	33.4	0	28	3	1	0	0	0	0	8	21	1	0	0
	1730	,,	1000.3	999.4	..	27.6	26.1	25.4	32.4	88	..	7.0	..	32.5	0	25	6	0	0	1	0	0	8	21	1	0	0

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra And Kutch —*Contd.*																											
Veraval (contd.)	2030	8	1001.4	1000.5	..	27.3	25.8	25.1	31.9	83	..	6.6	..	32.6	0	26	5	0	0	0	0	0	11	17	3	0	0
	2330	,,	1002.4	1001.5	..	27.2	25.8	25.3	32.1	89	..	6.3	..	34.1	0	27	4	0	0	0	0	0	11	17	3	0	0
Konkan																											
Dahanu	0830	5	1003.3	1002.8	—1.4	26.5	25.8	25.5	32.6	94	+6	6.8	—0.3	20.9	0	16	14	0	0	3	3	2	13	9	0	1	0
	1730	,,	1001.5	1001.0	..	27.5	26.7	26.4	34.4	93	..	7.0	..	27.5	0	25	6	0	0	0	1	0	19	11	0	0	0
Bombay (Santacruz)	0230	15	1002.9	1001.2	..	25.8	24.5	24.0	29.8	90	..	6.4	..	18.8	0	17	12	0	1	0	1	3	7	17	0	2	0
	0530	,,	1002.7	1001.0	..	25.7	24.6	24.0	30.0	90	..	6.5	..	20.0	0	17	12	1	0	0	1	1	8	18	0	2	0
	0830	,,	1004.2	1002.5	—2.4	26.2	24.7	24.1	30.0	88	+6	7.2	+0.2	19.3	0	3	27	0	0	0	2	3	10	14	1	1	0
	1130	,,	1004.6	1003.0	..	27.8	25.4	24.3	30.4	82	..	7.3	..	24.0	0	24	7	0	0	0	0	3	10	16	2	0	0
	1430	,,	1003.1	1001.5	..	27.6	25.4	24.5	30.5	84	..	7.3	..	24.4	1	19	11	0	0	0	0	1	10	18	2	0	0
	1730	,,	1002.3	1000.7	..	27.1	25.1	24.1	30.2	84	..	7.1	..	22.0	0	21	9	0	0	0	0	1	8	19	2	1	0
	2030	,,	1013.7	1002.1	..	26.3	24.7	23.9	29.8	87	..	6.6	..	19.3	0	15	16	0	0	0	0	2	8	19	2	0	0
	2330	,,	1004.4	1002.8	..	26.1	24.7	24.0	30.0	88	..	6.5	..	17.7	0	14	14	0	0	0	2	0	10	16	0	3	0
Bombay	0830	11	1004.4	1003.2	—2.1	26.5	25.0	24.3	30.3	87	+4	7.1	+0.1	(a) 23.4	0	8	26	0	0	0	1	2	12	14	0	2	0
	1130	,,	1004.8	1003.6	..	28.1	25.6	24.6	30.9	82	..	6.8	..	(a) 20.4	0	4	(a) 26	0	0	0	3	1	17	10	0	0	0
	1730	,,	1002.6	1001.4	..	27.4	25.3	24.3	30.4	83	..	7.0	..	(b) 19.8	0	4	25	0	0	0	0	1	15	15	0	0	0
Alibag	0830	7	1004.7	1003.9	—1.9	26.3	25.3	24.9	31.5	92	+8	7.4	+0.1	31.1	0	26	4	0	0	0	3	2	15	9	0	1	1
Bhira	0830	96	1004.8	993.9	..	24.5	23.7	23.3	28.6	93	..	7.6	..	3.2	0	0	23	0	1	2	10	1	4	0	5	8	0
	1730	,,	1012.7	991.9	..	25.0	23.9	23.3	28.6	91	..	7.9	..	3.0	0	0	25	1	1	0	10	3	5	2	3	6	0
Harnai*	0830	20	1005.2	1002.8	—1.4	26.0	24.7	24.1	30.0	89	+2	7.7	+1.2	23.1	0	10	6	0	0	2	0	0	0	14	0	0	0
	1730	,,	1003.4	1001.1	..	26.5	24.8	24.0	30.0	86	..	7.8	..	24.5	0	9	7	0	0	0	0	0	0	13	3	0	0
Ratnagiri	0830	35	1005.9	1001.9	—1.7	26.0	24.6	24.0	29.8	89	..	7.0	..	26.5	0	24	7	0	0	1	2	0	9	15	4	0	0
	1730	,,	1004.0	1000.1	..	26.6	24.9	24.1	30.0	87	..	7.2	..	28.5	0	23	8	0	0	0	0	0	6	19	6	0	0
Devgarh	0830	36	1006.1	1002.1	—1.1	26.1	24.7	24.3	30.0	90	0	6.8	—0.1	32.7	1	23	6	0	0	1	0	0	1	24	4	1	0
	1730	,,	1004.4	1000.4	..	26.6	25.2	24.5	30.9	88	..	7.1	..	32.1	0	25	6	0	0	0	0	0	1	24	6	0	0
Vengurla	0230	39	1005.7	1004.7	..	25.3	24.3	23.9	29.5	92	..	7.1	..	7.4	0	3	18	0	0	0	0	0	6	14	1	10	0
	0530	,,	1005.5	1004.5	..	25.4	24.2	23.7	29.3	91	..	6.8	..	9.7	0	4	23	1	0	0	0	0	10	14	2	4	0
	0830	,,	1007.1	1006.1	—0.8	25.9	24.6	24.0	30.0	89	—1	6.6	—0.4	6.7	0	4	17	0	0	0	0	1	6	14	0	10	0
	1130	,,	1007.4	1006.4	..	27.5	25.5	24.6	0.9	84	..	6.7	..	8.5	0	1	29	0	0	0	0	0	16	12	2	1	0
	1730	,,	1005.3	1004.3	..	26.4	24.7	23.9	29.7	86	..	7.4	..	7.9	0	1	28	0	0	0	0	0	14	11	4	2	0
	2330	,,	1007.3	1006.3	..	25.4	24.5	24.0	30.0	92	..	7.1	..	7.6	0	2	20	0	0	0	0	0	11	7	4	9	0
Panjim	0530	60	1005.7	998.9	..	25.1	23.9	23.3	28.6	90	..	7.2	..	16.8	0	10	20	1	1	2	0	0	3	20	3	1	0
	0830	,,	1007.1	1000.3	..	25.7	24.1	23.4	28.8	87	..	7.2	..	15.8	0	11	17	0	0	1	0	0	2	20	5	3	0
	1130	,,	1007.5	1000.7	..	27.3	25.0	23.9	29.8	82	..	7.1	..	12.3	0	13	18	0	0	0	0	0	4	25	2	0	0
	1430	,,	1005.9	999.1	..	27.2	25.1	24.1	30.1	83	..	6.9	..	21.1	0	19	12	0	0	0	0	0	5	23	3	0	0
	1730	,,	1005.4	998.6	..	26.3	24.4	23.4	28.9	85	..	7.2	..	18.6	0	14	17	0	0	0	0	0	3	23	6	0	0
	2030	,,	1006.7	999.9	..	25.4	24.0	23.3	28.6	88	..	7.0	..	15.7	0	10	20	0	0	0	0	0	3	22	5	1	0
	2330	,,	1007.4	1001.6	..	25.2	24.1	23.5	29.0	90	..	7.2	..	16.1	0	9	21	0	0	0	0	0	6	22	4	1	0
Marmugao	0530	62	1005.1	998.1	..	25.9	24.3	23.5	29.1	87	..	7.0	..	26.6	0	21	10	0	0	1	0	0	10	17	3	0	0
	0830	,,	1006.5	999.5	..	26.0	24.5	23.8	29.7	87	..	6.9	..	25.2	1	20	10	0	1	1	1	0	12	13	3	0	0
	1130	,,	1007.0	1000.1	..	26.9	24.9	24.0	29.8	85	..	6.8	..	23.9	0	19	12	0	0	0	0	1	13	15	2	0	0
	1730	,,	1004.8	997.9	..	26.3	24.5	23.7	29.3	85	..	7.2	..	28.1	1	23	7	1	0	0	0	0	9	17	4	0	0
Madhya Maharastra																											
Nandurbar	0830	206	1002.8	979.7	..	25.0	23.6	22.9	27.9	88	..	5.8	..	5.8	0	1	30	0	0	0	0	0	1	30	0	0	0
	1730	,,	1000.3	977.4	..	26.9	24.4	23.1	28.6	81	..	5.9	..	6.1	0	0	31	1	0	0	0	2	6	22	0	0	0
Jalgaon	0830	201	1002.7	980.1	—1.4	24.9	23.9	23.3	28.8	91	+4	7.7	+1.6	7.9	0	1	25	0	0	0	0	1	5	18	2	5	0
	1730	,,	999.7	977.3	..	27.4	25.0	23.9	29.7	83	..	7.6	..	13.8	0	3	28	2	0	1	0	1	1	17	9	0	0
Malegaon	0830	437	1002.7	954.2	—2.1	24.5	22.7	21.8	26.1	85	+9	7.2	+1.4	10.1	0	0	31	0	1	0	1	0	6	16	7	0	0
	1730	,,	1000.1	952.2	..	27.3	23.9	22.4	26.9	75	..	7.0	..	16.1	0	10	20	1	1	1	0	0	4	19	4	1	0
Deolali (Aerodrome)	0830	571	1004.6	941.2	..	22.7	21.6	21.1	25.0	90	..	7.6	..	18.3	0	13	16	0	0	0	0	0	21	8	0	2	0
	1730	,,	1002.5	939.6	..	23.9	22.1	21.3	25.3	85	..	7.6	..	24.3	0	24	7	0	0	0	0	0	20	10	1	0	0
Ahmadnagar	0830	657	1004.0	931.6	—1.9	23.0	21.0	20.1	23.4	84	+6	7.1	+1.7	7.5	0	0	28	0	0	0	1	0	19	5	3	3	0
	1730	,,	1000.7	929.3	..	26.0	21.8	19.8	23.1	69	..	7.4	..	15.8	0	7	24	0	1	0	1	1	19	4	5	0	0
Poona (Aerodrome)	0230	593	1003.3	937.5	..	21.5	20.7	20.3	23.8	93	..	6.8	..	16.2	0	11	16	0	0	0	0	0	13	14	0	4	0
	0530	,,	1003.0	937.2	..	21.3	20.6	20.3	23.8	94	..	6.5	..	16.0	0	12	14	0	0	0	0	0	12	14	0	5	0
	0830	,,	1004.3	938.7	..	22.7	21.3	20.5	24.3	88	..	6.6	..	17.7	0	14	13	0	0	0	0	1	12	14	0	4	0
	1130	,,	1004.1	939.0	..	25.0	22.2	20.8	24.7	78	..	7.0	..	29.2	0	27	4	0	0	0	1	0	17	13	0	0	0
	1730	,,	1001.7	936.7	..	24.5	22.0	20.8	24.7	81	..	7.0	..	32.2	0	30	1	0	0	0	0	0	12	19	0	0	0
	2330	,,	1004.8	938.9	..	21.8	21.0	20.6	24.3	93		6.9	..	19.7	0	14	17	0	0	0	0	1	14	16	0	0	0

(a) Mean of 30 days. *Wind speed & directions for 16 days. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of Observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	V.rable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —(Contd.)																											
Poona	0530	559	1003·0	940·9	..	21·8	20·6	20·1	23·4	90	..	6·0	..	7·0	0	2	20	0	0	0	0	0	4	18	0	9	0
	0830	,,	1004·3	942·5	—1·8	23·4	21·5	20·6	24·1	85	+1	6·8	+0·4	7·1	0	1	24	0	0	0	0	0	14	11	0	6	0
	1130	,,	1004·2	942·8	..	25·2	22·4	21·1	25·0	79	..	7·3	..	10·1	0	1	29	0	0	0	1	0	5	24	0	1	0
	1430	,,	1002·4	941·1	..	25·8	22·4	20·9	24·6	75	..	7·1	..	12·0	0	2	28	0	0	0	0	0	3	26	1	1	0
	1730	,,	1001·9	940·4	..	24·5	22·0	20·8	24·7	80	..	7·3	..	11·3	0	2	29	0	0	0	0	0	3	27	1	0	0
	2030	,,	1004·0	942·0	..	22·6	21·2	20·5	24·1	88	..	6·5	..	7·7	0	1	26	0	0	0	0	0	2	25	0	4	0
	2330	,,	1004·6	942·5	..	22·3	21·1	20·5	24·1	90	..	6·5	..	7·1	0	1	22	0	0	0	0	0	3	20	0	8	0
Jeur	0830	521	1004 3	946·6	—0·9	23·5	22·0	21·2	25·3	87	+4	6·5	+1·0	11·4	0	3	27	0	0	0	0	3	8	14	5	1	0
	1730	,,	1000·5	943·8	..	27·7	22·4	19·8	23·2	64	..	6·9	..	22·9	0	23	8	2	0	0	0	1	3	17	8	0	0
Baramati	0830	551	1004·4	943·5	—1·0	23·6	21·5	20·5	24·1	82	0	5·9	—0·5	8·8	0	2	29	0	0	0	0	1	9	20	1	0	0
	1730	,,	1001·3	941·2	..	26·4	22·1	19·9	23·5	68	..	6·7	..	22·1	0	19	12	0	0	0	0	1	6	22	2	0	0
Sholapur	0530	479	1003·9	950·5	..	22·1	20·9	20·3	23·8	90	..	6·1	..	6·6	0	0	30	1	0	0	0	0	25	4	0	1	0
	0830	,,	1005·3	952·1	—1·1	24·1	22·0	21·1	25·0	83	+8	6·4	+1·0	7·9	0	0	31	0	0	0	0	0	28	2	1	0	0
	1130	,,	1004·3	951·8	..	27·4	22·9	20·8	24·7	68	..	7·0	..	13·4	0	4	27	1	0	0	0	0	20	9	1	0	0
	1730	,,	1000·9	948·7	..	28·4	22·8	20·1	23·7	62	..	7·2	..	15·1	0	9	22	2	0	0	0	0	19	7	3	0	0
	2330	,,	1004·9	951·8	..	24·0	21·7	20·5	24·3	81	..	6·0	..	11·4	0	2	28	0	0	0	1	0	16	11	2	1	0
Miraj	0830	554	1006·1	944·6	—1·3	22·7	21·3	20·6	24·3	88	+3	7·5	+0·4	..	..	..	..	0	0	0	0	0	0	24	0	7	0
	1730	,,	1003·4	942·8	..	25·2	21·9	20·2	23·8	75	..	7·5	..	..	..	..	..	0	0	0	0	0	0	31	0	0	0
Kolhapur	0530	570	1004·1	940·9	..	21·3	20·8	20·5	24·1	95	..	6·3	..	12·8	0	6	24	0	0	0	0	0	0	30	0	1	0
	0830	,,	1005·7	942·5	—1·0	22·1	21·2	20·8	24·4	92	+2	6·9	+0·3	9·8	0	1	30	0	0	0	0	0	0	31	0	0	0
	1130	,,	1005·4	942·7	..	24·3	22·1	21·2	25·0	83	..	6·6	..	12·3	0	2	29	0	0	0	0	0	0	30	1	0	0
	1730	,,	1003·3	940·5	..	23·5	21·7	20·7	24·6	85	..	7·0	..	15·0	0	7	24	0	0	0	0	0	0	31	0	0	0
	2330	,,	1006·0	942.7	..	21·8	21·1	20·7	24·4	94	..	6·3	..	15·8	0	9	22	0	0	0	0	0	0	31	0	0	0
Marathwada																											
Aurangabad	0830	581	1004·2	940·0	—1·7	23·0	21·7	21·1	25·0	89	+6	7·1	+0·1	11·9	0	2	26	0	0	0	0	0	7	20	1	3	0
	1730	,,	1000·3	937·0	..	26·4	22·7	20·9	24·9	73	..	7·0	..	19·0	0	16	12	1	0	0	0	1	4	21	1	3	0
Aurangabad (Chikalthan)	0230	579	1002·9	938·9	..	22·8	21·3	20·5	24·1	87	..	7·0	..	10·1	0	4	20	0	0	0	0	0	4	18	2	7	0
	0530	,,	1002·7	938·7	..	22·4	21·1	20·5	24·1	89	..	7·1	..	8·6	0	1	19	0	0	0	0	0	3	16	1	11	0
	0830	,,	1003·7	940·0	..	24·5	22·1	21·0	24·9	81	..	6·5	..	13·3	0	4	22	1	0	0	0	0	3	19	3	5	0
	1130	,,	1003·2	940·1	..	27·4	22·5	20·1	23·5	65	..	6·6	..	22·3	0	19	11	0	0	1	0	0	6	16	7	1	0
	1430	,,	1000·9	938·2	..	28·8	23·2	20·6	24·3	63	..	7·0	..	15·0	0	8	20	1	0	0	1	1	6	14	5	3	0
	1730	,,	999·8	937·1	..	28.3	22·9	20·4	24·0	64	..	7·4	..	16·2	0	11	14	1	0	0	0	0	4	17	3	6	0
	2030	,,	1002·7	939·2	..	25·0	22·1	20·8	24·4	78	..	7·3	..	13·7	0	9	17	0	0	1	0	0	2	20	3	5	0
	2330	,,	1003·8	940·0	..	23·9	21·8	20·8	24·7	83	..	6·7	..	11·6	0	5	22	0	0	0	0	0	2	21	4	4	0
Parbhani	0830	423	1004·1	957·0	—0.3	24·0	21·9	20·8	24·6	83	+2	6·8	+0·7	10·4	0	1	29	0	0	0	1	0	5	23	1	1	0
	1730	,,	999·8	953·6	..	28·7	23·4	20·6	24·4	64	..	7·3	..	13.2	0	6	24	1	0	0	1	0	1	21	6	1	0
Nander	0830	358	1003.9	963.9	..	24.9	22.8	21.6	25.9	82	..	5·8	..	4·8	0	0	26	1	0	0	0	2	8	8	7	5	0
	1730	,,	1000.7	961.3	..	28.3	24.3	22.4	27.1	72	..	7·5	..	4·1	0	0	20	1	0	0	0	1	5	9	4	11	0
Bir	0830	519	1004·4	947·1	..	24·3	22·2	21·2	25·3	83	..	6·9	..	8·6	0	0	31	0	0	0	0	1	17	4	7	0	2
	1730	,,	1001·0	944·4	..	27·6	22·9	20·7	24·4	68	..	6·8	..	9·5	0	1	30	0	0	0	2	0	17	0	12	0	0
Vidarbha																											
Gondi	0830	313	1001·3	966·5	—1.2	25·3	24·1	23·5	29·0	89	+3	7·2	+0·5	4·0	0	0	27	2	0	0	0	1	12	8	4	4	0
	1730	,,	998·2	963·7	..	26·5	24·7	23·9	29·7	86	..	7·1	..	3·6	0	0	21	2	0	0	1	3	7	7	1	10	0
Nagpur (Sonegaon)	0230	310	999·9	965 3	..	24·2	23·8	23·1	29·1	93	..	7·0	..	9·5	0	3	23	0	0	0	1	0	10	11	4	5	0
	0530	,,	1000·0	965·4	..	24·0	23·2	22·7	27·8	93	..	7·0	..	10·3	0	3	24	0	0	0	0	1	11	10	5	4	0
	0830	,,	1001·6	967·1	—1.7	25·2	23·7	22·9	27·9	87	+5	7·2	+0·9	13·3	0	5	26	0	0	0	1	1	6	17	6	0	0
	1130	,,	1001·3	967·0	..	27 6	24·4	23·0	27·9	77	..	7·4	..	15·9	0	11	19	3	0	0	0	1	5	16	5	1	0
	1430	,,	998·9	964·8	..	28·4	24·9	23·3	28·6	75	..	7·0	..	14·8	0	10	21	0	1	0	0	1	6	16	7	0	0
	1730	,,	998·3	964·1	..	27·6	24·6	23·2	28·4	78	..	7·3	..	14·2	0	6	25	0	1	0	0	1	9	17	3	0	0
	2030	,,	1000·5	966·0	..	25·5	24·2	23·6	29·1	89	..	6·9	..	11·3	0	6	20	1	0	0	0	3	10	10	4	5	0
	2330	,,	1001·2	966·6	..	24·7	23·8	23·4	28·8	92	..	6·8	..	8·0	0	2	23	1	0	0	1	3	12	6	2	6	0
Amraoti	0830	370	1002·6	961·4	—1·5	24·3	22·9	22·2	26·7	88	+5	6·8	+0·6	6·8	0	0	31	0	0	0	0	0	23	8	0	0	0
	1730	,,	999·3	958·5	..	26·9	24·0	22·6	27·6	78	..	6·9	..	9·1	0	2	29	0	0	0	1	0	11	14	5	0	0
Akola Aerodrome	0530	309	1000·6	965·9	..	23·6	22·7	22·3	26·9	92	..	6·9	..	10·2	0	0	31	0	0	0	0	0	14	14	3	0	0
	0830	,,	1002·0	967·4	..	24·7	23·1	22·4	27·0	87	..	7·3	..	9·1	0	0	29	1	0	0	0	1	4	8	15	2	0
	1130	,,	1001·8	967·5	..	27·2	24·0	22·5	27·5	76	..	7·8	..	11·0	0	1	30	0	0	0	0	0	5	13	13	0	0
	1730	,,	998·7	964·5	..	27·3	24·2	22·7	27·6	77	..	7·6	..	9·3	0	1	29	0	0	0	0	0	8	7	15	1	0
	2330	,,	1001·5	967·0	..	24·8	23·6	23·0	28·2	89	..	7·1	..	12.0	0	3	28	1	0	0	2	1	11	5	11	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*contd.*)																											
Akola	0830	282	1002·5	970·9	−1.9	24·9	23·4	22·6	27·6	87	+7	6·2	0	0·4	0	0	6	0	0	0	0	0	0	6	0	25	0
	1730	,,	999·0	967·9	..	27·6	24·5	23·1	28·3	79	..	7·6	..	1·0	0	0	16	0	0	0	0	0	1	15	0	15	0
Bramhapuri	0830	229	1002·1	976·1	..	25·2	24·0	23·4	28·8	90	..	6·9	..	4·5	0	0	30	0	0	0	0	2	9	15	4	1	0
	1730	,,	998·8	973·3	..	27·8	25·3	24·2	30·2	82	..	6·5	..	4·8	0	0	29	1	0	0	0	7	10	8	3	2	0
Buldana	0830	650	1002.8	931.3	−0·9	22.8	21.3	20.5	24.1	87	+1	6.9	+0·3	11.2	0	3	28	2	0	0	0	0	17	5	7	0	0
	1730	,,	999·4	928·7	..	25·2	22·6	21·4	25·5	81	..	7·2	..	7·5	0	1	30	1	1	0	0	0	10	2	17	0	0
Yeotmal	0830	451	1002·2	952·2	−1·2	24·0	22·5	21·7	25·9	87	0	7 5	+0.7	16·1	0	11	20	0	0	0	0	1	4	25	1	0	0
	1730	,,	998.7	949.3	..	26.9	23.7	22.1	26.6	76		7.4	..	14.3	0	5	25	3	0	0	0	1	4	21	1	1	0
Chanda	0830	193	1002.5	980.8	−1·6	25.5	23.9	23.2	28.3	87	+7	7.2	+1.2	10.8	0	2	29	1	0	0	1	2	8	13	6	0	0
	1730	,,	999.0	977.6	..	27.7	24.9	23.6	29.1	79	..	6.7	..	11.5	0	1	30	0	1	2	1	0	5	14	8	0	0
Pusad	0830	334	1003.7	966.7	..	24.9	23.0	22.1	26.6	85	..	6.6	..	13.2	0	3	28	0	0	0	0	0	9	20	2	0	0
	1730	,,	1000.3	963.6	..	28.0	24.9	23.5	28.9	77	..	7.4	..	10.5	0	2	29	0	0	1	0	0	2	24	4	0	0
Sironcha	0830	123	1003.7	989.8	−0.4	26.0	24.6	24.0	29.7	89	+2	6.9	+0.1	3.0	0	0	29	0	1	0	2	0	19	2	5	2	0
	1730	,,	1000.8	987.1	..	28.4	25.2	24.3	29.5	79	..	7.0	..	2.8	0	0	28	1	1	1	1	0	13	1	9	3	1
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1001.3	1000.6	−1.7	27.4	25.7	24.6	32.5	86	+5	6.2	+1.0	(d) 13.2	0	8	18	1	0	1	0	6	12	5	1	1	0
	*1730	,,	998.8	998.1	..	28.0	26.0	25.3	32.4	85	..	6.6	..	18.4	0	15	15	1	1	0	0	9	11	3	2	1	0
Vishakhapatnam	0230	3	1000.3	999.9	..	26.4	24.4	23.5	28.9	84	..	5.6	..	5.7	0	1	15	0	0	0	0	0	6	8	2	15	0
	0530	,,	1000.5	1000.1	..	26.1	24.3	23.4	28.9	85	..	5.7	..	8.6	0	5	14	0	0	0	0	1	4	14	0	12	0
	0830	,,	1002.2	1001.8	−1.4	27.6	24.8	23.6	28.9	79	−5	6.0	−0.5	11.7	0	4	23	0	0	0	0	1	7	18	1	4	0
	1130	,,	1001.5	1001.1	..	29.8	25.3	23.3	28.7	70	..	6.3	..	17.0	0	11	19	0	0	0	0	1	11	14	3	1	1
	1430	,,	999.3	998.9	..	30.3	25.7	23.6	29.2	69	..	6.6	..	17.8	0	16	13	0	0	0	0	3	11	13	2	2	0
	1730	,,	999.1	998·7	..	29.4	25.3	23.6	28.9	73	..	6.1	..	13.4	0	9	18	0	0	0	2	1	10	11	3	4	0
	2030	,,	1001.3	1000.9	..	27.2	24.8	23.9	29.3	80	..	5.6	..	11.3	0	5	21	0	0	0	2	0	6	15	3	5	0
	2330	,,	1001.8	1001.4	..	26.7	24.6	23.5	29.3	83	..	6.3	..	8.8	0	2	21	0	0	0	0	0	8	15	0	8	0
Kakinada	0830	8	1003.3	1002.4	−1.2	27.3	25.3	24.4	30.5	85	+5	6.0	+0.1	13.2	0	2	29	0	0	0	0	0	30	0	1	0	0
	1730	,,	1000.2	999.2	..	29.1	26.0	24.7	31.2	78	..	5.9	..	13.1	0	2	29	0	0	13	0	17	0	0	1	0	0
Nidadavole	0830	12	1003.6	1002.2	..	26.3	24.5	23.9	29.5	87	..	6.8	..	7.8	0	0	30	0	0	0	0	0	11	18	1	1	0
	1730	,,	1000.5	999.1	..	28.7	25.8	24.5	30.7	78	..	7.3	..	7.6	0	0	30	0	0	0	0	2	8	19	1	1	0
Rentachintala	0830	106	1004.6	992.7	..	27.9	23.5	24.3	25.2	68	+1	6.3	−0.4	3.3	0	0	31	0	0	0	0	0	3	28	0	0	0
	1730	,,	1000.4	988.7	..	31.5	24.2	20.5	24.1	53	..	6.6	..	3.1	0	0	31	0	0	0	0	0	0	31	0	0	0
Gannavaram	0230	24	1002.1	999.4	..	26.0	24.7	24.2	30.2	90	..	6.7	..	7.7	0	2	20	0	0	0	2	0	8	11	1	9	0
	0530	,,	1002.5	999.8	..	25.6	24.2	23.6	29.2	89	..	6.6	..	9.9	0	7	14	0	0	0	0	0	6	13	2	10	0
	0830	,,	1004.2	1001.5	−0.4	26.9	24.7	23.6	29.2	83	+4	6.5	+0.1	15.0	0	9	22	0	0	0	0	0	9	20	2	0	0
	1130	,,	1003.9	1001.2	..	29.0	25.4	23.7	29.4	74	..	6.4	..	17.2	0	13	17	0	0	0	0	2	3	21	4	1	0
	1430	,,	1001.4	998·7	..	30.7	26.0	23.8	29.5	69	..	6.8	..	17.8	0	11	19	0	0	0	0	0	5	18	7	1	0
	1730	,,	1000.6	997·9	..	29.3	25.7	24.1	30.0	75	..	7.0	..	12.1	0	2	29	2	0	1	0	3	5	15	5	0	0
	2030	,,	1002.7	1000.0	..	27.1	25.5	24.6	31.1	85	..	6.6	..	8.3	0	2	19	1	2	1	1	7	5	3	1	10	0
	2330	,,	1003.4	1000.7	..	26.4	25.0	24.4	30.6	89	..	6.3	..	8.2	0	5	17	2	0	0	1	1	8	6	4	9	0
Nagarjunakonda (R)	0830	126																									
(R)	1730	,,																									
Masulipatam	0830	3	1004.2	1003.9	−1.1	26.9	24.5	23.5	28.8	82	+3	7.6	+1.0	3.7	0	0	29	0	0	0	0	5	13	10	1	2	0
	1730	,,	1000.9	1000.6	..	29.3	26.1	24.8	31.1	78	..	7.2	..	3.5	0	0	29	1	0	0	1	7	10	10	0	2	0
Ongole (R)	0830	12																									
(R)	1730	,,																									
Nellore (R)	0530	20	1004.0	1001.8	..	26.9	23.7	22.1	26.7	76	..	6.7	..	5.2	0	1	27	0	0	0	0	2	7	16	3	3	0
	0830	,,	1005.6	1003.4	−0.6	28.5	24.3	22.3	26.9	70	+5	6.9	+0.9	7.4	0	0	30	0	0	0	0	1	10	18	1	1	0
	1130	,,	1005.1	1002.9	..	31.5	25.0	21.9	26.4	58	..	6.4	..	9.7	0	3	28	0	0	0	0	1	11	17	2	0	0
	1730	,,	1001.6	999.4	..	32.6	25.6	22.3	27.1	56	..	6.4	..	8.5	0	0	29	0	0	0	1	0	25	0	3	2	0
	2330	,,	1004.8	1002.6	..	28.2	25·0	23.5	29.0	77	..	6.8	..	5.0	0	2	23	0	0	0	1	1	12	10	1	6	0
Telangana																											
Ramagundam	0830	156	1002.8	985.2	−1.1	25.2	23.7	22.6	27.9	86	+5	6.7	0	5.1	0	1	26	0	1	0	0	1	6	17	2	4	0
	1730	,,	999.6	982.3	..	29.2	25.2	23.5	28.8	72	..	6.8	..	3.7	0	1	26	1	1	0	0	1	13	10	1	4	0
Nizamabad	0830	381	1003.8	961.4	−1.3	24.6	22.5	21.8	25.5	83	+4	6.4	+1.3	1.2	0	0	15	0	0	0	0	0	15	0	0	16	0
	1730	,,	999·6	957.8	..	28.4	24.4	22.4	27.2	71	..	6.5	..	1.0	0	0	12	0	0	0	0	0	10	1	1	19	0
Hanamkonda	0830	269	1004.1	973.9	−1.2	25.2	23.1	22.0	26.4	81	+6	6.5	+0.7	2.5	0	0	30	3	0	0	0	1	0	25	1	1	0
	1730	,,	1000.8	971.1	..	28.3	24.7	23.1	28.1	74	..	6.0	..	2.0	0	0	31	0	1	0	1	1	2	17	4	0	5

*Wind directions for 28 days.

(R) Register not received.

(d) Mean of 27 days.

Sub Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(contd.) Hakimpet (Aerodrome)	0530	613	1003.2	935.5	..	21.7	20.9	20.5	24.1	93	..	6.6	..	27.0	0	24	7	1	0	0	0	0	1	27	2	0	0
	0830	,,	1004.0	936.5	..	23.0	21.7	21.0	24.9	88	..	6.8	..	27.3	0	29	2	0	0	0	0	0	1	29	1	0	0
	1130	,,	1003.3	936.5	..	26.0	22.9	21.5	25.6	77	..	6.9	..	29.9	0	30	1	1	0	0	0	0	0	25	5	0	0
	1730	,,	1000.8	934.1	..	26.3	23.1	21.5	25.6	76	..	6.8	..	26.3	0	22	9	1	0	0	0	0	2	23	5	0	0
	2330	,,	1003.5	936.1	..	23.0	21.8	21.2	25.1	89	..	6.6	..	22.9	0	19	10	0	0	0	0	0	4	22	3	2	0
Bhadrachalam	0830	111	1003.6	991.1	−0.7	26.2	24.5	23.7	29.3	84	0	7.1	+0.2	4.0	0	0	31	0	4	0	0	3	16	0	8	0	0
	1730	,,	1000.4	988.0	..	28.2	25.7	24.7	31.9	80	..	7.5	..	3.2	0	0	31	0	2	0	1	2	19	7	0	0	0
Hyderabad (Begampet)	0230	545	1002.6	942.4	..	23.1	21.1	20.0	23.5	83	..	6.5	..	18.6	0	13	16	1	0	0	0	0	1	25	2	2	0
	0530	,,	1003.0	942.7	..	22.3	20.6	19.9	23.1	85	..	6.7	..	19.0	0	16	14	0	0	0	0	0	1	26	3	1	0
	0830	,,	1004.6	944.4	−0.8	23.5	21.2	20.1	23.5	82	+2	6.9	+0.8	22.3	0	23	8	0	0	0	0	0	2	26	3	0	0
	1130	,,	1003.7	944.2	..	26.6	22.3	20.4	23.9	69	..	7.1	..	26.5	0	27	3	0	0	0	0	0	1	25	4	1	0
	1730	,,	1000.3	941.1	..	27.3	22.5	20.1	23.6	66	..	7.1	..	20.9	0	17	14	1	0	0	0	0	5	19	6	0	0
	2330	,,	1003.8	943.8	..	23.9	21.6	20.5	23.8	82	..	6.8	..	17.0	0	12	17	0	0	0	0	1	6	20	2	2	0
Khammam	0830	112	1004.2	991.6	..	26.2	24.2	23.0	28.6	82	..	6.7	..	5.8	0	0	27	0	0	0	0	0	6	19	2	4	0
	1730	,,	1000.3	987.9	..	29.4	25.1	23.2	28.3	70	..	7.0	..	6.0	0	1	27	3	1	0	0	0	1	21	2	3	0
Mahbubnagar	0830	505	1005.2	949.2	..	23.7	21.6	20.6	24.1	83	..	6.6	..	10.1	0	0	31	1	0	0	0	0	12	12	6	0	0
	1730	,,	1001.1	946.0	..	27.4	22.4	20.9	24.3	69	..	7.3	..	7.7	0	0	31	1	0	0	0	1	4	18	7	0	0
Rayalseema Kurnool	0830	281	1006.0	974.4	−1.0	25.2	22.3	20.8	24.6	77	+3	6.2	+0.3	21.1	0	14	17	0	0	0	0	0	28	1	2	0	0
	1730	,,	1001.4	970.4	..	29.5	23.3	20.0	23.5	58	..	6.8	..	24.2	0	21	10	0	0	0	1	0	20	0	8	0	2
Anantapur	0530	350	1004.8	965.6	..	23.7	21.4	20.2	23.8	81	..	6.4	..	15.7	0	10	19	1	0	0	0	0	6	22	0	2	0
	0830	,,	1006.1	967.1	−0.4	25.2	22.1	20.5	24.1	75	+1	6.5	+0.3	16.5	0	11	20	0	0	0	0	0	6	25	0	0	0
	1130	,,	1005.3	966.8	..	18.5	23.2	20.5	24.1	62	..	6.6	..	24.1	0	23	8	0	0	0	0	0	4	27	0	0	0
	1430	,,	1002.7	964.5	..	30.3	23.5	20.0	23.5	56	..	7.0	..	22.9	0	19	12	0	0	0	0	0	1	29	1	0	0
	1730	,,	1002.1	963.6	..	28.9	23.2	20.1	23.1	61	..	7.0	..	22.2	0	18	13	1	1	0	0	0	0	28	1	0	0
	2030	,,	1004.6	965.8	..	26.9	22.4	19.9	23.4	67	..	5.7	..	17.7	0	13	16	0	0	0	0	0	1	27	1	2	0
	2330	,,	1005.8	966.8	..	25.5	22.0	20.2	23.7	73	..	5.8	..	19.4	0	14	16	0	1	0	0	0	5	24	0	0	1
Cuddapah	0830	130	1006.5	991.8	−0.9	26.8	23.4	21.8	25.9	75	+7	6.0	+0.1	1.4	0	0	9	0	0	0	0	0	0	9	0	2	0
	1730	,,	1002.2	987.8	..	31.1	24.6	21.5	25.5	59	..	6.0	..	2.7	0	0	19	0	0	0	0	0	1	17	1	2	0
Arogyavaram	0830	701	1006.3	929.6	..	23.2	20.2	18.2	20.6	71	..	5.6	..	11.3	0	3	28	3	0	0	0	2	0	24	2	1	0
	1730	,,	1003.0	926.8	..	27.3	21.3	18.2	20.7	59	..	6.0	..	12.0	0	1	30	5	0	0	0	1	1	21	3	0	0
Madras State Madras	0830	6	1006.5	1005.8	..	27.5	24.3	22.7	27.7	76	..	6.2	..	7.9	0	0	30	0	0	0	0	0	17	13	0	1	0
	0230	16	1004.5	1002.8	..	26.5	24.1	22.9	28.1	82	..	6.3	..	10.4	0	3	25	0	0	0	0	8	7	13	0	3	0
Madras (Minambakkam)	0530	,,	1004.8	1003.1	..	26.1	23.7	22.6	27.3	82	..	6.1	..	8.7	0	1	28	0	0	0	0	9	11	9	0	2	0
	0830	,,	1006.5	1004.8	−0.4	27.7	24.3	22.3	27.6	75	+7	6.6	+1.2	10.8	0	1	29	0	0	0	0	4	16	10	0	1	0
	1130	,,	1005.8	1004.1	..	31.2	24.9	21.9	26.3	59	..	6.3	..	17.9	0	16	14	0	0	0	0	0	9	18	3	1	0
	1430	,,	1003.4	1001.7	..	32.9	25.6	22.1	26.9	54	..	6.7	..	15.2	0	8	23	1	0	1	3	3	8	14	1	0	0
	1730	,,	1002.8	1001.1	..	31.0	25.5	23.0	28.3	64	..	6.5	..	18.8	0	6	25	0	0	3	7	8	8	5	0	0	0
	2030	,,	1005.1	1003.3	..	28.4	25.2	23.7	29.5	77	..	6.1	..	11.0	0	2	27	1	0	0	5	12	7	4	0	2	0
	2330	,,	1005.9	1004.1	..	27.5	24.7	23.4	28.8	80	..	6.0	..	11.3	0	5	21	0	0	0	1	7	9	6	3	5	0
Vellore	0530	214	1005.4	981.3	..	24.9	22.2	20.8	24.4	78	..	6.0	..	1.1	0	0	6	0	0	0	0	1	0	5	0	25	0
	0830	,,	1006.6	982.6	−0.4	26.6	22.8	20.8	24.6	71	+1	6.5	+2.0	7.8	0	0	29	0	0	0	0	0	4	22	3	2	0
	1130	,,	1006.2	982.4	..	30.0	24.0	21.1	25.1	60	..	6.8	..	6.6	0	0	31	0	0	0	0	0	1	24	6	0	0
	1730	,,	1002.9	979.3	..	30.1	23.9	20.8	24.7	60	..	7.2	..	3.9	0	0	25	0	0	0	0	2	7	14	2	6	0
	2330	,,	1006.4	982.4	..	26.3	22.6	21.2	24.4	75	..	5.1	..	2.9	0	0	17	0	0	0	0	0	2	13	2	13	0
Tambaram (Aerodrome)	0830	29	1006.3	1003.0	..	27.6	25.9	25.1	31.9	87	..	6.9	..	16.2	0	6	25	0	0	0	1	3	22	5	0	0	0
	1730	,,	1002.9	999.7	..	31.1	27.7	26.3	34.4	76	..	6.6	..	22.2	0	17	14	0	0	4	9	3	12	3	0	0	0
Tiruppattur	0830	390	1007.7	964.1	..	24.4	22.1	20.9	24.7	82	..	8.0	..	3.2	0	0	30	23	0	4	0	2	0	1	0	1	0
	1730	,,	1003.6	960.9	..	29.0	23.5	20.7	24.5	62	..	7.6	..	6.8	0	0	31	10	3	1	0	5	0	12	0	0	0
Mettur Dam R.S.	0830	..	..	..	..	26.9	24.6	23.5	28.9	82	..	5.7	..	3.9	0	0	27	0	3	0	4	0	16	0	4	4	0
	1730	..	..	..	..	29.2	26.6	25.5	32.6	81	..	6.5	..	5.1	0	0	31	0	4	0	4	0	20	0	3	0	0
Cuddalore	0530	12	1004.9	1003.6	..	25.8	23.5	22.3	26.9	81	..	6.5	..	6.1	0	0	30	0	0	0	2	0	27	1	0	1	0
	0830	,,	1006.8	1005.5	−0.8	27.8	24.1	22.3	26.9	73	0	6.9	+1.9	7.0	0	0	31	0	0	0	2	1	27	1	0	0	0
	1130	,,	1005.9	1004.6	..	31.9	25.0	22.0	25.9	56	..	6.6	..	9.8	0	1	30	0	0	0	0	2	27	1	1	0	0
	1730	,,	1003.3	1002.0	..	31.0	25.4	22.7	27.9	63	..	6.4	..	7.1	0	3	28	0	1	0	16	0	13	0	1	0	0
	2330	,,	1006.1	1004.8	..	27.4	24.4	23.0	28.1	78	..	6.5	..	9.1	0	0	31	0	0	0	2	2	27	0	0	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*contd.*)																											
Kallakkurichchi	0830	127	1006·6	992·3	..	26·8	23·7	22·2	26·7	72	..	6·2	..	7·7	0	0	27	1	0	0	1	4	21	0	0	4	0
	1730	,,	1002·7	988·7	..	30·9	24·7	21·7	25·9	60	..	6·3	..	7·5	0	0	27	0	2	1	2	0	20	1	1	4	0
Salem	0530	278	1000·0	974·7	..	23·7	21·8	20·9	24·6	84	..	6·5	..	2·8	0	0	18	0	0	0	0	2	10	6	0	13	0
	0830	,,	1007·2	976·4	−0.8	25·2	22·5	21·2	25·0	79	+1	7·1	+1·9	1·7	0	0	12	0	0	0	0	4	3	5	0	19	0
	1130	,,	1006·5	975·8	..	29·0	23·5	20·8	24·4	62	..	6·5	..	5·7	0	0	30	0	0	0	0	4	8	17	1	1	0
	1730	,,	1003·1	972·6	..	29·9	23·3	19·8	23·2	56	..	7·0	..	5·7	0	1	21	0	0	1	0	0	6	15	0	9	0
	2330	,,	1007·2	976·0	..	25·4	22·4	20·7	24·6	76	..	6·7	..	3·7	0	0	21	0	0	0	0	1	9	10	1	10	0
Coimbatore (Pilamedu)	0530	399	1006·8	962·1	..	22·3	21·5	21·1	25·0	93	..	5·3	..	22.3	0	17	14	0	0	0	0	14	14	3	0	0	0
	0830	,,	1008·2	963·6	..	23·8	22·2	21·4	25·5	87	..	5·9	..	23·3	0	18	13	0	0	0	0	14	16	1	0	0	0
	1130	,,	1007·3	963·3	..	27·2	23·4	21·5	25·6	71	..	5·7	..	26·1	0	21	9	0	0	0	0	11	14	3	0	1	2
	1730	,,	1004·7	960·7	..	26·5	23·0	21·3	25·3	74	..	6·3	..	34·4	0	28	3	0	0	0	0	10	19	2	0	0	0
	2330	,,	1008·1	963·4	..	23·0	23·7	21·5	25·9	91	..	5.5	..	14·3	0	22	9	0	0	0	0	12	18	1	0	0	0
Coimbatore	0830	409	1008·2	962·7	−0·4	24·1	21·5	20·1	23·5	79	−2	6·8	+2.5	24·1	0	30	1	0	8	0	0	7	7	0	0	0	0
Nagapattinam	0830	9	1007·8	1006·7	−0·4	28·1	24·0	21·9	26·6	70	..	5·9	+1.3	10·1	0	1	30	0	0	0	0	0	17	13	1	0	0
	1730	,,	1003·9	1002·9	..	31·4	25·6	23·0	28·1	62	..	5.6	..	16·8	0	9	22	0	0	0	6	4	16	4	1	0	0
Tiruchirappalli	0230	88	1005·5	995·6	..	26·3	22·6	20·7	24·5	72	..	5·5	..	18·3	0	12	18	0	0	0	0	0	4	22	4	1	0
	0530	,,	1005·7	995.7	..	25·4	22·5	21·1	25·0	77	..	5·9	..	15·7	0	10	19	0	0	0	0	1	1	27	0	2	0
	0830	,,	1007.1	997.2	−1.2	27·3	23·3	21·3	25·4	70	+6	6.0	+1.4	24.2	0	19	12	0	0	0	0	0	3	27	1	0	0
	1130	,,	1006·4	996·6	..	31·3	24·0	20·4	24·0	53	..	5.9	..	28.4	1	22	8	0	0	0	0	1	6	22	2	0	0
	1430	,,	1003·6	993·9	..	33·5	24·6	20·1	23·7	46	..	5·9	..	26·2	0	20	11	1	0	0	0	1	6	17	6	0	0
	1730	,,	1003·2	993·5	..	31·9	24·1	20·1	23·5	51	..	6·3	..	24·3	0	13	17	2	0	0	3	0	6	16	3	1	0
	2030	,,	1005·8	995 9	..	28·7	23·5	20·8	24·8	64	..	5·3	..	23·8	0	18	12	0	0	0	2	6	5	17	0	1	0
	2330	,,	1006·8	996·9	..	27·1	22·9	20·8	24·4	69	..	5·7	..	23·3	0	13	17	0	1	0	0	2	7	20	0	1	0
Vedaranniyarm	0830	4	1007·8	1007·3	..	28·7	25·3	23·7	29.5	75	..	4·8	..	6·3	0	0	29	0	0	0	0	11	16	0	2	2	0
	1730	,,	1005·0	1004·5	..	29·8	25·7	23·8	29·7	71	..	3·9	..	8·0	0	0	31	0	0	0	2	14	15	0	0	0	0
Atirampattinam	0830	6	1007·4	1004·7	..	28·4	24·6	22·8	27·7	72	..	4·4	..	8·0	0	0	29	1	0	0	0	9	5	0	4	2	0
	1730	,,	1004·1	1003·5	..	29·7	26·1	24·6	30·9	74	..	5·0	..	21·7	0	19	12	0	0	0	0	27	4	0	0	0	0
Madurai	0830	133	1007·9	992·9	−0.4	27·7	22·8	20·3	23·8	65	+3	3·5	−1.7	4·4	0	0	30	2	1	0	1	0	3	9	1	1	3
Madrai Aerodrome	0530	131	1006·4	991·5	..	25·7	22·4	20·6	24·4	75	..	5·4	..	9·4	0	4	20	7	0	0	0	0	7	7	3	7	0
	0830	,,	1007·8	992·5	..	28·0	23·0	20·4	24·0	64	..	5·4	..	13·0	0	5	22	7	0	0	1	1	3	9	6	4	0
	1130	,,	1007·1	992·5	..	31·3	23·6	19·5	22·9	50	..	5·5	..	15.9	0	9	20	4	1	0	0	0	8	11	4	2	1
	1730	,,	1004·2	989·1	..	30·9	23·5	19·6	22·8	52	..	6·2	..	21·6	0	18	12	2	3	2	3	2	3	15	0	1	0
Tondi	0830	5	1007·9	1007·3	..	28·1	24·5	22·8	27·7	73	..	4·7	..	7·0	0	1	25	1	0	2	2	6	12	1	2	5	0
	1730	,,	1004·4	1003·8	..	30·1	26·0	24·1	30·4	72	..	5·1	..	26.1	0	26	5	0	0	0	2	12	5	2	0	0	0
Pamban	0830	11	1008·0	1006·7	−0.4	28·1	25·6	24·5	30·7	81	+5	3·7	+0.8	10·4	0	6	23	0	1	0	1	4	4	15	4	1	2	0
	1730	,,	1004·7	1003·4	..	28·4	25·9	24·8	31·5	81	..	4·3	..	15·9	0	12	19	0	0	0	4	12	15	0	0	0	0
Tutikorin	0830	4	1008·3	1007·9	+0.2	28·9	23·6	20·8	24·7	62	+5	3·7	+0.1	12·2	0	6	25	2	2	0	0	0	6	18	3	0	0
	1730	,,	1005·0	1004·6	..	30·7	24·3	24·1	25·2	58	..	4·7	..	22·1	0	18	13	1	0	0	5	7	3	14	1	0	0
Palayamcottai	0830	51	1008 0	1002.3	−0 1	29·2	23.2	20.0	23·5	58	+2	5·2	+0.7	7.0	0	3	19	0	0	0	0	0	4	14	4	9	0
	1730	,,	1004·9	999·2	..	30·7	23·5	19·8	23·1	53	..	5·3	..	14·2	0	10	18	0	0	1	0	0	4	20	2	3	1
Kanniya Kumari	0830	37	1008·8	1004·7	..	26·5	24·1	23·0	28·1	82	..	5·2	..	18·6	0	16	15	0	0	0	0	0	4	25	2	0	0
	1730	,,	1006·2	1002·1	..	27·0	24·5	23·3	28·6	77	..	5·5	..	18·8	0	13	18	0	0	0	0	0	3	27	1	0	0
Coastal Mysore																											
Karwar	0830	4	1007·9	1007·4	−0.3	26·0	24·3	23·5	28·9	87	−2	7·5	+0.3	19·7	0	14	17	0	1	2	0	0	0	6	3	0	19
	1730	,,	1006·0	1005·5	..	26·9	24·7	23·7	29·3	83	..	7·5	..	20·3	0	18	12	0	0	0	0	1	1	6	5	1	17
Honavar	0830	26	1008·0	1005·1	−0.8	25·1	24·0	23·5	28·9	91	0	7·7	+1.0	9·0	0	3	25	0	0	5	0	3	9	11	0	3	0
	1730	,,	1005·7	1002·9	..	26·3	24·6	23·8	29·7	86	..	7·8	..	7·4	0	1	29	0	0	1	0	0	6	19	4	1	0
Mangalore (Bajpe)	0230	102	1007·2	995·7	..	24·1	23·5	23·1	28·4	94	..	7·3	..	8·2	0	3	24	0	0	2	2	1	6	13	3	4	0
	0530	,,	1007·2	995·7	..	23·9	23·2	22·9	27·9	94	..	7·3	..	8·3	0	2	27	1	1	6	0	0	5	12	4	2	0
	0830	,,	1008·8	997·3	..	24·8	23·8	23·3	28·6	91	..	7·5	..	7·0	0	1	27	2	4	4	1	0	4	13	0	3	0
	1130	,,	1008·8	997·3	..	26·7	24·5	23·5	28·9	83	..	7·4	..	11·2	0	1	29	0	1	0	0	1	4	17	7	1	0
	1430	,,	1007·0	995·6	..	27·1	24·5	23·4	28·6	81	..	7·5	..	13·8	0	6	25	0	0	0	0	1	7	15	8	0	0
	1730	,,	1006·5	995·0	..	26·3	24·3	23·4	28·8	84	..	7.3	..	13·1	0	3	28	0	0	0	0	0	5	16	10	0	0
	2030	,,	1008·1	996·6	..	24·9	23·8	23·3	28·6	91	..	7·2	..	7·7	0	1	25	1	0	0	0	0	5	13	7	5	0
	2330	,,	1008·8	997·3	..	24·6	23·7	23·2	28·6	92	..	7·0	..	8·1	0	2	26	2	0	2	0	1	5	11	7	3	0
Mangalore	0830	22	1008·8	1006·3	−1·0	25·6	24·2	23·6	29·1	89	−1	7·5	+0·8	5·2	0	0	29	2	1	5	2	0	6	10	0	2	3
	1730	,,	1006·7	1004·3	..	27·4	25·0	24·0	29·8	82	..	7·8	..	7·2	0	0	31	0	0	0	0	0	8	7	6	0	10

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore North																											
Bidar	0830	664	1004·6	931·4	..	22·1	20·8	20·2	23·5	89	+6	6·7	+1·3	22·3	0	22	8	0	0	0	0	0	15	14	1	1	0
	1730	,,	999·5	928·1	..	25·7	22·4	20·7	24·7	76	..	8·0	..	17·3	0	13	17	0	0	0	0	1	5	24	0	1	0
Gulbarga	0830	458	1005·2	954·2	−1.3	23·8	21·7	20·7	24·4	83	+5	7·3	+1·8	12·2	0	3	27	0	0	0	0	0	6	24	0	1	0
	1730	,,	1000·6	950·6	..	27·9	22·6	20·0	23·5	64	..	6·7	..	18·8	0	16	15	1	0	0	0	1	3	24	2	0	0
Bijapur	0830	594	1005·3	939·6	−1·5	22·6	21·3	20·7	24·4	89	+12	7·5	+1·9	5·0	0	0	31	0	0	0	0	0	6	24	1	0	0
	1730	,,	1002·5	936·9	..	26·4	22·1	20·1	23·5	69	..	6·7	..	5·5	0	0	31	0	0	0	1	0	5	22	3	0	0
Raichur	0830	400	1005·5	961·2	−1·2	25·0	22·0	20·5	24·0	76	0	6·3	+2·0	9·9	0	5	23	0	0	0	0	0	22	3	2	3	1
	1730	,,	1001·2	958·1	..	29·2	22·9	19·1	22·8	58	..	6·7	..	11·5	0	0	31	0	2	0	8	0	12	0	9	0	0
Belgaum	0830	753	1005·7	923·1	−2·0	21·1	20·7	20·5	24·1	96	+5	7·9	+0·8	5·6	0	0	29	0	0	0	0	0	0	27	2	2	0
	1730	,,	1004·0	921·7	..	22·3	21·6	21·2	25·3	94	..	7·7	..	9·4	0	0	31	0	0	0	0	0	0	24	7	0	0
Belgaum (Samra)	0530	747	1005·2	922·9	..	20·5	19·8	19·5	22·5	94	..	7·3	..	16·0	0	12	18	0	0	0	0	0	7	22	1	1	0
	0830	,,	1006·5	924·3	..	21·3	20·3	19·8	22·9	91	..	7·8	..	16·3	0	9	22	0	0	0	0	0	7	23	1	0	0
	1130	,,	1006·1	924·5	..	23·3	21·2	20·2	23·5	83	..	7·7	..	18·6	0	17	13	0	0	0	0	0	5	23	2	1	0
	1430	,,	1004·5	923·1	..	23·7	21·5	20·4	24 0	82	..	7·8	..	20·7	0	20	11	0	0	0	0	0	3	27	1	0	0
	1730	,,	1004·0	922·4	..	22·7	21·0	20·1	23·5	86	..	7·7	..	18·7	0	14	17	0	0	0	0	0	9	22	0	0	0
	2030	,,	1006·0	923·8	..	21·1	20·1	19·6	22·8	91	..	7·3	..	16·9	0	10	21	0	0	0	0	0	7	23	1	0	0
Gadag	0530	650	1005·5	933·4	..	20·9	20·3	20·0	23·4	94	..	6·6	..	10·8	0	3	28	0	0	0	0	0	5	26	0	0	0
	0830	,,	1006·6	934·8	−1·0	22·2	20·9	20·3	23.8	89	+5	7·2	+1·3	10·7	0	1	30	0	0	0	0	0	4	27	0	0	0
	1130	,,	1006·2	935·0	..	25·5	22·0	20·3	23·8	74	..	7·3	..	12·0	0	2	29	0	0	0	0	0	2	29	0	0	0
	1430	,,	1003·8	933·2	..	26·6	22·1	20·0	23·2	69	..	6·9	..	15·4	0	7	24	0	0	0	0	0	1	30	0	0	0
	1730	,,	1003·5	932 6	..	24·8	21·6	20·0	23·4	75	..	7·0	..	11·0	0	2	28	0	0	0	0	0	2	28	0	1	0
	2030	,,	1005·8	934·2	.	22·6	21·0	20·2	23·7	87	..	6·4	..	6·8	0	0	31	0	0	0	0	0	3	28	0	0	0
	2330	,,	1006·9	935·3	..	21·6	20·5	19·9	23·2	90	..	6·9	..	11·8	0	1	30	0	0	0	0	0	7	34	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1006·0	956·2	−1·2	24·9	21·7	20·0	23·4	74	+7	5·9	+0·3	10·8	0	7	23	0	0	0	0	0	0	0	30	1	0
	1730	,,	1002·6	953·4	..	28·1	22·5	19·5	22·7	65	..	6·5	..	12·5	0	8	23	9	0	0	0	0	0	0	31	0	0
Chitra Durga	0830	733	1006·9	926·2	−1·1	21·4	20·1	19·4	22·7	88	+7	7·2	+0·3	10·5	0	0	31	0	0	0	0	0	5	26	0	0	0
	1730	,,	1003·5	923·9	..	24·7	21·0	19·1	22·1	73	..	7·3	..	9·4	0	0	31	0	0	0	0	0	1	30	0	0	0
Shimoga	0830	571	1007·3	944·0	−0·9	22·6	21·3	20·7	24·4	88	+1	7·2	0	..	0	..	..	0	0	0	0	0	9	22	0	0	0
	1730	,,	1004·7	942·0	..	24·6	21·6	20·3	23·5	78	..	6·7	..	..	0	..	..	0	0	0	0	0	4	27	0	0	0
Agumbe	0830	,,	..	..	..	21·3	20·7	20·4	24·0	97	..	..	..	7·4	..	..	..	..	..	..	..	..	..	..	..	..	..
Balehonnur	0830	,,	..	..	..	19·8	19·3	19·1	22·0	95	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1483·4	903·5	..	19·9	19·2	18·8	21·8	93	+9	7·6	+1·0	4·5	0	0	31	0	0	0	0	0	1	30	0	0	0
	1730	,,	1467·7	901·3	..	22·2	19·9	18·7	21·6	81	..	7·2	..	4·8	0	0	31	0	0	0	0	0	10	19	2	0	0
Bangalore	0230	921	1468·5	906·2	..	20·0	19·1	18·5	21·6	92	..	6·2	..	11·3	0	4	25	0	0	0	0	0	9	19	1	2	0
	0830	,,	1481·0	907·3	−0·7	20·4	19·3	18·7	21·6	90	+5	7·5	+0·3	11·5	0	5	26	0	0	0	0	0	8	21	2	0	0
	1130	,,	1486·2	907·2	..	23·8	20·3	18·5	21·3	73	..	7·1	..	15·0	0	6	25	0	0	0	0	0	6	22	3	0	0
	1430	,,	1471·4	905·4	..	25·4	21·0	18·8	21·7	68	..	4·0	..	12·8	0	7	23	0	0	0	0	0	4	23	3	1	0
	1730	,,	1465·1	904·9	..	24·3	20·5	18·6	21·3	72	..	7·2	..	10·6	0	4	26	0	0	0	0	0	3	22	5	1	0
	2030	,,	1477·4	906·6	..	22·0	19·9	18·7	21.7	82	..	6·2	..	9·7	0	3	26	0	0	0	1	0	8	17	3	2	0
Bangalore Aerodrome	0530	897	1463·2	908·2	..	19·6	19·2	19·0	22·0	96	..	6·6	..	14·8	0	2	29	0	0	0	0	0	3	28	0	0	0
	0830	,,	1480·0	909·7	..	20·9	20·0	19·5	22·7	92	..	7·3	..	17·8	0	11	20	1	0	0	1	0	2	23	4	0	0
	1130	5	1484·1	909·5	..	24.2	21·7	20·1	24·1	78	..	7·2	..	2·1	0	12	19	0	0	0	0	0	4	26	1	0	0
	*1430	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1460·2	906·9	..	24·4	21·6	20·2	23·8	79	..	7·2	..	17·7	0	6	25	0	0	0	0	0	5	24	2	0	0
	*2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	1479·7	909·7	..	20·9	20·0	19·6	22·7	93	..	7·0	..	15·6	0	6	23	0	0	0	0	0	4	25	0	2	0
Mysore	0830	767	1008·4	924·0	−0·9	21·5	19·7	18·7	21·6	84	+4	5·1	−1·2	7·9	0	3	27	0	0	0	0	3	15	9	3	1	0
	1730	,,	1005·2	921·9	..	24·6	20·5	18·3	21·0	69	..	6·3	..	10·8	0	3	28	0	0	1	0	0	11	19	0	0	0
Kerala																											
Calicut	0530	5	1008·5	1007.9	..	24·2	23·7	23·5	28·9	96	..	6·0	..	4·6	0	1	16	2	2	3	0	0	2	2	6	14	1
	0830	,,	1009·9	1009·3	−0·3	24·8	24.0	23·7	29.1	93	+2	6·4	−0·2	6·0	0	2	19	2	3	3	0	1	0	2	10	10	0
	1130	,,	1010·1	1009·5	..	26·5	25·2	24·5	31·1	89	..	6·7	..	4·7	0	0	27	1	1	0	0	2	5	8	10	4	0
	1730	,,	1007·5	1006.9	..	26·4	25·1	24·6	30.7	90	..	6·4	..	9.7	0	5	22	1	0	1	0	1	1	10	13	4	0
	2330	,,	1010.1	1009.4	..	24.7	24·3	24.0	30.0	95	..	6.0	..	5.9	0	1	17	5	0	1	1	0	2	4	5	13	0
Palgnat	0830	97	1009.3	998.2	..	24.6	23.4	22·9	27.7	90	..	7.3	..	10.6	0	0	31	0	0	0	0	0	30	1	0	0	0
	1730	,,	1006.3	995.4	..	26.0	23.9	22.8	27.9	83	..	7.1	..	13.2	0	3	28	0	0	0	0	0	1	30	0	0	0

*Data not available.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Departure from normal	Relative humidity %	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*contd.*)																											
Fort Cochin	0830	3	1010.0	1009·7	−0.6	26·1	24.5	23.9	29.6	88	+2	7.2	+1.2	5.0	0	0	28	1	12	6	2	0	3	2	2	3	0
	1730	,,	1007.2	1006.9	..	26.8	25.0	24.2	30.9	86	..	7.4	..	8·5	0	0	29	0	0	0	0	0	7	7	15	2	0
Cochin (Naval Air Station)	0230	3	1008.6	1008.3	..	24.9	24.1	23.7	29.3	93	..	6.6	..	4.1	0	0	11	0	0	0	0	0	4	3	4	20	0
	0530	,,	1008.6	1008.3	..	24.5	23.9	23.6	29.1	95	..	6.1	..	3.7	0	0	8	0	0	0	0	0	3	4	1	23	0
	0830	,,	1010·0	1009·7	..	26.1	24.6	23.9	29.7	88	..	6.3	..	2.3	0	0	6	0	1	0	0	0	2	2	1	25	0
	1130	,,	1010·1	1009.8	..	28·1	25·2	23·8	29·6	78	..	6.1	..	11.1	0	1	25	0	0	0	0	2	5	7	12	5	0
	1730	..	1007.7	1007·4	.	27.2	24.9	23.9	29.7	82	..	6.8	..	11.8	0	0	28	0	0	0	0	1	5	14	8	3	0
	2330	,,	1010·0	1009.7	..	25.4	24.4	23·9	29.7	91	..	6.4	..	4.6	0	0	14	0	0	0	0	2	1	7	4	17	0
Alleppey	0830	4	1010·2	1009.8	+0·2	25·6	24·7	24·3	30.4	93	+3	6.4	−0.4	7.5	0	5	22	0	10	3	2	0	1	5	6	4	0
	1730	,,	1007·9	1007.5	..	27.7	25.5	24.5	30.8	83	..	6.4	..	19.0	0	14	17	0	0	0	0	0	0	3	28	0	0
Punalur	0830	34	1009.9	1006.1	..	24.7	23.9	23.5	28.9	93	..	6.8	..	0.5	0	0	3	0	0	0	0	1	2	0	0	28	0
	1730	,,	1007.8	1004.0	..	25.9	24.8	24.3	30.5	91	..	7.3	..	4.7	0	0	29	0	0	0	0	7	13	7	2	2	0
Trivandrum	0230	64	1008·4	1001·1	..	..	23.7	23·3	28.7	94	..	5.1	..	6.1	0	0	25	6	0	0	0	0	0	7	12	6	0
	0530	..	1008.4	1001.0	..	24·0	23.3	23·1	28.1	94	..	4.9	..	7.3	0	1	29	12	0	0	0	0	1	3	14	1	0
	0830	..	1009.9	1002.6	−1.0	25.4	23.9	23.3	28.6	88	+2	5.6	−0.7	7.7	0	0	29	6	0	0	0	0	1	3	19	2	0
	1130	,,	1009.6	1002·4		28.1	24.8	23.3	28.6	75	..	6.1	..	13.5	0	4	26	4	0	0	0	0	2	8	16	1	0
	1430	..	1007·4	1000·2	..	28·5	24·8	23·1	28·3	73	..	5.7	..	14.5	0	6	25	1	0	0	0	0	3	6	21	0	0
	1730	..	1007.3	1000.1	..	27·0	24·4	23·2	28·5	80	..	5·7	..	10·8	0	1	30	1	0	0	0	0	3	4	23	0	0
	2030	..	1009.3	1001.9	..	25·4	24·1	23·6	28·9	90	..	4 2	..	8·3	0	1	28	4	0	0	0	0	1	5	19	2	0
	2330	..	1010.0	1002.6	..	24·8	23·8	23·4	28·8	92	..	4·5	..	7.6	0	0	28	8	1	0	0	0	0	6	13	3	0
Trivandrum (Aerodrome)	0830	8	1010.2	1009.3	..	26·4	24·1	23·1	28.2	82	..	5·9	..	23·4	0	20	11	16	0	0	0	0	0	2	13	0	0
Arabian Sea Islands																											
Amini*	0530	4																									
	0830	..																									
	1130	..																									
	1730	..																									
	2330	..																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1430	..																									
	1730	..																									
	2030	..																									
	2330	..																									
Hill Stationsexcluding Kashmir																											
Dalhousie	0830	1959	1376.1	794·7	−1.0	18.5	17·5	16·8	19·1	90	−1	5.2	+0·9	1.3	0	0	12	1	1	3	3	0	0	2	2	19	0
	1730	..	1366·4	794 0	..	20·2	18·4	17·6	20·1	87	..	5.5	..	1.4	0	0	12	1	7	1	1	0	0	1	1	19	0
Dharmsala	0830	1211	1473·3	876·3	−1·3	23·0	21·0	20·1	23·5	85	−1	7.1	+1·5	1.6	0	0	18	2	6	3	0	1	0	3	3	13	0
	1730	..	1472.3	876.1	..	24·3	22·4	21·4	25·5	84	..	6.8	..	2.4	0	0	24	4	2	3	1	2	3	7	2	7	0
Simla	0830	2202	1431·8	777·0	−1.3	17·4	16·2	15·4	17·6	89	+3	7.2	+0.6	2.0	0	0	31	6	0	2	2	15	0	3	3	0	0
	1730	..	1423·4	777.0	..	18·4	17·6	17·2	19·6	93	..	7.1	..	0.8	0	0	12	0	3	0	0	3	3	0	3	19	0
Lokpal	0830	..	..	..	..	6·8	6·6	6·1	9·4	97	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	19·2	18·3	17.7	20·2	91	..	8·7	..	2·3	0	0	24	2	5	3	0	1	4	3	6	7	0
	1730	..	..	..	.	22·2	19·2	17·6	20.1	75	..	6.0	..	3·4	0	0	30	2	3	1	0	0	10	3	6	1	5
Mussoorie	0830	2042	..	..	..	17·8	17.3	16.9	19·3	95	0	7·4	+0.4	2.8	0	0	21	4	1	0	3	7	3	0	3	10	0
	1730	..	..	..	..	18·5	18·1	18·0	20·6	97	..	7.7	..	2·3	0	0	19	3	2	0	5	7	1	0	1	12	0
Mukteswar (Kumaun)	0830	2311	3103·6	769·0	−0·4	16·5	15.7	15·2	17·3	92	+1	6.6	0	9.6	0	2	24	0	4	6	2	1	4	5	4	5	0
	1730	..	3087·3	767.1	..	18·0	17·2	16·7	19.0	92	..	6·8	..	8·5	0	0	26	0	0	1	2	2	9	9	3	5	0
Nainital	0830	1953	1430·7	800·3	−0·2	18·7	17·0	16·1	18·3	84	−3	6·5	−0·1	9.1	0	6	21	0	5	8	8	0	0	4	2	4	0
	1730	..	1401·8	797·7	..	17·8	15·6	14·8	16·8	84	..	6·8	..	7·2	0	0	27	0	0	8	8	2	1	8	0	4	0
Kalimpong	0830	1209	..	..	..	24.9	22.8	21.9	26.3	84	−7	3·2	−3·3	6.8	0	0	31	0	0	0	22	0	5	0	4	0	0
	1730	..	..	..	..	25.2	23.1	22.1	26.6	84	..	2.0	..	6.7	0	0	31	0	0	0	8	0	17	0	6	0	0
Darjeeling	0830	2128	1469·5	787.8	+1.7	17·8	16·8	16·3	18.5	94	+10	6.9	−0.1	2.2	0	0	11	6	3	0	0	0	0	0	0	20	2
	1730	..	1446.8	785.8	..	17·6	17·0	16·7	19·0	95	..	7.3	..	1.7	0	0	12	3	3	0	1	0	2	0	1	19	2
Kohima	0830	1406	1533·6	862·7	..	21·1	19.8	19·2	22.2	90	..	6·8	..	1.8	0	0	31	3	4	0	1	0	0	2	21	0	0
	1630	..	1446·1	854·1	..	22·4	21.1	20.3	23.7	89	..	7.5	..	1.4	0	0	31	6	4	0	1	0	3	7	10	0	0
Shillong	0830	1500	1462·1	846·5	+0.7	22.3	20.1	19.0	22·0	81	0	7.2	+0.6	0.9	0	0	3	0	2	0	1	0	0	0	0	28	0
	1730	..	1439·6	844·3		21·7	20·2	19·5	22·7	85	..	4 5	..	1.7	0	1	3	0	1	0	1	1	1	0	0	27	0

*Data given as addenda in December 1964 issue.

Sub-Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 26 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—(Contd.)																											
Cherrapunji (R)	0830																										
(R)	1730																										
Abu	0830	1195	1454·4	876.0	+1.1	20·5	20·0	19·7	22·9	95	+2	7.0	−0.3	1.1	0	0	7	0	0	0	0	0	3	3	1	24	0
	1730	"	1415.0	872.1	..	22·0	20·0	18·4	21·1	83	..	7.0	..	4.0	0	0	21	0	0	0	0	4	11	6	0	10	0
Ajal	0830	"	..	..	..	22.3	21.1	20·5	24·1	90	..	5.7	..	4.4	0	0	31	1	0	11	1	11	3	4	0	0	0
	1730	"	..	..	..	22·5	21.6	21·1	25·0	91	..	4.1	..	5.5	0	0	31	1	0	6	2	9	2	11	0	0	0
Pachmarhi	0830	1075	1434.9	886.3	−1.2	20·9	20·4	20·1	23·4	95	+5	7.5	+0.2	5.6	0	0	30	0	0	0	1	0	0	17	12	1	0
	1730	"	1414.5	884.1	..	22.3	21·1	20.5	24·1	90	..	7.3	..	5.3	0	0	29	0	2	0	0	1	0	14	12	2	0
Mahabaleshwar	0830	1382	1456.0	857.6	−1.8	17·2	17·2	17·2	19·6	100	+3	7 9	+0.1	15·4	0	2	29	0	0	0	0	0	31	0	0	0	0
	1730	"	1440.0	856.0	..	17·7	17·7	17·7	20·6	100	..	8·0	..	13·5	0	1	30	0	0	0	0	0	31	0	0	0	0
Mercara	0830	1152	1485.1	883.9	−0.3	18·0	17.7	17·5	20.0	97	+2	7·4	0	16·6	0	10	20	0	0	0	0	0	2	24	4	1	0
	1730	"	1468.5	882.0		19.0	18.6	18.2	21.1	95	..	7.6	..	13.7	0	12	19	0	0	0	0	0	2	22	6	0	1
Ootacamund (R)	0830	2249	..																								
(R)	1730	"																									
Coonoor (R)	0830	..																									
Kodaikanal	0830	2243	3131.0	769.5	−0.1	13.6	11.9	10.6	12.9	83	+6	6.1	+1.0	10.9	0	4	23	3	0	0	1	0	0	6	17	4	0
	1130	"	3140.4	269.7	..	16.5	14.1	12.6	14.6	79	..	7.0	..	10.5	0	8	16	3	0	0	2	1	0	3	15	7	0
	1730	"	3114.0	767.8	..	14.0	13·1	12 5	14·5	91	..	7.4	..	9·2	0	4	19	2	0	0	1	1	1	3	15	8	0
Nepal																											
Kathmandu	0830	1324	1437.9	861.3	..	22.9	21.0	20·1	23.5	65	..	6.2	..	0.9	0	0	7	2	3	1	1	0	0	0	0	24	0
	1130	"	1432.6	860.8	..	26.1	22.1	20.2	23.7	66	..	6.0	..	1.6	0	0	14	4	4	3	2	0	0	0	1	17	0
	1730	"	1413.5	858.9	..	4.0	22.1	21.6	25·4	82	..	6.3	..	0.8	0	0	5	0	2	0	2	1	0	0	0	26	0
Sikkim																											
Lachen (R)	0830																										
Hydrometeorological Observatories—Damodar Catchment:																											
Tilaiya	0830	.		..	..	27.7	25.0	23.9	29.7	80	..	6.8	..	8.2	0	0	29	0	0	8	5	1	0	12	3	2	0
	1730	..		..	..	28·3	25.3	24.0	29.8	77	..	6.4	..	9.3	0	0	29	1	1	10	2	2	0	10	3	2	0
Hazaribagh	0830	615	998.8	931.8	..	25.4	24.0	23.3	28.6	89	..	7.1	..	6.3	0	0	25	0	2	13	3	0	1	4	2	6	0
	1730	"	995.7	929.1	..	26.2	24.6	23.9	29.7	87	..	6.9	..	4.1	0	0	21	1	0	12	3	3	1	1	0	10	0
Konar	0830	"	..	..	..	27.0	24.9	24.0	29.8	84	..	6.8	..	5.7	0	0	26	2	3	3	13	1	0	3	1	5	0
	1730	"	..	..	..	27.0	25.3	24·5	30.7	87	..	6.2	..	4.7	0	0	27	1	2	10	10	1	0	2	1	4	0
Bokaro	0830	242	1000.3	973.7	..	27.3	25.3	24·4	30.5	85	..	6.3	..	4.6	0	0	28	2	1	10	8	1	3	3	0	3	0
	1730	"	998.9	972.3	..	27.9	25.7	24.7	31.1	84	..	6.5	..	4.8	0	0	29	2	1	8	11	2	3	1	1	2	0
Maithon	0830	..	..	..	..	28.5	26.1	25.3	32.2	82	..	6.0	..	5.9	0	0	31	1	1	3	15	0	8	3	0	0	0
	1730	..	..	..	..	30.0	26.7	25.3	32.2	77	..	5.7	..	7.0	0	0	31	0	3	1	16	5	5	1	0	0	0
Ranigarh	0830	..	..	..	..	27.4	26·1	25.6	32.8	90	..	7.7	..	2.4	0	0	25	1	4	5	6	1	4	0	4	6	0
	1730	..	..	..	..	27.7	26.4	25.9	33.4	89	..	7·3	..	2·0	0	0	21	0	1	2	12	4	2	0	0	10	0
Panchet Hill	0830	..	..	..	..	27·7	26.2	25·5	32.6	86	..	6·1	..	8·5	0	0	29	0	8	0	12	0	8	0	1	2	0
	1730	..	..	..	..	28.7	26.2	25.1	31.9	83	..	5·6	..	5·3	0	0	24	0	5	0	14	0	5	0	0	7	0
Durgapur	0830	..	..	..	..	28.4	26.8	26.2	34.0	88	..	6.1	..	9.6	0	1	30	0	2	5	10	9	5	0	0	0	0
	1730	..	..	..	..	29.4	27.1	26.1	33.8	83	..	5.6	..	8.1	0	2	29	1	4	2	10	6	7	1	0	0	0
Mahanadi Catchment																											
Ginabahar	0830	..				26.3	24.6	23.7	29.7	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1000.1	982.3	..	27.0	25.4	24.7	31.1	88	..	6.2	..	5.6	0	2	27	0	0	2	0	2	14	10	1	2	0
	1130	"	999.5	981.8	..	28.7	26.1	25.1	31.9	81	..	6.3	..	5.0	0	1	28	1	2	0	2	0	17	6	1	2	0
	1730	"	996.8	979.2	..	28.3	25.9	24.9	31.5	82	..	6.6	..	5.5	0	2	26	0	2	0	3	0	8	13	2	3	0
Bhimkund	0830	..	..	..	..	26.4	24.5	23.7	29.3	85	..	6.8	..	2.5	0	0	20	4	0	1	4	2	6	0	3	11	0
	1730	..	..	..	..	27.3	25.3	23.9	29.7	82	..	7.0	..	2.9	0	0	19	0	0	2	4	6	4	3	0	12	0
Sonepur	0830	..	..	..	..	26.8	25.2	24.5	30.7	88	..	..	..	6.6	0	2	29	1	0	2	0	9	4	15	0	0	0
Khijrawan	0830	..	..	..	..	24.5	23.2	22.5	27.3	88	..	6.1	..	4.0	0	0	28	1	0	0	0	5	10	9	3	3	0
	1730	..	..	..	..	25.6	23.3	22.5	26.6	83	..	6.3	..	3.6	0	0	30	3	0	0	0	2	11	8	6	1	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	25·0	23·8	23·1	28·4	89	..	7·3	..	11·6	0	0	30	0	1	0	0	0	14	15	0	1	0
	1730	..	..	..	..	26·6	24·6	23·7	29·3	85	..	7·0	..	7·5	0	0	30	0	1	1	0	2	16	9	1	1	0
Punasa	0830	..	..	..	..	25·0	23·7	23·1	28·3	89	..	7·4	..	9·2	0	0	29	0	0	0	0	0	12	16	1	2	0
	1730																										
Thikri	0830	..	..	..	..	28·3	24·9	23·4	28·6	76	..	7·1	..	9·2	0	1	29	1	1	0	0	0	8	18	2	1	0
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	26·1	24·5	23·7	29·5	87	..	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·8	22·9	20·9	24·7	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		..	..	..	..	30·7	24·7	21·9	26·3	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not available

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature °C: Dry bulb	Mean temperature °C: Wet bulb	Mean temperature °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment																											
Jomosom	0830	..	..	..	..	19·5	15·3	13·1	15·1	70	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·2	15·0	13·3	15·3	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	25·1	23·2	22·6	27·4	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·5	24·3	23·3	28·7	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	20·3	18·6	17·7	20·3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	19·5	18·2	20·9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·6	22·6	21·8	26·1	85	..	6·3	..	0·7	0	0	6	2	1	0	3	0	0	0	0	25	0
	1130	..	..	..	..	27·3	23·5	21·9	26·2	73	..	5·9	..	2·6	0	0	19	1	0	1	9	7	1	0	0	12	0
	1730	..	..	..	..	26·6	23·6	22·4	27·1	78	..	6·0	..	2·0	0	0	15	2	0	1	11	1	0	0	0	16	0
Gorkha	0830	..	..	..	..	22·5	21·7	21·4	25·5	93	..	6·8	..	..	..	..	..	..	..		..	..	..	..	..	..	..
	1130	..	..	..	..	25·3	23·1	22·1	26·7	83	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·9	22·7	21·7	25·9	82	..	5·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·3	22·8	22·1	26·7	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·2	23·4	22·2	26·8	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	..	..	..	..	22·4	21·3	20·7	24·4	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·7	22·5	21·9	26·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	..	..	..	..	19·2	18·4	18·0	20·6	93	..	6·2	..	3·4	0	0	26	2	0	6	5	1	2	3	7	5	0
	1130	..	..	..	..	21·6	19·7	18·9	21·8	85	..	5·9	..	3·7	0	0	27	9	2	1	2	0	2	0	11	4	0
	1730	..	..	..	..	20·8	19·5	18·9	21·9	89	..	6·1	..	3·1	0	0	27	3	0	1	2	2	1	1	17	4	0
Sallyana	0830	..	..	..	..	22·9	21·1	20·3	23·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	20·9	20·1	23·6	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·5	25·9	24·7	31·2	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·6	26·9	25·9	33·4	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu*	0830	1324																									
	1130	,,																									
	1730	,,																									
Hosi Catchment																											
Chautara	0830	..	..	..	..	21·0	20·3	20·0	23·4	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·0	21·1	20·4	24·0	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·5	17·9	17·4	19·9	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	18·1	17·6	20·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchang Gola	0830	..	..	..	..	13·7	12·1	11·1	13·2	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·8	12·3	12·0	14·1	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	21·9	20·4	19·6	22·8	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	20·6	19·8	23·1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·7	20·1	19·3	22·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·4	19·7	19·5	22·6	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·2	19·0	18·5	21·3	90	..	6·8	..	0·7	0	0	6	1	0	0	0	3	1	1	0	25	0
	1130	..	..	..	..	22·9	20·4	19·3	22·5	81	..	6·3	..	4·3	0	0	25	2	0	0	2	5	6	6	4	6	0
	1730	..	..	..	..	21·7	19·9	19·0	22·0	85	..	6·5	..	3·3	0	0	14	1	0	0	2	9	1	0	1	17	0
Okhaldhunga	0830	..	..	..	..	19·8	18·8	18·3	21·0	91	..	5·9	..	1·1	0	0	10	1	0	1	0	0	1	4	3	21	0
	1130	..	..	..	..	22·8	20·6	19·6	22·8	83	..	5·7	..	1·3	0	0	13	1	0	3	2	2	4	1	0	18	0
	1730	..	..	..	..	20·4	19·4	19·0	21·9	92	..	6·1	..	0·6	0	0	6	0	0	0	0	1	0	3	2	25	0
Chainpur	0830	..	..	..	..	22·6	21·3	20·6	24·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·4	22·1	21·5	25·7	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23·9	22·1	21·2	25·3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·3	21·8	20·6	24·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetrat	0830	146	1001·2	984·9	..	27·4	25·6	24·8	31·4	86	..	5·6	..	3·6	0	0	25	1	2	1	0	0	12	1	8	6	0
	1130	,,	1000·3	984·2	..	29·8	26·5	25·1	31·9	77	..	6·2	..	3·8	0	0	25	0	0	0	0	1	21	2	1	6	0
	1730	,,	997·8	981·7	..	29·1	26·6	25·5	32·7	81	..	5·9	..	3·6	0	0	22	0	2	2	1	0	10	3	3	9	1
Tista Catchment†																											
Gangtok	0830	1812	1445·4	814·9	..	19·1	18·3	17·9	20·5	93	..	7·3	..	0·8	0	0	7	3	4	0	0	0	0	0	0	24	0
	1130	,,	1439·8	814·7	..	21·4	19·8	19·1	22·2	87	..	7·0	..	0.6	0	0	5	1	3	0	0	0	1	0	0	26	0
	1730	,,	1419·9	812·7	..	20·2	19·0	18·4	21·2	89	..	7·8	..	0·5	0	0	4	0	1	1	1	1	0	0	0	27	0
Gezing	0830	..	..	..	..	20·9	20·1	19·7	23·0	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	20·2	19·4	22·6	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*[illegible]

†Observations for thirty days.

MONTHLY MEANS OF UPPER WINDS

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Sl. No.	Station	Lat. N	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23° 53′	91° 15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23° 04′	72° 38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25° 27′	81° 44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30° 23′	76° 46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14° 41′	77° 37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23° 41′	86° 59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19° 51′	75° 24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27° 34′	81° 36′	134	1st October, 1961	0530	1130	1730	
9	Bangalore	12° 58′	77° 35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28° 22′	79° 24′	181	12th January, 1943	0530		1730	
11	Begampet	17° 27′	78° 28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25° 14′	86° 57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23° 17′	77° 21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20° 15′	85° 50′	54	5th December, 1942	0530		1730	2330
15	Bhuj/Rudramata	23° 15′	69° 48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28° 00′	73° 18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19° 07′	72° 51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22° 39′	88° 27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09° 56′	76° 14′	13	16th March, 1942	0530		1730	2330
20	Dehra Dun	30° 19′	78° 03′	692	1st October, 1958	0530		1730	
21	Dibrugarh/Mohanbari	27° 29′	95° 01′	112	1st June, 1948	0530	1130	1730	2330
22	Gadag	15° 25′	75° 38′	650	3rd May, 1943	0530		1730	2330
23	Gangtok	27° 03′	88° 16′	2115	1st June, 1963	0830		1730	
24	Gauhati	26° 05′	91° 43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24° 45′	84° 57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19° 16′	84° 53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26° 45′	83° 22′	83	5th January, 1943	0530		1730	
28	Gwalior	26° 14′	78° 15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24° 46′	93° 54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23° 10′	79° 57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19° 05′	82° 02′	562	25th March, 1948	0530		1730	2330
32	Jaipur/Sanganer	26° 49′	75° 48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22° 49′	86° 11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21° 55′	84° 05′	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26° 18′	73° 01′	229	15th October, 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26° 45′	80° 53′	133	20th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13° 00′	80° 11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12° 55′	74° 53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08° 18′	73° 00′	15	14th April, 1941	0530	1130	1730*	2330
40	Nagpur/Sonegaon	21° 06′	79° 03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28° 35′	77° 12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18° 32′	73° 51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11° 40′	92° 43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21° 14′	81° 39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26° 59′	84° 51′	83	28th October, 1957	0530		1730	
46	Siliguri/Baghdogra	26° 38′	88° 19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34° 06′	74° 48′	1588	1st August, 1962	0530*		1730*	
48	Tiruchchirappalli	10° 46′	78° 43′	96	22nd June, 1936	0530		1730	2330
49	Trivandrum	08° 29′	76° 57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24° 35′	73° 42′	587	24th June, 1947	0530		1730	2330
51	Vengurla	15° 52′	73° 38′	8	22nd November, 1941	0530		1730	2330
52	Veraval	20° 54′	70° 22′	17	13th October, 1941	0530		1730	2330
53	Vijayawada/Gannavaram	16° 32′	80° 48′	32	8th April, 1942	0530		1730	2330
54	Vishakhapatnam	17° 43′	83° 14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·5	2·2	135	31	2·6	2·1	173	31	2·5	2·1	142	31	2·2	1·8	232	31	3·0	2·3	240	31	2·5	2·0	212
0·15 a.g.	27	5·9	5·0	148	30	5·1	3·9	173	31	6·5	6·2	162	31	6·1	5·2	237	29	4·6	3·4	232	31	4·6	3·8	225
0·3 a.m.s.l.	27	7·3	6·4	160	30	5·8	4·8	179	30	7·8	7·5	170	31	6·3	5·5	243	29	5·0	3·9	239	31	4·9	3·5	222
0·6 ,,	27	7·9	6·6	165	30	6·4	5·9	179	29	8·4	7·8	175	31	7·5	5·8	258	28	5·5	4·1	245	31	5·3	4·2	237
0·9 ,,	27	7·9	6·2	168	30	6·9	6·3	176	28	8·0	7·3	177	31	8·0	6·5	260	20	5·5	4·0	239	31	6·2	4·9	244
1·5 ,,	22	7·5	5·0	154	27	7·2	6·1	167	24	6·8	6·0	169	31	6·6	4·8	253	4	3·7	3·3	277	31	6·9	4·8	247
2·1 ,,	21	6·8	4·2	143	22	6·9	5·8	156	17	5·9	4·3	158	31	5·8	2·8	241					31	6·0	2·9	254
3·0 ,,	18	6·4	4·3	140	19	6·7	5·2	141	14	4·6	3·7	149	31	5·3	0·4	046					31	5·9	0·9	305
3·6 ,,	12	6·2	3·3	165	16	6·4	4·7	120	4	4·3	4·2	133	31	5·5	2·1	051					31	6·7	1·6	013
4·5 ,,	9	5·6	2·6	180	12	7·3	5·0	119					31	5·5	3·4	056					31	6·1	2·5	036
5·4 ,,	7	6·9	4·9	152	10	8·1	5·9	102					31	5·7	3·6	064					31	5·5	2·9	062
6·0 ,,	7	5·6	4·3	136	6	7·9	7·4	100					31	6·3	3·9	068					31	5·6	3·3	061
7·2 ,,	4	4·9	4·4	099	3	8·7	8·5	074					31	6·7	5·5	083					31	6·2	4·5	084
9·0 ,,	1	1·30	13·0	080									30	8·5	7·9	083					29	8·7	7·8	080

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·6	208	31	1·2	0·9	057	31	1·7	0·2	069	31	1·2	0·3	062	31	1·1	0·4	052	31	1·0	0·6	117
0·15 a.g.	29	6·9	6·2	217	31	5·9	0·4	260	30	4·3	1·2	083	31	4·8	1·1	040	29	6·0	2·5	107	30	5·3	3·3	123
0·3 a.m.s.l.	29	7·9	7·1	221	31	5·9	0·3	232	30	4·5	1·3	081	31	4·9	1·1	040	29	6·5	2·8	110	30	2·3	1·4	184
0·6 ,,	29	9·1	8·0	232	31	7·4	1·4	084	30	4·8	1·2	083	31	5·3	2·0	065	29	7·1	3·8	106	30	5·9	3·1	146
0·9 ,,	28	8·9	7·2	238	31	8·3	1·2	093	27	5·8	2·3	084	31	5·5	2·6	075	29	6·8	3·6	108	30	6·1	2·9	157
1·5 ,,	20	7·0	4·2	227	31	6·9	2·3	068	13	6·6	1·5	047	31	5·9	2·7	088	24	5·3	1·3	115	30	6·1	1·5	160
2·1 ,,	13	5·0	0·5	135	30	7·1	2·7	080	6	7·8	3·6	315	30	6·3	2·6	102	19	5·0	0·7	090	25	5·8	0·4	231
3·0 ,,	7	5·9	5·3	080	29	6·3	3·3	073	3	8·8	8·7	306	29	6·0	2·4	095	9	4·0	1·2	050	18	4·8	1·8	331
3·6 ,,	2	7·5	7·5	094	27	6·7	3·7	085	3	8·8	8·4	303	27	5·5	3·1	070	1	2·0	2·0	135	12	4·7	1·3	084
4·5 ,,					27	6·9	0·4	102					27	5·5	3·6	075	1	2·0	2·0	150	4	3·9	1·7	347
5·4 ,,					27	7·2	4·7	090					27	6·1	5·7	085					3	3·0	0·6	282
6·0 ,,					27	6·6	5·4	095					27	6·5	4·4	084					3	2·2	1·0	278
7·2 ,,					25	6·7	6·1	088					27	6·9	5·2	077					1	4·0	4·0	250
9·0 ,,					24	10·0	4·0	084					27	8·3	7·3	083								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·8	125	31	1·4	0·2	152	31	1·2	0·8	137	31	3·4	3·2	258	31	5·7	5·4	275	31	5·2	4·9	267
0·15 a.g.	29	4·1	2·1	126	30	4·1	0·7	108	30	4·7	2·8	136	30	8·9	8·7	257	28	11·0	10·5	271	28	9·9	9·6	264
0·3 a.m.s.l.	29	2·6	1·2	126	30	2·3	0·6	133	30	2·3	1·2	131												
0·6 ,,	29	4·8	2·6	131	30	4·5	0·8	127	30	4·7	2·5	139	30	10·3	10·2	259	28	10·8	10·5	269	28	10·7	10·5	263
0·9 ,,	28	5·5	2·6	140	30	4·3	0·5	141	30	4·7	1·7	138	30	14·1	13·9	267	28	10.4	10·2	270	28	13·4	13·2	267
1·5 ,,	24	6·4	1·6	147	29	5·1	0·3	275	29	5·5	0·6	206	28	15·5	15·2	275	24	13·5	13·3	273	28	13·7	13·4	272
2·1 ,,	15	7·0	1·3	328	25	5·9	1·6	333	25	5·0	0·8	199	22	11·8	11·6	279	13	11·7	11·4	274	22	9·7	9·3	281
3·0 ,,	10	7·1	1·0	004	22	5·9	1·5	345	17	4·6	2·1	151	17	8·4	8·2	280	4	10·3	10·0	284	13	7·2	6·6	282
3·6 ,,	6	8·2	1·2	029	17	4·9	0·2	120	2	3·5	3·5	314	13	8·3	7·8	280					5	3·9	2·9	303
4·5 ,,					6	4·3	0·7	265	1	1·5	1·5	140	6	8·7	8·0	256					2	4·7	4·7	270
5·4 ,,					3	6·8	5·3	256					3	6·0	4·2	291					2	3·5	3·1	295
6·0 ,,					3	6·5	5·5	261					3	7·0	4·5	270					1	2·0	2·0	300
7·2 ,,													3	6·8	3·2	060								
9·0 ,,													2	10·0	8·2	099								

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·9	104	31	1·7	0·9	115	31	1·7	0·9	113	31	2·6	2·5	267	31	5·4	4·9	266	31	3·9	3·4	268
0·15 a.g.	26	4·8	1·6	121	31	6·0	4·0	122	29	5·9	4·4	114	28	7·3	6·9	266	29	8·6	7·9	266	29	9·6	8·6	266
0·3 a.m.s.l.	26	5·2	1·6	129	31	5·8	3·9	123	29	6·2	4·2	122												
0·6 ,,	23	7·3	1·3	137	31	6·6	4·8	125	29	7·8	5·5	128												
0·9 ,,	21	7·1	1·0	180	30	6·7	4·7	128	26	7·5	5·0	136	28	9·6	9·2	267	29	9·6	8·9	267	29	11·2	10·5	268
1·5 ,,	18	6·1	1·4	131	23	6·3	3·7	125	21	9·3	3·7	118	18	12·8	12·2	273	22	10·2	9·6	266	22	14·0	13·5	266
2·1 ,,	16	6·0	1·9	103	16	5·5	2·1	112	17	6·1	3·1	103	7	11·9	11·6	278	9	6·7	5·3	253	11	12·2	10·7	261
3·0 ,,	11	5·6	·6	169	12	6·9	4·7	118	14	5·8	2·1	115	2	7·5	7·3	271	1	1·0	1·0	160	4	5·1	2·8	260
3·6 ,,	10	5·1	1·9	215	11	6·2	2·4	166	9	4·9	1·7	114												
4·5 ,,	8	4·6	1·7	210	8	5·7	3·2	108	3	4·0	1·5	115												
5·4 ,,	6	4·5	0·2	315	7	6·9	3·5	090	2	4·3	2·0	100												
6·0 ,,	5	4·3	1·3	017	5	8·5	6·2	065																
7·2 ,,	3	5·0	2·6	035	1	6·5	6·5	085																
9·0 ,,	1	10·5	10·5	075	1	7·5	7·5	070																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·5	090	31	2·2	2·1	090	31	1·6	1·5	094	31	3·4	3·1	259	31	4·7	4·4	262	31	3·8	3·5	270
0·15 a.g.	25	7·1	7·0	104	29	5·5	5·1	112	31	5·1	3·9	107	9	9·2	9·1	264	23	7·2	6·9	269	26	8·6	8·2	268
0·3 a.m.s.l.	25	7·5	7·4	108	29	5·5	5·1	111	31	5·3	4·1	108												
0·6 ,,	25	9·0	8·6	111	29	6·8	5·8	109	31	6·5	4·7	111												
0·9 ,,	25	9.2	8·1	114	27	8·5	6·7	112	31	6·9	4·6	112												
1·5 ,,	23	9·1	7·9	106	14	10·8	4·9	106	26	8·4	5·8	107	9	11·9	11·6	268	23	9·3	8·9	272	25	10·6	10·2	268
2·1 ,,	19	9·1	7·7	107	6	8·2	6·0	124	22	9·7	7·5	106	8	11·4	11·0	278	9	9·7	8·7	278	25	11·3	10·9	272
3·0 ,,	17	8·3	6·3	104	1	4·5	4·5	300	20	8·6	5·8	107	8	9·6	8·7	273	1	5·5	5·5	310	20	11·6	11·1	277
3·6 ,,	11	7·4	6·1	110	1	2·5	2·5	315	18	8·3	4·8	107	7	7·4	7·0	286					17	9·8	9·1	273
4·5 ,,	7	7·6	6·9	110					11	5·9	5·1	108	7	6·7	5·1	272					13	7·2	5·7	278
5·4 ,,	4	5·7	5·4	100					9	4·4	3·2	102	5	6·4	5·6	246					11	6·2	4·3	274
6·0 ,,	2	5·5	5·4	133					6	3·1	2·8	107	5	5·7	3·6	236					8	6·1	1·9	240
7·2 ,,	1	9·0	9·0	120					4	3·4	3·0	090	3	4·5	1·7	237					4	6·0	3·2	038
9·0 ,,									3	5·7	5·6	104	2	8·7	7·8	115					2	7·0	4·6	072

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·7	3·5	263	31	1·1	0·9	085	31	1·1	0·7	095	31	5·2	5·1	268	31	5·3	5·1	269	31	4·3	4·1	265
0·15 a.g.	18	7·5	7·3	262	29	5·5	3·9	097	29	3·8	1·8	100	24	10·0	9·5	265	30	9·7	9·1	267	28	9·3	8·8	261
0·3 a.m.s.l.					29	5·0	3·9	095	29	3·6	1·7	097												
0·6 ,,					29	8·1	4·9	118	29	4·7	2·5	108	24	7·6	7·5	265	30	8·0	7·5	267	28	6·3	5·9	259
0·9 ,,					29	8·7	4·7	116	29	5·2	2·5	111	24	13·6	13·1	276	30	10·8	10·3	268	28	12·0	11·7	269
1·5 ,,	18	10·2	9·8	271	27	8·5	4·5	114	28	6·6	2·3	125	22	14·6	14·3	286	30	12·1	11·7	276	26	13·9	13·6	277
2·1 ,,	16	8·6	8·1	275	24	7·6	3·7	112	26	7·6	2·5	132	19	14·2	13·8	289	28	14·2	13·8	279	20	12·6	12·3	282
3·0 ,,	14	6·6	6·1	285	19	5·7	2·8	127	22	7·6	2·6	131	13	11·9	11·4	290	15	13·9	13·5	286	11	8·0	7·2	283
3·6 ,,	8	7·8	6·7	284	18	4·5	2·4	106	17	7·7	2·5	116	4	6·5	4·3	302	9	11·4	10.7	258	3	4·7	2·2	262
4·5 ,,	7	6·1	4·9	300	15	4·1	1·7	127	11	5·5	1·5	098	3	4·8	3·1	325	4	7·5	7·4	281	1	3·0	3·0	265
5·4 ,,	1	3·5	3·5	060	12	3·9	2·1	077	8	4·5	2·1	068	2	6·7	6·1	338	2	8·0	7·9	289				
6·0 ,,	1	6 5	6·5	060	9	4·0	2·1	069	7	4·9	2·7	090	2	5·5	4·1	007	1	4·0	4·0	060				
7·2 ,,	1	10·0	10·0	070	7	3·7	2·0	109	3	2·8	2·4	058	1	8·0	8·0	075	1	4·0	4·0	060				
9·0 ,,					5	4·1	1·8	101					1	12·5	12·5	100	1	10·0	10·0	090				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·6	101	31	2·4	2·0	099	31	4·4	3·7	265	31	4·3	2·9	263	31	3·6	2·8	243	31	2·8	1·8	256
0·15 a.g.	29	5·8	4·2	108	31	6·0	4·7	097	22	8·1	7·1	266	26	7·2	5·7	261	24	8·9	7·7	244	24	7·0	3·5	264
0·3 a. m.s.l.	29	6·6	4·3	107	31	6·5	5·2	099													24	7·8	3·8	266
0·6 ,,	28	7·4	4·3	123	31	7·1	5·4	106	22	6·7	5·9	257	26	6·0	4·5	256	24	7·4	6·4	240	24	9·5	4·4	268
0·9 ,,	25	6·9	3·7	120	31	9·2	5·0	120	20	9·4	7·9	277	25	7·9	6·2	270	23	10·6	9·3	256	23	9·0	4·9	281
1·5 ,,	23	7·1	3·7	104	27	7·3	4·6	131	7	6·6	5·0	269	23	8·3	6·2	284	20	9·5	7·2	271	20	8·4	5·1	281
2·1 ,,	21	7·1	3·0	115	24	7·2	3·8	124	7	4·8	1·8	270	19	8·4	4·7	288	18	6·7	4·0	282	16	7·9	4·1	281
3·0 ,,	16	6·4	3·0	105	20	7·5	3·5	128	7	4·1	0·8	248	12	5·2	3·1	326	13	4·2	1·7	340	10	4·9	1·8	245
3·6 ,,	12	5·7	1·3	126	17	6·6	5·0	114	3	4·7	2·0	103	5	3·5	2·5	333	7	4·7	3·6	040	8	5·7	2·0	163
4·5 ,,	9	4·9	2·1	113	11	4·6	2·8	108	1	2·5	2·5	185	3	3·2	2·4	335	1	7·0	7·0	320	6	5·7	5·1	094
5·4 ,,	6	4·2	2·1	115	8	6·6	3·7	090	1	2·5	2·5	235	1	4·0	4·0	355					5	8·3	8·3	090
6·0 ,,	5	5·0	2·3	080	8	6·5	3·5	096					1	6·0	6·0	030					5	9·7	9·4	080
7·2 ,,	4	6·5	6·0	090	5	8·1	5·9	084													4	10·7	10·4	094
9·0 ,,	1	16·5	16·5	070	3	9·0	9·0	090													3	15·2	14·7	103

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·0	1·8	224	31	3·2	2·4	227	31	3·1	2·8	250	31	6·0	5·2	235	31	4·4	4·2	240	31	1·1	0·9	219
0·15 a.g.	29	7·1	3·3	222	24	6·5	4·6	220	30	7·5	7·1	250	30	10·1	8·9	236	28	7·8	7·2	240	28	7·0	4·6	232
0·3 a. m.s.l.	29	7·3	2·4	229	24	7·1	5·2	232	30	7·9	7·4	255	30	9·9	8·9	238	28	8·3	7·8	239	28	5·4	3·2	230
0·6 ,,	28	8·2	1·8	255	24	8·4	5·5	240	30	8·8	8·3	256	30	9·5	8·4	240	28	9·1	8·1	244	28	8·1	6·7	252
0·9 ,,	27	8·3	2·5	286	23	9·1	5·2	248	27	8·0	7·1	253	30	8·5	7·0	243	27	8·0	6·4	237	28	8·6	4·4	253
1·5 ,,	23	8·9	3·5	299	17	8·1	3·1	285	22	6·2	2·7	211	24	6·6	3·2	239	25	6·8	2·7	207	26	5·7	1·5	287
2·1 ,,	14	6·4	1·0	303	14	7·0	1·5	302	15	5·8	3·2	096	15	5·9	1·3	106	18	5·5	3·0	090	21	5·0	2·5	040
3·0 ,,	9	7·0	1·5	237	5	4·5	1·4	053	12	7·7	5·9	069	10	7·5	2·4	100	17	7·5	5·8	060	15	4·3	2·2	027
3·6 ,,	6	6·5	2·8	201					3	7·0	5·9	084	8	8·5	3·7	085	8	6·1	4·3	068	15	5·1	3·5	025
4·5 ,,	4	5·6	1·7	120					1	5·0	5·0	090	3	3·5	1·6	130	4	4·5	2·4	090	12	7·6	6·8	014
5·4 ,,	1	3·5	3·5	225									3	3·0	1·0	104	1	3·0	3·0	245	11	5·9	3·9	028
6·0 ,,	1	2·5	2·5	160									3	5·2	2·7	081	1	5·0	5·0	235	10	5·7	3·6	040
7·2 ,,																					6	7·1	5·7	069
9·0 ,,																					2	7·2	6·0	275

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·8	220	31	1·2	1·2	212	31	5·2	4·3	244	31	5·4	4·7	233	31	5·4	5·0	260	31	4·5	3·8	244
0·15 a.g.	27	5·3	3·0	221	30	7·5	4·6	187	31	8·4	7·3	233	28	9·3	8·6	233	31	8·3	7·8	237	31	8·9	8·1	234
0·3 a.m.s.l.	27	4·8	2·4	210	30	5·4	3·5	195	31	8·8	8·4	233	28	10·1	9·6	234	31	9·0	8·5	238	31	10·0	9·2	240
0·6 ,,	27	5·6	2·8	222	30	8·3	5·6	216	31	10·3	9·5	235	27	10·5	9·9	237	31	10·3	9·9	240	31	11·0	10·3	244
0·9 ,,	26	5·6	2·2	233	30	7.1	4·1	210	31	10·9	10·5	238	21	10·6	10·0	241	31	11·1	10·8	243	22	10·8	9·9	248
1·5 ,,	25	5·7	1·5	263	30	5·6	1·1	238	31	10·4	9·5	238	5	9·1	8·6	243	31	10·3	9·9	239	11	10·8	10·4	248
2·1 ,,	22	5·0	2·1	349	26	4·3	1·3	022	31	9·9	8·6	240	2	10·3	8·9	230	31	9·9	9·2	235	5	4·1	3·4	239
3·0 ,,	19	5·7	3·8	022	20	4·9	3·0	016	31	9·2	6·7	245	1	4·5	4·5	160	31	9·1	8·1	242	4	3·0	2·1	057
3·6 ,,	14	7·3	6·0	017	13	1·7	1·5	024	31	7·9	4·8	246	1	5·0	5·0	155	31	8·0	5·9	250	1	2·0	2·0	010
4·5 ,,	9	9·7	8·7	021	2	7·3	6·9	018	31	7·0	3·4	262					31	6·7	3·0	256	1	6·0	6·0	075
5·4 ,,	7	7·4	5·7	005					31	6·4	1·2	298					31	6·6	1.4	254	1	6·5	6·5	080
6·0 ,,	4	7·0	6·8	360					31	5·8	0·9	052					31	5·6	0·8	338	1	8·0	8·0	075
7·2 ,,	1	5·0	5·0	035					31	5·0	3·3	066					31	6·4	4·7	066				
9·0 ,,									27	8·2	8·0	077					31	8·3	7·5	074				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·1	137	31	2·9	1·7	142	31	2·5	1·9	151	31	2·0	1·2	147	31	1·5	0·9	268	31	3·5	2·8	277
0·15 a.g.	31	5·8	3·1	160	30	5·3	3·3	152	31	6·0	4·5	159	31	6·2	4·5	163	29	5·0	3·0	298	29	6·1	5·3	281
0·3 a.m.s.l.	31	6·6	3·4	161	30	6·5	3·7	169	31	6·2	4·5	161	31	7·6	5·5	170	29	7·1	5·6	290	29	8·5	7·5	282
0·6 ,,	31	7·9	3·5	169	29	7·5	4·4	155	31	6·6	4·7	159	31	8·3	5·9	173	28	11·3	10·1	290	29	12·7	11.5	287
0·9 ,,	31	7·5	3·5	164	25	8·5	4·9	155	30	6·6	4·7	155	30	7·5	5·4	168	27	13·4	12·2	290	27	13·3	12·3	294
1·5 ,,	31	7·1	3·5	153	10	7·0	3·5	766	30	6·7	4·3	152	23	6·0	3·3	165	24	12·4	11·7	293	23	13·0	12·3	301
2·1 ,,	31	7·3	3·5	141	4	9·6	7·1	153	30	6·5	3·9	146	18	5·5	2·9	156	22	10·9	10·5	291	18	9·5	8·9	295
3·0 ,,	31	7·0	3·2	133					30	6·7	4·2	135	12	6·3	3·5	127	15	7·9	7·3	284	11	5·8	4·8	278
3·6 ,,	31	6·8	4·0	132					29	6·9	4·1	131	6	5·7	2·1	105	9	6·8	5·2	274	4	2·5	0·3	320
4·5 ,,	30	7·0	4·7	129					29	7·2	3·7	133	1	5·0	5·0	240	5	4·5	2·7	290	2	2·7	1·9	151
5·4 ,,	30	7·1	5·3	128					29	6·6	4·9	118					1	4·5	4·5	320	1	6·0	6·0	350
6·0 ,,	30	7·3	5·4	125					28	7·3	5·7	111									1	4·5	4·5	315
7·2 ,,	29	7·1	5·8	120					27	7·4	6·1	090												
9·0 ,,	29	8·6	7·8	101					27	8·3	7·7	086												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRA DUN								DIBRUGARH/MOHANBARI											
Time in I.S.T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·3	0·9	265	31	0·4	0·3	017	31	0·6	0·2	260	31	0·6	0·5	073	31	0·8	0·2	006	31	1·0	0·6	029
0·15 a.g. . .	25	5·3	3·9	286	19	1·6	0·5	113	22	1·8	0·7	262	23	3·2	1·6	075	25	1·9	0·8	054	30	3·3	1·8	050
0·3 a. m.s.l. .	25	7·2	6·0	287									23	3·4	2·0	068	25	1·7	0·8	055	30	3·5	1·9	052
0·6 ,, .	25	11·8	10·4	290									23	4·0	2·0	072	25	2·4	0·4	106	30	3·3	2·0	077
0·9 ,, .	25	14·1	12·6	290	19	1·5	0·7	127	22	1·9	0·7	253	22	3·9	1·3	070	23	3·0	0·9	209	30	3·2	1·3	109
1·5 ,, .	22	13·7	12·8	295	19	3·1	1·1	168	21	2·9	1·2	225	20	3·3	0·9	159	19	3·6	1·9	210	29	3·0	1·9	194
2·1 ,, .	17	10·3	9·6	295	13	4·8	0·7	238	16	3·7	1·6	257	19	3·3	1·0	180	16	4·2	2·3	185	28	3·8	2·4	210
3·0 ,, .	11	6·1	5·4	297	4	4·3	0·8	249	7	3·8	1·3	107	16	3·4	1·7	151	14	6·1	4·1	157	25	4·3	2·9	210
3·6 ,, .	6	5·6	4.4	285	1	1·5	1·5	020	6	4·7	1·7	108	12	4·0	1·9	134	6	6·8	5·0	130	21	3·8	2·3	188
4·5 ,, .	1	5·5	5·5	175					5	5·7	1.0	164	8	3·4	2·6	121	2	4·3	4·1	058	14	3·8	1·0	190
5·4 ,, .									4	8·3	1·0	180	6	5·7	4·4	127	1	3·0	3·0	095	11	4·7	1·4	153
6·0 ,, .									3	8·3	4·4	172	5	4·0	3·0	100	1	8·0	8·0	105	7	5·0	2·6	082
7·2 ,, .									1	7·0	7·0	145	3	6·3	4·7	064	1	12·0	12·0	170	4	4·4	2·4	050
9·0 ,, .																	1	14·0	14·0	215	1	7·0	7·0	090

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I.S.T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·8	045	31	5·4	5·0	244	31	6·3	6·0	259	31	5·6	5·2	253	31	0·2	0·1	075	31	0·1	0·1	121
0·15 a.g. . .	27	4·0	2·7	051	31	9·9	9·8	250	30	10·6	10·4	259	29	9·9	9·8	254	8	1·5	0·2	331	6	2·0	2·0	163
0·3 a. m.s.l. .	27	3·8	2·4	056																				
0·6 ,, .	27	3·6	2·1	073																				
0·9 ,, .	26	3·0	1·4	095	31	11·7	11·5	259	30	12·0	11·8	261	29	11·4	11·2	262								
1·5 ,, .	25	3·7	1·6	200	23	14·9	14·6	267	25	13·1	12·9	268	26	13·6	13·3	271								
2·1 ,, .	22	3·5	2·1	208	15	13·7	13·4	271	15	10·1	9·7	281	16	12·5	10·9	276	8	1·1	0·3	226	6	2·1	1·9	168
3·0 ,, .	17	4·9	2·4	193	9	7·2	6·3	270	4	5·5	5·1	290	10	8·6	7·5	280	8	1·2	0·2	180	5	1·8	1·5	167
3·6 .	10	5·5	0·6	102	6	5·3	3·3	230	3	4·7	4·2	291	7	7·4	5·5	270	7	1·3	0·5	028	1	4·0	4·0	177
4·5 ,, .					3	4·3	2·4	304	2	3.5	2·5	041	2	10·0	9·7	279	6	3·3	2·8	060	1	5·0	5·0	145
5·4 ,, .					2	4·0	3·9	090	1	6·0	6·0	020					4	4·5	3·8	039				
6·0 ,, .					2	5·3	5·3	090	1	11·0	11·0	305					4	5·7	3·7	044				
7·2 ,, .					1	10·0	10·0	075									3	4·2	4·0	067				
9·0 ,, .					1	13·0	13·0	085									3	9·2	8·3	062				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·4	049	31	2·2	1·7	029	31	0·8	0·1	083	31	0·8	0·2	211	31	1·7	1·1	088	31	2·1	1·3	082
0·15 a.g.	31	2·4	1·1	069	31	3·6	2·7	031	31	2·8	0·2	220	31	2·5	0·5	192	29	5·8	2.7	105	31	5·3	3·6	085
0·3 a. m.s.l.	31	2·5	1·0	075	31	3·5	2·1	054	31	2·9	0·3	226	31	2·8	0·5	305	29	6·1	2·7	109	31	5·5	3·7	085
0·6 ,,	31	3·1	0·4	098	31	4·1	2·0	071	31	3·5	0·7	279	30	2·9	0·9	313	29	7·6	3·0	109	31	5·9	4·2	092
0·9 ,,	31	3·7	0·9	136	31	4·9	1·7	102	31	3·7	1·1	263	30	3·6	0·7	295	28	7·3	3·0	114	31	6·1	3·8	103
1·5 ,,	31	4·6	1·3	188	24	6·0	2·3	125	31	4·0	1·5	207	27	4·0	1·3	206	21	7·7	2·9	097	29	6·8	3·6	116
2·1 ,,	30	5·5	1·7	177	23	7·4	3·3	123	31	5·4	2·1	189	23	5·3	2·4	192	14	7·4	2·1	090	23	6·4	2·5	137
3·0 ,,	30	5·9	1·9	176	15	6·6	3·4	119	31	6·0	2·2	164	19	5·7	1·9	159	10	7·3	0·7	100	17	7·1	2·6	125
3·6 ,,	30	6·2	2·0	176	12	5·7	3·4	130	30	6·1	1·6	148	9	7·4	3·5	122	8	7·1	2·2	110	15	7·0	3·5	117
4·5 ,,	30	5·7	2·1	160	10	6·3	1·3	143	30	6·0	2·0	142	5	7·3	2·2	205	7	5·5	1·6	100	11	6·4	2·4	154
5·4 ,,	30	5·5	1·9	140	7	5·4	3·9	113	31	6·0	1·1	107	2	3·5	3·1	242	6	6·2	4·4	090	7	5·8	2·6	081
6·0 ,,	30	5·5	1·9	142	6	6·0	4·8	094	31	5·8	2·0	112	2	3·0	2.0	232	6	6.2	4.6	075	6	6·2	3·7	090
7·2 ,,	30	6·0	2·1	098	4	6·5	6·1	094	31	5·9	2·4	093					2	7·3	7·3	085	2	5·5	5·5	115
9·0 ,,	25	5·1	3·5	082	3	8·0	8·0	070	29	6·9	4·1	063					1	4.0	4.0	080	1	5·5	5.5	090

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·0	114	31	2·2	1·5	235	31	3·8	3·0	230	31	2·7	2·1	228	31	1·1	0·9	064	31	1·1	0·8	095
0·15 a.g.	31	6·0	3·5	120	28	6·7	4·3	234	20	8·4	7·4	246	25	6·7	5·8	226	29	5·7	3·9	071	28	4·6	3·6	090
0·3 a. m.s.l.	31	6·3	3·7	121	28	6·4	3·9	270	20	7·6	5·8	247	25	0·7	6·1	232	29	6·7	4·8	092	28	5·2	4·1	094
0·6 ,,	31	7·1	4·2	126	27	7·4	4·5	280	20	5·7	3·9	235	25	6·7	6·1	241	27	8·9	6·1	105	28	6·7	5·4	099
0·9 ,,	29	7·3	4·3	129	26	8·1	5·8	281	20	6·5	4·2	266	25	7·5	6·0	256	24	10·0	7·0	107	28	7·4	5·7	103
1·5 ,,	26	6·8	3·4	121	25	10·2	7·2	294	19	8·5	7·5	298	25	8·9	7·1	275	21	9·7	9·0	101	25	8·9	3·3	127
2·1 ,,	18	5·7	2·5	133	23	9·5	6·4	299	19	9·0	7·6	295	15	7·5	5·1	288	16	8·	8·8	097	21	9·0	4·9	113
3·0 ,,	13	5·6	1·3	140	14	9·1	5·7	295	16	7·5	5·7	274	9	6·1	3·7	301	10	7·6	7·4	095	13	7·0	2·1	100
3·6 ,,	7	3·9	2·2	125	8	6·6	3·7	298	13	8·5	6·6	264	1	9·5	9·5	280	8	6·2	5·2	090	10	6·6	3·9	100
4·5 ,,	1	7·5	7.5	110	7	5·4	2·6	051	12	7·3	4·6	265					6	3·7	3·6	090	5	5·1	4·8	103
5·4 ,,					7	5·4	3·1	059	10	7·1	3·5	274					6	5.0	4·5	104				
6·0 ,,					4	3·9	2·4	115	9	6·9	2·4	352					5	5·4	4·9	105	4	3·0	2·8	085
7·2 ,,					2	6·3	6·3	120	7	8·6	3·0	005					4	6.6	6·2	090	3	3·3	3·3	080
9·0 ,,					1	12.5	12.5	080	6	8·3	6·8	088									1	4·5	4.5	155

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·5	0·6	287	31	2·1	0·6	308	31	2·3	0·4	261	31	1·5	0·7	261	31	0·5	0·3	038	31	1·1	0·4	103
0·15 a.g. .	25	4·9	2·0	300	30	3·8	1·3	338	29	4·7	1·1	253	30	5·3	1·9	260	30	2·0	0·8	041	30	1·8	0·7	149
0·3 a.m.s.l. .	25	3·9	1·6	298	30	3·7	1·4	330	29	4·3	1·0	245	30	4·4	1·8	253								
0·6 ,, .	24	7·0	2·3	315	29	3·8	1·3	345	29	5·7	0·6	248	30	6·7	1·4	287								
0·9 ,, .	21	6·1	2·5	312	26	3·9	1·1	007	27	5·6	0·2	228	28	6·1	0·8	302	30	2·1	0·9	040	30	1·8	0·6	141
1·5 ,, .	18	4·7	0·8	351	17	3·8	0·2	052	23	5·2	1·0	068	23	5·1	1·0	050	30	3·5	0·4	248	30	3·3	1·7	216
2·1 ,, .	17	4·2	2·0	032	13	2·8	1·2	082	22	5·0	1·7	073	21	4·1	1·0	024	25	6·2	2·6	223	25	5·5	1·8	174
3·0 ,, .	15	4·2	2·5	054	6	2·2	1·3	304	16	5·1	1·7	036	18	4·7	2·3	056	7	5·5	2·2	220	12	6·4	2·3	225
3·6 ,, .	12	4·1	2·2	036	5	3·2	2·7	327	13	5·4	1·8	040	9	5.6	4.1	045	4	5.5	3.9	157	5	5·3	4·1	223
4·5 ,, .	9	4·2	1·7	041	5	3·3	2·7	325	9	5·5	1·5	030	2	6.0	5.1	302	2	5.5	5.1	123				
5·4 ,, .	8	4·7	2·5	065	5	4·9	2·4	347	8	4·4	1·5	064					1	3.5	3.5	105				
6·0 ,, .	8	6·1	3·4	093	5	4·9	1·3	360	6	4·0	0·9	337												
7·2 ,, .	7	5·9	5·3	092	4	3·1	2·1	173	4	4·6	1·0	090												
9·0 ,, .	6	9·7	9·5	088	2	2·7	2·4	032	2	7·7	7·7	072												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·4	1·3	187	31	0·6	0·3	132	31	1·4	1·2	247	31	1·7	1·2	253	31	1·1	0·9	249	31	1·2	1·1	227
0·15 a.g. .	30	3·7	1·5	180	23	1·6	0·4	106	20	5·8	4·6	257	28	6·2	4·3	263	24	6·1	4·5	244	21	5·8	5·1	239
0·3 a.m.s.l. .																								
0·6 ,, .									20	6·4	5·3	272	28	6·5	4·7	263	24	6·5	4·7	248	21	3·1	2·8	238
0·9 ,, .	30	3·5	1·7	180	23	1·7	0·6	090	18	8·7	7·0	288	24	6·2	4·2	277	23	7·9	5·5	269	21	8.3	7·6	260
1·5 ,, .	30	4·1	2·2	156	22	3·4	1·8	153	12	7·5	6·7	300	20	6·2	4·1	301	18	6·7	3·4	292	13	12·8	11·5	282
2·1 ,, .	29	5·4	2·1	162	20	5·5	3·4	165	10	4·9	2·9	288	17	5·4	2·7	345	17	4·9	1·6	310	5	10·8	9·4	284
3·0 ,, .	17	5·6	2·0	170	9	5·8	3·9	175	7	3·4	0·8	009	11	4·1	1·9	357	9	4·6	2·2	042	3	9·2	8·7	301
3·6 ,, .	12	4·4	1·5	168	6	7·1	3·6	180	6	3·8	1·1	052	8	5·7	2·1	343	4	4·3	1·7	039	1	1·5	1·5	215
4·5 ,, .	5	3·8	2·2	090					4	4·0	2·6	128	4	4·9	1·6	322	2	3·0	1.4	053	1	4·5	4·5	120
5·4 ,, .	3	5.7	2.3	059					8	4.1	1.1	065	2	5·3	2·3	356								
6·0 ,, .									4	5.0	2.3	100	2	5·0	1·1	062								
7·2 ,, .									3	3.7	3.6	104												
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·3	246	31	1·0	1·0	225	31	0·9	0·5	305	31	1·5	0·7	287	31	0·6	0·2	313	31	1·6	0·1	044
0·15 a.g.	23	6·6	5·7	257	21	6·5	6·1	237	23	5·5	2·5	302	28	4·9	1·7	274	28	5·9	2·0	265	26	4·7	1·3	139
0·3 a.m.s.l.																					26	4·8	1·2	156
0·6 ,,	23	4·1	3·6	256	21	4·4	4·1	226	23	6·0	2·6	292	28	5·0	1·8	279	28	6·5	2·1	264	26	7·3	1·2	195
0·9 ,,	23	7·4	6·6	264	21	8·5	7·8	253	23	6·7	3·1	301	28	5·5	1·6	290	28	7·3	2·3	277	22	7·9	1·3	224
1·5 ,,	16	9·2	8·4	285	18	10·5	9·9	270	22	4·7	1·2	335	24	5·5	1·6	285	26	5·9	1·1	285	13	6·6	1·6	309
2·1 ,,	9	8·6	8·4	280	15	8·9	7·9	283	19	3·9	1·5	353	20	4·3	1·2	341	24	4·2	0·7	040	9	5·1	2·0	303
3·0 ,,	4	5·9	5·5	276	5	5·4	4·0	295	14	4·4	3·4	052	16	5·1	2·3	018	19	4·3	2·2	038	9	4·5	1·8	039
3·6 ,,	2	2·3	0·6	251	2	6·3	5·5	265	13	4·9	3·9	035	15	5·6	3·7	022	13	5.8	3·4	042	5	4·4	1·6	297
4·5 ,,	2	1·0	0·9	298	2	3·3	1·3	234	12	6·3	4·0	040	9	8·0	6·2	018	2	13·5	10·0	354	4	3·0	0·9	230
5·4 ,,	2	2·3	0·9	122	2	3·0	1·5	234	11	6·3	3·7	055	9	6·7	4·7	033					2	3·7	2·3	129
									9	5·7	4·6	047	4	7·3	6·0	009					2	3.0	2.3	135
6·0 ,,	2	2·7	1·9	111					7	5·9	5·1	072	1	6·0	6·0	040					1	8.5	8.5	110
7·2 ,,									4	5.0	4.3	090	1	4·5	4·5	040								
9·0 ,,																								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·6	080	31	2·4	1·4	233	31	2·9	1·6	249	31	2·9	1·3	225	29	2·2	1·9	245	31	2·5	1·9	234
0·15 a.g.	30	4·8	1·5	129	23	5·4	2·3	241	22	4·5	1·5	270	25	6·0	2·4	242	29	5·6	5·0	240	29	4·5	3·4	233
0·3 a.m.s.l.	30	4·9	1·6	132	23	4·3	2·1	232	22	4·0	1·5	267	25	5·0	1·8	214	29	5·4	4·8	240	29	4·0	3·0	234
0·6 ,,	30	5·7	2·2	139	23	7·5	2·7	283	22	6·2	2·4	275	25	7·1	3·1	258	29	7·3	6·4	240	29	5·1	3·9	233
0·9 ,,	28	6·3	3·0	137	19	7·8	2·8	332	22	6·9	2·5	280	23	7·5	2·5	263	29	7·4	5·9	240	26	5·7	3·9	234
1·5 ,,	25	6·6	3·6	124	12	7·8	1·7	030	22	7·2	1·2	311	20	6·4	0·6	332	26	5·2	1·9	220	18	5·1	1·3	227
2·1 ,,	13	5·7	1·6	122	9	7·7	4·0	050	18	6·8	1·3	036	17	6·0	1·2	017	24	5·1	1·7	297	14	4·4	2·7	057
3·0 ,,	9	5·1	1·1	101	4	8·5	7·1	038	15	6·1	3·5	110	10	4·2	2·6	073	23	5·2	3·7	035	13	5·0	4·4	062
3·6 ,,	5	4·5	0·6	300	4	7·7	6·6	047	12	5·6	3·4	090	2	3·0	1·3	094	19	6·1	5·0	040	12	5·1	4·5	050
4·5 ,,	2	3·3	1·4	100	4	8·5	7·2	058	7	7·6	5·7	097					17	7·0	5·5	035	10	6·5	5·8	052
5·4 ,,					1	7·5	7·5	075	5	7·1	6·3	074					16	6·6	5·8	050	8	8·1	6·9	061
6·0 ,,									2	5·0	4·3	102					15	6·8	6·0	063	8	6·9	5·9	088
7·2 ,,									2	5·0	2·9	045					15	7·3	6·0	075	8	6·8	5·9	099
9·0 ,,									1	12·0	12·0	060					9	7·9	7·1	085	4	7·7	7·2	100

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·1	2.0	213	31	2·4	2·0	220	31	2·2	1·4	088	31	3·2	1·6	098	31	1·5	1·1	075	31	5·3	4·6	256
0.15 a. g. .	31	5·1	3·0	236	31	8·2	7·1	226	28	6·7	3·7	096	30	5·0	3·1	086	31	6·8	4·5	101	31	7·4	7·0	257
0.3 a. m. s. l. .	31	5·1	2·9	236	31	7·1	6·0	224	28	6·6	3·7	105	30	4·9	3·1	089	31	7·0	4·8	100	31	8·6	8·1	260
0.6 ,, .	31	6·0	3·9	228	31	8·2	6·9	232	28	8·4	4·4	113	30	5·3	3·2	097	31	8·0	5·9	109	31	10·6	10·3	268
0.9 ,, .	31	6·1	3·7	228	27	8·3	6·9	237	27	8·3	4·8	108	30	6·1	3·7	100	30	7·8	4·7	115	31	11·5	11·2	277
1.5 ,, .	30	5·3	1·8	247	27	6·3	3·7	238	24	7·5	4·2	097	24	6·3	2·4	110	26	6·1	3·0	119	31	11·7	11·4	284
2.1 ,, .	28	4·3	1·3	039	24	3·8	0·2	344	19	6·1	1·3	097	23	6·1	1·7	106	23	6·3	3·2	110	31	11·4	10.9	285
3.0 ,, .	27	5·8	3·9	030	18	6·4	4·8	040	13	7·7	6·3	088	15	6·4	1·6	279	15	4·8	3·0	102	31	10·4	9·9	283
3.6 ,, .	27	6·6	5·2	025	6	7·1	6·6	058	7	6.9	6·8	081	13	4·9	2·4	093	5	2·7	2·5	097	31	10·4	9·8	283
4.5 ,, .	25	6·9	4·6	036	2	9·3	8·5	056	5	6·6	6·5	093	8	4·3	2·5	081	1	3.5	3.5	090	31	9·7	8·4	279
5.4 ,, .	24	7·1	4·3	033	1	3·5	3·5	185	4	9·7	8·7	083	6	3·8	3·3	097					31	8·4	6·8	269
6.0 ,, .	24	6·3	3·5	051					1	7·0	7·0	095	5	1·7	0·5	309					31	7·6	5·3	260
7·2 ,, .	24	5·8	2·6	077					1	6·0	6·0	115	2	2.3	1.7	225					31	6·5	1·8	290
9.0 ,, .	21	6·8	5·8	087					1	7·0	7·0	110	1	5.0	5.0	110					31	9·7	7·8	093

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·4	4·1	264	31	4·5	2·5	216	31	4·3	3·2	220	31	1.9	1.1	263	31	3.7	3.4	275	31	2.1	1.4	267
0.15 a. g. .	30	6·5	6·1	264	31	6·0	3·4	214	29	8.6	7.1	224	25	6.9	5.4	265	30	7.7	7.2	268	29	7.3	6·1	273
0.3 a.m. s. l. .	30	7·1	6·7	266	31	6·2	4·0	228	29	10.1	8.7	232	25	7.9	6.6	264	30	8.2	7.8	267	29	8.0	6.9	273
0.6 ,, .	30	8·4	7·9	268	31	6·6	2·9	232	28	11.1	10.0	243	25	11.0	10.3	267	30	10.3	9.7	275	29	10.5	9.4	275
0.9 ,, .	30	10·0	9·4	273	31	7·6	7·4	265	28	10.6	10.1	253	23	12.5	12.0	273	25	11.8	11.2	277	27	11.3	10.3	280
1.5 ,, .	29	11·3	10·9	278	31	10·3	10·0	280	28	10.9	10.6	273	18	11.6	11·3	280	15	12.5	12.0	284	20	11.5	11.0	287
2.1 ,, .	28	11·1	10·7	278	31	11·8	11·5	283	23	10.1	9.7	281	12	9.2	8.8	282	9	10.6	10.1	289	14	8.8	8.5	287
3.0 ,, .	22	8·6	8·1	271	31	11·9	11.5	284	19	8.7	8.3	278	6	6.3	5.9	280	4	5.5	5.4	292	11	8.1	7.8	278
3.6 ,, .	19	8·3	7·6	269	31	11·3	10·6	280	12	5.4	4.8	285	4	5.5	5·0	281	3	6.5	5.4	288	8	7.5	6.8	280
4.5 ,, .	17	7·4	5·7	5264	31	10·5	9·5	273	8	5.3	3.7	301	3	5.5	4.5	243	2	7.5	6.7	249	6	7.0	5.9	263
5.4 ,, .	16	6·4	4·7	253	31	9·9	8·7	275	4	3.1	0.7	031	1	3.5	3.5	330	2	3.7	2.7	270	3	5.7	5.5	281
6.0 ,, .	12	5·9	2·2	229	31	8·7	7·3	280	3	4.5	1.8	081					2	5.3	3.9	322	3	5.5	5.1	285
7.2 ,, .	10	7·3	0·9	158	31	6·8	1·3	274	1	7.0	7.0	045					1	5.5	5.5	210				
9.0 ,, .	4	10·5	10·2	089	31	8·4	6·1	094																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·5	3·1	267	31	3·8	3·3	272	31	5·5	4·8	270	31	3·6	3·3	271	31	2·1	2·0	274	31	4·1	3·6	270
0·15 a.g.	28	6·7	6·0	268	30	6·7	6·1	269	30	8·2	7·4	269	29	6·4	5·6	267	31	6·7	6·0	277	27	6·0	5·3	273
0·3 a.m.s.l.	28	8·1	7·3	267	30	7·7	6·9	267	30	8·5	7·6	272	29	6·9	6·2	268								
0·6 ,,	28	9·9	9·0	272	30	10·2	9·0	272	30	9·7	8·6	275	29	8·9	8·0	272	31	7·6	7·5	280	27	6·2	5·5	276
0·9 ,,	27	12·0	11·0	278	29	11·1	10·0	280	30	11·1	10·1	281	29	10·4	9·6	280	31	8·7	8·0	291	24	6·6	5·5	287
1·5 ,,	27	13·5	12·8	286	27	11·5	10·8	289	30	12·2	11·6	287	26	10·1	9·6	289	31	7·9	7·2	301	8	4·1	1·9	237
2·1 ,,	25	12·7	12·2	285	26	11·3	10·6	290	30	11·6	11·1	287	22	8·8	8·5	285	31	6·8	5·6	300	3	4·7	4·5	051
3·0 ,,	24	9·9	9·3	281	15	8·6	7·8	284	30	9·3	8·8	282	16	6·5	6·0	282	31	5·4	3·1	305	1	2·0	2·0	105
3·6 ,,	19	9·3	8·5	283	14	8·3	7·1	289	30	8·9	7·5	280	9	5·3	4·0	254	31	5·0	2·2	340				
4·5 ,,	10	5·7	4·1	227	9	6·1	4·2	262	30	7·2	5·4	272	2	4·5	4·5	287	31	4·9	2·3	033				
5·4 ,,	8	5·2	1·9	176	7	6·5	3·5	241	29	6·4	3·7	259					31	5·5	2·7	047				
6·0 ,,	8	4·9	1·1	152	7	5·1	2·0	231	29	7·2	2·4	241					31	4·9	3·1	068				
7·2 ,,	6	6·3	4·7	089	2	5·0	1·6	229	29	6·4	0.3	319					30	9·0	5·5	099				
9·0 ,,	3	10·0	10·0	090	2	9·7	9·7	105	26	9·6	7·6	099					30	8·7	8·4	093				

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	2·3	277	31	2·5	2·0	250	31	2·0	0·3	120	31	3·9	0·4	240	31	1·7	0·8	062	31	1·4	0·6	100
0·15 a.g.	31	5·7	5·2	278	25	6·3	5·0	282	31	5·5	0·7	155	26	5·5	1·6	255	31	4·1	2·0	085	29	4·9	2·6	114
0·3 a.m.s.l.									31	3·8	1·2	125	26	5·2	1·3	263	31	3·4	1·6	074	29	4·0	1·7	113
0·6 ,,	31	5·9	5·4	278	25	7·1	6·2	282	31	5·5	1·0	156	26	6·2	1·3	250	31	4·1	1·9	091	29	5·4	3·2	125
0·9 ,,	31	5·6	5·6	282	24	8·3	7·3	286	31	5·8	1·0	167	25	9·7	2·1	265	31	4·0	1·5	094	29	5·2	2·4	132
1·5 ,,	31	7·0	6·3	297	22	6·8	6·1	290	31	5·5	1·1	130	17	5·4	1·8	266	31	4·8	1·2	103	26	5·7	1·9	143
2·1 ,,	31	6·7	5·9	300	15	5·7	4·8	286	31	5·4	1·6	100	14	6·1	1·9	310	31	5·5	1·4	104	24	5·6	0·5	167
3·0 ,,	31	6·3	4·7	302	13	4·8	2·3	297	31	5·1	2·4	094	10	7·0	1·7	336	31	5·7	1·0	082	21	4·9	0·9	095
3·6 ,,	31	6·2	3·8	313	5	3·4	2·3	053	31	4·9	1·6	063	7	7·1	4·2	322	31	5·6	1·1	071	6	3·3	0·9	060
4·5 ,,	31	6·2	2·4	350	2	4·7	3·8	071	31	4·9	1·4	075	3	6·3	5·6	310	31	5·1	1·7	062	1	2·5	2·5	055
5.4 ,,	30	5·9	2·5	031	2	6·3	5·1	070	31	4·7	1·5	090	2	8·0	6·5	310	31	4·2	1·0	062				
·0 ,,	30	6·0	3·1	049	2	7·3	6·3	090	31	5·0	2·1	114	1	13·0	13·0	340	31	4·2	1·0	095				
7·2 ,,	30	6·5	4·9	075					31	5·3	2·9	130					31	4·0	1·1	115				
·0 ,,	29	9·0	8·3	091					30	4·8	3·4	121					31	4·3	1·9	092				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	1·0	266	31	2·9	2·9	268	31	1·3	1·2	259	31	4·6	4·3	228	31	6·7	6·6	231	31	4·9	4·7	229
0·15 a. g.	30	7·1	7·0	255	31	8·2	8·0	257	31	6·9	6·8	257	31	9·0	8·5	238	29	10·1	9·9	233	31	9·0	8·8	243
0·3 a. m. s. l.													31	9·2	8·8	237	29	10·6	10·4	237	31	9·1	8·9	245
0·6 ,,	30	3·2	3·1	259	31	4·7	4·6	260	31	3·4	3·3	261	31	11·6	11·4	242	29	11·7	11·4	237	31	11·3	10·9	250
0·9 ,,	30	8 8	8·7	257	31	9·4	9·3	258	31	8·7	8·6	258	31	12·5	12·2	245	24	12·4	12·1	241	30	12·6	12·0	252
1·5 ,,	11	9·2	8·9	262	17	14·5	14·3	260	14	12·6	12·5	260	30	10·7	10·1	249	10	10·9	10·9	247	28	11·4	10·7	257
2·1 ,,	2	2·5	2·5	156	5	8·8	8·4	260	6	5·9	4·8	266	30	9·9	9·6	257	5	10·7	10·5	246	27	10·2	9·4	264
3·0 ,,	2	5·5	5·3	071	3	4·8	3·1	277	4	3·3	0·8	307	31	10·3	9·5	262	2	9·3	8·0	235	27	8·7	7·9	260
3·6 ,,	2	7·3	7·1	063	2	3·0	3·0	117	2	2·5	1·8	322	31	9·9	8·7	268	2	11·7	10·1	240	27	8·8	8·0	255
4·5 ,,	1	5·0	5·0	040	1	4·5	4·5	060					30	9·1	7·0	267	1	6·0	6·0	160	29	8·3	6·5	257
5·4 ,,													30	7·8	4·3	255	1	7·0	7·0	135	29	8·0	5·4	269
6·0 ,,													30	7·1	2·9	260	1	5·5	5·5	135	30	8·1	4·5	253
7·2 ,,													31	6·6	1·1	085	1	7·0	7·0	095	30	7·3	1·2	220
9·0 ,,													27	12·0	10·2	075	1	5·5	5·5	035	27	10·4	8·3	085

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·9	4·7	233	31	2·9	2·5	244	31	3·5	2·7	250	31	3·5	3·1	235	31	1·9	1·8	085	31	1·8	1·6	102
0·15 a.g.	28	9·4	8·8	238	20	7·2	6·3	250	27	6·9	5·8	249	24	8·2	7·6	242	27	6·5	6·2	095	31	4·5	3·9	109
0·3 a. m. s. l.	28	10·2	8·8	250													27	7·1	6·7	099	31	4·9	4·2	109
0·6 ,,	28	11·8	11·7	241	20	9·2	7·7	262	27	7·6	6·4	254	24	9·2	8·3	254	27	9.4	9·0	106	30	5·9	5·0	108
0·9 ,,	27	12·3	11·9	247	19	9·9	7·5	277	26	8·2	6·6	267	24	8·9	7·9	265	26	9·1	8·7	107	29	6·9	5·8	107
1·5 ,,	22	9·3	8·9	250	18	8·3	6·2	295	21	6·9	5·2	282	21	7·2	5·6	285	23	7·7	6·7	096	26	8·4	7·3	106
2·1 ,,	19	7·6	6·9	254	15	7·1	4·5	298	14	6·6	4·6	310	17	5·7	3·1	294	17	7·9	5·2	096	14	7·4	6·9	113
3·0 ,,	13	5·8	4·3	261	11	6·0	2·0	351	7	5·1	2·3	339	13	5·1	2·6	292	6	8·7	5·6	096	5	9·7	9·6	101
3·6 ,,	7	4·9	3·7	236	10	5·7	1·8	019	7	6·3	1·9	030	7	2·5	0·1	110	3	8·2	8·1	104	1	5·5	5·5	100
4·5 ,,	7	4·9	3·0	248	8	5·7	2·3	055	5	4·6	1·6	360	2	4·7	3·4	129	1	6·5	6·5	110				
5·4 ,,	2	6·7	4·6	344	6	5·3	4·6	094	4	5·4	3·3	077	1	3·5	3·5	205	1	10·5	10·5	110				
6·0 ,,	1	4·0	4·0	095	6	5·5	4·5	096	4	5·3	4·9	082	1	1·5	1·5	215	1	10·0	10·0	100				
7·2 ,,					3	5·7	5·4	071	3	6·3	6·3	097												
9·0 ,,					1	9·5	9·5	075																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10 –Bhadra 9, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	2·1	067	31	2·3	1·5	078	31	2·4	2·0	052	24	0·3	0·2	028	27	0·6	0·1	245	31	5·1	5·0	269
0·15 a. g.	24	5·4	4·2	077	28	4·1	2·7	086	30	4·3	3·7	073	24	1·5	0·7	022	27	2·0	1·3	328	31	9·4	9·2	275
0·3 a. m. s. l.	24	5·5	4·3	085	28	4·1	2·8	088	30	4·4	3·6	080									31	10·5	10·4	273
0·6 ,,	24	6·3	5·4	093	28	4·4	3·4	094	30	4·6	3·7	098									31	12·8	12·4	270
0·9 ,,	23	6·5	6·4	089	26	4·7	3·8	096	30	5·2	3·8	101									31	12·3	11·9	270
1·5 ,,	19	7·2	7·1	093	25	6·2	5·3	098	19	4·5	2·6	107									31	12·6	12·1	270
2·1 ,,	13	6·2	5·9	092	21	6·6	5·4	102	12	4·5	4·3	109	24	2·0	1·2	352	27	1·9	1·2	340	28	10·4	9·8	271
3·0 ,,	7	5·5	5·3	098	15	6·3	5·9	105	7	6·1	5·2	120	24	1·5	0·5	262	27	3·0	1·9	340	24	7·9	7·2	277
3·6 ,,	7	4·9	4·6	092	10	5·7	4·9	108					24	2·2	0·3	343	27	2·5	1·3	310	13	4·5	3·9	270
4·5 ,,	4	5·3	5·0	081	6	6·7	4·6	126					24	3·2	0·6	348	27	2·7	0·6	029	13	5·1	4·5	255
5·4 ,,					1	1·5	1·5	120					24	3·3	0·9	316	27	4·1	0·9	294	11	4·6	3·0	223
6·0 ,,					1	2·0	2·0	095					24	4·7	2·6	272	27	5·8	3·2	284	9	4·0	2·3	209
7·2 ,,													23	9·2	6·1	255	26	8·2	6·5	290	5	3·9	1·7	117
9·0 ,,													19	11.3	10.1	275	22	10.4	8.9	283	3	11.5	10.4	104

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·9	5·0	270	31	5·6	4·8	264	31	1·9	1·6	315	31	3·7	3·1	294	31	4·0	3·7	293	31	2·8	2·3	322
0·15 a. g.	31	8·2	6·8	271	29	8·6	7·4	260	31	8·4	7·5	317	31	6·9	6·1	297	31	8·1	7·7	300	31	7·6	6·8	311
0·3 a. m. s. l.	31	8·2	7·1	269	29	8·8	8·6	261	31	9·0	8·0	312	31	7·4	6·6	299	31	8·7	8·3	299	31	9·2	8·2	311
0·6 ,,	31	9·0	8·3	270	29	10·9	10·2	263	31	10·9	9·6	304	30	9·2	8·1	298	31	10·8	9·9	300	31	12·4	11·1	309
0·9 ,,	31	9·5	8·8	269	29	10·9	10·7	266	31	12·9	11·9	301	22	9·9	9·0	309	31	11·9	11·1	302	29	12·7	11·7	307
1·5 ,,	29	9·4	8·9	266	28	10·7	10·5	270	31	13·2	12·7	295	9	13·4	12·2	309	31	12·8	12·0	298	26	12·0	11·2	304
2·1 ,,	25	9.7	9·4	269	26	9·9	9·6	276	31	12·6	12·2	294	5	12·0	11·1	305	31	12·8	12·3	297	17	8·3	7·9	299
3·0 ,,	18	7·3	6·9	278	17	5·7	4·8	290	31	11·1	10·6	285	1	5·5	5·5	320	31	10·5	10·1	287	9	5·3	4·1	281
3·6 ,,	14	5·3	4·8	260	12	4·6	3·6	284	31	9·4	8·6	279	1	5·5	5·5	340	31	9·4	8·5	279	4	3·0	0·7	185
4·5 ,,	12	5·0	3·7	272	3	6·0	4·4	279	31	7·7	5·6	263	1	6·5	6·5	305	31	7·5	5·6	268	4	3·5	0·9	121
5·4 ,,	6	5·1	2·6	230	2	2·3	1·3	192	31	6·2	3·5	260					30	6·3	3·8	259	2	2·7	0·3	018
6·0 ,,	6	4·8	1·8	231	1	4·0	4·0	145	31	6·1	2·3	273					30	6·1	2·2	274	2	2·7	1·5	015
7·2 ,,	3	7.7	2·2	130					31	6·3	1·1	045					30	6·4	0·5	342	1	5·5	5·5	125
9·0 ,,	2	8.7	7.3	100					31	10.6	9·6	092					30	10·1	8·1	094				

7—414 D. D. G. Obs. Poona/67

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·3	235	31	0·9	0·8	235	30	0·4	0·3	218	31	2·8	2·5	252	31	2·8	2·6	260	31	2·2	1·9	252
0·15 a. g. .	27	3·1	2·4	254	28	4·1	3·4	234	25	3·9	3·3	232	26	7·9	7·6	262	25	8·5	8·2	266	29	6·6	6·2	262
0·3 a. m. s. l. .													26	9·6	9·2	265	25	9·6	9·2	268	29	7·9	7·5	266
0·6 ,, .													21	11·1	10·8	266	25	11·6	11·2	269	27	9·6	9·3	270
0·9 ,, .	27	4·3	3·2	262	28	4·1	3·4	238	25	4·6	3·8	242	11	9·5	9·3	267	12	11·2	10·6	277	9	8·3	8·0	277
1·5 ,, .	20	5·4	2·5	282	23	4·4	3·4	250	24	5·1	2·4	246	6	8·5	8·4	270	6	10·2	9·9	267	6	7·8	7·8	277
2·1 ,, .	16	4·9	2·5	066	19	4·2	1·2	295	21	4·8	1·0	068	3	9·8	9·6	276	3	6·8	6·7	275	2	4·5	4·5	280
3·0 ,, .	11	6·5	5·3	069	11	6·3	4·8	053	16	5·6	4·1	057	2	5·5	4·2	275					1	1·5	1·5	020
3·6 ,, .	9	8·3	7·3	070	10	7·2	6·2	050	9	7·4	6·3	061	1	2·5	2·5	055					1	3·0	3·0	050
4·5 ,, .	7	7·4	6·7	069	5	11·3	10·6	037	1	11·5	11·5	065												
5·4 ,, .	6	11·1	10·2	067	4	7·9	6·4	034																
6·0 ,, .	5	9·1	8·8	077	2	12·7	12·7	050																
7·2 ,, .	4	6·0	5·8	090																				
9·0 ,, .	3	7·5	7·4	085																				

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	8·7	7·9	249	31	8·6	7·7	253	31	9·2	8·4	245	31	3·6	3·3	260	31	4·4	3·8	265	31	2·4	1·7	235
0·15 a. g. .	29	9·4	8·8	253	30	8·6	7·7	247	27	8·8	8·3	247	24	8·1	7·6	265	29	5·9	5·2	270	26	5·8	4·3	242
0·3 a. m. s. l. .	29	10·1	9·5	256	30	9·1	8·2	249	27	9·6	9·3	250	24	10·0	9·6	270	29	7·1	6·5	277	26	6·7	5·7	254
0·6 ,, .	26	10·9	10·3	257	29	10·1	9·1	253	26	9·7	9·4	253	24	12·3	11·9	275	29	8·4	7·9	276	26	8·2	7·5	265
0·9 ,, .	23	10·0	9·5	359	22	9·0	7·7	256	24	9·4	9·1	253	23	14·0	13·6	281	29	10·1	9·8	278	26	9·8	9·2	271
1·5 ,, .	14	8·3	6·4	257	12	7·1	5·4	267	14	6·1	5·0	244	23	14·2	14·0	287	28	12·8	12·5	283	25	12·0	11·5	278
2·1 ,, .	5	4·4	1·1	102	6	5·8	3·3	255	9	4·1	1·9	221	22	12·8	12·4	286	27	12·7	12·3	286	20	11·7	11·1	279
3·0 ,, .	2	1·7	1·6	360	4	3·7	1·1	106	7	3·4	1·7	160	16	11·3	10·8	275	24	12·0	10·9	282	15	10·3	9·8	289
3·6 ,, .	1	2·5	2·5	110	4	2·7	1·3	102	5	3·0	1·8	074	12	10·3	9·5	278	18	11·3	10.0	284	7	6·9	5·9	289
4·5 ,, .					2	3·7	3·6	093	2	5·3	5·0	067	11	8·6	7·3	275	11	9·5	7·1	275	4	4·3	3·5	313
5·4 ,, .					2	6·7	6·7	094	1	7·5	7·5	090	10	8·4	7·8	273	10	7·7	5·0	279	3	3·5	1·4	029
6·0 ,, .					2	9·5	9·5	090	1	8·0	8·0	095	9	8·4	7·6	263	9	8·2	4·9	290	2	4·0	0·5	151
7·2 ,, .					2	11·3	11·3	095					5	4·8	1·3	208	5	4·7	2·6	104				
9·0 ,, .					1	12·5	12·5	095					3	8·7	8·2	097	3	10·2	9·2	076				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·9	5·9	272	31	4·7	4·4	263	31	6·0	5·8	275	31	2·9	2 6	250
0·15 a. g.	28	9·9	9·7	278	26	6·8	6·1	246	29	8·7	8·4	276	24	6·4	5·8	238
0·3 a. m. s. l.	28	10·1	9·9	275	26	6·8	6·0	251	29	8·9	8·5	272	24	7·5	6·9	248
0·6 ,,	28	10·0	9·5	271	26	7·7	7·3	265	29	9·0	8·2	272	24	8·5	7·8	261
0·9 ,,	28	10·4	9·8	276	22	9·7	9·1	279	29	8·7	7·7	277	24	9·0	8·1	273
1·5 ,,	28	11·3	10·3	284	19	11·9	10·0	288	29	8·7	7·6	286	23	11·1	10·0	278
2·1 ,,	27	11·2	10·1	284	17	12·4	10·7	279	27	9·0	7·9	288	19	10·1	9·3	278
3·0 ,,	27	9·5	7·6	255	14	10·4	9·5	278	24	9·5	7·6	285	12	5·6	4·7	279
3·6 ,,	22	8·7	6·0	285	10	10·1	9·7	274	22	9·6	7·2	285	3	4·8	4·4	265
4·5 ,,	15	7·9	4·5	273	7	3·7	3·0	288	22	8·7	5·7	289	1	3·0	3·0	095
5·4 ,,	9	5·0	0·7	095	4	2·9	1·8	303	15	7·3	4·3	263				
6·0 ,,	9	5·4	4·0	093	3	3·8	1·8	326	15	5·9	1·5	255				
7 2 ,,	8	8·1	7·2	091	3	3·5	3·4	059	13	6·7	1·5	095				
9·0 ,,	7	12·9	12·3	089	3	12·7	12 6	090	11	11·6	9·8	093				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hr.			
10·5	1	19·0	19.0	095
	AHMADABAD			
	0530 hr.*			
10.5	27	12·5	12·0	088
12·0	25	17·4	17·1	090
14.1	20	21.5	20.4	088
16.2	12	27.9	26.9	088
18.0	5	31.2	31.1	090
21·0	1	19·0	19.0	075
	1730 hr.*			
10·5	24	11·9	11·6	084
12.0	23	16.8	16.3	085
14.1	19	22.1	21.3	087
16.2	14	28.2	27.9	087
18.0	7	26.3	26.2	100
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	23	11·2	5·9	085
12·0	21	13·0	12·0	074
14·1	16	15·9	15·4	073
16.2	8	20·4	19·4	085
	1730 hr.*			
10·5	23	12·3	10·9	077
12·0	20	12·9	12·5	075
14·1	16	15·0	14·0	070
16·2	6	18·1	17·0	075
18.0	1	24·5	24·5	075
21·0	1	17.5	17.5	070
	ANANTAPUR			
	0530 hr.			
10·5	1	17·0	17·0	090
12·0	1	22·0	22·0	090
	BAHRAICH			
	1730 hr.			
10·5	2	8·3	8·3	096
12·0	2	13.3	13·2	115

Ht. in Km.	n	V	v	D
	BANGALORE			
	0530 hr. @			
10·5	1	22·5	22·5	090
	BAREILLY			
	0530 hr.			
10·5	2	3·0	2·6	149
12·0	1	3·5	3·5	065
14·1	1	3·5	3·5	085
	BEGAMPET			
	0550 hr.			
10·5	1	13·0	13·0	095
21·0	1	20·0	29·0	070
	1	31·0	31·0	105
	1730 hr.			
10·5	1	18·0	18·0	095
12·0	1	21·0	21·0	095
	BHUBANESHWAR			
	0530 hr.			
10·5	2	15·3	15·3	082
12·0	1	20·0	20·0	100
14·1	1	27·5	27·5	085
	BOMBAY/ SANTACRUZ			
	0530 hr.*			
10·5	27	13·4	12·5	076
12·0	25	19·0	18·0	072
14·1	15	28.1	28·1	068
16·2	7	35·9	34·7	069
18·0	1	30·0	30·0	065
	1730 hr.*			
10·5	26	14·5	14·0	074
12·0	23	22·7	22·3	075
14·1	18	32·8	32·5	072
16·2	6	36·7	36·0	070
18·0	1	43·0	43·0	080
21.0	1	28·0	28·0	085

Ht. in Km.	n	V	v	D
	CALCUTTA/ DUMDUM			
	0530 hr.*			
10.5	27	11·9	11·1	091
12·0	27	15·3	14·8	086
14·1	27	20·0	19·3	077
16·2	26	22·0	21·6	076
18·0	18	22·7	21·9	086
21·0	5	18.8	18·1	090
	1730 hr.*			
10·5	27	11·3	10·9	082
12·0	27	13·7	12·9	082
14·1	27	18·4	17·4	076
16·2	26	21·4	20·8	078
18·0	21	21·2	20·2	085
21·0	5	17·6	17·2	085
	DIBRUGARH/ MOHANBARI			
	1130 hr.			
10·5	1	22.0	22·0	245
	GANGTOK			
	0530 hr.			
10·5	2	10·5	9·7	075
12·0	2	13·7	9·9	044
14·1	2	17·7	16·1	025
	GAUHATI			
	0530 hr.			
10·5	23	7·0	5·2	079
12·0	21	10·1	8·7	055
14·1	17	13·2	11·5	062
16·2	13	16·3	15·4	068
18·0	7	16·1	15·8	073
	1130 hr.			
10·5	1	14·5	14·5	095
12·0	1	17·0	17·0	095
14·1	1	20·5	20·5	085
16·2	1	26·5	26·5	095

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	26	9·7	6·9	065
12·0	22	10·1	8·3	062
14·1	20	13·4	12·8	050
16·2	14	17·1	16·3	071
18·0	6	15·4	14·6	085
21·0	2	11·7	11·7	090
	GAYA			
	1730 hr.			
10·5	1	14·0	14·0	100
	GOPALPUR			
	0530 hr.			
10·5	1	16·0	16·0	095
12·0	1	22·5	22·5	090
14·1	1	36·0	36·0	075
	1730 hr.			
10·5	5	14·2	13·7	069
12·0	3	23·3	23·1	087
14·1	1	23·5	23·5	095
	GWALIOR			
	0530 hr.			
10·5	4	7·9	7·8	089
12·0	1	17·0	17·0	100
	1130 hr.			
10·5	1	5·5	5·5	050
	JAIPUR/SANGANER			
	0530 hr.			
10·5	4	7·7	6·9	100
12·0	2	6·0	6·0	105
	JODHPUR			
	0530 hr.*			
10·5	8	9·2	8·4	090
12·0	8	10·4	10·1	095
14·1	1	23·0	23·0	100
	1730 hr.*			
10·5	16	8·7	8·5	087
12·0	9	10·7	10·6	091
14·1	5	13·0	12·4	079
16·2	1	24·5	24·5	055
18·0	1	18·0	18·0	095
21.0	1	15·5	15·5	080

Ht. in Km.	n	V	v	D
	LUCKNOW/AMAUSI			
	0530 hr.			
10·5	1	11·5	11·5	120
	1730 hr.			
10·5	1	11·5	11·5	090
12·0	1	10·0	10·5	100
	MADRAS MINAMBAKKAM			
	0530 hr.*			
10·5	29	15·4	14·8	087
12·0	27	23·0	22·2	083
14·1	22	34·6	33·1	089
16·2	19	31·9	31·4	092
18·0	16	21·3	21·1	087
21·0	7	20·6	20·1	095
24·0	1	24·0	24·0	070
	1130 hr.			
10·5	3	21·7	21·5	083
12·0	2	25·3	25·3	080
14·1	2	27·5	27·5	073
16·2	1	28·0	28·0	095
18·0	1	27·5	27·5	075
	1730 hr.*			
10·5	30	15·5	14·8	091
12·0	27	24·8	24·3	087
14·1	26	33·0	32·3	085
16·2	24	31·7	31·0	089
18·0	21	22·4	21·4	091
21·0	8	12·9	12·5	009
24·0	1	18·0	18·0	085

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

MINICOY

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	28·0	28·0	080
12·0	1	31·0	91·0	080
14·1	1	30·0	30·0	090

1130 hr.

Ht. in Km.	n	V	v	D
10·5	2	24·2	24·2	092
12·2	2	30·2	30·0	070

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	24	19·0	17·1	081
12·0	23	29·3	27·8	084
14·1	20	38·1	37·3	084
16·2	15	29·1	28·6	092
18·0	10	16·9	16·5	088
21·0	7	10.0	3·2	089
24·0	3	9·2	8·6	067

NAGPUR SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	30	12·4	12·0	091
12·0	24	16·2	16·0	087
14·1	14	22·8	22·1	080
16·2	3	21·0	21·0	085

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	27	11·9	11·1	095
12·0	26	16·8	15·9	092
14·1	20	22·1	21·2	082
16·2	10	25·7	25·1	085
18·0	3	22·7	22·6	090

NEW DELHI/ SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	30	5·2	2·9	130
12·0	30	5·6	2·6	104
14·1	29	8·6	5·8	070
16·2	29	10·2	5·1	063
18·0	20	14·7	14·2	082
21·0	11	12·2	8·8	082
24·0	6	15·5	15·3	095
27·0	5	21·2	20·9	095
30·0	3	23·3	22·3	090

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	31	5·4	2·4	113
12·0	31	6·1	3·3	112
14·1	29	7·6	5·9	085
16·2	29	10·9	9·7	087
18·0	26	13·2	12·6	099
21·0	21	14·1	13·6	092
24·0	9	15·8	15·3	102
27·0	5	15·8	15·3	104
30·0	2	19·0	18·9	070
33·0	1	28·0	28·0	090

PORTBLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	17·0	16·2	070
12·0	26	22·8	22·1	068
14·1	25	30·5	30·3	079
16·2	18	30·9	30·5	077
18·0	13	19·3	18·4	086
21·0	6	16·9	16·9	089
24.0	2	16·5	16·5	087

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	25	15·4	13·3	066
12·0	25	20·6	20·3	066
14·1	23	29·6	28·7	077
16·2	15	28·0	27·7	079
18·0	5	22·5	22·1	089
21·0	2	10·5	10·3	084
24.0	1	10·0	10·0	075

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	16	12·3	11·6	271
12·0	12	12·8	11·4	264
14·1	7	14·4	12·1	278
16·2	3	10·3	8·0	278
18·0	2	7·0	5·4	039
21·0	2	10·7	5·8	282
24·0	1	8·0	8·0	105

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	17	12·8	11·8	260
12·0	15	16·3	13·9	272
14·1	9	18·2	17·6	267
16·2	5	13·7	12·8	278
18·0	1	11·0	11·0	225
21·0	1	10·0	10·0	270

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	16·5	16·5	100
12·0	1	21·0	21·0	085

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	25·0	25.0	250

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	31	18·9	17·2	084
12·0	31	30·9	29·6	081
14·1	29	35·2	34·1	086
16·2	22	23·6	22·5	092
18·0	11	17·8	16·5	087
21·0	2	6·0	5·7	073
24·0	1	3·5	3·5	150

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	30	19·9	18·2	086
12·0	30	28·3	27·7	079
14·1	27	38·3	37·4	083
16·2	21	31·5	29·5	089
18·0	14	16·9	15.1	084
21·0	7	13·0	8·6	086
24·0	1	5·5	5·5	180

UDAIPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	9·0	9·0	080
12·0	1	7·5	7·5	100
14·1	1	14·5	14·5	085
16·2	1	18·5	18·5	095
18·0	1	31·0	31·0	100
21·0	1	30·5	30·5	100
24·0	1	80·0	80·0	095

VIJAYAWADA GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	17·3	17·1	075

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	13·0	12.9	085
12·0	1	26·5	26·5	075

VISHAKHAPATNAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	6	15·4	15·0	084
12·2	6	23·6	23·0	085
14·1	6	30·3	30·3	083
16·2	2	26·3	26·3	084
18·0	1	28·0	28·0	096
21·0	1	19·5	19·5	115

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	18·8	18·8	090
12·0	2	24·5	24·4	086
14·1	1	28·5	28·5	080
16·2	1	32·5	32·5	085
18·0	1	47.0	47.0	085
21·0	1	36·0	36·0	080
24·0	1	27·0	27·0	080

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	8	13·7	13·0	088
12·0	5	21·4	21·2	089
14·0	4	22·1	21·5	075
16·2	3	26·5	25·0	073
18·0	2	31·5	31·3	090

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde Stations in India

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July, 1961	00 and 12	Fan type up to 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September, 1954	00 and 12	Clock type up to 22-2-1963.
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (994 mb.)						ALLAHABAD/BAMHRAULI (987 mb.)						BANGALORE (906 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	299.3	301	298	297.8	31	098	299.8	302	298	298.2	31	921	292.4	294	291	291.5
1000	31	−006	..	..	..	..	29	−023	..	..	..	..	31	072	..	..	..	..
900	31	928	294.5	298	292	292.8	29	911	296.5	302	293	293.9	31	950	292.1	293	291	291.1
850	31	1424	292·2	296	289	290.9	29	1410	293.9	298	291	291.3	31	1474	290.0	293	288	288.0
800	31	19445	289.9	293	286	287.7	29	1936	291.4	295	288	288.7	31	1992	288.2	291	285	284.8
700	31	3076	285.5	288	281	280.7	29	3069	285.1	288	281	282.3	31	3118	283.1	286	279	278.2
600	31	4356	278.8	281	277	273.7	29	4348	278.9	282	275	275.2	31	4387	276.1	279	272	271.5
500	31	5827	270.6	273	266	266.8	29	5825	271.7	275	269	266·8	31	5847	268.8	272	262	265.3
400	31	7569	261.0	265	257	..	29	7575	262.3	267	258	..	31	7570	258.1	262	249	..
300	27	9700	247.5	254	240	..	28	9736	248.6	255	244	..	30	9691	243.5	247	234	..
250	27	11017	237.8	243	231	..	28	11005	239.1	246	234	..	26	10961	234.0	238	224	..
200	26	12545	226·3	231	222	..	25	12563	227.3	235	221	..	23	12449	222.0	229	213	..
175	26	13425	219.8	232	213	..	25	13436	220.1	228	214	..	19	13313	215.2	221	213	..
150	26	14400	212.7	224	206	..	23	14402	212.0	219	205	..	17	14277	209.2	214	203	..
125	20	15530	205.1	218	197	..	21	15517	204.8	213	197	..	13	15374	203.2	209	197	..
100	19	16799	199.3	213	191	..	17	16829	201·2	213	193	..	13	16703	200.1	205	196	..
80	10	18045	199.3	207	194	..	14	18115	200.9	210	193	..	9	18061	205.5	216	196	..
70	8	18951	201.9	206	196	..	14	18874	203.7	211	194	..	7	18881	208.6	214	198	..
60	..	..	..	..	..	..	11	19849	207.6	215	199	..	5	19816	210.6	219	202	..
50	..	..	..	..	..	..	9	20937	211.1	217	203	..	..	..	..	..	..	..
40	..	..	..	..	..	..	5	22325	217.0	222	212	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTACRUZ (1011 mb.)						CALCUTTA/DUM DUM (998 mb.)						GAUHATI (995 mb.)					
Surface	31	013	298.6	300	297	297.1	31	6	299.9	302	299	298.3	31	49	299.5	301	298	298.5
1000	31	034	..	..	..	..	31	−12	..	..	..	..	31	010	..	..	..	..
900	31	946	294.1	297	292	291.6	31	915	296.6	298	293	294.2	31	937	296.0	300	291	292.9
850	31	1440	291.5	295	289	288.1	31	1416	293.1	295	290	291·3	31	1433	293.4	298	288	290.3
800	31	1962	288.7	293	285	286.5	31	1946	290.7	293	286	288.7	31	1957	290.5	293	286	287.4
700	31	3085	284.1	287	281	279.8	31	3076	285.5	289	282	283.6	31	3088	284.8	289	280	281.4
600	31	4358	278.3	283	275	273.5	31	4360	280.7	282	274	277.0	31	4365	278.5	282	273	275·1
500	31	5829	270.9	275	266	..	31	5840	271.5	274	267	..	31	5838	270.8	274	265	..
400	31	7567	260·4	264	255	..	30	7588	261.8	266	257	..	31	7581	261.6	265	257	..
300	29	9710	246.2	251	241	..	29	9735	247.7	253	242	..	29	9739	248.9	254	243	..
250	28	11004	236.7	241	231	..	29	11040	238.8	245	230	..	28	11008	239.1	243	233	..
200	27	12513	224.6	232	219	..	29	12568	227·7	234	220	..	27	12577	227.6	235	221	..
175	26	13399	217.8	225	211	..	29	13451	221.1	231	213	..	25	13449	220.7	227	213	..
150	25	14361	211.5	217	207	..	28	14435	214.2	224	205	..	24	14451	214.0	219	206	..
125	22	15465	203.8	210	196	..	27	15571	206·4	216	197	..	22	15566	206.9	213	197	..
100	21	16785	199.5	205	193	..	27	16808	201.0	207	192	..	20	16921	202.2	208	195	..
80	13	18144	202.8	209	193	..	22	19178	200.2	206	190	..	11	18251	202·9	209	197	..
70	12	18912	205·5	212	195	..	21	18956	202·4	213	194	..	6	19033	209·8	216	203	..
60	10	19973	209·1	216	204	..	17	19893	205·1	213	195	..	..	..	..	..	..	..
50	9	21016	212·7	221	206	..	15	20990	208.2	213	199	..	..	..	..	..	..	..
40	..	..	..	..	..	..	11	22339	211·6	217	204	.	..	..	..	..	..	..
30	..	..	..	..	..	..	5	24236	215·8	219	211	..	..	..	..	..	..	..
20	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (974 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (965 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	299·9	303	298	297.1	31	015	299·2	302	297	295·6	31	311	297·0	298	294	295·8
1000	23	−022	..	..	..	..	31	042	..	..	..	..	31	9	..	..	..	..
900	23	906	297·3	301	294	294·4	31	967	294·9	297	291	289·6	31	925	294·3	297	291	292·6
850	23	1398	295·3	298	292	290·6	31	1461	291·8	295	287	287·6	31	1418	291·7	294	290	290·7
800	23	1920	292·6	296	289	287·5	31	1981	288·7	292	285	284·9	31	1939	289·1	291	287	288·1
700	23	3055	286·4	291	283	281·2	31	3103	282·4	286	278	278·5	31	3077	283·6	287	280	283·2
600	20	4331	279·2	283	275	273·6	31	4369	275·1	280	270	272·0	31	4340	277·3	280	274	275·7
500	18	5801	271·3	273	264	..	31	5816	267·1	272	259	..	30	5809	269·7	273	266	..
400	16	7547	262·9	269	259	..	31	7533	257·0	265	252	..	30	7541	260·0	264	252	..
300	14	9711	250·2	255	244	..	31	9621	244·9	251	235	..	30	9674	245·7	249	241	..
250	12	11022	238·0	245	232	..	26	10913	232·3	243	225	..	29	10968	236·6	240	233	..
200	10	12555	223·7	235	218	..	22	12381	220·5	229	211	..	29	12474	225·1	230	220	..
175	8	13486	222·2	225	213	..	21	13224	215·3	224	209	..	29	13327	218·3	225	203	..
150	8	14450	214·6	223	203	..	20	14193	209·1	219	201	..	28	14351	211·3	218	203	..
125	7	15581	206·4	215	193	..	21	15310	204·1	215	202	..	27	15412	205·1	212	197	..
100	6	16892	199·3	209	187	..	21	16653	201·2	209	189	..	26	16749	199·7	205	193	..
80	5	18265	201.8	212	191	..	17	18031	206·0	216	195	..	16	18026	201·4	211	193	..
70	5	19072	205.0	218	193	..	14	18836	208·1	216	197	..	14	18871	204·6	214	194	..
60	5	19998	209·8	223	197	..	12	19801	210·5	216	199	..	14	19825	207·2	215	199	..
50	..	..	..	..	..	..	10	20888	213·3	218	204	..	13	20893	212·3	218	201	..
40	..	..	..	..	..	..	7	22405	215·4	221	206	..	5	22234	214·8	222	205	..
30	..	..	..	..	..	..	5	24126	217·4	223	211							
20	..	..	..	..	..	..												
10	..	..	..	..	..	..												

	NEW DELHI/SAFDARJUNG (975 mb.)						PORTBLAIR (998 mb.)						SRINAGAR (894 mb.)					
Surface	31	209	300·5	303	298	298·7	31	79	293·4	302	296	296·6	25	1588	292·0	297	290	291·2
1000	31	−21	..	..	..	..	31	057	..	..	..	..	25	5	..	..	..	..
900	31	911	297·8	301	294	293·9	31	977	293·8	296	292	290·6	25	929	..	..	..	..
850	31	1411	294·9	299	292	291·0	31	1469	290·9	293	289	287·3	25	1421	..	..	..	..
800	31	1935	291·9	297	289	287·8	31	1986	288·3	291	285	284·5	25	1943	291·6	296	289	288·9
700	31	3071	285·5	287	282	281·8	31	3107	282·8	286	280	276·3	25	3080	284.8	291	279	283·0
600	31	4351	279·1	282	277	274·6	31	4371	275·6	281	272	270·4	25	4351	278·1	283	272	274·4
500	31	5822	271·2	274	268	265.7	31	5820	267·2	271	263	..	25	5820	269·7	276	263	..
400	31	7571	261·9	267	258	..	31	7536	256·1	261	251	..	25	7553	260·7	265	252	..
300	31	9724	248·5	254	244	..	29	9640	241·6	248	235	..	18	9708	248·6	252	243	..
250	30	11025	238·5	246	232	..	28	10905	232·0	237	226	..	17	11016	231·0	245	231	..
200	30	12537	226·3	235	217	..	28	12381	219·6	228	210	..	14	12545	229·6	235	222	..
175	30	13419	218·9	227	209	..	27	13224	214·4	223	208	..	13	13418	222·7	229	215	..
150	30	14388	210·8	221	199	..	27	14229	207·8	218	202	..	13	14413	216·5	223	207	..
125	30	15489	202·5	215	193	..	22	15315	203·1	213	197	..	12	15441	210·5	219	199	..
100	28	16801	197·7	209	187	..	18	16639	200·2	207	193	..	11	16907	205·4	213	191	..
80	21	18090	199.0	209	192	..	15	17961	205·4	211	196	..	6	18288	206·3	209	202	..
70	20	18896	204·4	214	196	..	12	18793	208·3	214	199	..	..	..	..	..	..	..
60	16	19824	209·6	214	202	..	8	19741	211.1	218	203	..	..	..	..	..	..	..
50	13	20944	213·1	219	203	..	8	20858	214·6	222	207	..	..	..	..	..	..	..
40	11	22366	218·9	225	211	..	5	22271	214·8	222	208	..						
30	8	24216	223·7	230	215		..	..		..	..							
20	7	26927	228·9	241	221													
10																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1001 mb.)						VISHAKHAPATNAM (991 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	297·8	299	296	296·4	31	041	299·4	303	297	297·5
1000	31	072	..	..	..	..	31	47	..	..	..	..
900	31	994	292·4	295	289	290·1	31	932	295·2	298	293	292·1
850	31	1484	290·1	295	285	287·6	31	1429	292·3	295	289	289·4
800	31	2000	287·3	290	284	284·1	31	1950	289·6	292	287	286·9
700	31	3119	282·1	285	279	277·2	31	3077	283·6	287	279	280·6
600	31	4382	274.6	279	270	270·3	31	4357	276·7	281	273	273·8
500	31	5833	266·7	271	261	..	31	5812	269·2	273	265	..
400	31	7544	255·7	260	251	..	31	7541	259·2	263	255	..
300	31	9639	240·1	245	235	..	29	9674	245·0	250	238	..
250	31	10897	230·7	239	222	..	28	10958	235·6	240	228	..
200	31	12366	218·3	228	209	..	28	12457	223·9	230	214	..
175	29	13200	211·5	218	203	..	28	13314	217·3	222	208	..
150	29	14146	205·8	212	197	..	28	14295	211·0	217	201	..
125	28	15217	200·0	207	190	..	26	15375	205·4	212	195	..
100	26	16532	199·5	207	190	..	23	16722	200·6	205	196	..
80	21	17861	203·5	208	193	..	19	18071	202·7	209	197	..
70	19	18752	204·7	215	193	..	15	18889	205·9	212	199	..
60	11	19607	208·0	211	204	..	14	19829	209.6	214	197	..
50	8	20726	210·5	214	207	..	1	20929	214·1	219	209	..
40	5	22166	215·4	217	211	..		22345	217·5	225	213	..
30	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G. M. T.

August, 1964 (Pausa 11—Bhadra 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (993 mb.)						ALLAHABAD/BAMHRAULI (985 mb.)						BANGALORE (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	303.3	307	299	298.4	31	098	303.8	309	299	298.7	31	921	297.5	301	292	292.0
1000	31	014	..	..	..	..	28	(−)036	..	..	..	..	31	041	..	..	..	..
900	31	923	296.7	303	293	293.6	28	903	298.7	304	296	295.3	31	968	297.1	301	292	291.6
850	31	1422	293.9	299	290	291.1	28	1406	295.5	299	293	292.4	31	1466	293.1	297	290	293.1
800	31	1946	291.1	296	288	288.2	28	1930	292.4	295	290	289.3	31	1987	289.4	293	286	285.6
700	31	3081	285.9	292	283	281.5	28	3069	286.7	288	265	282.7	31	3114	282.7	286	280	282.7
600	31	4362	279.5	284	277	274.4	28	4354	280.5	283	278	278·4	31	4383	276.3	280	273	271.7
500	31	5839	271.7	277	268	..	28	5835	272.8	276	268	..	31	5845	268.9	271	265	..
400	30	7589	262.5	267	258	..	28	7589	263.3	267	260	..	31	7569	258.1	263	254	..
300	26	9751	249.0	253	245	..	27	9751	249.2	254	243	..	30	9687	243.0	248	239	..
250	25	11059	240.0	244	235	..	26	11059	240.2	248	233	..	23	10959	233.2	236	229	..
200	25	12585	228.2	234	222	..	25	12589	228.4	234	223	..	18	12445	221.6	226	216	..
175	23	13468	221·3	227	215	..	25	13470	221.3	228	213	..	13	13287	215.9	220	212	..
150	23	14447	214.0	220	207	..	24	14454	214.2	221	207	..	12	14269	208.4	214	205	..
125	22	15571	206.0	212	197	..	22	15558	205.9	216	198	..	10	15350	203.2	209	199	..
100	22	16887	199.5	206	191	..	20	16913	201.3	216	192	..	7	16670	200.0	204	197	..
80	18	18264	202·2	213	194	..	12	18201	199.2	216	192	..	6	17943	206.0	209	202	..
70	17	19062	206·0	212	195	..	11	18912	203.2	216	191	..	5	18774	208.4	211	205	..
60	15	20007	211·6	222	201	..	8	19891	204.1	209	197	..	..	..	..	..	..	..
50	10	21161	216·3	225	203	..	5	21029	210.4	216	206	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (100 mb.)						CALCUTTA/DUM DUM (996 mb.)						GAUHATI (993 mb.)					
Surface	31	013	300.1	302	298	297.3	31	6	302.2	306	300	298.9	31	49	303.0	307	300	299.1
1000	31	021	..	..	..	..	30	(−)026	..	..	..	..	31	015	..	..	..	..
900	31	944	293.7	296	291	291.9	30	909	297.1	300	294	294.7	31	920	297.3	302	294	293.8
850	31	1437	290.9	295	283	289.1	30	1409	294.2	297	291	291.8	31	1421	295.4	299	292	291.5
800	31	1959	288.5	293	285	286.2	30	1934	291.6	294	288	288.7	31	1947	292.4	297	289	289.3
700	31	3081	284.1	289	80	280.0	30	3072	286.3	290	282	283.0	31	3081	286.2	289	284	282.6
600	31	4352	277.9	283	273	273.4	30	4360	280.2	285	277	276·2	31	4367	279.6	282	277	275.5
500	31	5818	270.6	274	265	..	29	5844	272.9	276	270	..	31	5854	272.3	275	268	..
400	31	7560	261.0	264	256	..	29	7601	263.1	267	259	..	31	7584	263·0	268	256	..
300	30	9704	246.2	250	241	..	29	9762	248.6	253	244	..	28	9761	248.8	253	238	..
250	27	10993	236.9	243	230	..	29	11067	239.4	245	235	..	24	11068	240.0	244	234	..
200	27	12503	224.4	230	215	..	29	12597	228.2	235	222	..	23	12616	228.4	235	225	..
175	27	13374	217.4	223	210	..	29	13480	221.5	228	214	..	20	13510	220.8	227	212	..
150	27	14337	209.9	218	205	..	28	14458	214.0	221	207	..	19	14473	215.0	219	207	..
125	26	15439	202·6	211	195	..	28	15600	206·4	215	198	..	18	15604	206.8	214	203	..
100	22	16776	199·5	207	191	..	28	16914	200·8	211	192	..	17	16927	201·3	208	196	..
80	16	18174	203·4	211	195	..	23	18218	201·3	210	196	..	10	18259	201.1	208	191	..
70	16	18919	207.3	215	199	..	21	19032	203·8	210	196	..	7	19031	205.7	214	201	..
60	12	19866	210.2	219	204	..	18	19954	206·9	217	195	..	..	..	..	..	..	..
50	10	20989	214.2	224	207	..	17	21068	211·4	225	196	..	..	..	..	..	..	..
40	5	22466	219.4	222	213	..	11	22478	213·8	222	203	..	..	..	..	..	..	..
30	..	..	..	..	..	..	7	24307	216·6	225	207	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (973 mb)						MADRAS/MINAMBAKKAM (1001 mb.)						MINICOY (1008 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	305.4	313	300	298.0	31	015	304.1	309	298	296.9	31	002	300.4	302	298	296.9
1000	28	−031	..	..	..	..	31	23	..	..	..	..	30	077	..	..	..	..
900	28	906	299.1	307	292	293.5	31	958	296.7	300	293	291.7	30	1002	293.4	295	291	289.8
850	28	1404	295.2	302	292	290.5	31	1455	292.8	296	289	289.5	30	1494	290.5	293	288	285.4
800	28	1927	292.5	298	289	287.2	31	1976	289.2	293	285	286.6	30	2011	287.6	291	283	281.8
700	28	3060	286.2	292	283	279.2	31	3100	282.9	287	279	279.3	30	3131	282.0	285	277	274.6
600	28	4337	279.2	284	274	271.9	31	4366	275.6	279	270	..	30	4392	274.7	280	270	..
500	28	5807	271.6	276	266	..	31	5821	268.1	273	265	..	29	5839	267.3	273	263	..
400	27	7557	261.9	265	255	..	31	7543	258.0	261	254	..	29	7550	256.2	261	251	..
300	24	9718	249.1	256	243	..	31	9659	243.0	248	239	..	27	9649	241.3	246	234	..
250	20	11023	240.2	250	231	..	28	10928	233.4	239	227	..	25	10907	230.8	237	225	..
200	16	12532	227.5	232	221	..	27	12414	221.3	229	217	..	23	12374	219.3	225	214	..
175	14	13422	221.0	225	213	..	27	13246	215.5	223	210	..	23	13211	213.7	220	207	..
150	14	14402	213.0	218	205	..	27	14230	208.6	217	200	..	22	14174	207.0	215	199	..
125	10	15514	206.5	211	194	..	26	15318	202.8	213	195	..	20	15251	201.3	209	197	..
100	6	16789	202.1	208	197	..	24	16634	199.2	206	194	..	15	16562	199.1	203	194	..
80	..	..	..	..	..	..	23	17960	203.0	208	197	..	12	17875	203.3	206	201	..
70	..	..	..	..	..	..	21	18793	201.0	214	201	..	11	18671	205.7	211	201	..
60	..	..	..	..	..	..	15	19720	208.4	221	203	..	9	19608	207.9	213	203	..
50	..	..	..	..	..	..	14	20827	210.5	217	206	..	9	20724	210.3	216	206	..
40	..	..	..	..	..	..	11	22180	211.7	216	209	..	7	22141	211.1	213	208	..
30	..	..	..	..	..	..	6	23965	214.0	216	210	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NAGPUR/SONEGAON (964 mb.)						NEW DELHI/SAFDARJUNG (973 mb.)						PORT BLAIR (997 mb.)					
Surface	31	311	300.6	306	298	296.4	31	209	304.1	309	299	300.2	31	079	299.1	301	296	293.5
1000	31	012	..	..	..	..	31	−037	..	..	..	..	31	051	..	..	..	..
900	31	920	295.1	301	292	293.9	31	903	299.6	305	297	295.1	31	939	294.0	296	291	291.0
850	31	1419	293.0	297	290	291.1	31	1404	296.2	301	293	291.8	31	1464	291.3	293	289	287.6
800	31	1942	289.9	293	287	288.6	31	1930	292.9	297	290	288.8	31	1981	288.0	291	285	283.7
700	31	3073	284.6	287	281	282.3	31	3068	286.6	290	284	281.6	31	3102	282.8	286	279	280.3
600	31	4352	277.8	281	275	277.6	31	4355	280.4	285	278	274.2	31	4366	275.8	281	271	..
500	30	5828	271.2	275	268	..	31	5828	272.5	277	269	..	31	5819	266.9	271	260	..
400	30	7570	261.1	265	256	..	31	7581	262.3	266	259	..	30	7551	255.8	266	250	..
300	30	9718	247.1	251	243	..	31	9740	248.7	253	243	..	27	9649	242.9	249	237	..
250	29	11012	237.5	242	230	..	31	11046	239.5	245	233	..	25	10914	232.6	238	226	..
200	28	12530	225.5	230	221	..	31	12578	228.6	236	219	..	25	12397	220.2	229	210	..
175	28	13394	219.0	223	215	..	30	13461	221.1	228	211	..	24	13295	214.2	223	205	..
150	28	14375	212.0	217	205	..	30	14442	213.5	222	205	..	24	14249	204.8	216	195	..
125	28	15470	205.7	212	200	..	30	15561	205.3	213	195	..	20	15293	201.1	206	195	..
100	27	16737	201 6	207	194	..	29	16886	199.1	210	191	..	14	16569	200.7	208	194	..
80	17	18145	201.3	209	194	..	27	18178	203.2	210	193	..	7	17929	203.6	212	197	..
70	15	18921	203.4	210	195	..	27	18977	203.5	213	196	..	..	..	..	..	..	..
60	12	19855	207.0	213	198	..	24	19887	209.7	217	203	..	..	..	..	..	..	..
50	11	20956	211.7	217	202	..	21	21009	214.0	222	209	..	..	..	..	..	..	..
40	6	22241	214.3	220	206	..	18	22419	219.2	225	210	..	..	..	..	..	..	..
30	..	..	..	..	..	..	11	24232	223.1	229	215	..	..	..	..	..	..	..
20	..	..	..	..	..	..	7	26892	228.0	234	221	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

August, 1964 (Sravana 10—Bhadra 9, 1886 Saka)

Standard Pressure Surface mbs	SRINAGAR Surf. Pr. (832 mb.)						TRIVANDRUM (1000 mb.)						VISHAKHAPATNAM (995 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	1588	300·8	304	293	293·3	31	064	300·6	302	297	297·0	31	041	302·0	305	298	298.8
1000	28	−063	..	..	..	..	31	062	..	..	..	..	31	−011	..	..	..	..
900	28	887	..	..	..	..	31	989	293·5	295	291	291·5	31	924	296.0	300	291	293.7
850	28	1395	..	..	..	..	31	1483	291·0	293	287	287·5	31	1422	293·8	299	289	290.9
800	28	1931	297·7	301	291	287·9	31	2000	288·0	291	285	283·5	31	1952	290.3	296	287	288.1
700	28	3083	289·3	295	285	280.5	31	3122	282·0	286	279	277·7	31	3076	284.5	290	279	282.5
600	28	4378	280·9	286	276	272.8	31	4387	276·0	279	271	..	31	4354	277.5	284	275	275.6
500	27	5853	271·6	275	267	..	31	5842	268·0	272	263	..	31	5818	270.0	274	263	..
400	27	7604	262·9	268	259	..	31	7556	256·0	262	250	..	31	7553	259.8	264	255	..
300	23	9767	249·6	260	243	..	31	9658	240·0	246	236	..	28	9692	245.5	249	239	..
250	22	11028	240.8	247	235	..	31	10925	232·0	238	225	..	27	10985	236.5	240	230	..
200	20	12622	229.6	236	222	..	31	12409	220·0	227	213	..	24	12486	224.4	229	218	..
175	19	13498	223.6	231	216	..	28	13240	213·5	219	207	..	23	13339	217.8	224	213	..
150	18	14478	217.4	225	210	..	28	14230	205·9	213	198	..	23	14322	211.3	218	204	..
125	15	15640	211.5	219	204	..	28	15255	200·0	205	195	..	18	15427	205.2	212	198	..
100	14	17019	205.6	213	200	..	27	16587	200.0	209	193	..	17	16796	200.3	207	193	..
80	14	18364	206.3	216	199	..	25	17908	204·5	212	198	..	11	18165	202.8	206	199	..
70	14	19164	209.6	225	199	..	21	18725	206·0	213	202	..	10	18943	206.1	210	202	..
60	10	20028	214.0	228	209	..	16	19656	218·0	213	203	..	9	19899	209.2	215	205	..
50	6	21271	219.5	225	212	..	13	20782	210·0	214	205	..	9	20990	212.8	219	209	..
40	..	..	..	..	..	..	8	22105	210·2	215	207	..	..	..	..	..	..	..
30	..	..	..	..	..	..	6	23733	212.7	217	208	.	..	..	..	..	..	..
20																		
10																		

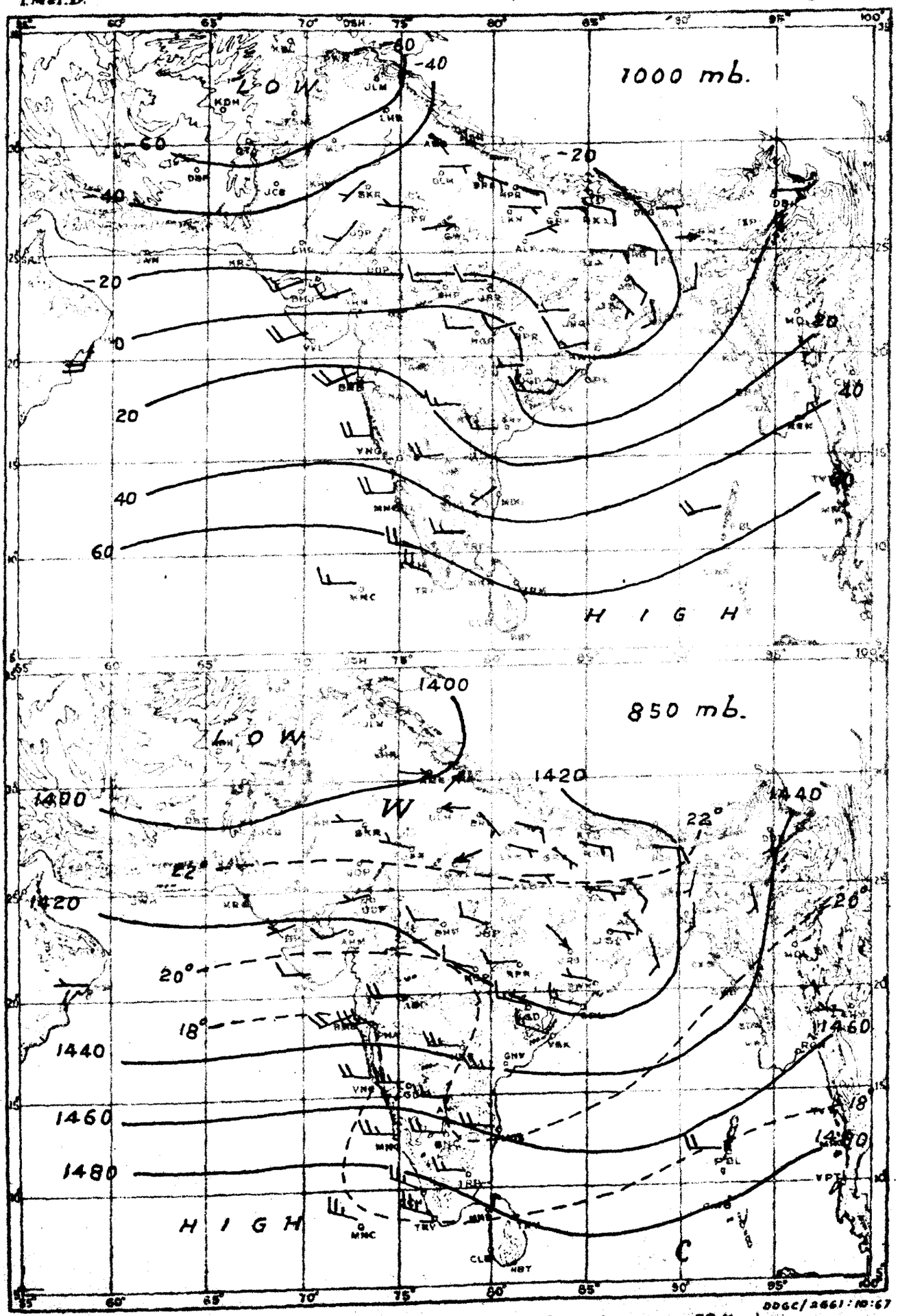
NOTE : Number of observation refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. Surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S8—414 DDG Obs P/67—2-7-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

AUGUST 1964

I.Met.D. Plate I

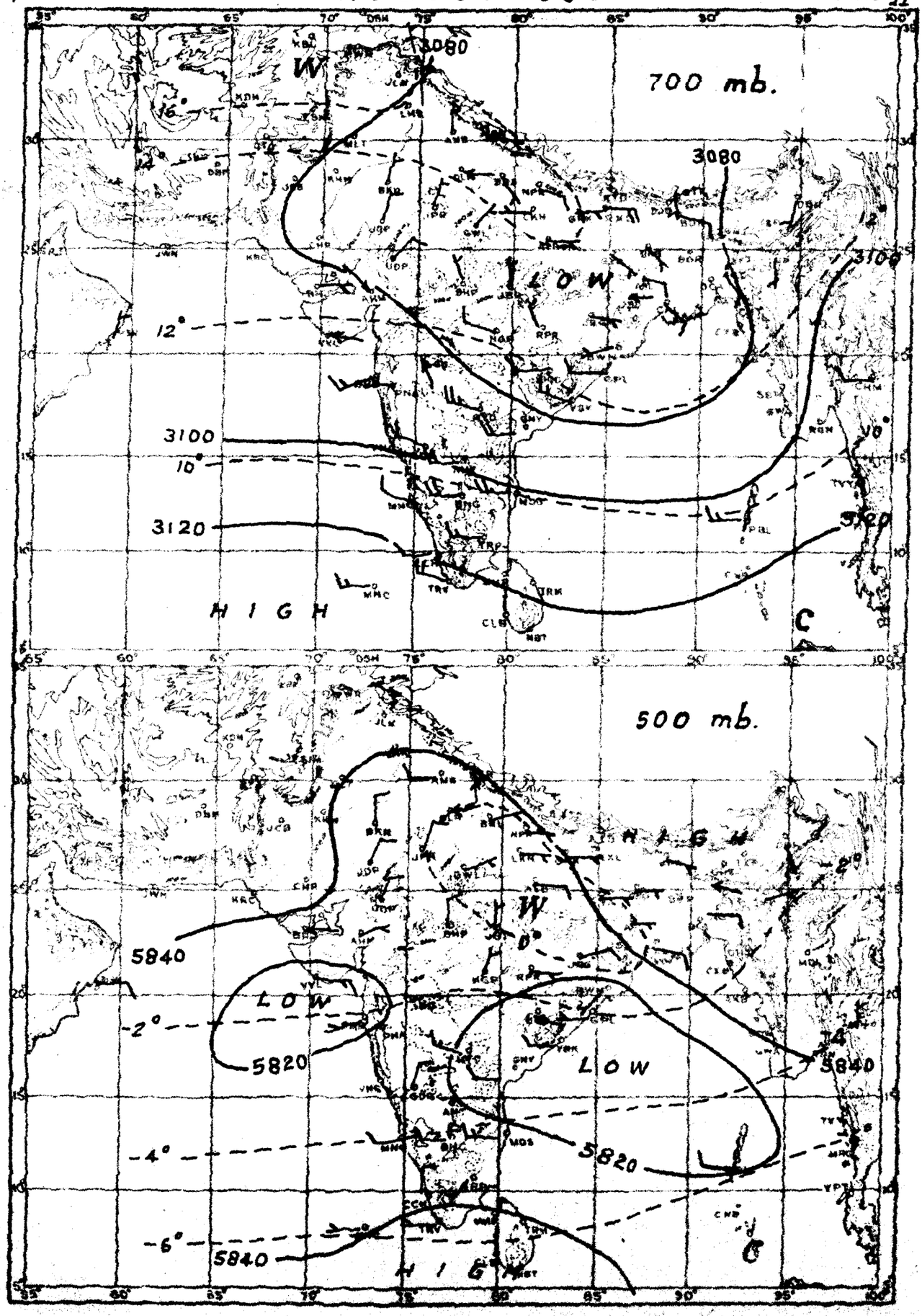


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

---------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **AUGUST 1964** Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

- - - - - Isotherms in degrees centigrade ——— Contours in geopotential metres.

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

September

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Chief features :

(i) Sustained monsoon activity over the country outside northwest India;

(ii) Heavy rains leading to floods in parts of north India, Gujarat State and Andhra Pradesh;

(iii) Development and movement of two Bay depressions during the last week;

(iv) Late withdrawal of the monsoon from northwest India towards the end of the month.

The axis of the monsoon trough lay slightly to the north of its normal position over the Gangetic plains at the beginning of the month. It shifted slowly northwards and was close to the foot of the Himalayas by 5th. But its eastern end shifted abruptly to the north Bay of Bengal the next day. Subsequently a low pressure area formed over the head Bay on 7th. Moving westnorth westwards it persisted over Uttar Pradesh from 11th to 15th and later become unimportant. In association with these situations, there was fairly good activity of the monsoon over northeast India during the first week and the activity extended to east Uttar Pradesh and east Madhya Pradesh during the second week. There was also good rainfall along the foot hills of the Himalayas during this period. Some of the heavy rainfalls recorded were, Purnea 15 cm, on 3rd, Motihari 16 cm and Jalpaiguri 14 cm on 4th, Sibsagar 12 cm, Gondia 15 cm Dharmsala 13 cm on 10th, Kheri 16 cm on 11th, Jalpaiguri 13 cm on 14th, Sultanpur 14 cm on 15th and Cooch Behar 14 cm on 18th. According to press reports, the floods in the river Bagmati in Muzaffarpur district caused widespread damage to paddy crops and disruption of communication services in the first week. Heavy rains also occurred over northwest India on the first two days of the month. Patiala recorded 16 cm of rain on 1st and Nainital 12 cm on 2nd.

A trough of low pressure formed over the southwest Bay of Bengal off the Coromandal coast on 3rd. It moved slowly westward across the south Peninsula into the Arabian Sea off the Malabar-Kanara coasts where it persisted from 6th to 9th. Later it become unimportant. Under its influence, there was good rainfall activity in the Peninsula during the first week. Some of the heavy rainfalls recorded were Kakinada 10 cm on 2nd, Salem 10 cm on 3rd and Bidar 11 cm on 7th. The monsoon continued to be quite active over the Peninsula till the end of the third week, under the influence of another low pressure area. This system formed over the east central Bay of Bengal on 11th and moving slowly westwards across the north Peninsula emerged into the east central Arabian Sea off the Konkan coast by 18th. Thereafter, it recurved northeastwards and moved to Uttar Pradesh by 21st. Later it weakened and become unimportant. Under its influence the monsoon activity was maintained not only over the Peninsula but also over the central parts of the country, Gujarat State and Uttar Pradesh during the 3rd week. Some of the noteworthy amounts of rainfall caused by this disturbance were : Nizamabad 12 cm on 11th, Kurnool 11 cm on 12th, Gulbarga 15 cm on 16th, Karwar 12 cm and Rajkot 11 cm on 18th, Bhira 16 cm on 19th, Ahmedabad 11 cm on 20th and Forbesganj 12 cm on 21st. According to newspaper reports, many of the rivers in Gujarat State were in floods due to the heavy rains and inundated low lying areas and caused damage to many houses. Sixteen persons were feared to have been drowned in the floods of the Khari river in Bhavnagar district. The Bharati dam in Marathwada was reported to have breached due to heavy rains.

The monsoon activity was maintained during the last week as a result of the formation and movement of two Bay depressions. A low pressure area from the east moved into the east central Bay of Bengal on 19th. Moving northwestwards it concentrated into a deep depression over the head Bay by the morning of 23rd with centre near Lat. 21°N and Long. 89°E and crossed coast near Balasore during the night of 23rd-24th. Continuing to move northwestwards it weakened into a low pressure area over the Punjab (I) on 26th and became unimportant by the next day. The depression caused well distributed rainfall with a number of heavy falls over the Bay Islands, north. east India and other parts of north and central India in the course of its movement. Some of the noteworthy amounts of rainfall recorded were : Port Blair 16 cm on 18th, Sagar Island 12 cm on 22nd, Sandheads 16 cm and Chanda 15 cm on 23rd, Sambalpur 12 cm on 24th, Umaria 13 cm and Mukteswar 12 cm on 25th, Aligarh 22 cm, Dalhousie 20 cm, Nautanwa 18 cm, Agra 15 cm, New Delhi, Ambala, Ludhiana and Chandigarh 14 cm each on 26th. According to press reports, the

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very heavy rains caused flooding of vast areas in west Uttar Pradesh and the Punjab (I) where a number of houses were reported to have been damaged.

Another well marked low pressure area moved from the east into the east central Bay of Bengal on 26th. Moving westwards it intensified into a deep depression by the evening of 27th with centre near Lat. 17.0°N and Long. 85.5°E, crossed the coast near Kakinada during the night of 28th-29th and began to weaken. It lay as a well marked low pressure area over Telangana and adjoining north Interior Mysore on the last day of the month. Under its influence, heavy rains occurred in Andhra Pradesh and other parts of the north Peninsula. Some of the heavy rainfalls recorded were Gannavaram 10 cm on 28th, Rentachintala 23 cm, Kurnool 13 cm and Gannavaram 12 cm on 29th and Raichur 15 cm, Sholapur 12 cm, Bijapur 11 cm and Ratnagiri, Jeur and Mahabubagar 10 cm each on 30th. According to newspaper reports, the heavy rains in Andhra Pradesh caused disruption of road and rail communications. More than five hundred fishermen who had left Kakinada and neighbouring villages on 26th and 27th were caught in the high seas but all except a few were later rescued.

The five low pressure systems including the two depressions as mentioned above helped to maintain the monsoon activity over the country almost upto the end of the month. Consequently the withdrawal of the monsoon was delayed. A trough in the high level westerlies which developed over West Pakistan and Afghanistan on 24th persisted there till 28th; but it moved away eastwards across the Western Himalayas by 29th. In its wake, the monsoon withdrew from northwest India by 28th which was late by about a fortnight.

The total rainfall during the month was in large excess in west Uttar Pradesh, coastal Andhra Pradesh, Rayalseema, north Interior Mysore, Kerala and the Arabian Sea Islands, in moderate excess in the Bay Islands, east Uttar Pradesh, the Punjab (I), Madhya Maharashtra, Telangana, coastal and south Interior Mysore, in slight excess in Sub-Himalayan West Bengal and Bihar Plains. It was in slight defect in Gangetic West Bengal, Madhya Pradesh, Gujarat State and the Konkan, in moderate defect in Jammu and Kashmir, east Rajasthan, and Madras State and in large defect in west Rajasthan. It was normal over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was below normal in west Uttar Pradesh, coastal Andhra Pradesh, Rayalaseema and Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was below normal in Orissa and Bihar Plateau. It was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Uttar Pradesh, the Punjab (I), Madhya Maharashtra, Telangana, Rayalsaeema and north Interior Mysore. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Orissa, Uttar Pradesh, Jammu and Kashmir, Madhya Maharashtra, Telangana, Rayalaseema, the Madras State north, Interior Mysore and the Arabian Sea Islands. It was above normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest fall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA 5;
The 29 *November*, 1964.

R. ANANTHAKRISHNAN
for *DIRECTOR GENERAL OF OBSERVATORIES.*

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—SEPTEMBER, 1964 (BHADRA 10—ASVINA 8, 1886 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity 0830 hrs. I.S.T.	Relative humidity 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	255.2	94	31·1	23·8	86	83	6·3	5·7
	—16.8		+0·2	—0·2	+2		+0·4	
2. West Bengal	311.2	102	31·9	25·5	90	88	5·8	6·0
	+7.1		+0·2	+0·1	+1		+0·1	
3. Orissa	260.3	109	31·7	24·3	83	81	6·4	6·3
	+21.1		+0·1	—1·1	+1		+1·2	
4. Bihar	215·0	110	31·9	24·1	83	80	5·5	5·7
	+19·7		+0·4	—0·7	+3		+0·7	
5. Uttar Pradesh	274·5	150	32·0	23·7	85	76	4·3	4·8
	+91·9		—0·8	—0·6	+6		+0·8	
6. Punjab (India) (Including* Delhi)	200·0	140	33·4	23·0	80	63	2·7	2·6
	+57·5		—0·7	—0·3	+7		+0·3	
7. Jammu and Kashmir.	39·9	72	25·1	11·1	70	59	2·9	3·7
	—15·3		0	—0·7	—1		+0·6	
8. Rajasthan	38·0	50	34·2	24·5	73	52	2·6	3·6
	—38·1		+0·4	0	+1		0	
Sub-Division								
1. Bay Islands	662·4	150	28·9	22·9	85	89	7·2	7·0
	+220·4		+0·5	—0·3	+1		+1·0	
2. Assam (Including Manipur, Tripura)	255·2	94	31·1	23·8	86	83	6·3	5·7
	—16·8		+0·2	—0·2	+2		+0·4	
3. Sub-Himalayan West Bengal	564·7	121	31·5	24·0	85	81	5·5	5·4
	+99·1		0	—0·1	+2		+0·7	
4. Gangetic West Bengal	219·0	89	32·0	25·9	92	90	5·9	6·1
	—26·4		+0·2	+0·1	+1		—0·1	
5. Orissa	260·3	109	31·7	24·3	83	81	6·4	6·3
	+21·1		+0·1	—1·1	+1		+1·2	
6. Bihar Plateau	277·3	107	31·4	22·8	82	79	5·5	5·6
	+15·7		+0·4	—1·1	+1		+0·5	
7. Bihar Plains	208·3	112	32·4	25·2	84	81	5·6	5·9
	+21·8		+0.4	—0·3	+4		+0·9	
8. Uttar Pradesh (East)	286·6	145	32·2	24·1	86	78	4·6	5·2
	+90·6		—0·6	—0·7	+5		+0·9	
9. Uttar Pradesh (West)	256·5	158	31·6	23·0	83	73	3·7	4·2
	+93·9		—1·1	—0·6	+7		+0·7	
10. Punjab (India) (Including Delhi).	200·0	140	33·4	23·0	80	63	2·7	2·6
	+57·5		—0·7	—0·3	+7		+0·3	
11. Himachal Pradesh	229·5	..	29·9	14·4	87	53	1·9	2·5
	..		..	..	..		..	
12. Jammu and Kashmir	39.9	72	25·1	11·1	70	59	2·9	3.7
	—15·3		0	—0·7	—1		+0·6	
13. Rajasthan, West	10·3	22	36·1	24.2	73	45	1·9	2·5
	—36·6		+0·5	—0·3	+2		—0·3	
14. Rajasthan, East	65·7	62	32·8	24·7	73	58	3·2	4·6
	—39·5		+0·3	+0·2	0		+0·1	
15. Madhya Pradesh, West	169·2	87	30·8	22·3	85	71	5·1	5·7
	—25·3		+0·3	+0·1	+3		+0·5	
16. Madhya Pradesh, East	206·2	89	30·7	23·2	84	78	5·7	6·2
	—25·5		+0.3	+0.3	+2		+0·7	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	185·5	88	30·7	22·7	85	74	5·4	5·9
	—25·4		+0·3	+0.2	+3		+0·6	
10. Gujarat State	90·9	80	32·2	24·1	84	66	4·3	4·3
	—23·4		+0·2	—0·1	+1		—0·1	
11. Maharashtra State	250·0	108	30·2	22·6	87	74	5·9	6·3
	+17·8		0	+0·1	+4		+0·6	
12. Andhra Pradesh	334·2	208	31·2	23·9	84	75	6·5	6·5
	+173·1		—1·2	—0·5	+6		+1·1	
13. Madras State	66·2	67	32·9	24·4	71	62	5·6	5·8
	—32·1		—0·7	—0·2	0		+1·5	
14. Mysore	294·9	169	28·0	21·0	88	75	7·0	7·2
	+120·6		—1·0	+0·1	+5		+1·4	
15. Kerala	355·7	176	28·5	23·4	91	85	6·5	6·7
	+153·9		—0·6	—0·3	+5		+0·9	
Sub-Division—*Contd.*								
17. Gujarat Region	133·0	82	32·5	24·1	86	65	5·2	4·7
	—29·3		+0.4	+0·1	+3		+0·4	
18. Saurashtra and Kutch	67·5	77	31·9	24·0	83	66	3·9	4·0
	—20·2		+0·1	—0·2	+1		—0·3	
19. Konkan	287·8	89	29·0	23·9	89	82	6·0	6·0
	—36·5		—0·2	—0·1	+3		+0·1	
20. Madhya Maharashtra.	273.6	140	30·1	21·0	87	70	6·1	6·5
	+78·2		—0·3	—0·1	+6		+1·1	
21. Marathwada	184.6	97	30·2	21·7	85	69	6·3	6·6
	—5·1		—0·4	+0·4	+5		+1·0	
22. Vidarbha	199·0	101	31·3	23·3	84	72	5.6	6.3
	+2·4		+0·5	+0·3	+2		+0·4	
23. Coastal Andhra Pradesh.	368·3	251	31·6	24·7	83	78	6·4	6·4
	—221·5		—1·4	—0·7	+5		+1·0	
24. Telangana	280·5	149	30·9	23·2	87	77	6·5	6·7
	+92·8		—0·3	—0·1	+7		+1·1	
25. Rayalaseema	344·4	230	30·8	23·2	82	66	6·9	6.6
	+194·4		—2·1	—0.5	+9		+1·4	
26. Madras State	66·2	67	32.9	24·4	71	62	5·6	5·8
	—32·1		—0·7	—0·2	0		+1·5	
27. Coastal Mysore	394.1	131	28·8	23·5	91	82	7·1	7·3
	+94·3		0	0	+1		+1·1	
28. Interior Mysore, North	392·5	244	28·9	21·1	89	73	7.4	7·2
	+231·7		—1·1	+0.1	+8		+2·4	
29. Interior Mysore, South	168·7	128	27·0	19·8	87	72	6·7	7·1
	+36·7		—1·4	+0·2	+5		+0.7	
30. Kerala	355·7	176	28·5	23·4	91	85	6·5	6·7
	+153·9		—0·6	—0·3	+5		+0·9	
31. Arabian Sea Islands	342·5	220	29·0	24·4	83	81	6·6	6.7
	+186·9		—0·6	—0·7	+3		+2.0	

*Data of Himachal Pradesh not included.

Note:—Entries in the second line for each division and sub-division indicate departures from normal.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29.8	..	31.6	1	24.2	..	22.7	26	271.2	439.4	..	65.0	27	24	..	12.4	10.5	..	0	27	0	0	10	0	0	0	0	0	0
Long Island	29.9	..	32.4	4	23.8	..	21.7	27	283.0	505.2	..	88.4	27	25	..	7.2	5.5	..	0	26	0	0	0	0	0	0	0	0	0
Port Blair	28.9	+0.5	30.5	4	22.9	−0.3	21.4	9	242.3	662.4	+220.4	162.2	19	26	+4.1	21.1	15.9	−0.8	0	29	0	0	6	1	0	0	0	5	0
Car Nicobar	29.4	..	30.8	15	23.6	..	21.4	14	267.3	611.0	..	167.6	14	19	..	7.3	5.4	..	0	25	0	0	2	0	0	0	0	0	0
Nancowry	29.1	..	34.7	27	24.5	..	22.3	6,28	109.2	383.6	..	121.4	6	17	..	12.7	11.2	..	0	24	0	0	1	0	0	0	0	0	0
Kondul	28.3	..	30.0	30	24.0	..	22.0	10	134.0	374.6	..	65.0	8,16	17	..	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Assam (including Manipur, Tripura).																													
Pasighat	30.5	..	36.2	25	22.3	..	20.0	28	89.8	465.1	..	128.0	17	13	..	5.4	5.5	..	0	17	0	0	4	0	0	0	0	0	0
Dibrugarh (Mohanbari).	30.5	+0.7	35.3	25	22.3	−1.1	19.7	18	79.8	312.0	−39.8	46.3	8	20	+4.6	5.3	3.5	+0.4	0	21	0	0	13	0	0	0	0	0	0
Digboi †	31.5	.	..	..	24.2	..	..	..	52.2	160.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	30.8	−0·7	35.3	25	22.9	−1.0	21.3	18	111.7	412.9	−60.4	80.2	8	17	+4.0	6.4	4.3	..	0	21	0	0	13	0	0	0	0	0	0
Sibsagar	31.4	+0.5	35.0	25	24.9	+0.3	22.6	18,30	26.0	293.4	−7.1	120.8	7	14	−0.8	5.0	4.2	+1.3	0	20	0	0	14	0	0	0	0	0	0
Gohpur	31.2	..	35.0	25	24.5	..	21.6	20	28.2	403.4	..	78.4	16	15	..	4.6	3.0	..	0	16	0	0	2	0	0	0	0	0	0
Majbat	31.7	..	35.3	27	24.3	..	22.9	22	99·0	361.4	..	90.6	21	10	..	0.5	3.7 (c)	..	0	12	0	0	3	0	0	0	0	0	0
Jorhat (Aerodrome)	32.1	..	35.6	24	24.6	..	22.5	18	23.2	190.9	..	41.2	13	14	..	..	..	..	0	19	0	0	20	0	0	0	0	0	0
Tangla	32.1	..	36.4	26	23.9	..	22.7	20	108.4	349.7	..	84·6	5	9	..	5.4	4.7	..	0	9	0	0	0	0	0	0	0	0	0
Tezpur	31.4	−0·2	35.3	25	25.1	+0.4	23.2	18	44.8 (f)	105.0	−105.3	22·0	18	9	−3.7	5.6 (f)	3.3	+1.0	0	14	0	0	5	0	0	0	0	0	0
Golaghat	32.1	..	36.1	25	24.3	..	22.4	18	132.2 (b)	181.3 (R)	..	..	..	..	..	4.4 (c)	2.8	..	..	..	0	0	0	0	0	0	0	0	0
Rangia	32.8	..	..	..	24.7	..	..	..	73·2	144.4	..	55.9	9	8	..	6.8	4.5 (c)	..	0	8	0	0	1	0	0	0	0	0	0
Chapamukh	32.8	..	36.0	27	25.4	..	24.0	5	86.6	244.4	..	38.8	7	15	..	8·0	5.9 (b)	..	0	19	0	0	0	0	0	0	0	0	0
Goalpara	31.5	..	35.3	27	24.1	..	21.2	18	75.4	332.2	..	105.8	18	10	..	5.7	2.9	..	0	12	0	0	0	0	0	0	0	0	0
Gauhati	..	..	..	..	..	..	..	..	..	167.7	+0.3	61.0	3	10	+0.7	..	..	..	0	15		..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	31.9	0	35.5	15	24.7	+0.5	23.3	30	60.4	115·4	−52.0	21.0	8	13	+3.7	6.9	4.3	..	0	18	0	0	22	1	0	0	0	0	0
Dhubri (Rupsi)	31.1	..	35.3	26	24.0	..	21.3	14	123·4	436.9	..	115.9	18	13	..	4.2	3.3	..	0	15	0	0	18	0	0	0	0	0	0
Dhubri	30·7	+0.9	34.7	27	25.8	+0.6	23.9	19	61.0	259.2	−96.9	50.0	2	11	−1.5	8.0	6.6	+1.3	1	12	0	0	6	0	0	0	0	0	0
Lumding	32.8	+1.4	36.0	25	23.7	−0.3	21.3	29	42.6	272.0	+84.5	55.4	9	16	+5.2	4·2	2.9	..	0	18	0	0	0	0	0	0	0	0	0
Tura	28.9	..	32.9	27	19.6	..	17.7	19	255.9	402.3	..	68.7	3	17	..	7.0	3.9	..	0	18	0	0	8	0	0	0	0	0	0
Nowgong	28.3	..	31.3	28	20.3	..	19.1	29	64·4	324.2	+72.2	37.8	15	18	+5.1	..	..	..	0	20	0	0	3	0	0	0	0	0	0
Silchar (Kumbhirgram).	32.1	..	35.6	24	24.0	..	22.6	7	63.6	515.6	..	128.2	9	18	..	5.5	5.8	..	1	22	0	0	12	2	0	0	0	0	0
Silchar	30.2	−1.9	35.1	27	24.8	+0.2	22.8	27	120.2	400.6	+11.5	72.0	9	15	−1.2	2.6	1.4	−0.7	1	23	0	0	12	0	0	0	0	0	0
Imphal (Tulihal)	29.4	+0.6	31.9	28	19.7	−0.8	18.3	18	35.3	95.0	−40.7	26.2	22	7	−3.4	7.0	4.8	+0·4	2	13	0	0	3	1	0	0	0	0	0
Kailashahar	32.0	..	35.6	28	24.4	..	22.2	24	91.3	155.4	..	38.0	9	13	..	8.7	6.1	..	1	22	0	0	18	2	0	0	0	0	0
Agartala	31.8	+0.4	34.1	28	23.7	−0.8	21.5	28	106.5	305.2	+22.2	71.9	28	12	−1.7	13.5	7.5	+1.1	2	17	0	0	22	1	0	0	0	0	0
Sub-Himalayan West Bengal.																													
Baghdogra	31.3	−0.4	34.4	28	23.8	−0.1	21.6	19	189·0	527.8	+94.1	179.4	14	17	+2.8	11.9	9.1	+4.0	0	21	0	0	14	1	0	0	0	0	0
Jalpaiguri	30.8	−0.4	34.4	27	24.2	−0.2	22.4	19	126·2	942.8	+403.8	137.8	4	19	+2.6	7.2	5.1	+2.7	0	20	0	0	13	0	0	0	0	0	0
Cooch Behar	31.1	..	34.4	27	24.3	..	22.3	18	70.2	590.0	−7.4	140.4	18	16	−1.1	5.3	3.7	..	1	19	0	0	18	0	0	0	0	0	0
Balurghat	32.5	..	35.0	28	25.4	..	23.5	28	113.9	199.6	..	42.2	3	10	..	7.0	4.5	..	0	17	0	0	1	0	0	0	0	0	0
Malda	32.4	+0.7	34.6	28	..	..	..	..	97.6	198.4	−94.2	44.0	28	10	−1.6	3.4	2.7	−3.6	0	12	0	0	12	0	0	0	0	0	0
Magnetic West Bengal.																													
Berhampore	32.9	+0.9	35.4	13,28	25·2	−0.7	23.3	6	154.7	234.2	+2·0	51.4	5	10	−1.5	4.9	3.2	−0.8	0	16	0	0	1	0	0	0	0	0	0
Suri	31.9	..	34.1	28	24.5	..	22.3	19	..	190.5	..	62.5	19	14	..	..	5.8	..	0	18	0	0	6	0	0	0	0	0	0
Asansol	32.4	+0.2	34.6	7	25.1	+0.1	23.7	7	94.0	241.5	+32.0	62.0	7	15	+4.3	6·4	4.3	−2.1	1	17	0	0	18	1	0	0	0	0	0
Shanti Niketan	32.0	..	34.4	28	25.2	..	23.7	20	130·8	167.4	..	42.2	8	10	..	9.3	7.5	..	1	20	0	0	14	0	0	0	0	0	0
Krishnanagar	33.1	+0.8	35.3	27	25.9	+0.3	24.5	24	104.7	117.1	−85.1	42.0	7	11	−0.2	6.6	4.1	−0.4	0	15	0	0	12	0	0	0	0	0	0
Purulia	31.6	+0.2	33.3	14,15	26.3	+2.0	21.9	8,28	180.2	254.0	−15.2	98.0	8	14	+1.0	7.1	5.2	+0.4	0	17	0	0	10	0	0	0	0	0	0
Bankura	32.7	..	34.6	15	24.9	..	23.7	7	154.2	242.6	+42.7	74.5	5	14	+3.0	4.5	4.3	..	0	15	0	0	0	0	0	0	0	0	0
Burdwan	32.8	+0.6	34.0	5 days	27.1	+1.2	..	..	57.0	159.1	−64.4	32.3	5	9	−2.3	8.6	7.8	+4.9	0	11	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	32.6	..	34.3	27,28	25.7	..	22.1	7	73.6	94.0	..	19.6	21	9	..	..	..	..	0	11	0	0	20	1	0	0	0	0	0

† Observations for 20 days (b) Mean of 29 days. (c) Mean of 28 days. (f) Mean of 25 days. (i) Mean of 19 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rain days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Duststorm	Ground frost	Gale	Squall	Tide or surge
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*Contd.*																													
Calcutta (Dum-Dum).	32.4	+0.5	33.5	13	25.0	+0.1	24.3	25	115·3	164·4	−122.0	64·8	19	9	−4.4	10·1	7.4	−1.0	0	13	0	0	19	2	0	0	0	0	0
Calcutta	32.4	+1.2	34.1	27	26.1	+0.5	24.7	4 days	121·1	195·1	−57.6	37·4	24	12	−1.2	9.2	5.9	+1.4	0	16	0	0	17	0	0	0	0	0	0
Midnapore	31.5	−0.6	33·2	20	25.2	−0.4	23.2	9,24	135·2	259·1	+43.0	62·4	7	14	+2.1	6.4	4.6	+1.5	0	15	0	0	5	0	0	0	0	0	0
Contai	31.0	−0.1	33.4	23	25.8	−0.1	24.1	6,24	76·7	204.7	−140.1	50·3	24	13	−1.1	10.7	8.4	−0.2	0	18	0	0	0	0	0	0	0	0	0
Sagar Island	30.3	−0·6	31.6	21	26.4	0	23.8	24	175·1	355·3	+92.4	115·4	22	15	+2.1	17.9	16·9	+3.4	1	21	0	0	9	0	0	0	0	0	0
Sandheads	31.4	..	34.8	14	25.6	..	22.9	23	11·5	329·8	+208.1	163·0	23	9	+0.6	..	..	..	2	11	0	0	3	0	0	0	0	0	0
Orissa																													
Baripada	32.2	..	34.1	15,19	24.4	..	23.3	30	120·4	243·8	..	45·8	14	14	..	3.9	2.5	..	0	19	0	0	16	0	0	0	0	0	0
Jharsuguda	31.6	+0.3	33·6	15	24.2	−0.2	22.4	7	62·1	154·7	−101·0	40·1	24	11	−2.1	7.5	5.9	−1·3	0	14	0	0	15	0	0	0	0	0	0
Keonjhargarh	29·7	..	35·8	1	23·1	..	21·3	30	74·5	263·2	..	77·0	23	12	..	7·3	1·4	..	0	16	0	0	4	0	0	0	0	0	0
Balasore	31·3	−0·3	33·3	6	24·2	−1·4	22.0	28	136·0	271·6	+90·7	53·1	6	13	+0·1	9·2	7·0	+3·0	0	17	0	0	13	0	0	0	0	0	0
Sambalpur	32·2	+0·7	33·3	14	19·6	−5·3	17.8	25	38·5	254·0	+24 1	123·5	24	11	−0·4	5·6 (c)	6·2 (d)	+1·7	0	11	0	0	0	0	0	0	0	0	0
Angul	31·6	0	34·3	6,23	24·7	0	23·5	9	155·8	299·2	+112·5	50·0	24	17	+5·9	9·0	7·2	+1·1	0	22	0	0	11	1	0	0	0	0	0
Cuttack	32·5	+0.3	34·5	6,14	25·5	+0·1	23·2	24	90·2	222·2	−25·7	67·4	24	12	−0·6	6·3	4·2	+1·3	2	16	0	0	9	0	0	0	0	0	0
Gopalpur	31·5	−0·1	35·9	16	24·9	−0·8	22·5	28	132·8	248·4	+21·8	71·8	24	11	−3·1	11·4	9·4	+1·2	0	14	0	0	1	0	0	0	0	0	0
Balasore	31 8	..	34·1	2	24·4	..	22·8	19	89·7	170·9	..	46·2	19	12	..	6·1	6·6	..	0	16	0	0	5	0	0	0	0	0	0
Phulbani	29·8	..	32·1	1	22·7	..	21·2	4,19	88·8	182·7	.	56·0	7	13	..	3·0	1·7	..	1	17	0	0	6	0	0	0	0	0	0
Titlagarh	32·4	..	33·8	15	24·8	..	22·8	21	84·6	203·0	..	67·2	21	14	..	5·2	3·6	..	0	15	0	0	4	0	0	0	0	0	0
Bhubaneswar	31.4	0	33·8	6	24·8	−0·3	22·9	7	108·0	299·2	−5·8	54·8	24	16	+2·6	14·3	10·6	−0·3	2	23	0	0	16	2	0	0	0	1	0
Puri	31·3	−0·1	32·8	15, 16 20	25·1	−1·4	21·6	4	88·6	274.2	+44·3	43·4	3	11	−1.1	18·5	16·9	+3·6	0	15	0	0	4	0	0	0	0	0	0
Gopalpur	31·5	+0·1	33·1	15	25·4	−0·4	23·4	22	91·7	219·0	+29·0	64·1	28	13	+3·5	15·6	11·8	+1·3	1	18	0	0	10	0	0	0	0	1	0
Koraput (R)																													
Bihar Plateau																													
Dumka	32·2	+0·5	34·3	14	24·9	+0·1	23·9	4 days	49·4	168·6	−75·0	72·6	8	8	−4·5	17·0	10·0	+6·9	0	15	0	0	6	0	0	0	0	0	0
Daltonganj	32·7	+0·6	36·2	14	24·2	+6·1	22·4	26	95·3	244·4	+63·0	43·3	9	13	+3·7	4·4	4·0	−0·5	0	14	0	0	1	0	0	0	0	0	0
Hazaribagh	29·2	−0 1	32·1	14	22·5	+0·1	21·0	27	95·3	204·6	−22·5	50.1	9	13	+1·5	10·0	8·2	−0·3	1	15	0	0	13	2	0	0	0	0	0
Dhanbad	31·4	..	33·3	7	24·9	..	23·5	23,24	108·2	196·0	..	40·4	5	9	..	4·1 (f)	4·5 (i)	..	0	13	0	0	4	0	0	0	0	0	0
Ranchi	30·2	+1·3	30·8	1	20·0	−2·2	19·6	20	98·8	182·8	−53·4	50 3	24	12	−0·3	6·6	5·4	−1·0	0	13	0	0	0	0	0	0	0	0	0
Ranchi (Aerodrome.)	28 8	..	31·4	14	21·7	..	20·4	27	129·6	229·4	..	43·5	24	14	..	13·0	9·9	..	1	16	0	0	9	1	0	0	0	0	0
Jamshedpur	32·4	+0·2	34·0	18	21·5	−3 8	18·9	7	166·0	265·1	+84·5	101 7	8	13	+1·8	5·8	4·1	+0·9	0	18	0	0	7	0	0	0	0	0	0
Jamshedpur(P.B.O)	31·8	..	33·7	13	25·0	..	23·6	8	151·2	272·2	.	60·2	7	16	..	7·4	3·3	..	0	20	0	0	20	1	0	0	0	0	0
Chaibasa	31 6	+0·2	33·5	15,19	23·5	−0·9	21·9	21	193·8	303·0	+102·1	60·4	24	12	+0·4	4·6	2·8	+0·2	0	15	0	0	9	0	0	0	0	0	0
Bihar Plains																													
Motihari	31 7	−0·3	33·9	14	24·8	−0·2	22·4	4	101 5	290·3	+60·4	157·0	4	8	−1·1	6 7	4·3	−0·5	0	13	0	0	1	0	0	0	0	0	0
Forbesganj	32·1	..	35·3	8	24·0	..	20·8	26	103·2	364·6	..	117·0	21	15	..	8·5	5·7	..	0	18	0	0	16	0	0	0	0	0	0
Darbhanga	32·7	+0·9	35·5	14	25·1	0·7	23·6	17	90·8	199·2	−35 5	63 0	4	11	+1·6	4·5	5·2	+1·6	0	12	0	0	5	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..		..	..	..	78·8	−144·9	19·0	21	7	−2·5	..	..	..	3	10	0	0	0	0	0	0	0	0	0
Chapra	32·5	..	35·0	14	26·0	..	22·9	21	99·9	214·4	+24·4	57·1	16	12	+3·3	5·4 (c)	4·2 (d)	..	0	14	0	0	3	0	0	0	0	0	0
Purnea	32·0	+0·3	37·4	7	24·4	−0·8	22·4	21	38·7	313·3	+18·7	150·4	3	9	−2·5	6·6	4·5	+0·4	0	14	0	0	9	0	0	0	0	0	0
Patna	32·5	+0·4	34·6	12,14	26·2	+0·1	24·6	18	54 4	122·2	−96·2	25·6	4	12	+2·8	6·9	6·9	+1·6	0	18	0	0	3	0	0	0	0	0	0
Patna Aerodrome	32·1	..	34·5	14	25·1	..	23·4	27	38·2	77·4	..	13·3	3	10	..	..	..	..	1	16	0	0	19	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	57·0	−151·0	14·3	24	5	−4·5	..	..	..	2	11	0	0	0	0	0	0	0	0	0
Bhagalpur	33·0	+0·5	35·6	14,30	25·7	−0·2	24·2	7	36 6	363·4	+117·8	68·0	2	14	+3·1	6·3	4·8	−1·2	0	17	0	0	23	0	0	0	0	0	0
Sabaur	32·5	+0·7	35·2	14	24·8	−0·9	23·0	4,7	43·4	266·8	+54·5	57·0	8	13	+3·2	8·2	6·5	−0·7	0	17	0	0	18	0	0	0	0	0	0
Jamui	32·9	..	35·2	15	25·4	..	20·1	20	79·0	274·8	..	61·0	21	12	..	4·7	4·5	..	0	14	0	0	0	0	0	0	0	0	0
Dehri	32·2	..	34·4	4 days	25·9	..	22·5	7	110·1	173·2	−14·5	40·1	4	11	+2·1	5·0	3·9	..	0	12	0	0	11	0	0	0	0	0	0
Gaya	32·6	+0.1	35·5	14	25·6	+0·5	22·2	2	93·2	218·7	+28·2	77·3	21	11	+1·7	9·5	7·9	+0·7	0	14	0	0	20	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri	31·4	−1·3	34·6	24,30	24·6	−0·1	20·0	26	152.3	452.3	+297·8	159·3	11	12	+4·7	5·2	3·3	+0·3	0	15	0	0	4	0	0	0	2	5	0
Bahraich	31·8	−1.1	35·4	8	24 7	0	21.0	26	228·8	414·2	+196·3	81·4	3	14	+6·7	7·9	5·7	+2·5	1	15	0	0	2	0	0	0	0	0	0
Nautanwa	33·2	..	36·0	19	22·7	..	19·6	26	46.4	651.2	−	171·0	15	11	..	8·0	5·1	..	0	13	0	0	0	0	0	0	0	0	0
Hardoi	32·0	−1·1	35·0	24	23·2	−1·8	18·3	26	89·5	228.0	+42·4	58.0	11	9	+2·4	5·8	5·6	−0·2	0	14	0	0	2	0	0	0	0	0	0
Unnao	31·9	−0·9	35.5	19	24·2	−0·9	19·8	26	333·0	496·2	+264·0	148·2	10	12	+1·8	6·2	5·2	+0·2	0	13	0	0	3	0	0	0	0	0	0
Lucknow	32·1	−1·2	35·6	15	22·2	−2·5	17·6	26	67·5	213 5	+25·5	54.6	10	10	+2·1	3·1	3·4	+0·7	0	12	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (c) Mean of 26 days (c) Mean of 28 days. (i) Mean of 22 days. (d) Mean of 27 days. (R) Register not received. (f) Mean of 25 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*Contd*																													
Lucknow (Amaui)	32·1	—1·2	35·5	15	23·7	0	19·2	26	61·4	161·7	—26·3	35·4	25	10	+2·1	10·0	7·9	..	0	12	0	0	8	0	0	0	0	0	0
Faizabad	31·9	..	35·0	15	24·8	..	20·3	26	154·7	429·6	..	87·3	10	13	..	4·5	2·5	..	0	17	0	0	9	0	0	0	0	0	0
Gorakhpur	32·6	+0·2	36·6	25	23·9	—1·2	20·5	26	118·2	277·8	+61·4	55·4	15	13	+3·7	..	..	..	2	16	0	0	0	0	0	0	0	0	0
Kanpur	32·9	+0·2	34·9	15	25·4	+0·8	20·3	26	119·2	228·9	+56·4	78·0	25	10	+2·7	11·8	8·1	—0·1	0	11	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrom)	32·2	..	35·3	19	25·0	..	20.6	26	171·9	326·6	..	101·6	25	10	..	..	..	..	0	12	0	0	10	0	0	0	0	0	0
Sultanpur	32·0	..	35·0	30	23·7	..	21.0	21	175·6	423·2	..	140·6	15	13	..	4·3	3·0	..	0	13	0	0	8	0	0	0	0	0	0
Azamgarh	32·0	..	35·4	13	24·7	..	22·4	14,15	252·4	431·0	..	91·0	1	12	..	..	..	..	0	13	0	0	5	0	0	0	0	0	0
Fatehpur	32·2	—0·6	35·3	15	24·4	—0·4	20·4	26	102·7	156·8	+16·9	38·1	2	9	+0·4	6·1	3·7	—0·6	0	12	0	0	3	0	0	0	0	0	0
Ballia	32·3	..	34·5	8,12	24·6	..	20·7	26	64·2	311·4	..	70·4	21	13	..	5·2	3·8	..	0	14	0	0	1	0	0	0	0	0	0
Banda	32·7	..	35·7	30	24·9	..	21·4	26	107·5	270·8	..	114·6	1	10	..	3·8	2·4	..	0	12	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli).	32·8	—0·3	35·6	15	24·5	—0·3	21·3	26	179·2	234·4	+22·1	50·4	16	12	+2·5	3·7	4·6	—1·4	0	16	0	0	6	0	0	0	0	0	0
Varanasi (Babatpur).	32·3	0	34·9	14,15	25·1	—0·3	22·9	26	164·1	298·8	+37·8	66·6	11	13	+3·0	8·1	5·4	—3·3	0	17	0	0	15	0	0	0	0	0	0
Varanasi	32·6	—0·2	36·3	15	23·9	—1·3	21·1	26	172·0	276·8	+93·2	101·0	9	9	+0·3	6·7	6·6	+2·1	0	9	0	0	1	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	22·7	..	25·0	24	15·3	..	12·7	..	105·1	326·6	..	117·0	26	13	..	..	..	..	2	18	0	0	1	12	0	0	0	0	0
Tehri	31·6	..	34·9	8	21·2	..	18·4	26	38·7	245·3	..	68·2	26	8	..	3·1	1·7	..	0	11	0	0	0	2	0	0	0	0	0
Dehra Dun	28·8	—0·5	31·1	24	19·8	—1·0	15·4	27,30	140·2	383·6	+113·9	82·1	9	15	+4·1	3·7	2·7	+0·1	0	19	0	0	10	0	0	0	0	0	0
Mansiari	19·8	..	23·1	15	12·8	..	..	..	..	472·8	..	77·6	2	19	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Roorkee	31·4	—1·1	34·0	9,15,16	22·9	+0·1	19·8	26	85·9	274·9	+113·1	99·8	25	10	+4·0	6·7	5·0	+2·3	0	10	0	0	1	0	0	0	0	0	0
Najibabad	32·0	..	34·6	9,24	20·9	..	17·7	26,28	40·2	188.2	..	81·8	25	7	..	5·7	6·2	..	0	7	0	0	3	0	0	0	0	0	0
Meerut	32·7	—0·5	37·0	18	22·6	—1·1	19·8	6days	..	141·6	—7·2	123·2	26	3	—2·1	..	5·9	..	0	3	0	0	0	0	0	0	0	0	0
Bareilly	31·6	—1·1	35·2	29	24·0	—0·3	20·3	30	135·8	226·0	+35·5	79·0	21	9	+2·2	8·4	6·1	+3·5	0	14	0	0	4	0	0	0	0	0	0
Aligarh	31·2	—2·3	35·0	19	24·1	—0·3	20·5	26	210·3	360·0	+225·4	220·6	26	6	—0·1	9·8	7·2	+0·9	2	8	0	0	0	0	0	0	0	0	0
Mainpuri	32·6	—1·2	36·9	19	..	..	..	..	96·1	141·1	+11·8	54·4	14	8	+1·6	..	..	..	0	9	0	0	4	0	0	0	0	0	0
Agra	32·7	—1·1	36·1	20	24·3	—0·3	18·5	26	216·5	314·4	+198·1	154·7	26	8	+2·4	7·9	6·6	+1·1	0	10	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	33·0	..	36·0	15	23·9	..	17·8	26	178·7	240·2	..	111·3	26	9	..	..	..	..	0	10	0	0	3	0	0	0	0	0	0
Orai (R)																													
Jhansi	31·9	—1·3	35·0	23	23·0	—1·1	20·0	26	86·1	210.1	+60·2	48·3	25	10	+3·0	4·1	4·4	—0·4	0	11	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	31·6	—1·2	34·8	16	20·8	—1·6	15·4	27	16·3	244·9	+73·6	60·5	1	8	+0·5	..	..	..	0	8	0	0	11	0	0	0	0	0	0
Amritsar (Rajasansi).	34·0	—0·4	37·6	16	23·4	0	18·1	28	0·9	128·5	+33·4	98·0	2	4	+0·2	9·8	7·6	+0·5	0	5	0	0	5	0	0	0	0	0	0
Adampur (Aerodrome).	33·5	..	37·5	16	22·5	..	17·2	28	28·7	134·3	..	101·3	26	5	..	..	..	..	0	5	0	0	6	0	0	0	0	0	0
Ludhiana	33·9	—1·0	38·4	16	23·2	—0·6	..	..	58·0	192·4	+92·1	143·2	26	8	+4·2	2·7	3.6	+1·7	0	10	0	0	3	0	0	0	0	0	0
Ferozepur	33·8	..	37·0	15,16	23·4	..	18·8	29	16·6	84·2	..	67·6	2	2	..	3·3	2·3	..	0	3	0	0	1	0	2	0	0	0	0
Halwara (Aerodrome).	33·2	..	36·9	15	23·2	..	17·2	26	9·9	151·6	..	125·3	26	5	..	..	..	..	0	6	0	0	4	0	0	0	0	0	0
Chandigarh	31·5	—1·0	35·5	25	23·4	+1.2	17·6	26	151·7	248·1	+21·7	140·7	26	8	+1·3	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Ambala	33·5	—0·9	36·6	16	23·0	—0·3	18·8	25,26, 27	188·8	271·4	+141·6	136·0	26	10	+5·3	8·0	6·8	+3·3	1	10	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	32·2	..	35·5	16	22·9	..	18·3	29	86·2	270·4	..	147·5	26	9	..	..	..	..	0	12	0	0	7	0	0	0	0	0	0
Patiala	32·9	..	36·8	16	23·7	..	18·0	26	61·6	302·4	+79·6	160·0	1	8	+2·0	7·3	6·0	..	0	8	0	0	6	0	0	0	0	0	0
Bhatinda	35·9	..	38·9	14	23·0	..	17·4	30	0	22·2	..	15.0	1	2	..	1·0	1·8	..	0	2	0	0	0	0	0	0	0	0	0
Karnal	32·2	..	35·5	16	22·8	..	18·0	25	68·0	160·0	..	130·0	26	3	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Hissar	34·8	—1·1	38·4	15	24·2	+0·6	19·0	29	20·0	37·2	—34·2	17·0	3	3	—0·1	6·6	5·5	—1·1	0	5	0	0	1	0	0	0	0	0	0
New Delhi (Safdarjung).	32·3	—1·4	36·5	16	23·0	—1·3	17·3	26	55·4	181·5	+58·4	142·2	26	4	—0·6	12·7	8·9	—0·1	0	4	0	0	2	0	0	0	0	0	0
Palam (Aerodrome).	32·3	..	35·7	16	23·3	..	19·6	30	32·0	185·3	..	124·5	26	4	..	..	..	..	0	5	0	0	2	0	0	0	0	0	0
Himachal Pradesh.																													
Mandi	29·6	—0·3	32·9	16	16·1	—3·2	13·5	30	61·1	175·7	—47·7	58·6	21	10	—2·9	2·3	1·6	—0·3	0	13	0	0	0	0	0	0	0	0	0
Bilaspur	30·3	..	33·6	16	12·7	..	7·6	28,30	110·4	283·4	..	91·5	26	10	..	1·5	1·4	..	0	12	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Jammu and Kashmir.																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	2·9	—14·6	2·0	2	0	—1.3	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Sonamarg	..	..	..	..	..	..	..	..	..	55.7	—21.8	11.2	2,4	5	—2.1	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Leh	22.6	+1·7	27·1	15	4·3	—1·1	0	30	2.0	8·1	+1·2	4·7	2	2	+1·1	4·9	4·9	+2·0	1	3	0	0	0	0	0	0	0	0	0
Srinagar	27.4	—1·2	32·0	1,16	13·3	+1·4	8·0	25	12·8	17·8	—21·1	12.5	27	1	—2·5	4.9	4.3	+0.8	0	6	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome).	26.1	..	30·1	15	13.4	..	6·1	24	12·7	15·8	..	13·2	27	1	..	..	..	..	0	3	0	0	5	0	0	0	0	0	0
Gulmarg	17·4	—0.1	22.8	9	5·1	—1.1	—0.3	24	25.6	36.0	—30.5	9.2	27	4	—1.3	7·2	4·1	—0.6	0	8	0		1	2	0	0	0	0	0
Qazigund	24·9	..	29·6	1	12.0	..	7·4	25	29·6	68·3	..	25·0	27	4	..	5·2	5.0	..	0	4	0	0	4	0	0	0	0	0	0
Banihal	26.2	..	28.8	9	13.2	..	7.1	24	18·8	56·7	..	27·2	26	3	..	—	..	..	0	3	0	0	2	0	0	0	0	0	0
Jammu	32.8	—0.5	36.2	16	21.9	—2.0	17.8	27	5.3	118·7	—5.0	102·0	1	4	—0.7	4.8	5·7	..	0	4	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome).	32·1	..	35.0	16	23.4	..	18.3	28	6·6	189·8	..	130·1	1	3	..	..	..	..	0	6	0	0	7	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	36.8	+0.4	38.9	19	23.6	—1.3	19.1	36,30	0.6	3·0	—92.4	2·4	2	0	—3·6	5.4	3.9	—0.9	0	2	0	0	1	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	36.9	..	39.3	17	..	..	—	..	0	0	..	0	..	0	..	6.9	6.9	..	0	0	0	0	0	0	0	0	0	0	0
Churu	35.1	..	38.0	17	23·7	..	18.7	17	4·6	107·6	..	69 0	2	2	..	10.6	7.2	..	0	5	0	0	1	1	0	0	0	0	0
Bikaner	36.5	+0.2	39.9	19	24.8	+0·3	19.1	30	0	0	—33.3	0	..	0	—2.1	7.3	6.1	—2.6	0	0	0	0	0	0	0	0	0	0	0
Nagaur	35.4	..	38.2	17	24.1	..	21.9	27	5.3	5.3	..	5.3	22	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Phalodi	35.7	..	38.6	17,20	22.9	..	20.0	30	38.4	38·4	+12.0	38.4	21	1	—1.0	15 0	12·9	..	0	1	0	0	0	3	0	0	0	0	0
Jaisalmer	36.9	..	41.0	19	23.9	..	20.7	30	0	0	..	0	..	0	..	16.7	14.8	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	35.4	+0.8	39.8	17	24.3	+0.5	22.4	8,30	7.9	9·8	—51.2	4·4	10	2	—0.8	11.2	8 7	—3.0	0	4	0	0	2	0	0	0	0	0	0
Barmer	35·6	+0·5	39·7	19	24·1	—0·2	21.2	24	0	0·2	—18.3	0.2	2	0	—1·4	3·3	2·5	—6·7	1	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	33.7	..	38.0	22	25·8	..	24.0	15	58·2	104·5	..	59·4	20	4	..	2·3	3.0	..	1	5	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani (R)	33.7	..	36.1	20	21·8	..	17.0	30	0	24·6	..	14·0	2	2	..	8·1	5.5	..	0	2	0	0	0	0	0	0	0	0	0
Sikar	33.4	..	35.6	24	24.3	..	21.2	29	88.0	118·4	..	43·8	2	6	..	3.2	1.6	..	0	9	0	0	0	0	0	0	0	0	0
Alwar	33.1	—0.8	35.8	16	22·9	+0.2	20.5	29	48.6	57.8	—24·0	37.5	12	4	—0.7	..	..	..	1	7	0	0	4	0	0	0	0	0	0
Jaipur (Sanganer).	33.0	..	36.5	20	24.0	..	19.7	30	139.8	209.8	..	54.0	20	9	..	5.0	3.5	..	0	10	0	0	2	0	0	0	0	0	0
Dholpur	32.7	+0.5	35.9	16	23·4	—0.2	19.0	30	22.8	82.2	+13.6	54.6	1	2	—2.0	10.4	7.6	+1.0	0	6	0	0	2	0	0	0	0	0	0
Ajmer	33.9	..	36.0	16	23.9	..	19.4	29	34.3	42·9	..	24·0	12	3	..	8·5	7·5	..	0	6	0	0	2	0	0	0	0	0	0
Tonk	33.0	..	35.5	16	21.8	..	19.6	27	0·7	26·3	..	15·6	1	2	..	5.0	2.7	..	0	5	0	0	2	0	0	0	0	0	0
Bhilwara	33.8	..	36.4	16	24.3	..	21.4	30	2·9	64·8	..	57·3	1	3	..	13.9	10.0	..	0	5	0	0	2	0	0	0	0	0	0
Kota (Aerodrome)	33.4	—0.1	36.4	16	25.2	+0.5	23·2	1	1·6	44·7	—74·9	42·2	1	1	—4.7	10.1	7.2	+3·0	0	3	0	0	1	0	0	0	0	0	0
Kota																													
Chambal (Rawat-Bhatta Dam).	33.0	..	35.9	16	23·4	—	20·1	30	13·3	132·8	—	103·5	1	3	..	9.5	5·4	..	0	5	0	0	3	0	0	0	0	0	0
Udaipur	31.8	+0.9	34.6	30	21.7	—0·1	19.7	30	77·1	103.7	+5·9	47.0	20	8	+2.6	4.2	1.9	..	0	8	0	0	4	0	0	0	0	0	0
Jhalawar	32.9	+1.0	35.2	16	23.5	+0·6	20.5	29	1·0	40·0	—118·2	38.0	1	2	—4.9	8·2	5.1	+0.1	0	3	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	31.3	—1.0	34.4	19	23.7	—0.7	19.8	30	125.5	289·7	+102.5	56.8	20	10	+2.6	9.5	6.0	..	0	12	0	0	6	0	0	0	0	0	0
Sheopur	32.4	—0.1	36.4	26	23.5	0	19.2	30	23.6	55·0	—57.4	22·0	11	5	—1.0	9.2	6.5	+0.4	0	7	0	0	2	0	0	0	0	0	0
Shivpuri	30.7	..	36.7	7	20.9	..	18.0	30	50·4	119·2	..	42·4	2	8	..	7.4	6.0	..	0	10	0	0	0	0	0	0	0	0	0
Nowgong	31.9	—0·5	34.9	15	23.3	—0.5	19.1	26	114·4	439·6	+292.0	257·2	25	11	+3.8	7.1	4.2	+1.3	0	14	0	0	5	0	0	0	0	0	0
Guna	30.9	+0.3	33.1	16	21.7	—0.2	18 1	29	61·1	164·1	—74.9	67·4	1	12	+3.4	11.1	7.4	..	0	13	0	0	3	0	0	0	0	0	0
Nimach	31.3	+0.2	34.6	16	22.4	+0.6	20.1	30	14·4	51·6	—74.6	35·2	1	4	—2.3	11.0	8.6	—1.1	0	6	0	0	5	0	0	0	0	0	0
Raigarh	31.5	..	34.1	17,26	22.5	..	17.1	29	74·4	129·1	..	34·2	8	7	..	11.2	7.0	..	0	7	0	0	0	0	0	0	0	0	0
Sagar	29.5	—0.5	31.8	15	21.9	+0.3	20·2	26,28	97·6	170·8	—22.2	27·0	21	14	+4.4	9.6	6.6	..	0	18	0	0	7	0	0	0	0	0	0
Ratlam	30.8	+0.8	33.5	15	21 6	—0.5	20.1	29	48·5	81·3	—181.2	18·0	14	8	—1.7	11.0	7.9	0	0	11	0	0	4	0	0	0	0	0	0
Bhopal (Bairagarh)	30.4	+0.5	32.2	14	21.4	—0.5	18.5	29	65·4	142·6	—122·1	30.1	1	11	+0.8	14.4	9.3	—1·2	1	12	0	0	9	1	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hour	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—(Contd.)																													
Ujjain	30.9	..	33.4	15	23.1	..	18.6	29	14.8	58.8	..	14.8	12	6	..	13.5	9.8	..	0	8	0	0	1	0	0	0	0	0	0
Narsinghpur	31.2	..	34.0	14,15, 17	22.1	..	20.0	25,28	30.0	91.0	..	17.0	1,10	9	..	6.0	3.5	..	0	11	0	0	1	0	0	0	0	0	0
Hoshangabad	31.3	+0.9	34.9	5	23.8	+0.9	20.2	28	58.7	176.9	−35.4	32.2	9	10	+0.5	8.8	5.2	+1.8	0	13	0	0	8	0	0	0	0	0	0
Indore	29.7	0	31.8	15	21.2	+0.4	17.8	29	147.2	301.0	+136.9	47.2	19	13	+4.6	16.4	13.8	..	1	18	0	0	8	0	0	0	0	2	0
Rajpur (Jhabua)	30.5	..	33.2	17,30	22.5	..	20.6	30	39.8	174.2	..	38.2	21	8	..	10.3	6.8	..	0	12	0	0	8	0	0	0	0	0	0
Chhindwara	30.0	+1.0	32.2	14	21.7	+0.4	19.7	26	33.9	85.2	−110.1	25.0	22	8	−3.2	9.6	5.6	−0.8	1	14	0	0	10	0	0	0	0	0	0
Seoni	30.3	+0.9	33.0	21	22.1	+0.8	20.7	26	42.6	104.0	−114.2	32.6	21	9	−1.9	10.0	6.7	+1.9	0	12	0	0	6	0	0	0	0	0	0
Betual	29.0	+0.7	31.2	16,18	21.5	+0.5	20.1	20	57.4	87.0	−168.9	33.8	22	6	−5.4	7.6	4.8	−1.3	1	10	0	0	3	0	0	0	0	0	0
Khandwa	32.1	+0.8	34.8	16	22.7	−0.1	21.2	29	101.4	220.2	+75.7	81.6	22	11	+3.9	11.1	8.8	+0.8	0	13	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	31.1	−0.1	34.1	15	23.8	0	21.2	26	88.4	203.2	+28.2	31.7	21,25	12	+3.1	3.4	4.5	−0.8	0	14	0	0	4	0	0	0	0	0	0
Sidhi	32.2	..	34.9	15	24.0	..	20.4	26	66.2	209.8	..	41.0	6	17	..	7.1	4.2	..	0	17	0	0	0	0	0	0	0	0	0
Umaria	30.5	+0.3	34.3	16	22.9	+0.1	20.2	25	95.7	344.3	+112.4	132.3	25	17	+6.6	6.0	3.5	−1.6	0	19	0	0	0	0	0	0	0	0	0
Jabalpur	31.3	+0.7	35.2	15	23.5	+1.1	20.0	25	39.5	167.7	−45.9	88.3	25	11	+1.3	8.3	5.5	+2.0	1	14	0	0	9	0	0	0	0	0	0
Ambikapur	30.2	+0.7	32.5	14	22.3	+0.2	19.3	26	31.2	128.2	−95.6	41.6	24	10	−2.4	9.3	6.1	−1.4	0	16	0	0	8	1	0	0	0	0	0
Pendra	28.9	+0.2	31.2	8	21.9	+0.5	19.5	25	127.2	242.7	+42.0	52.6	17	14	+2.7	9.0	6.6	..	2	18	0	0	16	0	0	0	0	0	0
Mandla	30.5	+0.3	33.4	15,16	22.6	+0.3	19.6	25	86.4	147.8	−61.4	55.0	25	7	−4.3	6.5	4.0	+0.9	0	14	0	0	7	0	0	0	0	0	0
Champa	31.4	−0.1	33.7	7	23.9	−0.9	21.6	27	67.0	304.8	−29.3	59.4	24	13	+1.1	6.8	4.9	−1.3	0	16	0	0	9	0	0	0	0	0	0
Raigarh	32.0	+0.2	34.2	15	24.3	−0.4	22.5	25	58.8	240.0	−101.4	86.4	24	8	−6.7	5.8	4.4	−0.9	0	14	0	0	2	0	0	0	0	0	0
Raipur	31.1	−0.1	32.9	15	24.2	+0.3	22.1	25	40.0	154.3	−41.0	37.1	24	12	+1.7	9.4	7.5	−0.1	1	18	0	0	13	1	0	0	0	0	0
Kanker	30.7	+0.8	33.4	14,15	23.9	+1.2	22.0	18	40.2	197.9	−62.2	71.3	24	11	−1.3	7.2	5.7	−0.1	0	13	0	0	2	0	0	0	0	0	0
Jagdalpur	29.6	0	31.8	12,15, 20	22.4	+0.5	21.1	12	113.3	237.4	−26.3	46.7	1	17	+3.4	6.3	4.6	..	1	24	0	0	17	0	0	0	0	0	0
Gujarat Region																													
Deesa	34.1	..	38.2	19,30,	22.6	..	19.8	26	4.4	24.6	..	20.0	20	2	..	10.2	7.3	..	0	2	0	0	0	0	0	0	0	0	0
Radhanpur	35.7	..	39.0	30	16.5	..	13.7	26	..	..	..	..	..	..	..	7.9	5.6	..	..	..	0	0	0	0	0	0	0	0	0
Indar	32.7	..	36.3	15	22.6	..	19.7	26	3.8	42.0	..	32.6	23	3	..	9.4	5.7	..	0	4	0	0	0	0	0	0	0	0	0
Ahmadabad	33.6	−0.1	37.0	17	24.2	+0.1	21.8	27	11.6	143.6	+32.9	107.2	20	5	−0.2	6.4	4.8	−2.4	0	6	0	0	6	0	0	0	0	0	0
Dohad	30.6	+0.4	34.0	15	22.6	−0.2	20.6	22	24.5	82.7	−92.9	31.8	22	6	−1.0	13.0	11.9	−5.0	0	12	0	0	8	0	0	0	0	0	0
Vallabh Vidyanagar	33.1	..	36.6	16	24.1	..	21.7	29	37.8	67.2	..	34.4	21	4	..	9.6	6.1	..	0	4	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome).	33.1	..	36.4	15	24.1	..	22.5	30	23.4	73.0	..	29.6	21	6	..	7.6	6.0	..	0	7	0	0	5	0	0	0	0	1	0
Baroda	33.5	+0.9	36.4	15,17	24.6	+0.5	23.1	27	27.2	116.0	−59.1	60.8	21	7	+0.1	3.6	1.8	−3.0	0	8	0	0	7	0	0	0	0	0	0
Broach	32.8	+0.1	36.4	30	24.4	−0.1	21.8	30	58.4	150.2	−57.5	82.0	21	5	−2.6	5.3	3.7	−3.9	0	8	0	0	1	0	0	0	0	0	0
Surat	32.2	+0.7	36.0	30	24.8	+0.4	22.8	27	51.3	172.6	+25.3	71.0	21	10	+2.6	6.3	6.6	+0.5	1	13	0	0	5	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia-Bhimasar (R)																													
Naliya	31.5	..	36.8	30	23.4	..	17.4	28	8.0	0	..	0	..	0	..	15.6	8.2	..	0	0	0	0	1	0	0	0	0	0	0
Bhuj (Rudramata)	33.9	+0.5	38.4	30	23.3	−0.4	20.7	27	0.4	4.2	−41.8	3.2	19	1	−1.2	15.5	12.5	−1.5	0	3	0	0	3	0	0	0	0	0	0
Kandla Aerodrome	34.0	..	38.0	30	24.7	..	..	..	7.0	11.4	..	6.8	18	2	..	20.9	18.3	..	0	2	0	0	1	0	0	0	0	0	0
New Kandla	32.5	..	36.7	30	24.7	..	23.3	27	30.4	35.0	..	19.6	18	3	..	22.6	19.5	..	0	4	0	0	2	0	0	0	0	0	0
Mandvi	31.5	+1.0	35.2	30	25.6	+0.2	23.0	29	0	0	−104.4	0	..	0	−6.2	29.1	26.8	+0.3	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	33.9	+0.7	37.2	17,30	24.5	+0.2	22.9	26	8.9	53.4	−83.3	28.7	20	4	−3.3	18.3	11.5	−1.8	0	4	0	0	3	0	0	0	0	0	0
Okha	30.1	..	31.1	18	24.9	..	23.1	27	1.3	9.1	..	6.8	18	1	..	20.0	18.0	..	0	4	0	0	1	0	0	0	0	0	0
Jamnagar (Aerodrome).	30.2	−1.7	32.6	18	22.9	−0.7	19.0	27	3.0	30.0	−26.6	12.5	17	3	+0.3	..	..	..	0	4	0	0	2	0	0	0	0	0	0
Dwarka	30.2	+0.6	31.1	15	25.5	+0.1	24.6	18,28	0	3.2	−34.1	3.2	18	1	−1.0	16.2	16.2	+2.5	0	1	0	0	0	0	0	0	0	0	0
Rajkot	32.5	+0.2	36.2	30	22.3	−0.2	20.5	27	94.0	142.0	−15.3	107.2	18	4	−2.1	18.8	14.7	−2.7	1	8	0	0	4	0	0	0	0	0	0
Bhavnagar (Aerodrome)	32.9	−0.7	36.8	16	24.2	+0.1	22.8	9,26	25.5	79.7	−18.3	31.8	20	5	−0.7	17.8	15.2	+1.2	0	5	0	0	4	0	1	0	0	1	0
Porbander (Aerodrome).	30.4	+0.6	33.5	30	23.9	−1.2	12.9	27,28	58.9	86.7	−2.7	35.8	20	4	−0.8	17.9	11.8	..	0	7	0	0	3	0	0	0	0	0	0
Keshod	31.0	..	34.4	17,30	22.7	..	20.7	27	165.2	242.4	..	92.8	18	5	..	20.3	13.8	..	1	5	0	0	3	0	0	0	0	0	0
Mahuva	32.0	..	36.0	30	23.0	..	21.6	29	58.5	120.1	..	46.0	20	5	..	9.5	7.4	..	0	5	0	0	0	0	0	0	0	0	0
Veraval	30.4	..	32.8	18	24.0	..	21.8	27	71.4	208.3	+145.0	84.2	20	5	+1.1	21.7	18.5	..	1	6	0	0	3	0	0	0	0	1	0

(R) Register not received.

Sub Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2) mm.	Precipitation 0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale		Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Konkan																													
Dahanu	29·6	+0·1	31·1	18	24·6	+0·2	23·8	8,9	89·0	178·6	−181·7	53·6	20	8	−3·5	(d) 16·3	(b) 13·4	−2·9	0	12	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz).	29·5	0	31·8	18	23·2	−0·2	21·1	26	48·8	285·1	−112·4	85·3	19	14	+1·4	13·5	8·9	..	1	20	0	0	6	0	0	0	0	1	0
Bombay	29·6	−0·1	31·2	8	24·5	+0·2	22·2	13	111.8	258·4	−5·5	51·2	19	15	+2·3	10·9	9·8	−1·5	3	23	0	0	3	0	0	0	0	5	0
Alibag	28·8	−0·4	30·8	11	23·9	−0·5	21·4	25	..	345·0	+79·1	67·3	12	15	+0·5	..	13·8	−0·4	0	20	0	0	2	0	0	0	0	0	0
Bhira	29·5	..	32.9	6	22·3	..	19·6	27	244·9	704·3	..	159·2	19	18	..	2·0	1·7	..	0	21	0	0	1	0	0	0	0	0	0
Harnai	28·2	−0·3	29·4	9	24·1	−0·2	22·3	24,27	56·2	345·6	+3·4	72·8	30	19	+3·6	17·3	15·0	+1·7	0	20	0	0	4	0	0	0	0	0	0
Ratnagiri	29·0	..	30·2	6	22·6	..	20·9	27	123·3	343·7	+43·5	99·2	30	18	+3·0	13·4	9·9	..	0	19	0	0	0	0	0	0	0	0	0
Devgarh	28·3	−0·7	30·1	11	23·9	−0.2	22·5	28	115·8	275·8	−51·2	54·2	30	16	−0·1	17·6	15·3	+0·2	0	18	0	0	0	0	0	0	1	0	0
Vengurla	29·0	−0·3	30·5	6	23·2	−0·3	20·7	27	69·6	270·2	−67·5	117·8	30	16	−0·2	9·9	5·4	..	0	18	0	0	0	0	0	0	0	0	0
Panjim	29·1	..	30·3	6	22·8	..	21·0	27	71·9	259·4	..	54·7	19	16	..	13·3	10·9	..	1	21	0	0	1	3	0	0	0	0	0
Marmugao	28·5	..	29·7	12	23.1	..	21·9	17	63·8	225·5	..	53.8	30	14	..	15·3	14·3	..	2	17	0	0	0	2	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	31·9	..	35·4	30	22·7	..	21·2	13	61·0	129·7	..	39.1	13	5	..	11·4	8·6	..	0	9	0	0	0	0	0	0	0	0	0
Jalgaon	32·4	+0·5	34·9	8,16	23·1	+0·2	21·4	29	35·6	99·2	−54·4	26·4	20	8	+0·2	15·9	12·1	+1·3	0	12	0	0	11	0	0	0	0	0	0
Malegaon	31·9	+0·4	37·0	1	21·3	+0·1	18·7	7	30·4	135·6	−11·5	72·2	13	8	+0·3	10·7	8·2	−1·3	0	9	0	0	2	0	0	0	0	0	0
Deolali (Aerodrome)	28·8	..	31·7	30	20·8	..	18·6	27	85·7	144·5	..	47·0	13	10	..	13·4	10·0	..	0	11	0	0	8	0	0	0	0	0	0
Ahmadnagar	30·0	−0·1	33·0	24	..	..	..	..	54·3	208·5	+42·4	49·7	15	12	+3·4	9·2	6·9	−3·1	0	14	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	749·8	+55·1	78·0	19	20	−1·7	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Poona (Aerodrome).	28·9	..	31·3	7	20·2	..	16·6	27	55·5	147·8	..	26·5	30	11	..	..	..	..	0	15	0	0	3	0	0	0	0	0	0
Poona	28·6	−0·2	30·6	6,7	19·7	−1·0	15·1	27	22·8	99·6	−34·8	29·7	30	9	+1·4	9·9	7·0	..	1	16	0	0	2	0	0	0	0	0	0
Jeur	30·3	−1·1	33·1	6	21·1	+0·2	17·9	27	59·9	281·8	+140·5	98·8	30	10	+2·3	12·1	10·3	−1·8	0	14	0	0	12	0	0	0	0	0	0
Baramati	30·5	0	33·5	6	21·0	0	16·8	27	61·3	267·3	+137·4	68.4	12	12	+5·0	12·6	11·2	−2·4	0	12	0	0	5	0	0	0	0	0	0
Sholapur	30·0	−1·5	33·0	4	21·3	−0·4	19·1	27	96·4	436·3	+243·5	116·6	30	15	+5·9	11·7	8·5	−1·8	0	16	0	0	3	0	0	0	0	0	0
Miraj	29·2	+0·1	33·6	7	20·5	+0·6	16.9	27	51·6	225·6	+127·1	47·2	30	12	+6·3	..	..	..	0	14	0	0	2	0	0	0	0	0	0
Kolhapur	28·2	−0·5	31·5	6	20·3	−0·2	17·4	27	67·1	232·3	+136·5	49·0	16	13	+5·1	..	..	..	0	16	0	0	3	0	0	0	0	0	0
Marathwada																													
Aurangabad	30·1	0	31·8	9	21·3	+0·6	19·8	26,27	57·6	125·2	−44·7	23·8	13	11	+2·0	12·8	10·4	−0·7	1	18	0	0	6	0	0	0	0	0	0
Aurangabad (Chikalthan).	29·8	..	31·5	5	21.4	..	20·1	28	64·5	152·6	..	45·6	1	11	..	12·0	8·8	..	0	15	0	0	8	0	0	0	0	0	0
Parbhani	30·3	−0·8	32·0	9,19	22·1	+0·2	21·0	4 days	24·0	244·0	+34·6	57·2	19	14	+4·0	11·0	8.4	−1·8	0	16	0	0	9	0	0	0	0	0	0
Nander	31·0	..	33·2	10	22·4	..	21·1	12	47·6	211·9	..	49·6	11	11	..	(b) 8·8	6·5	..	0	13	0	0	0	0	0	0	0	0	0
Bir	30·5	..	32·6	29	22·0	..	20·1	3	80·2	314·8	..	63·2	6	13	..	9·2	(c) 6·2	..	0	15	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	31·8	+1·1	34·0	15	24·1	+0·2	22·6	25	19·5	141·1	−79·8	73.8	23	9	−2·5	1·2	0·6	−3·9	0	11	0	0	6	0	0	0	0	0	0
Nagpur (Sonegaon).	32.1	+0·8	34·3	7	23·4	+0·1	21·4	25	85·0	201·4	−2·1	73·9	23	12	+1·4	12·8	9·7	..	0	16	0	0	11	0	0	0	0	2	0
Amraoti	32·0	+0·8	34·6	7	23·1	+0·6	21·5	28	56·8	104·0	−49·4	21·4	19	7	−1·3	14·4	10·0	+3·1	0	11	0	0	3	0	0	0	0	0	0
Akola Aerodrome	32·1	..	35·0	15	22·4	..	20·7	19	85·6	264·4	..	96·7	19	9	..	12·0	8·9	..	0	14	0	0	8	0	0	0	0	0	0
Akola	32·1	+0·2	35·1	15	23.3	+0·5	21·9	19,27, 28	64·3	186·8	+39·5	78·8	22	9	+1·4	10·7	8·4	+0.5	0	12	0	0	3	0	0	0	0	0	0
Bramhapuri	31·7	..	34·0	14	24·3	..	21·9	9	116·8	378·6	..	156·2	23	9	..	7·1	5·5	..	0	15		0	6	0	0	0	0	0	0
Buldana	28·4	+0·6	32·0	16	21.0	0	19.6	27	16·8	146·8	−59·2	41·0	2	6	−2·9	11·2	9·4	−1·7	0	11	0	0	0	0	0	0	0	0	0
Yeotmal	30·8	+0·6	33·2	9	22·7	+0·8	21·2	19	57·4	172·7	−38·5	56·9	1	10	+0·3	14·0	10·7	−1·1	0	12	0	0	3	0	0	0	0	0	0
Chanda	31·5	−0·1	33·7	15	24·3	+0·7	22·2	24	149·0	335·0	+108.7	150·0	23	12	+1·3	10·9	7·1	+2·1	1	17	0	0	16	0	0	0	0	0	0
Pusad	31·6	..	34·1	16	23.0	..	21.6	14	64·6	199·0	..	75·8	1	11	..	11·1	7·5	..	0	14	0	0	5	0	0	0	0	0	0
Sironcha	31·5	−0·1	33·6	15	24.4	−0·1	22.1	24	87·4	304·1	+99·7	66·3	24	17	+4·2	7·3	5.1	+0·6	0	19	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31·5	−0·6	33·9	8	25·2	−0·6	24·1	28	96·7	200.2	+24·1	70·8	28	12	+2·9	12·8	10·0	+2·8	1	18	0	0	4	0	0	0	0	0	0
Vishakhapatnam	31·1	−1·4	33·1	27	25·0	−0·6	23·1	19	157·0	331·1	+164·7	70·3	16	17	+7·9	15·6	9·5	+0·8	1	25	0	0	19	0	0	0	0	0	0
Kakinada	31·3	−0·8	34·4	4	24·8	−0·8	23·7	28	221·6	479·2	+322·7	103·8	2	14	+5·2	13·9	10·7	+3·9	1	19	0	0	4	0	0	0	0	0	0
Nidadavole.	30·6	..	33·0	9,27	24·6	..	21·5	24	115·6	267·2	..	47·6	29	20	..	7·2	7·3	..	0	22	0	0	3	0	0	0	0	0	0
Rentachintala	32·6	−1·7	35·2	6	24·3	−0·9	22·1	6	76·0	468·4	+347·5	227·0	29	14	+6·2	8·4	6·9	−2·6	0	14	0	0	0	0	0	0	0	0	0
Gannavaram	31·1	−1·3	33·4	9	24·5	−0·7	21·4	24	73·7	483·2	+350·3	123·5	29	13	+3·5	14·5	11·0	−0.1	0	18	0	0	10	0	0	0	0	0	0
Nagarjuna Konda (R)																													
Masulipatam	30·6	−1.9	33.1	10	24·2	−1·1	20·0	24,30	82·0	391·2	+229.4	69·2	28	15	+5·1	4·5	3·4	−3·8	0	16	0	0	15	0	0	0	0	0	0
Ongole (R)																													
Nellore	33·0	−1.8	37·4	7	25·2	−0·5	22·8	29	48·6	224·7	+111·4	58·4	9	12	+6·1	7·1	8·7	+1·8	0	15	0	0	6	0	0	0	0	0	0

(R) Register not received. (c) Mean of 28 days. (d) Mean of 27 days (b) Mean of 29 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana																														
Ramgundam	31·9	—0·1	34·5	15	24·5	0	22·1	24	55·7	285·4	+103·6	75·4	23	12	+1·5	8·3	5·6	+0·6	0	17	0	0	4	0	0	0	0	0	0
Nizamabad	30·7	—0·2	33·6	10	22·9	+0·2	21·5	11	24·6	300.3	+74·5	118·6	11	13	+3·0	8·3	6·2	+1·2	0	14	0	0	7	0	0	0	0	0	0
Hanamkonda	30·9	—0·3	34·1	13	23·1	—0·5	21·3	24,30	215·2	345·6	+159·2	110·0	24	14	+4·9	7·2	8·4	+1·5	0	20	0	0	6	0	0	0	0	0	0
Hakimpet (Aerodrome)	28·4	..	30·8	5	21·1	..	19·7	24	62·7	291·9	..	43·0	29	16	..	..	..	..	0	24	0	0	21	0	0	0	0	1	0
Bhadrachalam	31·9	—0·3	34·0	9	24·4	..	22·6	30	61·7	269·2	+89·0	40·0	24	16	+4·4	6·9	5·1	..	0	18	0	0	7	0	0	0	0	0	0
Hyderabad (Begampet)	29·0	—0.8	32·1	5	21·0	—0·3	19·8	24	77·3	201·3	+37·5	50·2	29	16	+6·5	16·1	12·8	+2·0	2	23	0	0	16	5	0	0	0	0	0
Khammam	31·3	..	34·2	6	23·9	..	21 7	24	136·4	392·8	..	53·4	28	16	..	8·0	5·6	..	0	18	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·4	..	32·2	6	21·8	..	20·5	26,29	154·8	596·6	..	103·0	13,30	19	..	9·8	8·0	..	1	21	0	0	9	0	0	0	0	0	0
Rayalaseema																														
Kurnool	30·5	—1·7	34·6	6	22·8	—0·5	21·1	29	53·0	467·1	+315·7	127·6	29	13	+3·8	16·3	12·0	+2·2	0	15	0	0	0	0	0	0	0	0	0
Nandyal (R)																														
Anantapur	30·4	—1·9	33·4	18	22·7	—0·4	20·8	7	62·0	268·3	+123·0	78·5	12	12	+5·2	15·2	12·7	—0·7	0	17	0	0	2	0	0	0	0	0	0
Cuddapah	31·6	—2·6	35·7	6	24·0	—0·7	22·1	29	56·6	297·8	+144·6	64·0	11	9	+0·7	2·3	1·3	—6·6	0	10	0	0	0	0	0	0	0	0	0
Arogyavaram	28·1	..	31·2	6	19·7	..	18·2	9	5·0	171·1	..	62·0	9	10	..	14.2	10·0	..	0	13	0	0	0	0	0	0	0	0	0
Madras State																														
Madras	32·1	..	33·8	9	24·8	..	22·9	16	..	120·9	..	33·6	11	9	..	..	8·3	..	1	9	0	0	6	0	0	0	0	0	0
Madras (Minambakham)	32·7	—1·7	34·6	4,19	25·0	—0·1	22·6	3	106·9	132·4	+13.5	48·3	16	6	—1·0	13·2	10·5	—2·4	1	10	0	0	6	0	0	0	0	0	0
Vellore	32·0	—1·4	34·8	3	23·2	—0·9	21·6	3,20	18·4	129·8	44·9	50·7	3	10	+1·9	7·1	7·1	+2·1	0	10	0	0	5	0	0	0	0	0	0
Tambaram (Aerodrome).	32·7	..	35·1	3	24·7	..	22.8	21	76·7	265·4	..	118·7	3	9	..	..	..	..	0	11	0	0	10	0	0	0	0	0	0
Tirupattur	30·9	..	33·3	7	21·6	..	19·2	25	34,3	182·7	..	59·6	11	7	..	7·1	5·4	..	0	7	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	32·8	..	35·4	8	23·1	..	20·8	29	28·5	152·9	..	34·8	3	7	..	6·2	6·2	..	0	9	0	0	0	0	0	0	0	0	0
Cuddalore	33·2	—0·4	35·0	26,30	24·5	—0·4	22·3	27,30	68·0	173·4	+41·1	87·0	11	7	+0·8	10·8	8·3	+2·0	0	7	0	0	2	0	0	0	0	0	0
Kallakkurichchi	30·8	..	33·5	5	24·1	..	22·0	11	5·4	59·2	—80·3	26·8	11	4	—3·6	7·6	7·0	..	0	9	0	0	3	0	0	0	0	0	0
Salem	31·3	—1·9	33·7	3	23·1	+0.3	21·4	29	7 8	6·1	+45·1	99·3	3	7	—1·5	7·8	6·1	+1.1	1	11	0	0	12	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·8	..	33·0	2.5	21·5	..	19·6	28	0·2	28·8	..	17·2	5	2	..	27·7	25·0	..	3	4	0	0	2	0	0	0	0	0	0
Coimbatore	30·2	—1·3	33·1	5	21·1	—0·5	20·0	28	..	50·8	+10·4	35·8	5	3	—0·3	..	13·7	+6·1	0	3	0	0	0	0	0	0	0	0	0
Nagapattinam	32·9	—0·8	35·1	23	25·4	+0·2	23·2	11	2·0	89·9	+6.1	49·4	11	4	—1·1	12·2	10·0	+2·3	0	5	0	0	3	0	0	0	0	0	0
Tiruchchirappalli	33·9	—0.6	36.0	25	24·5	—0.1	22·6	10	43·8	81·7	—38.2	42·8	10	5	—1·0	16·3	13·8	—3·3	0	7	0	0	8	0	0	0	0	0	0
Vedaranniyam	32·6	..	35·0	3	24·3	..	22·1	20,29	0	109·7	..	32·2	25	7	..	8·0	5·8	..	0	7	0	0	0	0	0	0	0	0	0
Atirampattinam	32·5	..	34·4	29	24·7	..	22·4	4,30	3.0	123·4	..	41·0	4,20	6	..	12·5	10·0	..	0	6	0	0	3	0	0	0	0	0	0
Madurai	34·4	+0·1	36·5	29	24·6	+0·2	22·5	30	..	22·0	—97.4	9·6	20	3	—3.5	..	5·5	+0·4	0	6	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome).	33·7	..	35·8	29	23·8	..	22·9	3	6.6	72.7	..	57.6	3	4	..	21·3	13·3	..	0	5	0	0	1	0	0	0	0	0	0
Tondi	32·6	..	35·4	11	25 6	..	22·2	30	1.0	10.8	..	3.6	3	1	..	18·9	14·2	..	1	5	0	0	1	0	0	0	0	0	0
Pamban	32·3	+0·5	33·6	4	26 5	+0·6	24·9	6	20.0	20.0	—9·0	20.0	6	1	—0·9	14·3	15·3	+2·7	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	34·2	+0·3	36·5	27,28	25·4	—0·6	23·1	6	0	0	—7·5	0	..	0	—1·2	22·0	18·2	+1·5	0	0	0	0	0	0	0	0	0	0	0
Palayankottai	34·5	—0·9	36·1	4	25·0	—0·9	23·0	14	26·0	28·6	+1·6	28·4	6	1	—1·0	16·1	12·8	—0.4	1	1	0	0	1	0	0	0	0	0	0
Kanniyakumari	29·9	..	34·1	4	24.1	..	22.1	16	26·8	45·6	..	21·6	10	3	..	20·5	18·6	..	0	5	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	29·0	+0·6	30·2	13	24·2	+0·4	22·8	27	105·2	529·5	+237·7	119·6	18	17	+1·5	14·6	11·7	..	0	22	0	0	0	0	0	0	0	0	0
Honavar	28·3	—0.6	29·9	14	22·9	—0·3	21·0	27	74·0	392·2	+50·6	52·9	18	15	—1·7	..	..	..	0	19	0	0	1	0	0	0	0	0	0
Mangalore (Bajpe).	28·2	..	30·5	6	22·8	..	21·2	28	91·7	351·6	..	70·9	15	16	..	11·2	7·8	..	0	21	0	0	1		0	0	0	0	0
Mangalore	29·1	0	30·5	12,13	23·3	—0·2	22·0	15,16	66·8	260·7	+5·5	48·3	3	12	—3·5	10·9	8·3	+2·0	0	20	0	0	0	0	0	0	0	0	0
Interior Mysore North																														
Bidar	28·3	—0·6	30·8	1	20·7	—0·5	19·4	24	35·1	525·0	+286·2	106·7	7	20	+9·3	12·2	11·2	—1·2	0	23	0	0	0	0	0	0	0	0	0
Gulbarga	29·8	—1·6	32·6	5	21·9	0	19·8	26	72·8	535·8	+346.3	146·4	16	17	+6·9	15·4	11·3	+0·4	0	21	0	0	8	0	0	0	0	0	0
Bijapur	29·2	—1·6	32·0	4	21·2	+0·2	19·0	27	86·0	406·2	+265.5	113·4	30	12	+4·0	9·9	8·9	—0·8	0	14	0	0	0	0	0	0	0	0	0
Raichur	30·5	—1·3	33·3	1	22·5	—0·1	21·3	2,26	136·8	484·4	+326·2	153·0	30	13	+3·6	14·3	12·9	+1·0	0	17	0	0	2	0	0	0	0	0	0
Belgaum	26·7	—0.5	30.8	6	19 6	+1·0	17 0	27	98·4	213.6	+95.0	64.2	17	10	+0.9	3.8	5.0	—4·3	1	15	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	26.8	..	29·8	6	19·5	..	16·4	27	40·4	149·8	..	33·2	16	11	..	12·9	9·5	..	0	15	0	0	2	0	0	0	0	0	0
Gadag	..	..	..	..	20.5	+0.1	17.5	27	46·8	190·1	+71.2	50·2	30	10	+3·6	13·7	12.2	—1.0	1	17	0	0	4	0	0	0	0	0	0
Interior Mysore South																														
Bellary	30·7	—1·8	35·0	6	22·9	+0·1	20·2	29	101·0	222·0	+98·3	75.0	16	7	—0·1	10·1	9·6	—0·5	0	8	0	0	0	0	0	0	0	0	0
Chitradurga	27.1	—2·0	31·4	6	20·2	+0·2	17·9	27	19·4	122·5	+11·5	54·6	6	10	+2·9	10·3	9·8	+0·3	1	15	0	0	3	0	0	0	0	0	0

(R) Register not received. (b) Total for 29 days. (c) Mean of 28 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore South—(Contd.)																													
Shimoga	26·4	—2·0	31·1	1	20·1	—0·4	17·7	27,28	26·0	98·6	+9·1	20·6	9	11	+2·5	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Agumbe	23·9	..	27·6	5	19·1	..	15·4	27	..	194·5	..	51·0	18	8	..	..	4·1	..	3	24	0	0	0	0	0	0	0	0	0
Balehonnur	24·8	+0·1	29·3	2	18·5	+0·4	15·6	27	..	188·6	—6·5	32·2	16	19	+3·0	..	..	..	0	21	0	0	3	0	0	0	0	0	0
Hassan	25·8	—1·4	29·7	6	18·3	+0.1	15·3	28	46·9	132·0	+22·0	35·6	19	9	+0·9	12·1	9·4	+1·2	1	17	0	0	4	0	0	0	0	0	0
Bangalore	26·5	—1·3	29·3	5	19·1	+0·6	17·2	28	51·6	287·7	—118·5	90·6	3	9	+0·1	15·0	11·8	+2·5	3	15	0	0	9	0	0	0	0	0	0
Bangalore (Aerodrome).	26·5	..	29·0	5	18·4	..	16·3	28	8·8	265·6	..	93·6	3	8	..	..	..	..	4	13	0	0	6	0	0	0	0	0	0
Mysore	27·9	—1·1	30·5	2	19·6	+0·4	17·1	28	55·2	129·8	+4·1	56·4	3	7	—1·2	15·9	10·8	+1·1	0	7	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	28·3	—0·8	30·0	14	23·3	—0·4	21·8	17	112·0	337·8	+136·1	51·5	16	15	+3·3	13·4	10·0	+2·9	0	17	0	0	0	0	0	0	0	0	0
Palghat	29·2	..	31·4	1	22·5	..	21·0	17	102·2	254·0	..	45·4	11	17	..	14·9	11·2	..	0	20	0	0	3	0	0	0	0	0	0
Fort Cochin	27·7	—0·6	28·4	7	23·5	—0·6	21·4	16	143·0	472·0	+277·2	82·7	16	20	+6·3	13·8	11·2	+4·1	1	25	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station).	28·7	..	29·9	6,27	23·4	..	21·8	16	138·9	514·0	..	93·1	16	20	..	13·2	10·2	..	0	25	0	0	2	0	0	0	0	2	0
Alleppey	28·9	—0·5	30·4	1	23·7	—0·1	22·3	14	112·8	396·6	+100·6	70·4	9	21	+5·2	15·0	13·3	+3·5	0	22	0	0	2	0	0	0	0	0	0
Punalur	26·2	..	30·7	4	22·3	..	20·8	30	133·5	386·5	..	63·4	13	16	..	3·6	4·3	..	0	20	0	0	0	0	0	0	0	0	0
Trivandrum	29·2	—0·5	32·0	5	23·1	—0·2	21·6	16	61·2	216·3	+101·8	47·7	9	9	+0·9	14·5	9·7	+0·4	2	21	0	0	3	0	0	0	0	0	0
Trivandrum (Aerodrome).	29·0	..	31·3	3	23·5	..	22·1	16	..	178·2	..	39·4	16	11	..	..	(j) 10·3	..	2	17	0	0	3	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Station excluding Kashmir																													
Dalhousie	23·3	+0·3	27·0	25	14·5	—0·9	10·0	26,27	213·0	625·0	+358·7	198·0	26	14	+4·9	2·2	2·5	0	0	14	0	0	13	29	0	0	0	0	0
Dharmsala	25·5	—0·7	28·4	15	18·4	—0·9	14·9	26,27	309·9	669·3	+141·4	125·0	10	14	+0·5	6·0	4·0	+0·4	0	16	0	0	8	0	0	0	0	0	0
Simla	19·0	—1·2	21·3	21	13·8	+0·3	11·7	25,27	126·1	229·6	+59·9	65·0	26	18	+8·7	1·6	1·4	—0·3	0	20	0	0	3	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	248·6	+68·0	104·4	26	10	+2·5	..	..	..	0	14	..	..	..	..	..	..	..	..	..
Lokpal	7·9	..	10·3	3	2·3	..	—0·8	30	..	241·6	..	32·4	25	18	..	..	..	..	0	22	6	0	0	19	0	0	0	0	0
Badrinath (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	23.1	..	26·4	15	15·4	..	12·7	25	50·4	198·2	..	39·0	25	15	..	4·3	3·6	..	0	21	0	0	0	0	0	0	0	0	0
Mussoorie	19·4	—0·3	22·0	28	13·9	—0.2	11·8	27	105·5	310·1	+57·4	62·0	26	13	+0·2	7·[illegible]	6·7	+0·6	0	18	0	0	6	0	0	0	0	0	0
Mukteswar (Kumaun).	19·8	0	23·7	28	12·0	—0·8	—1·3	26	79·4	283·8	+82·4	123·6	25	13	+2·9	9·2	10·0	+2·0	0	17	0	0	3	20	0	0	0	0	0
Nainital	20·4	—0·5	22·8	6,7	13·4	—1·4	5·6	26	141·5	542·0	+211·2	166·0	25	12	—0·5	9·8	7·1	+0·1	0	18	0	0	0	0	0	0	0	0	0
Kalimpong	26·6	+2·9	28·6	15,26	21·4	+2·6	18·1	20	26·5	56·1	—231·4	29·6	20	2	—10·7	5·8	4·3	—4·7	0	2	0	0	0	0	0	0	0	0	0
Darjeeling	18·8	—0·4	23·3	27	14·3	—0·1	12·6	19	170·4	452·4	—27·7	99·0	14	22	+5·0	2·1	1·8	—0·5	0	26	0	0	3	11	0	0	0	0	0
Kohima	24·2	..	27·6	23	19·[illegible]	..	17·2	18	139·8	263·0	..	37·0	22	23	..	..	0·8	..	0	25	0	0	0	0	0	0	0	0	0
Shillong	24·5	+1·0	29·2	28	16·7	+0·3	15·0	19	167·0	379·4	+79·9	87·0	4	17	—0·3	1·6	1·1	+1·3	0	21	0	0	6	3	0	0	0	0	0
Cherrapunji	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	0	0	0	0	0	0	0	0	0
Abu	24·4	+0·4	28·8	18	17·2	—1·0	15·0	21	36·0	99·8	—138·2	17·8	14	10	+2·4	15·8	9·4	+0·7	0	11	0	0	0	0	0	0	0	0	0
Aijal	25·5	..	28·5	27	19·8	..	18·0	4	172·3	296·7	..	35·0	20	17	..	7·5	8.4	..	0	20	0	0	0	0	0	0	0	0	0
Pachmarhi	25·3	0	28·3	16	19·0	+0·1	17·0	27	1 3·4	252·4	—108·0	53·8	15	11	—2·1	6·8	6·0	—1·1	0	17	0	0	9	0	0	0	0	0	0
Mahabaleshwar	20·7	+0·8	23·3	18	15·6	—0·4	12·8	28	198·5	634·3	—95·7	126·0	19	22	—0·6	12·2	12·0	—0·6	0	23	0	0	1	29	0	0	0	0	0
Mercara	21·6	—0·5	25·8	6	16·3	—0·3	14·4	27	115·4	242·4	—39·0	49·6	16	19	+0·8	13·0	10·9	+2.5	0	25	0	1	4	0	0	0	0	0	0
Ootacamund (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..
Coonoor (R)																													
Kodaikanal	18·4	+1·3	20·7	27	11·2	+0.1	9·6	24	69·0	184·5	—0·4	82·1	5	9	—2·9	14·7	16·4	+4·7	0	9	0	1	6	0	0	0	0	0	0
Nepal																													
Katmandu	27·1	..	30·8	28	18·5	..	16·3	4	63·2	203·5	..	43·4	3	13	..	0·7	0·7	..	3	17	0	0	12	3	0	0	0	0	0
Sikkim																													
Lachen	18·5	..	21·5	27	10·3	..	8·3	4	..	171·0	..	22·4	16	18	..	..	..	..	0	28	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	31.1	..	34.4	14	24.0	..	22.7	27	152·1	250·3	..	61.4	15	13	..	8·1	6.4	..	1	20	0	0	4	0	0	0	0	0	0
Hazaribagh	29.1	..	32.0	14	21.8	..	20.2	27	94·5	209.0	..	56.6	9	14	..	7.7	4.7	..	2	17	0	0	16	0	0	0	0	0	0

(R) Rgister notived. (b) Mean of 29 days. *Data given as addenda in December 1964, issue. (j) Mean of 21 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres				No. of rainy days (2·5 mm. or more)			Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours		Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—(*Contd.*)																													
Damodar Catchment—*Contd.*																													
Konar	30.9	..	37.2	29	23.3	..	21.3	21	144.2	237.5	..	45.7	19	14	..	12.5	6.3	..	0	17	0	0	0	0	0	0	0	0	0
Bokkaro	32.5	..	38.1	4	23.3	..	20.9	27	108.0	170.1	..	38.0	19	12	..	6.5	4.2	..	0	19	0	0	4	0	0	0	0	0	0
Maithon	32.9	..	35.0	14,15	22.8	..	21.8	22	97·7	180.4	..	59.2	4	11	..	..	..	..	0	15	0	0	8	0	0	0	0	0	0
Ramgarh	31.8	..	34.7	13,14	23.5	..	20.6	27	107.7	186.6	..	46.4	8	12	..	2.9	2.0	..	1	18	0	0	0	0	0	0	0	0	0
Panchet Hills	31.7	..	33.7	6	25.3	..	24.1	27	95.4	209.8	..	43.4	4	12	..	5.8	3.9	..	1	15	0	0	0	0	0	0	0	0	0
Durgapur	32.6	..	34.4	28	25.7	..	23.6	4	165.2	233·5	..	77.0	6	14	..	11.8	9.4	..	0	2	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	30.9	..	33.4	15	22.2	..	20.3	26,27	..	251·9	..	63.0	10	12	..	..	..	..	0	15	0	0	6	0	0	0	0	0	0
Hirakud	32.4	..	34.0	15,16	24.9	..	23.4	24	55.6	347.5	..	169.5	24	12	..	5·6	4.0	..	2	15	0	0	0	0	0	0	0	0	0
Bhimkund	30.3	..	32.8	20	23.3	..	21.5	7	104.8	198.5	..	40·0	24	12	..	5·6	2.8	..	0	19	0	0	18	0	0	0	0	0	0
Sonepur	31.7	..	33.7	18	25.8	..	24.1	23,24	..	247.2	..	72.3	24	12	..	..	7.0	..	1	14	..	..	..	..	..	..	..	..	..
Khijrawan	31.3	..	33.6	2,6, 15	23.4	..	21.2	1	0	253.3	..	67.0	24	11	..	8.3	6·9	..	0	14	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	31.4	..	34.5	16	23.2	..	21.2	28	88·4	244.3	..	132.2	1	10	..	6.4	4.0	..	0	10	0	0	1	0	0	0	0	0	0
Punasa	31.7	..	35.1	16	23.0	..	21.5	24	76.5	133.8	..	35.3	2	9	..	(g) 5.6	(f) 4.0	..	0	14	0	0	0	0	0	0	0	0	0
Thikri	32.5	..	35.4	18	21.6	..	17.9	30	..	270.6	..	73.5	21	7	..	..	..	..	3	9	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	32.9	..	33.4	4 days	25.5	..	24.8	15	8.2	8.2	..	8.2	20	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	(c) 22.3	..	24.7	13	11.9	..	9.4	27	4·6	49.8	..	20 2	25	7	..	..	.	..	0	7	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..		..	..	74.6	466.8	..	74.0	25	19	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Timure	2 .8	..	27.5	24	15.7	..	14.4	26	3.5	210.4	..	28.0	25	15	..	..	..	..	1	18	..	..	..	..	..	..	..	..	..
Pokhara	27.8	..	30.1	24,28	20.7	..	19.3	21	52.6	58.5	..	118.2	15	20	..	1·5	0.9	..	1	23	0	0	21	1	0	0	0	0	0
Gorkha	26.3	..	29.1	28	20.7	..	19.2	3	36.0	239.8	..	41.3	15	16	..	..	..	..	2	17	0	0	14	24	0	0	0	0	0
Nuwakot	30.0	..	31.6	12	20.4	..	18.5	21	31.4	238.3	..	46.2	1	12	..	..	..	..	18	17	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans-Himalayan Region)																													
Dailekh	25·4	..	28·8	13	18·9	..	16·3	18	71.6	258.2	..	51.0	2	11	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	21·7	..	24·9	7,28	15·0	..	13 0	25	137·8	348.7	..	81.2	25	10	..	6·1	5·1	..	0	18	0	0	1	16	0	0	0	0	0
Sallagana	25·7	..	28·0	29	11·9	..	16·0	3	62.1	132.0	..	35.1	3	10	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Butwal	32·2	..	35·4	8	24·3	..	22·4	1,15, 19	72.8	464.0	..	180.0	15	16	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	25·8	..	28·7	9	17·1	..	15·1	4	83·7	434·9	..	102·0	26	18	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	76·4	350·8	..	31·2	19	23	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Walungchung Gola	15·1	..	17·8	7	8·9	..	7·0	16	75·9	200·9	..	17·2	8	23	..	..	..	..	1	28	..	..	..	..	..	..	..	..	..
Taplethok	27·2	..	31·6	15	17·5	..	16·3	4	11.0	393·6	..	68·0	22	24	..	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Bhojpur	23·5	..	26·6	29	17·6	..	16·4	4	62·2	178·7	..	43·6	3	11	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Taplejung	23·6	..	25·8	29	16·5	..	14·7	30	83·2	265·1	..	49·8	14	16	..	3.6	2.2	..	2	24	0	0	5	16	0	0	0	0	0
Okhaldhunga	23·1	..	25·9	27	16·1	..	14 3	4	73·0	264·6	..	43·9	20	13	..	1.6	1.0	..	0	23	0	0	9	11	0	0	0	0	0
Chainpur	27.0	..	29.7	28	19·3	..	17·7	19	37·6	237.8	..	66·2	14	13	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Angbung	(f) 26.1	..	29.9	10	(f) 8.9	..	8.3	3	75.4	136.2	..	50.0	13	8	..	..	..	..	1	8	..	..	..	..	..	..	..	..	..
Barahakshetra	30·7	..	33·5	28	23·6	..	22·4	4	263·5	464·4	..	90·3	14	18	..	6·1	3·5	..	2	20	0	0	16	0	0	0	0	0	0
Tista Catchment																													
Gangtok	23·3	..	27·4	28	16·1	..	15·0	30	120·6	374·3	..	66·1	13	23	..	2·8	2·1	..	0	26	0	0	4	23	0	0	0	0	0
Gezing	25.7	..	29·5	27	17·4	..	16·2	19	68·9	319·2	..	66·1	11	17	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..

*Data included under Nepal.

(f) Mean of 25 days. (g) Mean of 24 days (c) Mean of 28 days

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1008·5	1005·4	..	26·7	25·6	25·1	31·9	91	..	6·3	..	11·1	0	5	24	1	0	0	0	0	18	10	0	1	0
	1730	,,	1006·1	1003·0	..	26·1	25·2	24·9	31·5	93	..	6·7	..	10·7	0	4	23	1	0	0	0	0	13	10	2	3	1
Long Island	0830	25	1008·2	1005·4	..	27·2	25·7	25·1	31·9	88	..	6·5	..	1·7	0	0	16	0	0	0	0	2	8	6	0	14	0
	1730	,,	1005·8	1003·1	..	26·3	24·9	24·3	30·4	89	..	6·3	..	1·6	0	0	21	1	1	0	0	1	9	9	0	9	0
Port Blair	0530	79	1006·8	997·9	..	24·6	23·9	23.5	28·9	93	..	6·8	..	12·5	0	8	21	1	0	0	0	2	16	8	2	1	0
	0830	,,	1008·6	994·7	—0·9	26·8	24·8	23·9	29·7	85	+1	7·2	+1·0	19·1	0	15	15	0	0	0	0	1	16	10	3	0	0
	1130	,,	1007·2	998·3	..	27·6	25·2	24·1	30·0	82	..	7·2	..	23·5	0	19	11	1	0	0		2	16	10	1	0	0
	1730	,,	1006·2	997·3	..	25·5	24·2	23·7	29·3	89	..	7·0	..	16·5	0	12	18	0	0	0	0	1	14	11	4	0	0
	2330	,,	1007·5	998·5	..	25·0	24·1	23·7	29·3	93	..	5·9	..	12·0	0	8	20	1	0	0	0	0	13	13	1	2	0
Carnicobar	0830	10	1009·2	1007·9	..	27·2	25·0	24·0	29·8	83	..	6·4	..	3·7	0	0	27	0	0	0	0	0	18	5	1	3	3
	1730	,,	1006·9	1005·7	..	26·2	24·6	23·9	29·7	87	..	6·6	..	2·3	0	0	15	0	0	0	0	0	21	2	1	15	1
Nancowry	0830	26	1009·8	1006·9	..	27·1	24·9	23·9	29·7	83	..	6·6	..	12·3	0	5	22	0	0	0	0	0	14	8	5	3	0
	1730	,,	1007·1	1004·1	..	26·4	24·5	23·7	29·3	85	..	6·7	..	11·8	0	5	20	0	0	0	0	0	11	8	6	5	0
Kondul	0830	8	..	..	..	27·3	25·0	23·9	29·7	83	..	7·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·4	24·8	24·1	30·0	88	..	7·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Passighat	0830	157	1006·8	989·1	..	26·2	24·6	23·9	29·7	87	..	6·2	..	5.4	0	1	26	1	3	2	2	0	2	0	17	3	0
	1730	,,	1002·7	985·2	..	27·2	25·5	24·7	31·1	87	..	5·4	..	3·3	0	0	24	1	1	0	0	0	2	0	20	6	0
Dibrugarh (Mohanbari)	0230	111	1004·0	991·5	..	24·8	24·2	23·9	29·7	95	..	6·3	..	2.5	0	0	11	0	11	0	0	0	0	0	0	19	0
	0530	,,	1005·0	992·4	..	24·6	24·1	23·9	29·7	96	..	7·0	..	2·7	0	0	14	0	4	7	2	1	0	0	0	16	0
	0830	,,	1006·4	993·9	−1·5	26·6	25·1	24·5	30·7	88	+2	6·7	+0·9	4·9	0	0	24	2	10	4	0	1	3	1	3	6	0
	1130	,,	1005·0	992·6	..	28·1	25·5	24·4	30·5	81	..	6·5	..	5·6	0	0	26	3	13	3	0	2	2	3	0	4	0
	1430	,,	1002·0	989·7	..	29·6	26·0	24·5	30·7	74	..	5·7	..	6·3	0	0	28	5	11	5	1	2	0	2	2	2	0
	1730	,,	1002·1	989·6	..	27·9	25·7	24·7	31·1	84	..	5·1	..	1·8	0	0	11	2	4	3	0	0	1	1	0	19	0
	2030	,,	1004·5	991·9	..	26·1	25·1	24·7	31·1	92	..	4·6	..	1·2	0	0	7	1	2	2	1	0	0	0	1	23	0
	2330	,,	1004·6	992·1	..	25·4	24·7	24·3	30·4	94	..	5·4	..	1·4	0	0	8	0	6	0	0	0	1	0	1	22	0
Digboi†	0830	152	1007·9	990·7	..	27·4	25·5	24·6	30·9	86	..	5·0	..	3·8	0	0	20	4	4	3	0	2	0	4	3	0	0
	1730	,,	1903·6	986·5	..	28·7	26·0	24·9	31·5	80	..	4·9	..	3·5	0	0	19	6	8	0	0	1	2	1	1	1	0
North Lakhimpur	0830	102	1006·8	995·3	−0·2	27·0	25·4	24·7	31·1	88	+4	6·8	+1·0	4·4	0	0	19	3	6	4	4	0	1	1	0	11	0
	1130	,,	1005·3	993·9	..	28·3	26·2	25·1	31·9	81	..	6·6	..	6·1	0	0	25	1	7	8	4	4	0	0	1	5	0
	1430	,,	1002·4	991·0	..	29·3	26·3	25·0	31·7	79	..	6·0	..	5·8	0	0	22	2	3	10	5	4	1	1	0	4	0
	1730	,,	1002·8	991·3	..	27·9	26·3	25·5	32·8	89	..	5·6	..	2·1	0	0	12	2	3	4	0	1	2	0	0	18	0
Sibsagar	0830	97	1007·0	996·1	−0·7	27·6	25·7	24·9	31·5	85	−2	7·2	+0·5	3·8	0	0	22	3	7	2	2	3	5	0	0	8	0
	1730	,,	1002·7	992·0	..	28·9	26·2	25·1	31·9	81	..	5·7	..	1·9	0	0	11	3	3	1	0	0	4	0	0	19	0
Gohpur	0830	..	..	..	..	26·6	25·5	25·1	31·9	90	..	6·5	..	2·9	0	0	22	4	6	2	7	0	0	1	2	8	0
	1730	..	..	..	..	28·2	26·2	25·4	32·4	83	..	5·2	..	2·3	0	0	22	4	5	2	8	0	0	1	2	8	0
Majbat	0830	..	..	..	..	27·9	25·9	25·1	31·9	84	..	5·1	..	2·4	0	0	21	2	3	7	2	2	2	3	0	9	0
	1730	..	..	..	..	28·1	26·1	25·3	32·2	86	..	2.7	..	0·9	0	0	8	0	0	1	1	3	2	0	1	22	0
Jorhat (Aerodrome)	0530	90	1004·6	994·5	..	25·1	24·7	24·5	30·7	98	..	6·9	..	3·6	0	0	15	0	3	0	0	2	9	0	1	15	0
	0830	,,	1006·2	996·1	..	27·6	25·7	24·9	31·5	86	..	7·0	..	4·9	0	0	21	3	5	2	0	0	8	3	0	9	0
	1130	,,	1004·7	994·7	..	29·9	26·0	24·3	30·4	77	..	6·3	..	6·8	0	0	26	5	6	3	0	0	3	3	6	4	0
	1730	,,	1001·9	991·9	..	28·1	26·3	25·5	32·6	86	..	5·7	..	3·3	0	0	13	1	8	2	0	1	1	0	0	17	0
	2330	,,	1004·5	994·5	..	25·9	25·5	25·3	32·2	96	..	5·6	..	2·0	0	0	8	0	2	0	0	0	6	0	0	22	0
Tezgla	0830	78	1006·3	997·5	..	27·5	25·7	24·9	31·5	85	..	2·5	..	1·5	0	0	18	0	0	0	15	0	3	0	0	12	0
	1730	,,	1002.1	993·4	..	29·3	27·1	26·2	34·0	80	..	2·1	..	0·4	0	0	3	0	0	0	2	0	1	0	0	27	0
Tezpur	0830	79	1007·0	998·1	−1·1	26·6	25·5	25·1	31·9	90	+4	5·8	0	1·7	0	0	21	3	9	1	3	1	3	0	1	9	0
	1730	,,	1002·6	993·8	..	28·5	26·2	25·3	32·2	82	..	4·8	..	1·5	0	0	17	2	9	2	0	1	3	0	0	13	0
Golaghat	0830	..	1006·1	995·3	..	26·9	25·3	24·6	30·9	88	..	5·6	..	0·9	0	0	23	1	2	0	5	1	9	0	5	7	0
	1730	..	1001·8	991·1	..	29·1	26·3	25·1	31·9	80	..	2·3	..	0·8	0	0	16	0	6	0	2	0	2	0	6	8	0
Raingia	0830	..	1006·8	1000·1	..	28·9	26·4	25·3	32·2	81	..	(b) 5·5	..	(b) 6·1	0	0	28	1	6	8	4	0	1	7	1	1	0
	1730	..	1003·2	996·4	..	28·8	26·3	25·3	32·2	82	..	(b) 4·9	..	(b) 2·9	0	0	21	1	4	6	2	0	2	4	2	8	0
Chapermukh	0830	66	1006·3	999·0	..	28·5	26·1	25·1	31·9	82	..	5·2	..	6·5	0	0	26	0	1	3	6	16	0	0	0	4	0
	1730	,,	1002.7	995·4	..	28·9	26·5	25·5	32·6	80	..	4·2	..	3·7	0	0	21	2	1	2	4	4	5	2	1	9	0

†Observations for 20 days.

(b) Mean of 29 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in e.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Goalpara	0830	38	1006·5	1002·2	..	27·2	26·1	25·7	33·0	90	—	2·9	—	1·6	0	0	24	1	8	4	6	2	2	0	1	6	0
	1730	,,	1003·4	999·1	..	28·7	26·6	25·7	33·0	85	—	1·6	—	1·3	0	0	19	0	4	1	2	2	4	3	3	11	0
Gauhati	0830	..	..	..	..	..	..	....	..	..	—	..	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjor)	0230	54	1003·9	997·7	..	25·7	25·1	24·3	31·3	95	—	5·3	—	1·9	0	0	11	0	4	0	0	4	3	0	0	19	0
	0530	,,	1004·5	998·3	..	25·5	25·0	24·7	31·1	96	..	6·3	—	4·5	0	0	12	0	4	2	2	2	1	1	0	18	0
	0830	,,	1006·0	999·9	−1·2	28·3	26·2	25·3	32·2	83	+4	6·3	+0·9	7·9	0	0	21	3	8	1	0	1	1	4	3	9	0
	1130	,,	1004·7	998·6	..	30·3	26·9	25·5	32·6	76	..	5·9	—	7·9	0	0	27	6	14	0	0	1	0	4	2	3	0
	1430	,,	1002·0	995·9	..	30·6	26·9	25·3	32·2	74	—	5·9	—	5·1	0	0	27	6	5	1	1	3	4	6	1	3	0
	1730	,,	1002·3	996·2	..	28·0	25·9	25·1	31·9	84	—	6·5	—	2·1	0	0	23	3	2	1	4	3	6	4	0	7	0
	2030	,,	1004·7	998·6	..	26·7	25·7	25·3	32·2	92	—	4·6	—	1·6	0	0	7	0	2	1	0	0	3	1	0	23	0
	2330	,,	1004·8	998·6	..	26·1	25·3	25·0	31·7	93	—	4·9	—	3·8	0	0	9	0	4	1	0	1	3	0	0	21	0
Dhubri (Rupsi)	0530	45	1004·2	999·1	..	25·3	25·0	24·9	31·5	97	—	5·8	—	5·4	0	1	16	0	9	3	1	2	2	0	0	13	0
	0830	,,	1005·7	1000·6	..	27·7	26·1	25·4	32·4	88	—	6·1	—	6·5	0	1	22	3	8	5	2	2	2	0	1	7	0
	1130	,,	1004·8	999·7	...	29·2	26·7	25·7	33·0	82	—	5·8	—	3·6	0	0	26	3	3	6	6	4	2	2	0	4	0
	1730	,,	1001·4	996·3	..	29·3	26·9	25·9	33·4	84	..	5·1	—	6·0	0	0	18	0	0	4	5	7	1	0	1	12	0
Dhubri	0830	35	1006·3	1002·4	−0.9	27·6	25·9	25·1	31·9	87	+2	4·9	+0·3	1·0	0	2	25	1	12	3	5	0	4	0	2	3	0
	1730	,,	1002·6	998·7	..	28·3	25·9	24·9	31·5	82	..	5·8	—	1.3	0	0	9	0	6	2	1	0	0	0	0	21	0
Lumding	0830	149	1006·2	989·5	..	26·7	25·6	25·1	31·9	90	+5	5·0	—	2·7	0	0	12	0	6	1	5	0	0	0	0	18	0
	1730	,,	1001·7	985·2	..	29·1	27·0	26·1	33·8	84	—	5·0	—	1·8	0	0	23	1	2	1	9	1	1	0	8	7	0
Tura	0830	370	1007·5	966·2	..	25·6	24·3	23·7	29·3	89	—	7·3	—	2·1	0	0	22	0	2	4	4	4	2	3	3	8	0
	1730	,,	1002·1	961·1	..	26·9	24·1	22·8	27·7	86	—	7·5	—	7·8	0	0	21	0	2	4	4	3	2	3	3	9	0
Haflong	0830	682	1006·3	931·4	..	23·6	22·4	21·8	26·1	90	—	6·2	—	6·2	0	0	30	0	0	0	0	9	21	0	0	0	0
	1730	,,	1001·2	927·3	..	25·5	23·1	21·9	26·3	82	—	4·7	—	5·5	0	0	30	0	0	0	0	4	26	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1004·0	993·1	..	24·7	24·2	23·9	29·7	96	—	7·0	—	5·5	0	0	28	0	2	21	0	2	1	1	1	2	0
	0830	,,	1005·3	994·4	..	27·0	25.2	24·4	30·5	86	—	6·6	—	5·2	0	1	21	0	1	18	1	1	0	1	0	8	0
	1130	,,	1003·5	992·8	..	30·1	26.1	24·4	30·5	73	—	5·4	—	5·9	0	0	26	1	2	4	3	0	2	10	4	4	0
	1730	,,	1001·2	990·4	..	28·6	26·2	25·2	32·1	83	—	5·9	—	3·6	0	0	21	1	1	6	0	0	4	9	0	9	0
Silchar	0830	29	1006·5	1003·2	−1·5	27·7	25·8	24·9	31·5	86	+2	6·3	+0·5	0·7	0	0	10	1	1	3	1	1	2	0	1	20	0
	1730	,,	1002·3	999·1	..	29·1	26·8	25·9	33·4	83	—	5·5	—	0·5	0	0	8	0	0	0	1	2	3	2	0	22	0
Imphal (Tulihal)	0530	781	1006·5	920·8	..	22·0	21·3	20·9	24·7	94	—	7·2	—	1·9	0	0	8	1	2	1	1	2	0	1	0	22	0
	0830	,,	1007·0	922·3	−0·7	25·1	22·5	21·2	25·2	79	−2	6·7	+0.6	3·1	0	0	19	0	3	0	4	7	1	3	1	11	0
	1130	,,	1004·6	920·6	..	27·6	23·3	21·1	25·0	69	—	6·5	—	7·0	0	0	24	1	1	2	2	5	5	3	5	6	0
	1430	,,	1001·8	918·1	..	27·8	23·3	21·1	25·0	69	—	6·2	—	10·0	0	1	26	1	0	4	5	4	3	3	7	3	0
	1730	,,	1002·9	918·4	..	25·3	22·7	21·4	25·5	81	—	6·4	—	6·1	0	1	22	0	0	3	5	2	0	4	9	7	0
	2030	,,	1005·7	920·7	..	23·6	22·2	21·5	25·6	88	—	5·7	—	4·7	0	0	16	0	3	2	0	1	0	3	7	14	0
	2330	,,	1006·4	921·0	..	22·9	21·8	21·3	25·3	91	—	6·7	—	3·6	0	0	13	1	2	2	2	2	0	2	2	17	0
Kailashahar	0530	29	1005·4	1002·2	..	25·2	24·7	24·5	30·7	95	—	7·0	—	2·3	0	0	15	0	1	1	1	6	6	0	0	15	0
	0830	,,	1006·7	1003·4	..	28·5	26·0	24·9	31·5	82	—	6·0	—	5.9	0	0	29	0	3	5	5	6	10	0	0	1	0
	1130	,,	1005·4	1002·1	..	30·5	26·7	25·1	31·9	73	—	6·3	—	4·2	0	0	27	2	1	4	2	8	3	5	2	3	0
	1730	,,	1002·7	999·5	..	28·7	26·6	25·7	33·0	84	—	6·8	—	2·9	0	0	19	5	2	0	0	6	3	1	2	11	0
Agartala	0230	16	1003·4	1001·6	..	25·6	25·1	24.9	31·5	95	—	6·6	—	5·3	0	0	17	0	0	1	7	7	1	0	1	13	0
	0530	,,	1003·9	1002·1	..	25·3	24·9	24·7	31·1	96	—	6·8	—	6·5	0	0	25	0	1	5	16	2	1	0	0	5	0
	0830	,,	1005·3	1003·5	−0·7	28.8	26·4	25.4	32.4	82	−3	6.3	−0.1	11.4	0	3	24	1	2	2	10	8	3	1	0	3	0
	1130	,,	1004·4	1002·6	..	30·1	26·7	25·3	32·2	76	—	6·4	—	11·5	0	3	25	2	2	1	5	6	4	1	7	2	0
	1430	,,	1001·8	1000·0	..	30·5	26·9	25·4	32·4	75	—	6·3	—	11·4	0	2	27	0	2	0	4	5	6	4	8	1	0
	1730	,,	1001·9	1000·1	..	28·3	26·3	25·5	32·6	84	—	6·3	—	8·5	0	0	25	1	2	6	2	10	1	3	0	5	0
	2030	,,	1004·3	1002·5	..	26·8	25·8	25·4	32·4	93	—	6·0	—	6·1	0	2	16	0	0	2	11	5	0	0	0	12	0
	2330	,,	1004·4	1002·6	..	26·2	25·5	25·2	32·1	94	—	6·0	—	8·1	0	2	17	0	0	1	12	6	0	0	0	11	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	151	1003·7	988·8	..	25·0	24·3	23·9	29·7	94	—	5·7	—	2·2	0	0	7	0	5	2	0	0	0	0	0	23	0
	0530	,,	1004·1	989·2	—	24·4	23·8	23.5	28·9	94	—	6·1	..	3·9	0	0	13	1	8	2	2	0	0	0	0	17	0
	0830	,,	1005·9	991·1	−0.5	27·4	25·1	24·0	29·8	83	+2	6·1	+0.3	9·8	0	2	24	2	10	9	2	0	0	2	1	4	0
	1130	,,	1004·8	990·2	—	29·7	25·9	24·3	30·4	74	—	5·9	—	10·8	0	2	27	0	7	4	12	3	2	1	0	1	0
	1730	,,	1002·1	987·5	—	28·1	25·6	24·5	30·7	82	—	6·1	—	7·5	0	0	23	5	4	2	8	1	1	1	1	7	0
	2330	,,	1004·5	989·7	—	25·7	24·8	24·4	30·5	92	—	5·7	—	6·9	0	0	23	4	12	4	1	0	0	2	0	7	0
Jalpaiguri	0830	83	1005·7	996·4	−1.2	26·3	25·0	24·5	30·7	89	+	5·3	+0.9	6·4	0	1	27	5	10	5	2	0	1	1	4	2	0
	1730	,,	1001·8	992.6	—	28·8	26·1	24·9	31·5	80	—	4·4	—	5·7	0	1	22	2	3	6	6	2	2	0	2	7	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (m.p.h.): 62 or more	Wind speed (m.p.h.): 20 to 61	Wind speed (m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(Contd.)																											
Cooch Behar	0830	43	1005·9	1001·1	..	27·5	26.0	25·3	32·2	89	..	5·9	..	6·0	0	0	27	1	7	14	0	0	1	0	2	3	2
	1130	,,	1004·9	1000·1	..	29·4	26·7	25.5	32.6	80	..	6·0	..	6·1	0	0	30	0	6	14	2	0	1	1	3	0	3
	1730	,,	1002.2	997.4	..	28.8	26·7	25·9	33·4	84	..	5.7	..	2.3	0	0	12	1	1	5	2	1	1	1	0	19	8
Balurghat	0830	26	1004·1	1001.3	..	28·9	26·5	25·5	32·6	82	..	5·5	..	3.5	0	0	26	2	2	8	8	2	4	0	0	4	8
	1730	,,	1000·9	998.0	..	29·3	26·5	25·3	32·2	80	..	5·5	..	3·1	0	0	23	0	1	5	10	3	3	0	0	7	1
Malda	0830	31	1005.2	1001·7	−0.8	29·3	26·5	25·5	32·6	83	+2	5.0	+0.8	2.5	0	0	22	1	2	4	4	7	3	0	1	8	0
	1730	,,	1001·7	998.1	..	29·3	26·8	25·7	33·0	82	..	5·7	..	1.9	0	0	21	2	1	5	4	6	3	0	0	9	0
Gangetic West Bengal																											
Berhampore	0830	19	1004·4	1002·2	−1·9	28·6	26·1	25.1	31·0	87	+5	5·6	+0·2	3.1	0	0	24	2	0	10	1	10	1	0	0	6	0
	1730	,,	1001·3	999·1	..	28·3	26·6	25·9	33.4	87	..	6·2	..	1·1	0	0	12	1	0	6	0	4	0	1	0	18	0
Suri	0830	..	..	..	..	28·4	26·2	25·3	32·2	83	..	6·1	..	4·5	0	0	30	3	1	8	4	12	0	1	1	0	0
Asansol	0230	126	1002·9	988.7	..	26·1	25.1	24·7	31·1	91	..	4·8	..	3·3	0	1	9	0	0	2	2	2	3	1	0	20	0
	0530	,,	1003·3	989·1	..	25·6	24.9	24·5	30·7	93	..	5·4	..	2·7	0	0	13	1	3	1	2	4	0	0	2	17	0
	0830	,,	1004·8	990·7	−0.7	28·4	26·1	25·1	31·9	82	..	5·8	+0·6	4·3	0	0	20	1	3	1	5	5	2	2	1	10	0
	1130	,,	1003·9	990·0	..	30·9	26·7	24·9	31·5	71	..	6·2	.	6·7	0	0	27	0	5	4	5	6	2	2	3	3	0
	1430	,,	1001·3	984·7	..	30·7	26.5	24·7	31·1	71	..	6·2	..	5·9	0	0	24	0	5	4	4	7	2		0	6	0
	1730	,,	1001 6	987·5	..	28·6	26.8	24·6	30·9	80	..	5·8	..	4·1	0	0	19	1	1	5	4	6	1	1	0	11	0
	2330	,,	1004.0	989·8	..	26·6	25.4	24·9	31·5	90	..	4·8	..	4.3	0	0	14	1	0	2	2	5	1	1	2	16	0
Shanti Niketan	0830	59	1005·4	998·8	..	28·5	26.4	25·6	32·6	84	..	5·6	..	7·2	0	0	27	1	2	3	7	9	3	0	2	3	0
	1130	,,	1004 6	998·0	..	30·2	27.1	25·9	33·4	78	..	3·4	..	5·0	0	0	26	1	4	4	6	10	0	0	1	4	0
	1730	,,	1001·9	995·2	..	28·6	26.4	25·5	32·6	84	..	6·1	..	4.9	0	0	25	0	5	2	4	13	1	0	0	5	0
Krishnanagar	0830	15	1005·1	1003·5	−0·7	29·8	27.4	26·1	33·8	81	0	4·2	−1·2	2·1	0	0	11	0	2	0	1	5	0	0	0	19	3
	1730	,,	1001·6	999·9	..	29·1	26.6	25·5	32·6	82	..	4·9	..	0·6	0	0	7	0	0	1	1	5	0	0	0	23	0
Purulia	0830	255	1004·9	976 6	0·5	27·1	25.3	24·5	30·7	85	+3	6·8	+1.4	4·0	0	0	29	3	4	0	8	4	3	2	5	1	0
	1730	,,	1001·5	973·4	..	28·2	25·6	24·5	30·7	81	..	7·3	—	3·4	0	0	28	3	2	1	12	5	5	0	0	2	0
Bankura	0830	100	1004·5	993·3	..	28·3	26·1	25·2	32·1	84	..	4·2	..	1·9	0	0	24	1	7	1	3	3	8	0	0	6	0
	1730	,,	1002·1	991·1	..	29·4	26·7	25·5	32·6	80	..	4·6	..	1·6	0	0	22	0	3	2	2	14	1	0	0	8	0
Burdwan	0830	32	1005·0	1001·4	−0·9	28·9	26·7	25·8	33·2	85	+2	4·4	−1·0	4·1	0	1	24	1	2	7	4	6	3	2	0	5	0
	1730	,,	1001·5	997·8	..	29·0	26·8	25·9	33·4	83	..	4·6	..	6·5	0	1	25	4	0	10	2	10	0	0	0	4	0
Barrackpore (Aerodrome)	0530	7	1003·7	1002·9	..	26·4	25·8	25·6	32·9	95	..	4·7	..	4·1	0	0	15	0	3	1	3	3	4	4	0	15	0
	0830	,,	1005·2	1004·5	−1·0	29·0	26·8	25·9	33·4	84	−3	5·9	−0·3	8·2	0	0	29	0	2	5	8	4	5	1	0	1	0
	1130	,,	1004·5	1003·8	..	31·1	27·1	25·5	32·6	72	..	6·0	..	9·7	0	0	29	1	2	5	6	5	8	1	0	1	0
	1730	,,	1002·1	1001·4	..	28·6	26·4	25·5	32·6	84	..	6·2	..	5·1	0	1	18	0	1	2	6	5	4	1	0	11	0
	2330	,,	1004·5	1003·7	..	26·9	25·9	25·5	32·6	92	..	3·9	..	3·1	0	0	13	0	1	0	4	5	2	1	0	17	0
Calcutta (Dum Dum)	0230	6	1002·8	1002·1	..	26·7	25·9	25·6	32·8	93	−8	3·9	..	2·9	0	0	17	1	1	5	2	3	5	0	0	13	0
	0530	,,	1003·0	1002·3	..	26·4	25·6	25·3	32·2	93	..	6·2	..	2·9	0	0	15	3	1	5	4	0	5	0	0	15	0
	0830	,,	1004·7	1004·0	−1·0	29·1	26·4	25·3	32·2	81	0	6·7	+0·6	6·1	0	1	28	1	2	7	9	2	7	1	0	1	0
	1130	,,	1004·0	1003·3	..	30·6	26·7	25·1	31·9	73	+9	6·8	..	7·7	0	1	28	1	2	7	10	5	4	0	0	1	0
	1430		1001·6	1000·9	..	30·2	26·3	24·7	31·1	73	..	6·9	..	7·3	0	0	28	1	1	5	10	8	2	1	0	2	0
	1730	,,	1001·4	1000·7	..	29·1	26·3	25·1	31·9	79	−3	6·8	..	4·0	0	0	23	0	1	1	8	9	4	0	0	7	0
	2030	,,	1003·8	1003·1	..	27·9	26·2	25·5	32·6	87	..	4·4	..	3·5	0	0	20	0	2	2	6	5	5	0	0	10	0
	2330	,,	1003·9	1003·1	−1·6	27·1	25·9	25·4	32·4	91	..	3·7	..	3·6	0	0	20	1	2	2	4	8	3	0	0	10	0
Calcutta	0830	6	1004·4	1003·7	..	29·5	26·8	25·7	33·0	80	−3	5·4	−0·3	5·1	0	0	28	0	5	1	9	8	4	1	0	2	0
	1130	,,	1003·7	1003·0	..	30·8	26·9	25·3	32·2	72	..	5·9	..	6·1	0	0	29	0	3	5	9	6	4	1	1	1	0
	1730	,,	1001·3	1000·6	..	29·3	26·6	25·5	32·6	80	..	5·7	..	4·7	0	0	25	0	0	4	6	10	2	2	1	5	0
Midnapore	0830	45	1004·5	999·4	−1·3	28·4	26·1	25·1	31·9	79	−3	4·2	−1·3	2·1	0	0	23	0	5	2	2	7	6	1	0	7	0
	1730	,,	1001·4	996·3	..	28·3	26·0	25·1	31·9	83	..	5·3	..	2·0	0	0	22	2	3	1	1	14	1	0	0	8	0
Contai	0830	11	1004·4	1003·2	−0·3	28·6	26·7	25·9	33·4	86	+2	4·5	−·9	7·1	0	3	22	3	1	2	5	7	5	0	1	6	0
	1730	,,	1001·4	1000·2	..	29.0	26.6	25.6	32·8	82	..	3.1	..	7·3	0	1	26	1	0	3	6	16	0	0	1	3	0
Sagar Island	0830	3	1004·2	1003·9	...1·4	28·5	26·8	26·1	33·8	87	+6	6·0	−0·1	16·9	0	10	19	2	4	5	3	5	6	3	1	1	0
	1730	,,	1001·2	1000·9	..	28·9	26·6	25·7	33·0	83	..	5·5	..	16·4	0	7	23	1	1	1	6	11	7	2	1	0	0
Saintsands	0530	11	1002·0	1000.9	..	28·0	25·7	24·7	31·1	82	..	3·2	..	17·1	0	12	17	1	2	0	3	11	7	2	3	1	0
	0830	,,	1004·0	1002·9	−1·9	29·3	26·5	25·3	32·2	79	0	3·9	+·9	14·6	0	6	24	0	0	5	3	7	6	4	3	0	0
	1130	,,	1003·6	1002·5	..	30·1	26·5	25·0	31·7	4	..	6·3	..	14·5		5	25	1	0	3		6	7	3	4	1	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperatu in °C: Dry bulb	Mean temperatu in °C: Wet bulb	Mean temperatu in °C: Dew poin:	Vapour pressure in mb.	Relative humidity %	Departure from normal	Coud amount (Oktas): Mean amount	Coud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	0	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal (contd.)																											
Sand heads—contd.	1730	230	1001·0	999·9	..	29·2	26·2	24·9	31·5	78	..	5·6	..	17·2	0	10	19	0	1	3	7	6	10	1	1	1	0
	2330	,,	1003·2	1002·1	..	28·5	25·9	24·8	31·3	81	..	..	..	18·2	0	11	19	0	2	2	6	10	7	1	2	0	0
Orissa—																											
Baripada	0830	54	1005·4	999·3	..	28·0	26·0	25·2	32·1	85	..	5·6	..	3·3	0	0	26	7	2	1	2	6	4	2	2	4	0
	1730	,,	1002·3	996·2	..	28·2	26·2	25·4	32·4	85	..	5·7	..	1·7	0	0	17	1	1	1	4	5	2	1	2	13	0
Jharsuguda	0230	230	1002·5	976·7	..	25·1	24·3	23·9	29·7	93	..	5·9	..	4·4	0	0	19	1	1	6	6	2	2	0	1	11	0
	0530	,,	1002·8	977·0	..	24·7	24·0	23·7	29·3	94	..	6·4	..	3·5	0	0	13	1	0	6	0	2	3	0	1	17	0
	0830	,,	1004·3	978·7	—0.5	27·1	24·8	23·7	29·3	83	—1	6·3	+0·2	7·8	0	1	25	1	2	6	4	3	3	7	0	4	0
	1130	,,	1003·6	978·1	..	29·2	25·4	23·7	29·3	77	..	6·9	..	7·3	0	1	24	1	3	6	2	6	3	4	0	5	0
	1730	,,	1000·7	975·3	..	28·8	25·5	24·1	30·0	77	..	6·9	..	5·5	0	0	20	2	2	4	1	7	1	3	0	10	0
	2330	,,	1003·6	977·8	..	25·9	24·7	24·2	30·2	90	..	6·1	..	5·9	0	0	20	1	2	1	10	2	3	0	1	10	0
Keonjhargarh	0830	463	1005·3	954·4	..	25·7	23·4	22·4	23·1	82		6·3	..	1·7	0	0	25	5	4	6	2	1	2	4	1	5	0
	1730	,,	1001·1	950·6	..	26·5	23·8	22·7	27·6	80	..	4·7	..	1·9	0	0	29	1	2	2	8	5	1	6	4	1	0
Balasore	0830	20	1004·5	1002·3	—1·1	28·5	26·2	25·3	32·2	83	0	6·9	+1·7	5·7	0	0	27	5	2	1	3	5	6	4	1	3	0
	1730	,,	1001·3	999·1	..	28·8	26·2	25·1	31·9	81	..	6·3	..	5·4	0	0	29	3	1	0	6	12	5	1	1	1	0
Sambalpur	0830	148	1004·1	987·6	—1·7	27·8	25·2	24·0	29·8	81	—1	6·0	+1·0	4·9	0	0	27	3	2	4	4	6	7	1	0	3	0
	1730	,,	1000·6	984·2	..	28·7	25·8	24·5	30·7	78	..	5·4	..	2·5	0	0	18	1	0	1	3	5	7	1	0	12	0
Angul	0830	439	1004·6	989·1	—1·0	27·0	25·2	24·4	30·5	86	+4	7·6	+2·2	4·8	0	0	30	0	8	0	4	3	4	5	6	0	0
	1730	,,	1001·6	986·3	..	28·3	25·7	24 6	30·9	81	..	7·6	..	4·1	0	0	28	0	1	4	8	5	5	4	1	2	0
Cuttack	0830	27	1004·6	1001·6	—1·4	28·7	26·3	25·3	32·2	83	+3	6·3	+1·3	4·5	0	0	18	0	2	3	1	0	6	2	4	12	0
	1730	,,	1001·5	998·5	..	29·1	26·7	25·7	33·0	82	..	6.0	..	3·7	0	0	16	0	1	2	3	1	7	1	1	14	0
Chandbali	0830	6	1004·5	1003·8	—0·9	28·6	26·4	25·5	32·6	84	+1	6·0	+0·6	5·3	0	0	29	0	3	2	6	4	7	3	4	1	0
	1730	,,	1001·6	1000·9	..	28·6	26·3	25·3	32·2	83	..	5·7	..	8.1	0	1	28	0	0		9	5	3	2	3	1	0
Bolangir	0830	190	1004·3	982·9	..	27·3	25·0	22·9	29·7	82	..	6·1	..	5·5	0	0	30	4	3	2	4	10	6	0	0	0	1
	1730	,,	1000·9	979·8	..	28·5	25·7	24·5	30·7	79	..	6·8	..	5·1	0	0	29	3	2	4	6	8	4	0	1	1	0
Phulbani	0830	464	1002·6	951·6	..	25·9	23·7	22·8	27·7	83	..	5·9	..	0·2	0	0	2	0	1	0	0	0	0	1	0	28	0
	1730	,,	998·9	948·4	..	26·9	24·5	23·5	28·9	82	..	6·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Titlagarh	0830	211	1004·3	980·8	..	27·1	25·3	24·3	30·4	83	..	5·3	..	3·3	0	0	28	2	6	0	2	6	11	0	1	2	0
	1730	,,	1000·9	977·6	..	28·8	25·6	24·2	30·2	77	..	6·2	..	2·9	0	0	23	4	5	0	2	2	5	0	5	7	0
Bhubaneswar	0230	46	1002·7	997·5	..	25·8	25·2	24·9	31·5	95	..	5·0	..	6·3	0	1	24	1	0	3	1	2	15	1	2	5	0
	0530	,,	1003·0	997·8	..	25.6	25·1	24·9	31·5	96		5·4	..	5·7	0	2	19	2	2	2	2	1	7	3	2	9	0
	0830	,,	1004·7	999·5	—0·2	28·5	26·3	25·4	32·4	84	—1	6·3	0	9·8	0	4	25	3	2	3	2	2	8	4	5	1	0
	1130	,,	1004·2	999·0	..	30·1	26·5	25·0	31·7	74	..	6·5	..	11·3	0	5	24	3	1	4	3	5	5	3	5	1	0
	1430	,,	1001·6	996·5	..	29·9	26·6	25·3	32·2	77	..	6·8	..	12·7	0	7	22	0	3	0	6	6	6	3	5	1	0
	1730	,,	1001·7	996·5	..	28·2	26·2	25·4	32·4	85	..	6·3	..	10·3	..	4	25	1	2	3	3	7	9	1	3	1	..
	2330	,,	1004·1	998·9	..	26·3	25·6	25·3	32·2	94	..	4·6	..	7·1	..	2	21	1	2	3	2	2	8	4	1	7	..
Puri	0830	6	1004·4	1003·7	—1·3	29·2	26·5	25·3	32·2	82	+2	5·9	+1·2	11·5	0	6	24	4	1	3	5	3	9	3	2	0	0
	1730	,,	1001.5	1000·8	..	29·0	26·4	25·3	32·2	81	..	6·0	..	15·4	0	10	19	1	2	1	6	7	10	2	0	1	0
Gopalpur	0530	17	1002·9	1001·0	..	26·5	25·5	25·1	31·9	92		6·5	..	5·5	0	5	9	1	1	2	1	0	4	2	3	16	0
	0830	,	1004·6	1002·7	—1·2	28·5	26·1	25·1	31·9	83	+2	6·7	+2·5	9·9	0	5	16	5	0	3	0	5	5	0	3	9	0
	1130	,,	1004·2	1002·3	..	30·1	26·7	25·3	32·2	76	..	6·8	..	12·2	0	6	24	4	1	6	4	9	4	0	2	0	0
	1730	,,	1001·7	999·8	..	28·3	25·9	24·9	31·5	82	..	6·6	..	13·5	0	8	16	0	2	4	3	6	7	2	0	6	0
	2330	,,	1004·1	1002·2	..	27·5	25·9	25·2	32·1	88	..	5·7	..	8·1	0	5	11	1	1	2	3	1	8	0	0	14	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1004·8	988·2	—1·0	28·3	25·9	24·9	31·5	82	+1	4·7	0	4·9	0	0	25	3	4	3	9	1	3	1	1	5	0
	1730	,,	1001·3	984·8	..	28·7	26·0	24·9	31·5	81	..	4·4	..	5·2	0	0	27	3	3	4	14	1	1	0	1	3	0
Daltonganj	0830	221	1004·4	979·7	—1·2	28·1	25·5	24·4	30·5	81	+2	3·2	—0·3	2·7	0	0	28	1	7	0	8	1	6	2	3	2	0
	1730	,,	999·9	975·5	..	29·4	25·9	24·3	30·4	75	..	3·7	..	4·1	0	0	30	3	7	1	1	0	13	1	4	0	0
Hazaribagh	0830	611	1004·3	937·3	—1·1	25·2	23·3	22·5	27·3	85	+4	5·4	—0·2	10·0	0	1	25	2	3	2	4	5	4	1	5	4	0
	1730	,,	1001·2	934·5	..	25·8	23·7	22·8	27·7	84	..	6·3	..	6·2	0	1	23	1	1	4	5	7	2	1	3	6	0
Dhanbad	0830	257	1004·2	975·6	..	27·0	25·2	24·4	30·5	85	..	4·1	..	(c) 2·6	0	0	20	0	2	1	10	1	2	1	3	6	0
	1730	,,	1001·1	972·6	..	27·5	25·4	24·5	30·7	84	..	5·2	..	2·7	0	0	17	0	2	3	6	3	1	1	1	13	0
Ranchi	0830	655	1003·9	932·2	—1·4	24·1	21·1	19·6	22·8	77	—4	6·1	+1·0	1·6	0	0	22	3	6	3	3	2	1	0	4	8	0
	1730	,,	1001·1	929·6	..	24·3	21·4	19·9	23·2	77	..	6·0	..	1·0	0	0	14	3	1	4	2	1	0	0	3	16	0
Ranchi Aerodrome	0530	652	1002·7	931·1	..	22·9	22·4	22·1	26·6	95	..	6·2	..	8·1		0	23	4	2	3	4	3	6	1	1	6	0
	0830	,,	1003·9	932·7	..	24·7	23·2	22·5	27·3	88	..	6·4	..	13·5	2	0	28	3	3	3	7	1	9	2	2	0	0

(c) Mean of 26days.

(R) Register not received.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1964 (BHADRA 10—ASVINA 8, 1886 SAKA)

Sub-Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(*Contd.*)																											
Ranchi Aerodrome—(*Contd.*)	1130	652	1003·1	932·4	..	27·0	23·8	22·4	27·1	76	..	6·5	..	12·2	0	3	25	6	2	5	7	3	2	3	0	2	0
	1430	,,	1000·5	930·1	..	27·5	24·1	22·7	27·6	76	..	6·7	..	14·7	0	5	25	3	1	8	3	8	2	3	2	0	0
	1730	,,	1000·7	929·9	..	25·6	23·5	25·5	27·3	83	..	6·4	..	12·3	0	4	25	0	1	9	8	4	1	3	3	1	0
Jamshedpur	0830	129	1004·3	989·9	−1·0	27·8	25·7	24·7	31·1	83	+2	6·4	+0·7	3·2	0	0	20	0	0	5	2	1	3	8	1	10	0
	1730	,,	1000·9	986·5	..	28·8	25·9	24·7	31·1	79	..	6·7	..	3·5	0	0	23	1	3	8	3	1	3	3	1	7	0
Jamshedpur (P.B.O.)	0530	142	1002·9	986·9	..	25·3	24·7	24·4	30·5	94	..	5·0	..	2·7	0	1	9	0	3	3	0	0	2	0	2	20	0
	0830	,,	1004·5	988·7	..	27·7	25·5	24·5	30·7	82	..	5·9	..	5·0	0	0	22	0	4	3	4	1	7	1	2	8	0
	1130	,,	1003·7	987·9	..	29·7	26·0	24·5	30·7	74	..	6·4	..	5·9	0	0	25	2	2	5	5	6	2	2	1	5	0
	1430	,,	1000·8	985·1	..	30·1	25·1	24·4	30·5	72	..	6·6	..	6·6	0	1	26	2	7	5	2	5	2	2	2	3	0
	1730	,,	1001·1	985·3	..	28·2	25·7	24·7	31·1	82	..	6·9	..	4·5	0	0	23	1	5	6	4	3	1	2	1	7	0
	2330	,,	1003·6	987·7	..	26·4	25·3	24·9	31·5	91	..	5·0	..	2·7	0	1	10	0	5	3	0	0	1	0	2	19	0
Chaibasa	0830	226	1004·2	979·0	−1·1	27·1	25·0	24·1	30·0	84	+3	7·0	+1·9	2·8	0	0	20	0	7	0	2	0	10	0	1	10	0
	1730	,,	1000·7	975·7	..	27·7	25·2	24·1	30·0	81	..	5·4	..	1·9	0	0	15	0	3	0	2	1	8	0	1	15	0
Bihar Plains																											
Motihari	0830	66	1004·9	997·4	−0·6	27·8	26·2	25·5	32·6	87	+7	5·6	+1·7	4·1	0	0	27	0	4	18	3	0	0	0	2	3	0
	1730	,,	1001·4	993·9	..	29·1	26·8	25·9	33·4	83	..	5·1	..	1·8	1	0	11	1	0	5	1	1	1	1	2	18	0
Forbesganj	0830	61	1005·4	998·5	..	28·0	25·9	25·1	31·9	84	..	5·7	..	4·1	0	0	28	0	6	16	4	0	1	0	1	2	0
	1730	,,	1001·8	995·0	..	29·1	26·0	24·7	31·1	77	..	5·2	..	2·5	0	0	22	0	1	10	5	0	0	2	4	8	0
Darbhanga	0830	49	1004·6	999·1	−1·2	29·4	26·9	25·9	33·4	80	+3	5·4	+0·7	3·3	0	0	22	0	7	9	3	2	0	1	0	8	3
	1730	,,	1002·4	996·9	..	29·9	26·8	25·5	32·6	78	..	5·8	..	1·3	0	0	10	0	3	3	2	0	0	1	1	20	0
Chapra	0830	58	1004·4	997·4	..	29·0	26·8	25·9	33·4	84	..	5·3	..	2·7	0	0	24	0	4	10	4	0	3	0	3	6	0
	1730	,,	999·9	993·5	..	28·8	26·4	25·4	32·4	82	..	5·2	..	2·3	0	0	26	1	2	14	2	0	3	0	4	4	0
Purnea	0830	38	1005·1	1000·9	−1·1	29·1	26·3	25·5	32·6	86	+1	4·7	0	3·8	0	0	28	0	3	15	2	3	1	4	0	2	0
	1730	,,	1001·7	997·5	..	28·9	26·5	25·5	32·6	83	..	5·2	..	2·9	0	0	25	1	5	13	2	2	1	1	0	5	0
Patna	0830	53	1004·4	998·4	−1·3	28·4	26·1	25·1	31·9	82	+3	5·2	+0.3	7·9	0	1	29	1	9	6	6	1	3	4	0	0	0
	1730	,,	1001·1	995·2	..	29·7	26·2	24·8	31·3	75	..	5·5	..	5·8	0	1	26	5	10	4	2	2	1	3	0	3	0
Patna Aerodrome	0530	60	1002·4	995·6	..	26·5	25·7	25·4	32·4	94	..	6·0	..	7·2	0	3	16	1	1	7	5	2	1	1	1	11	0
	0830	,,	1004·1	997·3	..	28·7	26·4	25·5	32·6	83	..	5·9	..	11·3	0	3	24	0	0	8	9	2	3	3	2	3	0
	1130	,,	1003·5	996·8	..	30·6	26·9	25·3	32·2	74	..	6·2	..	12·3	0	2	26	0	1	5	8	4	2	2	5	2	0
	1430	,,	1000·9	994·2	..	30·9	26·7	24·9	31·5	71	..	6·4	..	12·0	0	4	24	1	1	7	6	5	2	2	4	2	0
	1730	,,	1000·7	994·0	..	29·5	26·4	25·1	31·9	78	..	5·9	..	6·3	0	1	19	0	3	7	3	1	1	2	2	10	0
	2330	,,	1003·1	996·4	..	27·4	26·2	25·7	33·0	90	..	4·6	..	5·7	0	1	15	0	0	5	4	3	1	3	0	14	0
Bhagalpur	0530	49	1003·5	998·0	..	26·3	25·6	25·3	32·2	94	..	7·3	..	2·9	0	0	19	0	1	5	10	1	0	1	1	11	0
	0830	,,	1004·7	999·2	−0.8	29·0	26·7	25·7	33·0	83	+1	7·1	+1·6	5·7	0	2	26	0	0	6	10	6	3	2	1	2	0
	1130	,,	1004·0	998·6	..	31·1	27·2	25·7	33·0	73	..	7·0	..	6·4	0	1	27	0	2	9	7	3	3	2	2	2	0
	1730	,,	1001·5	996·0	..	29·6	26·8	25·7	33·0	80	..	7·4	..	3·5	0	0	20	0	0	8	6	2	1	2	1	10	0
	2330	,,	1004·1	998·6	..	27·4	26·3	25·9	33·4	91	..	5·7	..	4·0	0	0	19	0	0	8	8	0	0	1	2	11	0
Sabau	0830	37	1004·8	1000·6	−0·4	28·6	26·9	26·3	34·2	87	+4	6·1	+0·4	6·1	0	1	29	1	0	9	8	2	3	4	3	0	0
	1730	,,	1001·3	997·1	..	29·8	27·8	27·0	35·7	86	..	6·5	..	3·5	0	0	22	0	1	9	4	3	1	0	4	8	0
Jamui	0830	82	1015·0	995·7	..	28·2	27·0	26·5	34·6	91	..	2·8	..	4·1	0	0	29	0	4	12	8	0	0	1	4	1	0
	1730	,,	1005·3	986·1	..	28·6	27·0	26·4	34·4	98	..	1·2	..	3·5	0	0	30	2	0	23	0	2	0	3	0	0	0
Dehri	0830	107	1003·9	991·9	..	28·7	26·2	25·1	31·9	81	..	4·9	..	2·7	0	0	27	0	2	5	10	3	2	3	2	3	0
	1730	,,	1000·2	988·3	..	29·2	20·3	25·1	31·9	79	..	5·4	..	3·0	0	0	28	8	3	7	0	0	1	7	2	2	0
Gaya	0230	116	1002·7	999·7	..	26·4	25·7	25·4	32·4	94	..	3·7	..	3·1	0	1	17	1	0	6	4	1	5	1	0	12	0
	0530	,,	1002·8	989·7	..	26·1	25·5	25·2	32·1	95	..	4·7	..	2·9	0	0	15	1	1	4	3	2	3	1	0	1	0
	0830	,,	1004·3	991·3	−0·9	28·3	26·2	25·3	32·2	84	+9	5·0	+1·3	6·1	0	2	25	1	2	4	6	3	6	3	2	3	0
	1130	,,	1003·8	991·0	..	30·9	26·8	25·1	31·9	71	..	5·2	..	6·5	0	1	27	3	4	3	7	3	1	3	4	2	0
	1730	,,	1001·1	938·1	..	29·1	26·5	25·4	32·4	81	..	5·7	..	4.3	0	0	23	1	3	6	5	3	1	2	2	7	0
	2330	,,	1003.6	990·5	..	26·7	25·8	25·5	32·6	93	..	4·3	..	3·1	0	1	16	0	1	4	7	0	3	2	0	13	0
Uttar Pradesh (East)																											
Kheri	0830	147	1003·4	986·9	−1·6	26·1	22·1	24·5	32·4	91	+7	4·3	+0·8	3·0	0	0	27	0	2	20	0	0	0	5	0	3	0
	1730	,,	1000·4	984·0	..	28·5	26·0	25·0	31·7	82	..	4·3	..	2·8	0	0	25	4	1	12	0	1	0	6	1	5	0
Baharaich	0830	124	1004·6	990·7	+0·5	27·6	15·4	24·5	30·7	84	+6	5·2	+2·4	7·0	0	1	21	2	2	14	1	0	0	3	0	4	0
	1730	,,	1001·1	987·3	..	28·9	26·0	24·8	31·3	80	..	5·9	..	4·3	0	1	16	2	1	6	1	0	0	5	2	13	0
Nautanwa]	0830	99	1013·7	992·6	..	27·8	25·6	24·8	31·3	85	..	5·0	..	4·0	0	0	27	1	5	15	3	0	0	1	2	3	0
	1730	,,	1000·3	989·3	..	29·3	26·4	25·2	32·1	79	..	4·0	..	1·0	0	0	19	2	4	8	4	1	1	2	0	11	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)— (*Contd.*)																											
Hardoi	0830	142	..	..	..	26·7	25·2	24·5	30·7	86	+4	3·9	+0·6	5·0	0	0	26	3	0	11	5	0	1	2	4	4	0
	1730	,,	..	..	..	30·7	27·2	25·6	32·6	75	..	3·8	..	3·3	0	1	23	2	1	11	3	0	0	4	3	6	0
Gonda	0830	110	1004·6	994·0	..	27·9	26·0	25·2	32·1	85	+4	4·9	+0·7	2·2	0	0	22	0	0	18	0	0	0	0	4	8	0
	1730	,,	1001·3	988·8	..	28·5	26·5	25·7	33·0	84	..	4·7	..	0·7	0	0	9	0	0	8	0	0	0	0	1	21	0
Lucknow	0830	111	1003·1	990·7	−1·9	27·3	25·5	24·6	30·9	86	+7	4·1	+0·5	1·9	0	0	24	0	6	4	3	3	0	2	6	6	0
	1730	,,	1000·3	987·9	..	29·6	25·9	24·2	30·2	74	..	4·6	..	1·7	0	0	15	3	2	1	2	0	0	2	5	15	0
Lucknow (Amausi)	0230	128	1002·1	987·7	..	25·6	24·9	24·5	30·7	94	..	3·6	..	3·7	0	1	14	0	5	5	2	0	1	2	0	15	0
	0530	,,	1002·3	987·9	..	25·0	24·4	24·2	30·2	95	..	4·0	..	4·3	0	1	12	0	1	6	2	0	2	1	1	17	0
	0830	,,	1003·7	989·0	−1·8	27·5	25·5	24·6	30·9	85	+10	4·4	+0·8	8·5	0	2	22	2	4	9	3	3	0	2	1	6	0
	1130	,,	1003·5	989·3	..	30·0	26·2	24·5	30·5	74	..	5·6	..	12·0	0	6	23	3	3	7	6	3	1	2	4	1	0
	1430	126	1001·5	986·9	..	30·7	26 2	24·1	30·1	68	..	5·7	..	11·0	0	6	21	2	2	5	4	2	2	2	8	3	0
	1730	,,	1000·4	986·3	..	29·2	25·6	24·0	29·8	75	..	5·4	..	9·3	0	4	20	2	4	2	3	3	0	3	7	6	0
	2030	,,	1002·4	988·1	..	26·8	25·4	24·7	31·1	88	..	4·3	..	5·6	0	2	13	0	3	4	3	2	2	1	0	15	0
	2330	,,	1003·0	988·6	..	26·1	25·1	24·7	31·1	92	..	3·8	..	3·0	0	0	11	0	2	3	3	0	0	3	0	19	0
Faizabad	0830	102	1003·3	992·4	..	27·7	25·7	24·9	31·5	85	..	5·2	..	3·3	0	0	22	1	5	4	8	0	0	2	1	8	1
	1730	,,	1000·8	989·4	..	28·7	26·2	25·1	31·9	82	..	5·9	..	3·1	0	0	17	0	5	4	5	0	1	2	0	13	0
Gorakhpur	0830	77	1003·5	994·8	−2·0	28·3	26·2	25·2	32·1	83	+2	5·1	+1·7	1·9	0	0	24	2	2	12	3	2	0	3	0	6	0
	1730	,,	1000·2	991·8	..	29·7	26·5	25·1	31·9	77	..	5·8	..	1·6	0	0	23	1	3	9	2	1	4	1	2	7	0
Gorakhpur P.B.O.	0230	78	1002·3	993·5	..	26·8	..	..	..	..	..	3·9	..	5·1	0	1	21	3	6	5	5	1	0	1	1	8	0
	0530	,,	1002·8	993·8	..	26·2	..	..	..	..	..	5·3	..	4·7	0	1	21	2	8	6	2	0	0	3	1	8	0
	1130	,,	1004·0	995·3	..	29·4	..	..	..	..	..	5·9	..	6·7	0	1	28	0	9	9	3	2	1	5	0	1	0
	1430	,,	1001·4	992·8	..	29·9	..	..	..	..	..	6·1	..	6·9	0	1	27	4	5	7	5	2	2	1	2	2	0
	2030	,,	1002·8	994·0	..	27·9	..	..	..	..	..	3·2	..	2·9	0	0	15	1	6	3	3	0	1	1	0	15	0
	2330	,,	1003·2	994·1	..	27·3	..	..	..	..	..	3·4	..	3·3	0	1	16	1	7	3	1	3	1	0	1	13	0
Kanpur	0830	126	1003·8	908·9	−2·1	27·0	25·5	24·8	31·3	88	+6	4·1	+1·5	5·8	0	1	25	4	1	9	2	2	3	4	1	4	0
	1730	,,	999·9	986·0	..	29·0	25·8	24·3	30·4	74	..	4·6	..	6·1	0	1	25	7	0	7	0	4	2	5	1	4	0
Kanpur (Aerodrome)	0530	126	1002·3	988·1	..	25·3	24·8	24·3	30·4	95	..	4·7	..	5·9	0	0	19	1	4	3	3	1	1	5	1	11	0
	0830	,,	1003·4	989·6	..	27·6	25·7	24·3	31·3	85	..	4·8	..	11·5	0	2	26	3	3	5	4	5	1	4	2	2	1
	1130	,,	1003·5	989·6	..	30·4	26·6	24·8	31·3	73	..	5·3	..	14·6	0	2	28	8	3	4	3	3	4	4	1	0	0
	1730	,,	1000·6	986·5	..	29·8	26·0	24·3	30·4	75	..	5·5	..	11·7	0	3	24	7	2	5	1	2	3	3	3	3	1
	2330	,,	1002·6	988·8	..	26·5	25·3	24·8	31·3	91	..	4·2	..	5·4	0	0	18	3	4	4	2	1	1	3	0	12	0
Sultanpur	0830	97	1003·8	993·0	..	28·0	26·2	25·3	32·2	86	..	4·4	..	1·3	0	0	12	0	2	2	6	0	0	0	2	18	0
	1730	,,	1000·6	989·8	..	29·2	26·5	25·4	32·4	81	..	4·8	..	1·0	0	0	8	0	2	2	2	0	2	0	0	22	0
Azamgarh	0830	78	1003·7	995·0	..	27·7	26·3	25·7	33·0	89	..	5·3	..	9·7	0	1	29	2	5	14	1	0	1	7	0	0	0
	1730	,,	1000·6	992·2	..	29·0	26·8	26·0	33·6	85	..	5·4	..	7·0	0	0	30	3	2	18	0	1	1	5	0	0	0
Fatehpur	0830	114	1003·8	991·0	..	27·9	26·0	25·2	32·1	85	+4	3·8	+0·1	5·2	0	1	24	1	3	4	3	4	3	3	4	5	0
	1730	,,	1000·7	998·0	..	29·6	26·4	25·1	31·9	77	..	5·1	..	3·5	0	0	20	1	4	1	3	1	4	0	6	10	0
Ballia	0830	64	1004·8	997·7	..	28·8	26·9	25·8	33·2	81	..	4·8	..	2·6	0	0	23	0	1	11	3	1	1	4	2	7	0
	1730	,,	1001·6	994·9	..	29·0	26·7	25·6	32·8	82	..	6·3	..	1·1	0	0	10	0	0	7	1	1	0	1	0	20	0
Uttar Pradesh (West)																											
Banda	0830	121	1004·4	990 8	..	28·1	25·9	25·0	31·7	82	..	3·7	..	2·3	0	0	25	1	3	0	5	1	9	0	6	5	0
	1730	,,	1001·2	995·4	..	29·4	26·6	25·3	32·2	77	..	4·6	..	2·3	0	0	29	1	5	1	5	0	7	1	9	1	0
Allahabad (Bamhrauli)	0230	98	1002·1	991·1	..	25·9	24·9	24·5	30·8	92	..	5.0	..	1·3	0	0	9	1	1	3	0	0	2	2	0	21	0
	0530	,,	1002·2	991.2	..	25·7	24·8	24·4	30·7	93	..	5·4	..	1·7	0	0	9	0	2	2	0	1	1	3	0	21	0
	0830	,,	1003·8	992·8	−1·5	28·0	25·9	25·0	31·8	84	+5	5·3	+0·8	3·0	0	0	24	0	2	8	3	2	2	6	1	6	0
	1130	,,	1003·7	992·9	..	30·7	26·6	24·9	31·6	72	..	5·3	..	5·4	0	1	28	3	7	2	5	2	5	4	1	1	0
	1430	,,	1001·3	990·4	..	31·1	26·9	25·1	31·8	72	..	6·2	..	4·2	0	0	25	3	6	2	0	3	0	6	5	5	0
	1730	,,	1000·7	989·8	..	29·5	26·3	24·9	31·6	77	..	6·2	..	3·1	0	0	22	3	3	4	1	1	3	2	5	8	0
	2030	,,	1002·6	991·7	..	27·3	25·7	24·9	31·6	87	..	5·3	..	1·3	0	0	11	2	4	0	0	0	3	2	0	19	0
	2330	,,	1003·0	992·0	..	26.5	25·3	24·8	31·3	91	..	5·1	..	1·5	0	0	8	1	0	3	0	0	3	1	0	22	0
Varanasi (Babatpur)	0530	85	1003·3	993·6	..	26.4	25·3	24·8	31·3	91	..	5·3	..	4·5	0	1	11	0	3	4	1	0	0	4	0	18	0
	0830	,,	1004·8	995·4	−0·1	28·3	26·3	25·5	32·6	85	+2	5·2	+0·2	9·4	0	3	24	0	5	8	4	1	2	6	1	3	0
	1130	,,	1004·4	994·9	..	30·5	26·7	25·1	31·8	74	..	5·8	..	9·3	0	0	27	0	3	8	3	0	5	6	2	3	0
	1730	,,	1001·3	992·0	..	29·0	26·1	24·8	31·3	79	..	5·8	..	6·3	0	0	21	0	3	3	3	1	1	8	2	9	0
	2330	,,	1004·0	994·3	..	27·5	25·9	25·2	32·0	87	..	4·2	..	3·1	0	1	11	0	1	5	0	0	1	5	0	18	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) *(Contd.)*																											
Varanasi	0830	76	1003·7	995·2	−1·5	27·7	26·2	25·4	32·4	86	+6	4·8	+0·6	2·5	0	0	30	1	6	3	2	2	1	13	2	0	0
	1730	,,	1000·4	992·2	..	29·6	26·4	25·1	31·9	77	..	5·7	..	1·9	0	0	24	1	4	4	0	0	2	9	4	6	0
Mukhim	0830	..	..	..	..	18·0	16·5	15·5	17·5	83	..	5·6	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	18·9	16·8	15·5	17·5	82	..	5·0	..	3·1	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	,,	..	..	..	23·7	21·7	20·8	25·6	84	..	4·8	..	0·6	0	0	6	4	1	0	0	1	0	0	0	24	0
	1130	,,	..	..	..	28·5	23·0	20·5	24·1	63	..	4·2	..	1·6	0	0	13	1	2	1	3	4	1	1	0	17	0
	1730	,,	..	..	..	28·7	22·7	19·9	23·2	60	..	4·0	..	2·0	0	0	15	1	0	0	6	7	1	0	0	15	0
Dehra Dun	0530	682	1003·6	928·3	..	21·9	20·8	20·2	23·7	91	..	5·1	..	1·3	0	0	11	4	5	0	2	0	0	0	0	19	0
	0830	,,	1004·5	929·2	−1·3	23·6	21·6	20·2	23·7	85	+5	4·8	+1·0	1·3	0	0	18	6	1	0	3	3	3	2	0	12	0
	1130	,,	1003·7	929·2	..	26·5	23·1	21·5	25·6	75	..	5·3	..	1·7	0	0	20	0	1	0	3	4	3	8	1	10	0
	1730	,,	1001·1	927·2	..	26·3	23·3	21·9	26·3	76	..	5·1	..	1·3	0	0	16	1	1	0	0	0	4	8	2	14	0
	2330	,,	1003·9	928·7	..	23·9	21·9	21·4	25·5	91	..	4·5	..	0·7	0	0	9	3	6	0	0	0	0	0	0	21	0
Mansiari	0830	..	..	..	..	15·6	14·3	13·6	15·6	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·9	15·0	14·0	16·0	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1004·2	972·5	−2·2	25·3	23·6	22·8	27·8	86	+7	4·6	+1·7	1·2	0	0	18	0	2	0	10	0	0	0	6	12	0
	1730	,,	1001·3	971·1	..	29·2	25·3	23·9	29·7	73	..	3·8	..	1·1	0	0	17	0	1	0	9	0	0	0	7	13	0
Najibabad	0830	270	1004·4	973·7	..	25·8	24·0	23·1	28·3	85	..	4·5	..	4·1	0	0	25	1	0	10	8	1	0	2	3	5	0
	1730	,,	1002·3	972·1	..	29·1	25·2	24·0	29.8	73	..	4·1	..	4·5	0	0	29	0	1	11	7	0	0	6	4	1	0
Meerut	0830	222	1004·5	980·0	−0.4	27·9	24·5	23·0	28·1	74	−2	3·1	+0.7	4·9	0	0	30	2	0	11	1	8	0	4	4	0	0
Bareilly	0830	173	1004·1	984·7	−1.2	26·8	25·0	24·4	30·5	88	+8	4·2	+0.9	5·7	0	0	30	4	1	4	11	1	4	2	3	0	0
	1730	,,	1000·8	981·6	..	29·1	26·0	24·7	31·1	79	..	4·2	..	3·5	0	1	24	5	0	3	8	1	0	2	6	5	0
Bareilly P.B.O.	0230	172	1002·5	984·5	..	25·7	24·4	23·9	29·7	89	..	3·2	..	2·8	0	0	21	1	3	9	1	0	2	3	2	9	0
	0530	,,	1002·3	983·2	..	25·3	24·3	23·7	29·3	91	..	4·0	..	3·1	0	0	21	0	6	9	0	0	0	4	2	9	0
	1130	,,	1004·2	985·0	..	28·7	25·2	23·7	30·7	76	..	5·3	..	4·5	0	0	29	2	2	12	4	0	0	4	5	1	0
	1430	,,	1001·9	980·5	..	29·6	25·4	23·9	29·5	73	..	5·1	..	4·7	0	0	30	1	6	8	2	0	1	9	3	0	0
	2030	,,	1002·6	983·2	..	27·2	25·0	24·3	30·4	85	..	2·9	..	4·0	0	1	18	0	7	6	1	0	0	5	0	11	0
	2330	,,	1003·2	983·8	..	25·5	24·8	24 2	30·2	88	..	3·2	..	5·8	0	0	23	1	6	7	2	0	1	4	2	7	0
Aligarh	0830	187	1004·3	983·0	..	26·8	24·5	23·6	29·1	83	+12	3·8	+1·2	3·7	0	0	29	6	2	8	1	0	2	7	3	1	0
	1730	,,	1001·1	979·9	..	30·1	25·7	23·1	28·3	68	..	4·3	..	2·2	0	0	26	8	2	6	0	0	0	8	2	4	0
Mainpuri	0830	157	1001·7	985 4	2.1	27·1	25·2	24·6	30·9	87	+11	2·7	−0.7	2·6	0	0	26	0	7	2	10	1	0	2	4	4	0
	1730	,,	1000·5	982·4	..	29·7	26·1	24·6	30·9	76	..	3·2	..	2·7	0	0	27	0	04	01	7	1	0	11	3	3	0
Agra	0830	169	1004·5	985·7	−0.6	27 3	24·9	23·8	29·5	81	+6	2·5	−0.6	0·3	0	0	1	0	0	0	0	0	1	0	0	29	0
	1730	,,	999·5	990·8	..	29·5	25·3	23·6	29·1	71	..	3·5	..	1·1	0	0	3	0	1	0	0	0	0	1	1	27	0
Agra (Aerodrome)	0230	169	1002·4	983·5	..	25·2	24·3	24·3	30·4	96	..	3·0	..	5·0	0	1	12	1	1	1	0	0	2	6	2	17	0
	0530	,,	1002·6	983·6	..	24·4	24·1	23·9	29·6	97	..	3·5	..	5·5	0	0	16	2	1	2	1	1	0	6	3	14	0
	0830	,,	1004·3	985·5	..	26·5	25·4	24·5	30·6	95	..	3·6	..	8·5	0	1	23	2	3	1	2	0	2	6	8	6	0
	1130	,,	1004·3	985·1	..	30·4	26·3	24·7	31·1	73	..	3·9	..	11.4	0	3	22	4	2	1	3	1	1	3	9	5	1
	1730	,,	1001·1	982·3	..	29·3	25·8	24·2	30·2	75	..	3·9	..	12·7	0	4	26	6	8	3	2	0	0	4	7	0	0
	2330	,,	1003·5	984·9	..	25·9	24·9	24.5	30·6	92	..	2·9	..	7·6	0	2	18	0	2	3	2	1	2	6	4	10	0
Orai (R)	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	..	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jhansi	0830	251	1004·3	976·6	−1·1	26·5	24·3	23·3	28·6	83	+9	4·2	+1·3	4·8	0	0	19	7	0	8	0	3	0	1	0	11	0
	1730	,,	1001·4	973·8	..	29·8	24·9	22·7	27·6	67	..	5·1	..	1·2	0	0	23	9	0	8	0	6	0	0	0	7	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1003·2	968·2	..	23·3	21·9	21·2	25·1	88	..	3·6	..	2·3	0	0	7	3	4	0	0	0	0	0	0	23	0
	0830	,,	1004·2	969·3	−0.8	26·1	23·4	21·6	25·8	76	+2	3·6	+0.1	4·9	0	0	19	1	3	9	6	0	0	0	0	11	0
	1130	,,	1004·5	970·1	..	28·9	24·1	21·8	26·1	66	..	4·1	..	7·7	0	1	26	0	2	2	3	9	7	2	2	3	0
	1730	,,	1000·9	966·8	..	30·2	24·3	21·3	25·3	60	..	3·4	..	7·1	0	1	23	1	2	0	0	2	3	13	3	6	0
	2330	,,	1003·2	968·3	..	24·6	22·8	21·9	26·3	83	..	2·2	..	1·1	0	0	5	1	2	1	0	0	0	0	0	26	0
Amritsar (Rajasansi)	0530	234	1002·8	976·4	..	24·2	23 1	22·6	27·3	91	.	2·3	..	4·3	0	1	14	0	1	7	2	2	0	1	2	15	0
	0830	,,	1003·9	977·7	−0.6	26·9	24·3	23·1	28·1	80	+3	2·2	+0.2	5·7	0	0	21	1	0	6	4	5	2	2	1	9	0
	1130	,,	1004·3	978·4	..	30·9	25·1	22·4	27·1	62	..	2·4	..	7·0	0	1	19	0	1	4	5	1	2	4	3	10	0
	1430	,,	1002·3	976·7	..	32·5	25·2	21·7	25·9	55	..	2·8	..	9 9	0	1	24	2	0	5	5	2	2	3	6	5	0
	1730	,,	1001.0	975·3	..	31·9	25·1	21·7	25·9	57	..	2·0	..	9·2	0	4	22	1	2	4	4	1	3	5	6	4	0
	2030	,,	1002.1	976·0	..	27·5	24·6	23·3	28·6	78	..	0·8	..	3·1	0	1	9	0	2	3	1	0	2	1	1	20	0
Adampur (Aerodrome)	0830	249	1004·0	976·3	..	25·9	24·1	23·2	28·4	84		3·0	..	6·4	0	1	17	0	1	6	8	2	0	0	1	12	0
	1730	,,	1001·4	973·9	..	29·8	25·5	23·6	29·1	69	..	3·3	..	10·2	0	2	26	4	1		4	3	0	3	11	2	0

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(*Contd.*)																											
Ludhiana	0830	247	1003·8	976·2	—1·3	25·9	24·0	23·1	28·3	85	+13	2·8	+1·0	2·1	0	0	26	1	2	3	7	5	1	6	1	4	0
	1730	,,	1001·0	973·8	..	30·8	25·7	23·4	28·9	66	..	2·1	..	2·3	0	0	26	1	0	0	8	0	7	2	8	4	0
Ferozepore	0830	200	1003·9	981·6	..	27·0	24·1	22·8	27·8	78	..	1·2	..	1·9	0	0	24	3	5	0	2	2	7	1	4	6	0
	1730	,,	1000·8	978·9	..	30·9	25·4	22·8	27·8	63	..	0	..	1·7	0	0	23	11	4	0	0	0	1	0	7	7	0
Halwara (Aerodrome)	0830	242	1004·2	977·4	..	26·5	24·4	23·3	28·6	83	..	3·3	..	7·9	0	1	23	2	1	4	5	4	3	3	2	6	0
	1730	,,	1001·4	975·0	..	30·8	25·3	23·0	28·1	64	..	2·7	..	10·6	0	2	28	5	3	2	3	2	0	3	12	0	0
Chandigarh	0830	347	1003·7	965·1	—0·6	26·5	23·5	22·2	26·8	81	+8	2·4	—0·3	2·0	0	0	16	0	0	0	1	0	0	0	15	14	0
	1730	,,	1000·8	962·4	..	29·0	24·4	21·1	26·6	66	..	2.7	..	1·0	0	0	13	0	0	0	9	0	0	0	4	17	0
Ambala	0830	272	1003·4	973·0	—1·7	25·9	23·1	21·5	25·6	75	+1	3·1	+0·6	0·7	0	0	6	1	0	0	4	0	0	0	1	24	0
	1730	,,	1000·5	970·9	..	30·3	25·0	22·6	27·4	64	..	1·3	..	2·9	0	0	21	0	3	0	9	0	0	1	8	9	0
Ambala P.B.O.	0230	278	1002·2	971·1	.	25·5	23·8	23·2	28·4	87	..	2·4	..	4·7	0	0	17	1	0	0	9	0	1	2	4	13	0
	0530	,,	1002·4	971·2	..	24·6	23·3	22·8	27·8	89	..	3·0	..	5·0	0	1	17	0	2	1	6	3	0	2	4	12	0
	1130	,,	1004·0	973·2	..	29·3	24·8	23·0	28·1	70	..	4·1	..	7·1	0	1	22	2	0	3	7	0	1	5	5	7	0
	1430	,,	1001·8	971·3	..	30·9	25·0	22·7	27·6	51	..	3·8	..	7·9	0	1	25	1	0	2	5	0	3	7	8	4	0
	2030	,,	1001·6	970·8	..	28·2	24·9	23·6	29·1	77	..	1·9	..	5·1	0	0	20	2	1	0	6	1	0	4	6	10	0
	2330	,,	1002·6	971·6	..	26·8	24·3	23·3	28·6	82	..	1·7	..	5·7	0	0	18	1	0	1	4	1	2	1	7	12	1
Ambala (Aerodrome)	0530	274	1002·6	971·7	..	23·3	23·2	23·2	28·4	99	..	3·0	..	6·2	0	3	11	0	0	7	2	0	0	2	2	16	1
	0830	,,	1003·9	973·2	..	25·9	24·5	23·8	29·5	89	..	3·3	..	10·0	0	3	20	1	1	7	3	0	1	4	4	7	2
	1130	,,	1003·9	973·6	..	29·3	26·1	24·7	31·1	77	..	4·0	..	11·4	0	6	18	2	0	7	4	1	0	4	5	6	1
	1730	,,	1000·6	970·4	..	29·5	26·6	25·5	32·6	78	..	3·4	..	9·0	0	0	22	1	1	3	0	0	0	4	12	8	1
	2330	,,	1002·8	972·1	..	24·9	24·4	24·2	30·2	97	..	2·0	..	7·0	0	1	17	2	0	6	2	1	0	2	5	12	0
Patiala	0830	251	1004·4	976·4	..	26·2	24·2	23·2	28·4	84	..	4·6	..	7·6	0	1	21	1	0	0	9	0	0	0	12	8	0
	1730	,,	1001·7	973·8	..	30·2	25·6	23·3	28·6	69	..	2·7	..	6·3	0	0	17	0	0	0	1	0	0	0	16	13	0
Bhatinda	0830	211	1003·3	980·0	..	29·5	25·9	24·1	30·0	74	..	0·6	..	1·5	0	3	15	0	2	0	4	0	3	1	5	15	0
	1730	,,	1002·0	977·2	..	33·1	26·5	23·5	29·0	58	..	0·4	..	1·2	0	0	11	0	2	2	1	0	1	1	4	19	0
Karnal	0830	249	1003·8	976·8	..	27·1	24·2	22·3	27·8	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	999·8	972·5	..	30·4	25·4	23·1	28·3	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1003·0	977·9	..	24·2	23·6	23·1	28·3	91	..	2·4	..	2·1	0	0	17	2	2	3	1	0	5	1	3	13	0
	0830	,,	1004·5	979·8	—0·5	26·6	24·3	23·5	29·0	84	+19	1·4	—0·2	3·7	0	0	25	0	0	2	3	5	4	10	1	5	0
	1130	,,	1004·4	980·0	..	31·5	26·6	24·5	30·7	67	..	2·5	..	3·9	0	0	24	1	1	3	3	1	4	5	6	6	0
	1730	,,	1001·3	977·1	..	31·0	26·6	24·2	30·2	65	..	2·8	..	4·9	0	0	27	5	3	7	1	0	5	4	2	3	0
	2330	,,	1002·9	978·5	..	26·1	24·5	23·7	29·3	87	..	1·7	..	2·6	0	0	21	1	1	4	2	2	5	2	4	9	0
New Delhi	0530	216	1002·7	978·4	..	25·2	23·9	23·1	28·6	86	..	2·4	..	5·3	0	1	16	1	1	3	3	0	4	2	3	13	0
	0830	,,	1002·9	978·6	..	25·0	23·4	22·7	27·4	87	..	2·9	..	5·4	0	1	20	2	0	4	3	0	5	5	2	9	0
	1130	,,	1004·5	980·3	—0·7	26·9	24·1	22·8	27·8	79	+5	3·7	+0·4	8·2	0	4	24	2	5	3	3	1	2	9	3	2	0
	1430	,,	1004·5	980·5	..	30·2	24·8	22·3	26·9	64	..	4·1	..	10·2	0	4	21	0	2	4	2	0	0	6	11	5	0
	1730	,,	1002·3	978·5	..	31·4	25·0	21·9	26·4	59	..	4·3	..	11·0	0	2	24	3	1	3	0	1	1	4	13	4	0
	2030	,,	1001·3	977·4	..	30·9	24·9	22·1	26·6	62	..	3·6	..	9·2	0	2	24	1	7	1	2	0	0	6	9	4	0
	2030	,,	1002·5	978·4	..	27·9	24·6	23·0	28·3	75	..	2·0	..	4·6	0	0	21	0	3	5	2	0	2	4	5	9	0
	2320	,,	1003·3	979·1	..	26·4	24·2	23·2	28·4	83	..	2·0	..	5·1	0	1	18	1	4	4	1	0	6	0	3	11	0
Palam (Aerodrome)	0230	233	1002·7	976·5	..	25·0	23·6	23·0	28·1	86	..	2·3	..	6·3	0	1	21	2	0	3	5	3	3	5	1	8	0
	0530	,,	1002·9	976·7	..	24·3	23·0	22·4	27·1	88	..	2·5	..	5·6	0	1	22	1	1	3	4	2	3	6	3	7	0
	0830	,,	1004·5	978·5	..	26·3	24·2	23·1	28·3	82	..	3·5	..	7·8	0	1	24	2	1	1	6	4	1	6	4	5	0
	1130	,,	1004·4	978·9	..	30·1	25·0	22·9	27·9	67	..	3·5	..	11·2	0	2	27	5	1	3	4	0	0	7	9	1	0
(R)	1430	,,			..																						
	1730	,,	1003·1	977·2	..	30·7	25·1	22·4	27·5	63	..	3·5	..	10·4	0	2	28	6	5	3	4	0	1	1	10	0	0
(R)	2030	,,			..																						
	2330	,,	1003·4	977·6	..	26·5	24·9	23·2	28·4	82	..	2·2	..	6·8	0	2	21	2	0	3	8	2	2	5	1	7	0
Himachal Pradesh																											
Mandi	0830	761	1005·2	921·6	—0·2	22·3	20·4	19·3	22·4	82	—4	3·8	—0·3	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	1000·6	918·8	..	26·8	22·6	20·4	24·0	69	..	4·9	..	0·1	0	0	1	0	0	0	0	0	0	0	0	29	1
Bilaspur	0830	587	1004·9	939·7	..	22·4	21·5	21·2	25·2	91	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	1002·5	938·8	..	28·9	24·8	23·3	28·1	70	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jammu and Kashmir																											
Miagar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind Direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Skardu . . . (R)	0830																										
(R)	1730																										
Leh	0530	3514	3098.8	665.8	..	5.0	1.3	—3.1	4·8	59	..	2.1	..	4.6	0	0	25	11	9	0	0	4	0	1	0	5	0
	0830	,,	3098.0	666.4	—0·8	13.2	6.2	—2.3	5.5	39	—11	2.0	—0.9	2.7	0	0	18	0	0	0	0	11	6	1	0	12	0
	1730	,,	3100.8	667.2	..	18.0	10.3	3.9	8.2	43	..	2.6	..	4.2	0	0	30	0	3	0	0	7	9	10	1	0	0
Srinagar	0830	1587	1473.8	838·9	—1·0	16·3	14·7	13.7	15·7	85	0	2·8	+0.5	1·8	0	0	16	1	1	5	6	0	0	2	1	14	0
	1130	,,	1469.8	838.8	..	22.9	17.3	14.2	16.2	59	..	2.9	..	2.7	0	0	23	9	0	3	1	3	1	3	3	7	0
	1430	,,	1452.5	837.3	..	25.4	18.4	14.5	16.5	50	..	3·3	..	4.5	0	0	25	6	1	1	4	1	0	2	10	5	0
	1730	,,	1442.5	836.3	..	23.6	17.2	13.5	15.7	54	..	3.1	..	2.5	0	0	19	3	1	0	4	2	1	2	6	11	0
	2030	,,	1452.1	836.9	..	19.2	16.1	14.3	16.3	74	..	2.2	..	1.9	0	0	11	0	1	3	1	1	2	0	3	19	0
Srinagar (Aerodrome) .	0530	1666	1456.9	829.6	..	14.0	12·2	10.5	12.9	80	..	3.0	..	1.7	0	0	8	1	1	1	1	2	1	0	1	22	0
	0830	,,	1464.7	830.7	..	17.4	14.0	11.8	13.8	70	..	3.3	..	2.7	0	0	15	2	2	0	3	1	1	1	5	15	0
	1130	,,	1466.3	830.7	..	22.3	15.9	12.1	14.1	53	..	3.5	..	3.9	0	0	21	5	4	3	2	1	0	1	5	9	0
	1730	,,	1433·6	828.2	..	24.3	16.0	10.6	12.7	44	..	4.6	..	4.2	0	0	17	1	2	1	2	1	0	4	6	13	0
	2330	,,	1454.7	829.6	..	16.9	13.7	11.6	13.7	73	..	2.2	..	0.8	0	0	2	0	0	0	0	1	0	0	1	28	0
Gulmarg	0830	2655	3100.5	738.6	—1.3	11.8	9.7	8·0	10.7	78	—2	2.7	+0.5	0.9	0	0	7	0	4	2	0	0	0	1	0	23	0
	1730	..	3094.8	737.6	..	14.8	12.2	10.3	12.5	75	..	3.6	..	2.5	0	0	16	3	6	1	0	1	5	0	0	14	0
Quazigurd . . .	0830	..	..	..	..	16.9	14.6	13.2	15.2	79	..	3.2	..	1.1	0	0	16	1	5	1	2	1	4	1	1	14	0
	1730	..	..	..	..	21.9	17.1	14.4	16.4	63	..	4.7	..	6.0	0	2	21	1	2	2	0	2	13	1	2	7	0
Banihal . . .	0830	..	..	..	..	17.5	15.1	13.5	15.5	78	..	3.4	..	0.5	0	0	2	1	0	0	0	0	0	0	1	28	0
	1730	..	..	..	..	22.0	16.8	14.0	16.0	61	..	4.3	..	6.4	0	0	24	0	0	1	5	10	1	2	5	6	0
Jammu	0830	..	..	..	..	25.2	23.3	20.7	24.4	77	+9	4.0	+2·2	5.1	0	0	28	7	11	1	1	1	0	0	3	2	4
	1730	..	..	..	..	29.6	24.7	22.4	27.1	65	..	5.4	..	2.8	0	0	14	0	4	1	0	4	2	1	2	16	0
Jammu (Aerodrome) . .	0530	292	1003.2	970.0	..	23.9	21.9	20.7	24.4	83	..	2.9	..	4.5	0	2	9	0	7	2	0	1	0	0	1	19	0
	0830	,,	1004.1	971.3	..	25·7	22.7	21.1	25.0	76	..	4.1	..	4.6	0	0	21	0	8	4	4	0	0	2	3	9	0
	1130	,,	1004.5	972.0	..	29.0	24.2	21.8	26.1	60	..	3.9	..	7.5	0	1	21	1	1	1	5	9	2	0	3	8	0
	1730	,,	1001.2	969.0	..	30.8	24.1	20.8	24.6	57	..	3.2	..	4.6	0	0	17	0	0	2	2	3	2	7	1	13	0
	2330	,,	1002.9	970.1	..	25.6	22.7	21.2	25.2	75	..	1.2	..	1.6	0	0	7	0	3	2	2	0	0	0	0	23	0
Rajasthan (West)																											
Ganganagar . .	0530	177	1002.4	982.4	..	25.1	22.5	21.2	25.2	79	..	1.5	..	4.0	0	0	22	0	1	3	5	4	9	0	0	8	0
	0830	,,	1003.5	983.3	—1 5	26.9	23.4	21.7	25.9	74	+5	1.0	—0·4	3.8	0	0	25	0	0	3	8	1	12	1	0	5	0
	1130	,,	1003.7	984 3	..	33.4	25.1	20.8	24.5	49	..	1.6	..	6.2	0	0	25	1	2	1	2	2	5	10	2	5	0
	1730	,,	1000.4	981.1	..	34.1	24.7	20.6	24·2	49	..	2.4	..	3.3	0	0	22	1	3	6	2	0	6	2	2	8	0
	2330	,,	1002·6	982·8	..	27·7	23·3	21·1	25·0	68	..	1.2	..	3·9	0	0	17	0	0	7	1	3	8	0	0	13	0
Anupgarh . . (R)	0830	654																									
(R)	1730	,,																									
Mahajan	0830	187	1002·2	982·0	..	28 8	26·3	25·4	32·4	79	..	0.6	..	(b) 7·3	0	1	28	0	4	1	3	3	17	1	0	0	0
	1730	,,	999.4	978.6	..	34.9	29.0	26.3	34.2	63	..	0.7	..	(b) 6.9	0	0	29	3	0	1	2	3	12	4	4	0	0
Churu	0830	291	1004·6	972·1	..	27·0	22·8	20·6	24·3	69	..	1.9	..	9.0	0	1	28	0	1	1	0	4	6	14	3	1	0
	1730	,,	1001.0	969.3	..	33.0	29.4	18.0	20·6	42	..	2.8	..	9.0	0	1	29	12	1	3	1	1	2	7	3	0	0
Bikaner	0830	224	1004.1	979.1	—1·1	27.9	22.6	19.7	23.1	61	—7	0·5	—1·0	5.5	0	0	28	1	2	1	1	0	7	10	6	2	0
	1730	,,	1000.4	976.1	..	35.1	23.5	16.9	19.5	35	..	0.6	..	4.5	0	0	26	1	0	1	2	1	8	1	12	4	0
Bikaner P.B.O. . .	0530	224	1002.6	977.5	..	25.8	22.3	20.3	24.1	72	..	1.8	..	2.6	0	1	11	0	0	0	0	3	5	1	2	18	1
	1130	,,	1004.0	979.4	..	33.2	24.7	20.2	24.1	47	..	2.5	..	6·3	0	0	26	2	0	0	1	3	8	7	4	4	1
	2330	,,	1002.8	977.8	..	28.4	22.8	19.9	23.2	60	..	1.6	..	3.7	0	0	15	0	0	2	1	2	10	0	0	15	0
Nagaur	0830	298	1004.3	971.7	..	28.3	24.7	22.3	26.9	69	..	1.9	..	6.3	0	0	30	4	0	1	0	7	9	7	2	0	0
	1730	,,	1001.2	967.5	..	32.7	24.9	21.8	26.2	52	..	3.8	..	5.2	0	0	30	3	3	1	0	8	10	3	2	0	0
Phalodi	0830	234	1004.5	978.4	..	26.7	23.4	21.8	26.1	75	..	2.3	..	9.5	0	1	28	0	1	0	1	6	15	6	0	1	0
	1730	,,	1001.9	976.5	..	34.2	24.8	19.9	23.2	46	..	2.5	..	11.4	0	2	27	2	3	2	1	5	12	2	2	1	0
Jaisalmar . . .	0830	242	1003.4	976.7	..	26.6	20.8	17.2	19.6	57	..	2.0	..	15.8	0	8	22	1	0	0	0	14	14	1	0	0	0
	1730	,,	1000.1	973.8	..	35.6	27.7	24.5	30.7	53	..	2.7	..	15.3	0	5	25	0	1	0	0	14	13	2	0	0	0
Jodhpur	0230	224	1003.1	978.1	..	26.3	23.1	21.4	25.5	75	..	2.1	..	4.9	0	0	22	0	1	0	0	2	11	8	0	8	0
	0530	,,	1003.4	978.1	..	25.3	22.9	21.6	25.8	81	..	2.8	..	5.1	0	0	20	0	1	0	0	0	11	7	1	10	0
	0830	,,	1005.2	980.0	+0.3	26.5	23.8	22.3	26.9	77	+4	3.3	+0.1	7.3	0	2	21	0	1	0	0	0	10	10	2	7	0
	1130	,,	1005.2	980.4	..	32.0	25.1	21.9	26.3	57	..	3.1	..	9.3	0	1	26	1	0	2	0	2	12	8	3	3	0
	1430	,,	1002.3	978.0	..	34.5	25.5	21.2	25·3	44	..	3.5	..	10.9	0	2	26	1	1	1	1	3	12	6	3	2	0

(R) Register not received.

(b) Mean of 29 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(*Contd.*)																											
Jodhpur—(*Contd.*)	1730	224	1001.5	977.0	..	33.0	25.0	20.7	24.4	49	..	3.7	..	5.8	0	2	25	2	3	0	0	3	16	2	1	3	0
	2030	,,	1003.0	978.1	..	29.9	24.3	21.4	25.5	62	..	2.7	..	5.6	0	0	21	1	0	0	1	1	12	4	2	7	0
	2330	,,	1003.9	978.8	..	27.9	23.6	21.4	25.6	68	..	2.3	..	5.0	0	0	22	0	0	1	1	0	12	7	1	8	0
Barmer	0530	194	1002.5	980.7	..	25.7	23.2	21.9	26.3	80	..	1.9	..	2.1	0	0	15	0	0	0	0	0	6	8	1	15	0
	0830	,,	1004.5	982.7	—0.9	26.8	23.9	22.5	27.3	78	+7	2.8	+0.2	1.3	0	0	13	1	0	0	0	0	4	6	2	17	0
	1130	,,	1004.2	983.1	..	31.8	25.2	22.1	26.6	58	..	3.1	..	2.3	0	0	14	1	0	0	0	4	7	2	0	16	0
	1730	,,	1000.8	979.2	..	34.7	26.2	22.3	26.9	50	..	3.2	..	2.2	0	0	17	0	0	0	0	5	8	2	2	13	0
	2330	,,	1003.3	981.7	..	29.7	24.4	21.7	26.0	63	..	1.4	..	1.2	0	0	8	0	1	0	0	0	5	1	1	22	0
Erinpura (Jawai Dam)	0830	295	1005.3	972.3	..	26.1	23.1	21.6	25.7	77	..	3.7	..	1.2	0	0	10	0	0	0	0	3	5	2	0	20	2
	1730	,,	1002.1	969.7	..	30.0	24.4	21.7	25.9	62	..	3.4	..	2.5	0	0	19	0	1	1	0	7	4	6	0	11	0
Munabao (R)	0830	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																											
Pilani (R)	0830	301	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sikar	0830	433	1004.7	956.8	..	27.7	23.1	20.2	23.7	65	..	1.6	..	2.1	0	0	21	5	1	0	0	0	1	13	1	9	0
	1730	,,	999.1	952.7	..	31.8	23.4	18.7	21.6	47		2.7	..	2.8	0	0	24	3	0	2	2	1	3	6	7	6	0
Alwar	0830	271	1002.9	973.1	..	26.8	23.9	22.4	27.1	77	..	3.7	..	1.1	0	0	13	1	7	2	1	0	1	1	0	17	0
	1730	,,	1000.3	970.8	..	30.7	25.1	22.5	27.2	64	..	4.0	..	1.1	0	0	14	6	1	1	1	1	0	2	2	16	0
Jaipur (Sanganer)	0230	390	1002.7	959.4	..	24.5	22.6	21.5	25.6	84	..	2.5	..	1.0	0	0	7	1	1	1	0	0	0	1	3	23	0
	0530	,,	1003.2	959.5	..	23.6	22.1	21.2	25.2	87	..	2.9	..	1.1	0	0	7	1	0	1	0	0	0	2	3	23	0
	0830	,,	1004.3	961.1	—1.9	26.5	23.3	21.6	25.8	74	+2	2.8	0	4.8	0	0	22	2	0	1	1	0	0	6	12	8	0
	1130	,,	1003.9	961.3	..	30.7	24.2	20.9	24.7	57	..	3.4	..	7.7	0	0	26	6	1	2	0	0	2	6	9	4	0
	1430	,,	1001.5	959.1	..	32.2	24.2	19.9	23.2	50	..	4.8	..	9.2	0	0	28	7	3	1	2	0	1	8	6	2	0
	1730	,,	1000.7	958.2	..	30.9	23.6	19.5	22.7	54	..	4.2	..	5.1	0	0	21	4	3	2	1	0	0	7	4	9	0
	2030	,,	1002.7	959.6	..	27.2	23.3	21.2	25.2	71	..	2.8	..	1.8	0	0	6	1	1	1	0	0	0	1	2	24	0
	2330	,,	1003.5	960.2	..	25.7	22.8	21.2	25.2	77	..	2.7	..	0.6	0	0	6	1	0	1	0	0	0	2	2	24	0
Dholpur	0830	176	1003.9	984.1	..	27.3	25.1	24.1	30.0	83	..	3.9	..	2.2	0	0	15	3	4	0	0	1	1	5	1	15	0
	1730	,,	1000.7	981.3	..	29.5	25.9	24.2	30.2	74	..	4.0	..	2.3	0	0	16	3	3	0	1	0	2	3	4	14	0
Ajmer	0830	486	1005.1	951.5	—1.2	26.2	22.2	20.2	23.6	70	+3	3.5	+0.7	8.5	0	3	22	0	1	0	1	0	10	9	4	5	0
	1730	,,	1001.2	948.6	..	30.9	23.5	19.9	23.2	53	..	4.2	..	10.1	0	0	29	3	5	0	0	0	4	8	9	1	0
Tonk	0830	272	1003.2	973.2	..	27.2	25.1	24.1	30.0	86	..	3.1	..	5.1	0	0	30	2	1	1	1	0	3	8	14	0	0
	1730	,,	999.4	970.4	..	31.8	26.2	24.3	30.4	66	..	3.0	..	4.9	0	0	30	5	3	2	1	0	1	10	8	0	0
Bhilwara	0830	425	1005.1	958.1	..	27.0	23.1	20.9	24.7	70	..	5.3	..	3.5	0	0	15	2	0	0	0	0	7	2	4	15	0
	1730	,,	1001.4	955.3	..	30.8	23.3	19.1	22.1	52	..	5.3	..	4.0	0	0	18	3	1	2	0	0	6	3	3	12	0
Kota (Aerodrome)	0530	274	1003.2	972.5	..	25.2	22.9	21.7	25.9	82	..	3.9	..	7.3	0	3	22	0	0	1	0	1	9	14	0	5	0
	0830	,,	1004.9	974.4	..	27.8	23.5	21.4	25.3	69	..	4.5	..	10.5	0	2	27	4	2	3	1	0	3	10	6	1	0
	1130	,,	1004.6	974.5	..	30.9	24.1	20.4	24.4	54	..	5.2	..	13.5	0	6	24	7	3	2	1	1	0	5	11	0	0
	1730	,,	1001.2	971.2	..	31.9	23.9	19.6	23.1	51	..	5.6	..	11.3	0	3	2	6	12	1	2	0	3	4	1	1	0
	2330	,,	1004.0	973.4	..	27.0	23.5	21.7	25.9	73	..	4.6	..	8.7	0	0	25	1	0	2	0	2	11	9	0	5	0
Kota	0830	257	1004.6	976.1	—1.2	28.1	24.3	22.5	27.3	72	+3	3.2	+0.2	8.0	0	2	24	3	0	0	2	0	1	7	13	4	0
	1730	,,	1001.2	973.1	..	31.5	24.8	21.4	25.5	57	..	4.7	..	6.0	0	0	25	7	5	2	0	0	2	3	6	5	3
Chambal (Rawat Bhatta Dam)	0830	351	1005.1	966.0	..	26.2	23.6	22.3	26.9	77	..	3.6	..	2.5	0	0	19	0	1	0	0	1	2	3	12	11	0
	1730	,,	1001.4	963.0		30.6	24.3	21.1	25.0	58	..	4.1	..	6.3	0	0	30	5	6	2	1	1	1	3	11	0	0
Udaipur	0230	582	1004.6	940.4	..	23.1	21.5	20.8	24.6	87	..	2.3	..	0.3	0	0	1	0	0	0	0	1	0	0	0	29	0
	0530	,,	1004.8	940.2	..	22.4	21.0	20.4	23.9	88	..	2.3	..	0.6	0	0	3	0	0	0	0	1	1	1	0	27	0
	0830	,,	1005.6	941.6	—1.3	25.2	22.0	20.4	23.9	75	0	3.8	+0.9	0.8	0	0	7	2	01	0	0	1	1	2	0	23	0
	1130	,,	1004.9	941.8	..	29.5	23.2	20.2	23.7	59	..	4.1	..	3.1	0	0	22	0	1	3	2	4	2	7	3	8	0
	1730	,,	1002.6	939.4	..	28.0	22.9	20.7	24.4	68	..	5.5	..	4.0	0	0	19	5	0	0	0	2	5	5	2	11	0
	2330	,,	1005.2	941.1	..	23.9	21.8	20.8	24.6	83	..	2.5	—1.1	0.4	0	0	3	0	0	0	0	1	2	0	0	27	0
Jhalwar	0830	321	1004.1	968.5	—1.4	27.3	24.1	22.3	26.9	74	—7		..	6.9	0	2	28	4	1	1	0	0	4	12	8	0	0
	1730	,,	1000.8	965.6	..	30.7	24.0	20.8	24.5	56	..	4.	..	12.3	0	3	27	2	8	2	1	0	4	7	6	0	0
Madhya Pradesh (West) Gwalior	0230	207	1002.5	979.2	..	24.6	23.8	23.4	28.8	93	..	3.4	..	3.5	0	0	16	2	1	1	1	1	1	5	4	14	0
	0530	,,	1002.7	979.4	..	24.4	23.5	23.1	28.3	93	..	4.2	..	3.2	0	1	14	0	2	1	1	2	0	6	3	15	0
	0830	,,	1004.1	981.0	—0.7	26.9	24.8	23.8	29.5	84	+8	4.1	+0.3	5.1	0	0	24	6	4	0	1	1	1	5	6	6	0
	1130	,,	1004.1	981.2	..	29.6	25.5	23.7	29.3	71	..	5.3	..	7.8	0	1	25	7	1	2	2	0	1	2	11	4	0
	1430	,,	1001.7	978.9	..	30.6	25.6	23.2	28.8	65	..	5.4	..	7.6	0	1	26	8	3	2	0	0	1	2	11	3	0

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Gwalior—*Contd.*	1730	207	1001.0	978.2	..	29.4	25.3	23.4	28.6	71	..	4.6	..	6.3	0	0	26	8	4	0	0	1	0	3	10	4	0
	2030	,,	1002.9	979.7	..	26.4	24.7	23.9	29.6	87	..	3.9	..	2.5	0	0	16	3	3	1	2	0	1	4	2	14	0
	2330	,,	1003.3	980.1	..	25.2	24.1	23.7	29.1	91	..	3.8	..	2.6	0	0	14	2	0	0	2	0	1	5	4	16	0
Sheopur	0830	235	1004.7	978.4	−0.1	26.6	24.4	23.3	28.6	82	+1	3.5	−1.2	5.8	0	0	27	5	2	0	3	4	5	4	4	3	0
	1730	,,	1000.7	974.8	..	30.3	25.1	22.7	27.6	64	..	4.9	..	8.4	0	1	29	8	7	2	1	1	2	5	4	0	0
Shivpuri	0830	464	1004.4	953.1	..	25.5	23.4	22.3	27.3	84	..	3.2	..	7.3	0	1	26	2	1	3	0	1	1	14	5	3	0
	1730	,,	1000.9	950.1	..	28.4	24.1	22.3	26.9	70	..	4.2	..	7.6	0	0	30	2	12	0	1	1	0	7	7	0	0
Nowgong	0830	229	1003.9	978.3	−1.8	26.1	24.8	24.2	30.1	90	+9	4.7	+0.7	5.7	0	0	26	1	4	3	1	2	9	3	3	4	0
	1730	,,	1001.1	975.8	..	29.1	25.6	24.2	30.1	75	..	5.3	..	3.1	0	0	23	5	4	1	0	0	4	1	8	7	0
Guna	0530	478	1003.6	950.3	..	22.5	21.8	21.4	25.5	94	..	4.5	..	4.8	0	1	21	1	1	3	0	1	6	8	2	8	0
	0830	,,	1004.6	951.7	−1.0	25.4	23.4	22.6	27.3	85	+2	4.2	+0.5	5.5	0	0	28	5	1	4	0	0	0	16	2	2	0
	1130	,,	1004.1	951.8	..	29.0	24.7	22.9	27.9	71	..	5.4	..	11.5	0	4	26	5	2	2	1	0	2	9	9	0	0
	1730	,,	1001.0	948.8	..	28.1	24.1	22.4	27.1	72	..	5.8	..	9.9	0	1	27	9	2	0	1	1	1	5	9	2	0
	2330	,,	1004.2	951.0	..	23.8	22.6	22.0	26.6	90	..	3.5	..	4.2	0	1	24	4	1	4	2	6	1	6	1	5	0
Nimach	0830	496	1005.7	950.9	−1.1	25.1	22.4	21.2	25.0	80	+1	5.0	+1.4	10.8	0	2	27	1	3	1	1	1	6	12	1	1	3
	1730	,,	1002.2	948.2	..	29.2	23.0	20.0	23.5	60	..	4.9	..	9.9	0	0	28	1	9	1	0	1	6	8	1	2	1
Rajgarh	0830	382	1005.0	962.5	..	25.1	23.5	22.7	27.6	87	..	4.0	..	7.0	0	0	27	5	0	1	2	0	1	8	10	3	0
	1730	,,	1002.0	960.0	..	28.3	24.2	22.1	26.8	71	..	3.8	..	9.0	0	0	30	12	2	5	0	0	1	7	3	0	0
gar	0830	551	1004.6	943.8	−1.2	24.6	22.9	22.1	26.6	87	+6	4.9	+0.7	3.9	0	0	25	2	0	3	1	0	1	13	5	5	0
	1730	,,	1001.4	941.1	..	26.4	23.2	21.8	26.1	76	..	5.4	..	3.5	0	0	28	2	8	2	0	1	1	3	11	2	0
atlam	0830	486	1006.0	952.0	−0.2	24.6	22.6	21.7	25.9	85	+3	6.2	0	8.9	0	0	28	2	2	2	1	0	7	11	3	2	0
	1730	,,	1002.5	949.3	..	28.1	24.0	22.1	26.9	70	..	6.3	..	11.2	0	1	28	3	3	1	1	0	6	9	6	1	0
Bhopal (Bairagarh)	0230	523	1003.5	945.5	..	23.2	22.0	21.4	25.5	90	..	5.4	..	5.1	0	0	22	1	1	0	2	1	6	7	4	8	0
	0530	,,	1004.0	945.8	..	22.5	21.6	21.1	25.0	92	..	6.1	..	6.1	0	0	28	3	3	1	1	0	4	8	8	2	0
	0830	,,	1005.2	947.4	−0.9	25.2	22.9	22.2	26.3	82	−1	6.3	+1.7	10.1	0	1	27	2	2	0	3	0	1	7	13	2	0
	1130	,,	1004.4	947.3	..	28.5	23.9	21.9	26.3	68	..	6.7	..	13.6	0	6	24	5	3	0	4	0	2	6	10	0	0
	1430	,,	1001.7	944.9	..	29.2	23.7	21.4	25.3	65	..	6.7	..	13.7	0	6	23	5	4	0	2	0	1	6	11	1	0
	1730	,,	1001.6	944.	..	27.3	23.1	21.0	25.2	69	..	7.0	..	9.8	0	2	26	8	3	2	0	0	1	6	8	2	0
	2030	,,	1004.1	946.4	..	24.9	23.6	21.5	25.6	82	..	6.4	..	4.7	0	0	23	5	3	1	1	1	3	4	5	7	0
	2330	,,	1004.5	946.6	..	24.0	22.4	21.7	25.9	87	..	5.7	..	4.9	0	0	21	1	4	1	0	2	7	5	1	9	0
Ujjain	0830	489	1004.8	950.6	..	24.6	22.7	21.8	26.3	85	..	5.7	..	14.1	0	4	26	0	1	3	0	0	0	13	12	0	1
	1730	,,	1000.8	947.3	..	27.8	23.1	20.9	24.7	67	..	5.8	..	13.7	0	7	23	1	5	5	1	0	0	8	10	0	0
Narsinghpur	0830	356	1004.5	964.8	..	25.2	24.0	23.4	28.8	90	..	4.9	..	3.5	0	0	30	4	2	3	2	3	1	14	1	0	0
	1730	,,	1000.9	961.8	..	28.3	24.5	22.7	27.6	73	..	5.1	..	4.1	0	0	30	8	0	6	0	4	1	8	3	0	0
Hoshangabad	0830	302	1004.8	971.0	−2.1	25.2	24.0	23.4	28.8	90	+5	6.0	+1.0	3.4	0	0	30	2	0	0	1	10	7	10	0	0	0
	1730	,,	1001.5	968.2	..	28.7	25.5	24.0	30.0	76	..	5.5	..	3.9	0	0	29	3	2	0	2	4	8	7	3	1	0
Indore	0530	567	1004.4	941.3	..	21.9	21.2	20.8	24.6	94	..	5.0	..	11.5	0	2	25	1	2	1	0	2	12	6	3	3	0
	0830	,,	1005.8	943.1	−1.4	23.9	22.3	21.5	25.8	87	+4	5.2	−0.2	13.9	0	7	21	1	1	2	1	0	9	9	5	2	0
	1130	,,	1005.0	943.1	..	27.5	23.5	21.7	25.9	71	..	5.3	..	14.8	0	10	19	2	3	1	0	2	4	10	7	1	0
	1730	,,	1002.0	940.1	.	26.7	22.7	20.8	24.7	72	..	6.0	..	15.2	0	4	26	5	7	2	0	0	8	5	3	0	0
	2330	,,	1005.2	942.3	..	22.8	21.8	21.2	25.3	91	.	4.6	..	9.9	0	4	21	1	2	1	0	1	14	5	1	5	0
Raipur (Jhabua)	0830	293	1006.5	973.3	..	24.7	23.3	22.6	27.4	88	..	5.7	..	8.3	0	0	25	0	0	1	0	0	5	19	0	5	0
	1730	,,	1002.6	970.3	..	28.9	24.4	22.4	26.9	69	..	4.7	..	7.0	0	0	26	3	0	0	0	0	3	19	1	4	0
Chhindwara	0830	685	1004.2	929.3	−0.9	24.3	22.1	21.0	25.0	82	0	4.6	−0.5	7.3	0	2	26	5	2	1	2	3	0	7	8	2	0
	1730	,,	1000.8	926.6	..	26.4	22.4	20.6	24.1	72	..	6.1	..	8.5	0	1	29	4	4	1	0	1	0	9	11	0	0
Seoni	0830	619	1004.1	936.3	−1.6	24.9	22.9	22.0	26.4	85	+6	5.9	+1.6	8.9	0	0	30	4	3	4	3	3	6	1	6	0	0
	1730	,,	1000.7	933.8	..	27.1	23.7	22.1	26.8	75	..	5.5	..	7.8	0	0	30	9	3	2	5	2	4	1	4	0	0
Betul	0830	653	1005.5	933.7	−0.5	23.6	22.3	21.7	26.0	89	+3	6.4	+0.3	5.3	0	0	29	1	1	1	3	0	0	11	12	1	0
	1730	,,	1001.3	930.5	..	27.0	23.3	21.7	26.0	73	..	6.3	..	7.1	0	0	30	5	7	1	2	0	0	4	11	0	0
Khandawa	0830	318	1005.7	970.1	−1.5	25.1	23.1	22.2	26.6	84	+3	4.9	+0.5	3.3	0	0	30	0	3	0	2	0	12	1	12	0	0
	1730	,,	1002.1	967.0	..	28.7	24.4	22.3	26.9	70	..	5.7	..	4.1	0	0	30	2	5	0	1	1	8	0	13	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1002.6	967.1	..	24.5	23.9	23.6	29.1	95	..	4.5	..	1.9	0	0	19	0	2	3	0	3	4	7	0	11	0
	0830	,,	1003.8	968.5	−1.3	26.5	24.7	23.8	29.7	85	+5	4.5	+0.4	2.5	0	0	24	2	0	6	1	0	3	10	2	6	0
	1130	,,	1003.7	968.7	..	29.0	25.5	24.0	29.7	75	..	4.6	..	4.3	0	0	27	1	2	5	0	3	2	10	4	3	0
	1730	,,	1000.6	965.4	..	28.0	25.0	23.7	29.3	78	..	4.5	..	2.3	0	0	27	4	0	4	0	0	1	17	1	3	0
	2330	,,	1003.3	967.9	..	25.5	24.5	24.0	29.8	91	..	4.0	..	1.6	0	0	17	0	0	3	2	4	5	3	0	13	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Sidhi	0830	272	1003·3	973·0	..	26·9	24·8	23·9	29·6	84	..	5·1	..	2·0	0	0	25	2	4	4	0	1	3	9	2	5	0
	1730	,,	1000.7	970.7	..	28.5	25.3	23·8	29.6	76	..	4.7	..	2.0	0	0	28	4	2	9	0	5	1	7	0	2	0
Umaria	0830	459	1004.5	953.7	..	25.6	23.9	23.1	28.3	87	+7	6.1	+0·9	4.0	0	0	22	4	1	3	0	1	6	4	0	8	3
	1730	,,	999.9	949.5	..	26.8	24.1	23.0	27.9	80	..	6.7	..	3.9	0	0	21	4	2	3	1	0	4	2	4	9	1
Jabalpur	0530	393	1003.2	959.4	..	24.2	23.4	23.0	28.1	93	..	5.7	..	1.5	0	0	10	1	1	1	0	1	1	5	0	20	0
	0830	,,	1004.5	961.0	—1·0	26.4	24.3	23.2	28.6	83	+2	5.7	+1·2	4.1	0	1	20	4	1	1	0	3	4	8	0	9	0
	1130	,,	1004.0	960.8	..	28.8	25.0	23.3	28.6	73	..	6.0	..	6.1	0	0	30	3	5	0	2	4	1	14	1	0	0
	1430	,,	1001.1	958.3	..	29.9	25.2	23.0	28.1	67	..	6·2	..	6.1	0	0	28	4	3	1	1	2	4	8	5	2	0
	1730	,,	1001.1	958.0	..	28.4	24.7	22.9	27.9	73	..	6.4	..	4.3	0	0	25	6	3	2	2	2	1	7	2	5	0
	2330	,,	1003.8	960.2	..	25.2	23.9	23.2	28.6	89	..	5.3	..	2.4	0	0	12	1	2	1	0	2	3	2	1	18	0
Ambikapur	0830	611	1004.2	937·3	—0·7	25.2	23.3	22·4	27.3	85	0	5.4	+1·0	4.7	0	0	23	2	5	1	4	5	4	1	1	7	0
	1730	,,	1001.0	934.5	..	26.3	23.6	22.3	27 3	79	..	6.4	..	4.7	1	0	23	3	5	1	4	3	3	3	1	7	0
Pendra	0530	625	1003.3	934.4	..	22.4	21.9	21.6	25.8	95	..	4.9	..	6.1	0	2	17	5	0	0	0	6	3	3	2	11	0
	0830	,,	1004 4	936.0	—1·3	24.7	23.0	22.3	26.9	87	+5	5.5	+1·2	9.3	0	4	25	6	3	0	1	12	2	3	2	1	0
	1130	,,	1003.5	935.7	..	27.2	23.9	22.5	27.2	76	..	5.9	..	10.3	0	2	27	7	2	1	3	7	4	1	2	1	2
	1430	,,	1000.8	933.2	..	27.4	23.9	22.7	27.4	75	..	5.9	..	10.5	0	5	24	4	4	0	2	7	5	3	4	1	0
	1730	,,	1001.2	933.1	..	25.4	23.2	22.3	26.7	84	..	6.2	..	7.9	0	1	26	6	1	0	1	10	3	2	3	3	1
	2330	,,	1004.2	935.4	..	23.4	22.6	22.3	26.9	94	..	4.7	..	5.0	0	1	21	6	0	0	0	8	7	0	1	8	0
Mandla	0830	443	1004.4	955.5	—0·8	25.7	23.7	22.8	27.6	84	—2	4.6	—0·[illegible]	1.1	0	0	7	1	0	0	0	3	0	1	2	23	0
	1730	,,	1000.2	951·7	..	27.7	24.5	23.1	28·1	76	..	5.3	..	2.5	0	0	11	6	0	1	0	1	0	0	3	19	0
Champa	0830	245	1004.4	977·1	—0·7	26.9	25.0	24.2	30·0	85	+1	6.5	+0·5	3.3	0	0	25	2	1	8	2	0	2	6	4	5	0
	1730	,,	1000.9	973.8	..	28.7	25 8	24.5	30.7	79	..	6·3	..	4.6	0	0	24	2	2	5	4	0	7	1	3	6	0
Raigarh	0830	220	1004.2	979.6	—0·7	27.6	25.0	24.0	29.5	82	—1	5.8	—0·4	3·1	0	0	29	0	3	5	8	1	4	5	3	1	0
	1730	,,	1000.5	976.2	..	29.4	25.6	24.0	29.7	73	..	6.5	..	0.7	0	0	7	0	1	2	1	2	1	0	0	23	0
Raipur	0530	298	1002.9	969.5	..	24.9	24.1	23.7	29.3	93	..	6.4	..	4.7	0	0	23	0	3	2	1	2	7	3	5	7	0
	0830	,,	1004.4	971.3	—1·3	27.0	24.9	23 9	29.5	83	+2	5.9	+1·3	7.7	0	1	28	2	2	4	2	3	6	6	3	1	1
	1130	,,	1003.8	970.9	..	29.2	25.5	23.8	29.7	73	..	6.5	..	8·9	0	2	28	2	4	3	1	4	4	7	5	0	0
	1430	,,	1001.0	968.3	..	29.8	25.4	23.5	28.8	70	..	6 5	..	9.0	0	1	27	3	5	2	2	3	5	4	3	2	1
	1730	,,	1000.9	968.0	..	28.5	25.1	23·5	29.1	75	..	6.8	..	7.3	0	0	29	2	4	4	3	1	7	3	5	1	0
	2330	,,	1003.7	970.5	..	25.9	24.6	24.1	30.0	90	..	5.8	..	6.1	0	0	25	1	1	4	3	3	7	3	3	5	0
Kanker	0830	402	1004.5	960.1	—1·2	26.6	24.5	23.5	28.9	83	+1	5.9	+0·3	0.8	0	0	6	0	2	0	0	0	1	3	0	24	0
	1730	,,	1001.1	957.0	..	27.6	25.2	24·2	30 0	82	..	6.2	..	1.9	0	0	22	0	2	0	1	0	15	2	2	8	0
Jagdalpur	0530	553	1002·9	941·9	..	23·0	22·1	21·7	25·9	92	..	6·1	..	3·6	0	0	11	0	0	3	0	0	6	0	2	19	0
	0830	,,	1004·3	943·7	—1·8	25·3	23·1	22·1	26·6	83	—1	6·6	+1·6	5·4	0	1	19	0	3	2	4	3	6	1	1	10	0
	1130	,,	1003·3	943·2	..	27·7	23·9	22·2	26·7	73	..	6·0	..	7·3	0	0	27	1	6	2	1	1	9	3	4	3	0
	1730	,,	1000·9	940·7	..	26.4	23·6	22·4	27·1	79	..	7·0	..	5·8	0	0	28	0	8	1	3	2	8	3	3	2	0
	2330	,,	1003.8	943.0	..	24.0	22.9	22.4	27.1	91	..	5.9	..	2.5	0	0	9	0	1	0	1	2	2	1	2	21	0
Gujarat Region																											
Deesa	0830	136	1006.3	990.9	—0·8	26.1	23.8	22.4	27.6	79	..	3.6	..	7.8	0	1	29	0	2	1	3	2	7	3	12	0	0
	1730	,,	1002.8	987.7	..	31.8	25.5	22.6	27.6	59	..	3.1	..	9.2	0	0	30	0	1	1	4	0	13	4	7	0	0
Radhanpur	0830	30	1006.0	1002.6	..	27.2	24.6	23.5	28.8	80	..	..	..	3.8	0	0	29	1	0	0	2	0	20	0	6	1	0
	1730	,,	1002.0	998·7	..	30.3	24.4	21.7	25.6	61	..	..	..	5.7	0	0	30	1	0	0	0	0	23	0	6	0	0
Idar	0830	219	1005.9	981.3	..	25.9	23.4	22·1	26.6	81	..	4.2	..	3.8	0	0	28	4	1	1	0	0	7	12	3	2	0
	1730	,,	1002.4	978.2	..	29.9	24.1	21.0	25.3	59	..	5.5	..	4.3	0	0	28	3	1	1	3	0	4	15	1	2	1
Ahmedabad	0230	55	1004.4	998.1	..	25·9	23.9	23.0	28.1	84	..	2.9	..	6.3	0	0	20	0	0	0	0	0	2	13	5	10	0
	0530	,,	1004.4	998.1	..	25.0	23.5	22.7	27.6	87	..	2.7	..	5.7	0	0	19	1	0	0	0	0	0	9	9	11	0
	0830	,,	1006.2	999·9	—1·6	26.4	24.2	23·1	28·4	82	+6	4.8	+0·7	10.7	0	1	25	3	1	1	0	0	2	6	13	4	0
	1130	,,	1006.4	1000.2	..	30·6	25·4	23·0	28·1	65	..	5·5	..	11·7	0	1	29	4	1	3	2	0	1	8	11	0	0
	1430	,,	1003·9	997.8	..	32.3	25.6	22.4	27.3	57	..	5.2	..	11.2	0	3	25	3	1	2	2	0	5	10	5	2	0
	1730	,,	1002.8	996.6	..	31.7	25.5	23.6	27.6	60	..	5.1	..	10.4	0	3	24	0	0	3	1	2	4	9	7	3	1
	2030	,,	1004.3	998.0	..	28.0	24.8	23·3	28.6	76	..	4.3	..	3.7	0	1	10	0	0	1	1	4	2	0	3	19	0
	2330	,,	1005.2	998.9	..	27.0	24.7	23.6	29.3	82	..	3.3	..	5·4	0	0	20	0	0	0	0	6	5	7	2	10	0
Dohad	0830	333	1005.9	968·7	—1.1	25.3	23.5	22.7	27·4	86	0	5.4	—0.1	11·2	0	3	25	1	0	1	3	1	7	15	0	2	0
	1730	,,	1002.6	966.0	..	28.5	24.3	22·3	26.0	70	..	4.8	..	10·4	0	3	27	3	1	0	0	0	13	10	3	0	0
Vallabh Vidyanagar	0830	44	1005.9	1001.0	..	25.4	24.1	23.5	28.9	90	..	4.3	..	5.8	0	0	29	2	1	0	2	2	9	4	9	1	0
	1730	,,	1002.7	997.9	..	30.6	25.2	22.7	27.6	64	..	3.6	..	6.3	0	0	30	5	2	0	0	2	13	6	2	0	0
Baroda Aerodrome	0830	38	1006.4	1002.1	..	26.4	24.7	23.9	29.7	86	..	5.2	..	8·2	0	0	28	1	2	0	2	0	8	10	5	2	0
	1130	,,	1006.3	1002.2	..	30.2	25.2	22.9	27.9	66	..	5.2	..	11.3	0	2	25	2	2	3	0	1	3	9	7	3	0
	1730	,,	1002.9	998.7	..	30.4	25.0	37.3	27.3	65	..	4.6	..	10·7	0	0	28	1	3	1	0	0	6	13	3	2	1

(R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat—(*Contd.*)																											
Baroda	0530	34	1004.8	1000.8	..	25.0	24.2	23.8	29.5	93	..	3.0	..	0.1	0	0	1	0	0	0	0	0	0	0	1	29	0
	0830	,,	1006.6	1002.7	−0.7	26.4	24.9	24.2	30.4	88	+2	4.7	+0.1	0.9	0	0	11	0	0	0	0	0	3	7	1	19	0
	1130	,,	1006.6	1002.7	..	30.6	26.1	24.1	30.0	69	..	4.9	..	1.5	0	0	15	0	0	0	0	0	4	10	1	15	0
	1730	,,	1003.3	999.4	..	31.2	26.0	23.8	29.3	65	..	4.0	..	1.8	0	0	18	0	1	0	0	0	3	11	3	12	0
	2330	,,	1005.6	1001.6	..	26.4	24.8	24.1	30.0	88	..	2.5	..	0.7	0	0	10	0	0	0	0	0	3	7	0	20	0
Broach	0830	17	1006.1	1004.1	−0.9	25.9	24.2	23.5	28.9	87	+1	5.0	+0.6	4.2	0	0	30	1	0	0	1	2	13	3	10	0	0
	1730	,,	1002.9	1000.9	..	30.8	24.8	21.9	26.4	61	..	4.0	..	5.3	0	1	29	0	1	0	1	1	18	0	9	0	0
Surat	0530	12	1005.1	1003.7	..	25.1	23.9	23.4	28.6	90	..	4.9	..	4.5	0	0	22	0	0	0	1	1	8	5	7	8	0
	0830	,,	1006.7	1005.4	−1.3	26.8	24.7	23.9	29.3	85	+4	5.9	+0.7	4.7	0	0	23	1	2	0	2	1	6	4	7	7	0
	1130	,,	1006.9	1005.6	..	30.0	25.3	23.1	28.3	67	..	6.3	..	5.9	0	0	27	2	2	1	0	0	6	9	7	3	0
	1730	,,	1003.7	1002.4	..	29.2	25.0	23.1	28.3	69	..	5.8	..	9.3	0	2	28	0	2	0	0	0	21	2	5	0	0
	2330	,,	1006.0	1004.7	..	26.0	24.6	23.8	29.8	86	..	3.7	..	7.7	0	0	28	1	1	0	0	4	16	4	2	2	0
Saurashtra and Kutch																											
Naliya	0830	21	1005.6	1003.3	..	26.3	24.7	23.9	29.8	87	..	3.5	..	4.1	0	1	15	0	0	0	0	0	11	4	1	14	0
	1730	,,	1003.6	1001.2	..	29.4	25.7	24.1	30.0	73	..	4.9	..	10.1	0	1	29	0	0	0	0	3	22	5	0	0	0
Bhuj (Rudramata)	0230	80	1004.5	995.4	..	24.6	23.0	22.3	26.7	87	..	1.6	..	6.4	0	0	19	0	0	0	0	0	9	7	3	11	0
	0530	,,	1004.5	995.3	..	24.0	22.7	22.1	26.6	89	..	1.7	..	5.1	0	0	15	1	0	0	0	0	5	5	4	15	0
	0830	,,	1006.0	996.9	−0.9	26.3	23.7	22.5	27.3	80	+7	3.3	−0.5	11.7	0	0	30	1	0	0	0	0	8	14	7	0	0
	1130	,,	1006.1	997.1	..	31.1	24.1	20.5	24.3	54	..	3.8	..	13.2	0	1	29	4	0	0	0	0	6	16	4	0	0
	1430	,,	1003.5	994.7	..	33.4	24.2	19.4	22.7	45	..	4.1	..	14.2	0	5	22	1	0	1	0	0	9	13	3	3	0
	1730	,,	1002.7	993.9	..	32.1	24.0	19.8	23.2	49	..	3.6	..	17.5	0	6	24	1	1	0	0	0	8	16	4	0	0
	2030	,,	1004.4	995.4	..	27.8	23.2	20.9	24.7	67	..	2.0	..	14.4	0	2	28	1	0	0	0	0	9	16	4	0	0
	2330	,,	1005.4	996.3	..	25.7	23.5	22.5	27.3	82	..	1.4	..	9.7	0	1	25	1	0	0	0	0	10	12	3	4	0
Kandla Aerodrome	0830	35	1006.4	1002.5	..	27.1	23.8	22.2	26.9	75	..	2.5	..	18.2	0	13	17	0	0	0	0	0	13	10	7	0	0
	1130	,,	1006.7	1002.7	..	31.3	24.0	20.0	23.8	54	..	3.9	..	18.8	0	12	17	4	0	0	0	1	13	10	1	1	0
	1730	,,	1003.1	999.2	..	32.3	24.2	20.1	23.5	50	..	3.1	..	24.4	0	24	5	0	0	0	1	3	21	2	2	1	0
New Kandla	0830	14	1006.4	1004.8	..	27.0	23.9	22.4	27.3	77	..	3.8	..	13.2	0	1	29	3	0	0	0	0	4	12	11	0	0
	1730	,,	1003.5	1001.9	..	31.2	24.8	21.6	26.1	58	..	3.3	..	26.7	0	23	7	0	0	0	0	2	15	13	0	0	0
Mandvi	0830	9	1006.5	1005.4	+0.3	27.2	24.9	23.8	29.7	82	−5	5.3	+0.6	24.9	0	23	6	2	0	0	0	0	6	8	7	1	6
	1730	,,	1004.1	1003.0	..	29.7	26.0	24.4	30.7	73	..	3.8	..	33.9	0	29	1	0	0	0	0	0	9	15	0	0	6
Surendranagar	0830	74	1006.4	997.9	−0.1	26.8	24.3	23.0	28.3	80	−4	3.3	−1.0	9.9	0	0	30	2	0	0	0	1	2	17	8	0	0
	1730	,,	1092.6	994.4	..	32.2	25.0	21.6	25.8	55	..	4.9	..	8.8	0	1	27	2	0	2	0	0	1	18	5	2	0
Okha	0530	7	1005.2	1004.4	..	25.9	24.8	24.4	30.4	91	..	1.9	..	17.4	0	12	17	0	0	0	0	0	11	12	6	1	0
	0830	,,	1006.9	1006.1	..	27.0	25.4	24.6	31.1	87	..	3.8	..	15.7	0	9	21	1	0	0	0	0	9	14	6	0	0
	1130	,,	1007.5	1006.7	..	28.6	26.0	24.8	31.5	80	..	3.7	..	20.5	0	13	17	0	0	0	0	0	6	17	7	0	0
	1730	,,	1004.7	1003.9	..	28.4	26.1	25.1	31.9	83	..	3.4	..	24.0	0	19	11	0	0	0	0	0	5	19	6	0	0
	2330	,,	1006.4	1005.6	..	26.4	25.3	24.7	31.5	90	..	2.0	..	17.2	0	10	20	0	0	0	0	0	13	14	3	0	0
Jamnagar (Aerodrome)	0530	23	1005.0	1002.4	..	23.5	22.8	22.5	27.3	95	..	2.3	..	12.3	0	2	23	0	0	0	0	0	6	17	2	5	0
	0830	,,	1006.5	1003.9	−0.9	26.4	24.5	23.7	29.3	85	+7	3.9	+0.3	15.7	0	6	24	0	0	0	0	0	11	14	5	0	0
	1130	,,	1006.9	1004.4	..	29.6	24.8	22.5	27.4	66	..	4.7	..	23.0	0	20	10	0	0	0	0	0	2	21	7	0	0
	1730	,,	1003.8	1001.3	..	28.7	24.7	22.7	27.9	70	..	3.5	..	26.5	0	26	4	0	0	0	0	0	2	14	14	0	0
	2330	,,	1006.1	1003.5	..	25.0	23.8	23.3	28.4	90	..	2.6	..	17.0	0	9	20	0	0	0	0	0	3	23	3	1	0
Dwarka	0830	11	1006.5	1005.2	−1.1	26.8	25.0	24.2	30.2	85	0	4.1	−0.1	13.3	0	4	26	2	0	0	0	0	4	22	2	0	0
	1730	,,	1004.4	1003.1	..	28.6	25.7	24.4	30.7	78	..	4.2	..	18.9	0	16	14	1	0	0	0	0	6	21	2	0	0
Rajkot	0530	138	1005.0	989.4	..	22.8	22.0	21.6	25.8	93	..	1.3	..	7.9	0	1	27	0	0	0	0	2	17	7	2	2	0
	0830	,,	1006.5	990.9	−0.4	25.5	23.7	22.9	27.7	86	−2	2.1	−1.7	12.9	0	6	24	0	0	0	0	1	13	13	3	0	0
	1130	,,	1006.4	991.1	..	29.5	24.2	21.6	25.9	63	..	3.1	..	17.7	0	11	19	2	0	0	0	0	11	11	6	0	0
	1730	,,	1003.0	987.8	..	30.7	24.4	21.4	25.3	59	..	3.6	..	19.0	0	12	18	1	0	0	0	2	9	6	12	0	0
Bhavnagar Aerodrome	0830	11	1006.7	1005.5	−1.0	26.8	23.9	22.6	27.3	78	+7	4.2	−0.4	14.9	0	5	25	1	0	0	0	0	3	17	9	0	0
	1130	,,	1006.8	1005.6	..	30.6	24.4	21.2	25.5	58	..	4.9	..	15.7	0	11	17	3	6	0	0	0	7	5	7	2	0
	1730	,,	1003.4	1002.2	..	31.4	25.1	22.0	26.6	59	..	4.7	..	21.3	0	18	11	1	4	2	2	12	4	3	0	1	1
Porbander Aerodrome	0830	7	1006.8	1006.0	−0.1	26.5	24.7	23.9	29.7	86	−3	4.5	−0.1	11.0	0	2	26	2	0	0	1	0	7	8	10	2	0
	1130	,,	1007.2	1006.4	..	29.3	25.1	23.2	28.4	70	..	4.1	..	19.2	0	17	13	0	0	0	0	0	7	14	9	0	0
	1730	,,	1004.4	1003.6	..	28.1	24.8	23.2	28.6	75	..	3.4	..	19.6	0	19	11	1	0	0	0	0	6	20	3	0	0
Keshod	0830	51	1006.9	1001.1	..	25.3	23.9	23.2	28.4	88	..	2.9	..	8.3	0	2	22	5	1	1	0	1	5	7	2	6	2
	1130	,,	1007.3	1001.6	..	28.8	24.5	22.4	27.3	69	..	4.7	..	10.0	0	13	17	5	0	0	0	0	7	13	5	0	0
	0	,,	1004.4	998.7	..	29.1	24.4	22.1	26.6	67	..	3.1	..	24.7	0	25	5	0	0	0	0	0	6	21	3	0	0
Mahuva	0	9	1006.3	1005.3	..	25.3	24.3	23.9	29.5	92	..	5.4	..	3.3	0	0	18	2	0	0	0	1	7	5	3	12	0
	0	,,	1003.5	1002.4	..	29.0	27.8	27.5	36.3	91	..	5.6	..	7.6	0	1	30	0	0	3	2	6	21	0	0	0	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean tempratuere in °C: Dry bulb	Mean tempratuere in °C: Wet bulb	Mean tempratuere in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurasahtra and Kutch— (*Contd.*)																											
Veraval	0230	8	1005.2	1004.3	..	25.6	24.1	23.4	28.9	88	..	2.8	..	13.3	0	9	15	4	0	0	0	0	0	11	9	6	0
	0530	,,	1005.1	1004.2	..	25.2	23.9	23.3	28.6	89	..	3.3	..	13.9	0	9	16	7	1	0	0	0	2	8	7	5	0
	0830	,,	1006.8	1005.9	−1.4	26.5	24.7	23.8	29.7	85	+1	4.3	−0.2	13.9	0	9	18	6	0	0	0	0	1	9	11	3	0
	1130		1007.3	1006.4	..	29.2	25.5	23.9	29.7	74	..	4.3	..	20.0	0	17	12	4	0	0	0	0	2	14	9	1	0
	1430	,,	1005.2	1004.3	..	29.1	25.5	23.9	29.7	74	..	4.0	..	24.6	0	26	4	1	0	0	0	0	2	19	8	0	0
	1730	,,	1004.5	1003.6	..	27.8	24.9	23.6	28.9	78	..	4.2	..	23.6	0	24	6	1	0	0	0	0	0	18	11	0	0
	2030	..	1005.7	1004.8	..	27.1	24.6	23.5	28.9	80	..	3.1	..	20.9	0	18	12	3	0	0	0	0	0	15	12	0	0
	2330	,,	1006.3	1005.4	..	26.3	24.5	23.7	29.3	85	..	3.1	..	19.1	0	16	12	2	0	0	0	0	0	12	14	2	0
Konkan																											
Dahanu	†0830	5	1006.7	1006.2	−0.8	26.5	25.4	24.9	31.5	92	+5	4.0	−1.9	12.3	1	3	24	0	0	1	13	0	1	4	2	1	7
	1730	,,	1004.4	1003.9	..	28.3	26.5	25.7	33.2	86	..	(b) 3.6	..	16.3	0	11	18	0	0	0	1	1	5	16	6	1	0
Bombay(Santa Cruz)	0230	15	1005.6	1003.9	..	25.0	24.0	23.5	28.9	91	..	5.4	..	4.0	0	2	9	1	1	1	1	1	0	3	3	19	0
	0530	,,	1005.6	1003.9	..	24.7	23.8	23.4	28.6	92	..	5.0	..	4.6	0	1	17	0	1	6	4	0	0	5	2	12	0
	0830	,,	1007.3	1005.6	−1.7	25.8	24.4	23.8	29.5	89	+4	6.0	+0.3	5.9	0	1	20	1	0	6	6	2	0	4	2	9	0
	1130		1007.5	1005.9	..	27.7	25.0	23.7	29.3	79	..	6.9	..	11.5	0	2	26	2	1	0	1	1	3	11	9	2	0
	1430	,,	1005.4	1003.8	..	28.3	25.0	23.5	28.9	76	..	6.1	..	16.7	0	9	21	0	0	0	0	0	4	11	15	0	0
	1730	,,	1004.6	1003.0	..	27.5	24.5	23.1	28.3	77	..	5.9	..	14.1	0	3	26	2	0	0	0	1	1	9	16	1	0
	2030	,,	1006.3	1004.6	..	26.0	24.2	23.3	28.8	86	..	4.4	..	8.3	0	2	24	2	1	1	0	1	1	7	13	4	0
	2330	,,	1006.8	1005.2	..	25.4	24.2	23.6	29.3	90	..	5.2	..	4.5	0	0	12	0	0	1	1	1	0	8	1	18	0
Bombay	0830	11	1007.2	1006.0	−1.7	26.2	24.6	23.8	29.7	87	+2	6.1	+0.4	7.8	0	2	27	4	2	2	8	1	4	4	4	1	0
	1130	,,	1007.5	1006.3	..	28.0	25.4	24.2	30.4	80	..	5.9	..	7.8	0	1	28	1	1	1	4	2	2	10	7	1	1
	1730	,,	1004.7	1003.5	..	27.8	24.9	23.6	29.1	79	..	5.7	..	12.1	0	2	27	1	0	0	0	1	1	13	13	1	0
Alibag	0830	7	1007.3	1006.5	−1.7	25.8	24.5	23.8	29.7	89	+6	5.8	0	9.7	0	4	23	1	3	1	5	7	1	4	5	3	0
Bhira	0830	96	1007.2	996.3	..	24.2	23.5	23.1	28.3	93	..	6.1	..	1.1	0	0	9	0	1	0	2	2	0	0	4	21	0
	1730	,,	1004.2	993.5	..	26.6	24.3	23.3	28.6	83	..	7.4	..	2.5	0	0	22	2	0	2	3	2	4	5	4	8	0
Harna	0830	20	1007.3	1005.0	−1.1	25.7	24.1	23.3	28.8	87	+1	7.0	+1.1	10.7	0	3	27	2	3	13	1	1	1	9	0	0	0
	1730	,,	1004.9	1002.6	..	26.7	24.6	23.7	29.3	84	..	7.1	..	23.4	0	23	7	0	0	0	0	0	2	13	15	0	0
Ratnagiri	0830	35	1007.8	1003.8	−1.5	25.4	24.1	23.5	28.9	90	..	6.8	..	7.4	0	2	27	4	4	3	8	2	2	3	3	1	0
	1730	,,	1005.2	1001.2	..	27.1	24.8	23.7	29.3	82	..	6.4	..	15.4	0	9	21	4	0	0	0	0	3	6	17	0	0
Devgarh	0830	36	1007.7	1003.7	−1.2	25.3	24.0	23.1	28.6	90	+1	6.4	+0.2	12.3	0	8	20	1	4	10	1	1	2	5	4	2	0
	1730	,,	1005.2	1001.2	..	26.9	24.9	24.0	29.8	84	..	6.3	..	22.3	1	12	17	1	0	0	0	0	1	11	17	0	0
Vengurla	0230	9	1006.6	1005.6	..	24.3	23.8	23.5	28.9	95	..	6.0	..	1.1	0	0	6	0	1	0	0	1	0	2	2	24	0
	0530	..	1006.6	1005.6	..	23.9	23.4	23.2	28.3	96	..	6.0	..	1.7	0	0	8	3	0	1	1	0	0	1	2	22	0
	0830	..	1008.4	1007.4	−0.9	25.1	24.2	23.8	29.3	92	+3	6.2	+0.1	2.1	0	0	11	3	0	0	2	0	1	3	2	19	0
	1130	,,	1008.5	1007.5	..	27.5	25.0	23.8	29.7	81	..	6.2	..	6.0	0	0	28	2	0	0	0	2	9	11	4	2	0
	1730	,,	1005.7	1004.7	..	26.8	24.6	23.6	29.1	83	..	6.9	..	6.9	0	0	29	0	0	0	0	2	3	15	9	1	0
	2330	,,	1008.0	1007.0	..	24.8	24.1	23.7	29.3	95	..	5.8	..	2.5	0	0	9	0	0	0	0	1	2	2	4	21	0
Panjim	0530	60	1006.7	999.8	..	24.1	23.2	22.8	27.7	93	..	6.6	..	7.1	0	1	20	5	4	3	0	0	0	3	6	9	0
	0830	,,	1008.3	1001.4	..	25.0	23.7	23.1	28.3	90	..	6.5	..	4.8	0	0	16	3	1	3	0	0	0	4	5	14	0
	1130	,,	1008.4	1001.7	..	27.6	24.7	23.3	28.6	78	..	6.6	..	11.1	0	4	22	2	0	0	0	0	1	16	7	4	0
	1430	,,	1006.2	999.5	..	28.0	24.8	23.3	28.6	76	..	6.5	..	15.9	0	7	22	0	0	0	0	0	3	15	11	1	0
	1730	,,	1005.7	998.9	..	26.8	24.2	23.0	28.1	80	..	6.7	..	15.9	0	7	23	1	0	0	0	1	2	9	17	0	0
	2030	,,	1007.4	1000.6	..	25.4	23.8	23.0	28.1	86	..	6.5	..	12.4	0	5	22	4	0	0	0	2	0	8	13	3	0
	2330	,,	1008.0	1001.2	..	25.1	23.6	22.9	27.9	88	..	6.3	..	8.5	0	3	21	3	0	1	0	1	1	6	12	6	0
Marmuagoa	0530	62	1006.3	999.3	..	24.8	23.7	23.2	28.3	91	..	7.0	..	11.3	0	6	18	4	4	3	1	1	2	4	5	6	0
	0830	,,	1007.9	1000.9	..	25.5	24.1	23.4	28.9	88	..	6.8	..	10.4	0	4	25	5	8	2	1	2	3	5	3	1	0
	1130	,,	1008.1	1001.2	..	27.0	24.7	23.7	29.3	82	..	6.6	..	14.3	0	7	23	2	1	0	0	3	7	9	8	0	0
	1730	..	1005.2	998.3	..	26.7	24.5	23.5	28.9	82	..	6.8	..	20.1	0	17	13	4	0	0	0	1	6	9	10	0	0
Madhya Maharashtra																											
Nandurbar	0830	206	1006.7	983.4	..	25.6	23.7	22.8	27.6	86	..	3.7	..	6.1	0	0	30	0	0	2	0	1	0	27	0	0	0
	1730	,,	1003.6	980.7	..	28.9	24.7	22.8	27.6	71	..	3.6	..	3.8	0	0	30	1	0	2	0	1	1	25	0	0	0
Jalgaon	0830	201	1006.1	983.4	−1.0	25.1	23.6	22.8	27.9	87	+2	6.4	+1.4	19.5	0	8	20	0	1	1	1	0	1	16	8	2	0
	1730	,,	1002.3	980.0	..	29.8	24.7	22.1	26.9	65	..	6.3	..	12.6	0	7	22	10	2	2	0	0	0	5	10	1	0
Malegaon	0830	437	1006.0	957.3	−2.0	24.2	22.1	21.1	24.9	82	+6	5.9	+1.6	6.7	0	0	29	5	2	1	0	0	2	11	8	1	0
	1730	,,	1002.3	954.5	..	28.3	23.5	21.0	25.0	67	..	6.6	..	12.9	0	4	26	4	5	3	1	1	1	8	7	0	0
Devlali(Aerodrome)	0830	571	1007.9	944.4	..	22.7	21.3	20.5	24.3	88	..	6.6	..	8.8	0	0	29	0	1	0	0	0	17	10	1	1	0
	1730	,,	1004.7	941.9	..	25.3	22.1	20.7	24.3	74	..	6.7	..	14.4	0	5	25	0	2	0	1	0	11	14	2	0	0

(b) Mean of 29 days. †Wind direction for 29 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in milibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in milibars: At station level	Mean pressure in milibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind Speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—(Contd.)																											
Ahmadnagar	0830	657	1006·7	934·2	—1·7	22·5	21·0	20·3	23·8	88	+10	6·0	+1·6	5·7	0	0	28	4	0	1	0	0	7	4	12	2	0
	1730	,,	1001·9	930·7	..	26·9	22·2	19·9	3·2	67	..	7·4	..	9·5	0	3	25	5	5	0	5	0	5	1	7	2	0
Poona (Aerodrome)	0230	593	1005·9	939·8	..	21·1	20·4	20·1	23·5	94	..	5.5	..	11·9	0	3	24	0	0	1	0	0	5	20	1	3	0
	0530	,,	1005·9	939·8	..	20·6	20·1	19·8	23·2	95	..	5·6	..	7·0	0	0	20	0	0	1	0	0	3	16	0	10	0
	0830	,,	1007·2	941·4	..	22·3	20·9	20·2	23·7	87	..	6·2	..	10·1	0	4	19	0	0	0	0	0	6	16	1	7	0
	1130	,,	1006·4	941·3	..	26·1	22·2	20·0	23·8	70	..	6·3	..	19·4	0	10	20	0	0	1	0	0	7	18	4	0	0
	1730	,,	1003·3	938·3	..	25·8	22·2	20·3	24·1	73	..	6·3	..	28·2	0	27	1	0	0	0	0	0	5	22	1	2	0
	2330	,,	1007·0	941·1	..	21·8	20·9	20·4	24·1	91	..	6·1	..	13·7	0	4	23	0	0	0	0	0	7	19	1	3	0
Poona	0530	559	1006·0	943·5	..	20·9	20·2	19·8	23·2	93	..	5·2	..	1·5	0	0	9	0	0	0	0	0	0	9	0	21	0
	0830	,,	1007·3	945·2	—1·5	22·9	21·1	20·3	23·7	85	+5	6·0	+0·6	2·1	0	0	11	0	0	0	0	0	0	11	0	19	0
	1130	,,	1006·5	945·1	..	26·3	22·3	20·4	24·0	70	..	6·3	..	6·0	0	0	25	0	0	0	0	0	4	20	1	5	0
	1430	,,	1003·6	942·7	..	27·5	22·7	20·4	24·1	66	..	6·6	..	8·1	0	0	24	0	0	0	0	0	0	23	1	6	0
	1730	,,	1003·4	942·1	..	25·6	22·1	20·4	24·1	74	..	6·4	..	8·6	0	1	26	0	0	0	0	0	0	26	1	3	0
	2030	,,	1006·2	944·2	..	22·8	21·2	20·5	24·0	87	..	5·1	..	5·3	0	0	26	0	0	0	0	0	1	24	1	4	0
	2330	,,	1006·8	944·7	..	22·1	20·9	20·4	23·8	91	..	5·5	..	4·1	0	0	19	0	0	0	0	0	0	19	0	11	0
Jeur	0830	521	1006·8	948·8	—1·0	23·0	21·7	21·2	25·0	90	+9	6·7	+2·2	10·5	0	2	28	0	1	0	1	2	2	13	11	0	0
	1730	,,	1001·8	945·0	..	27·7	22·9	20·6	24·4	67	..	6·4	..	14.3	0	8	21	6	3	3	2	1	0	7	7	1	0
Baramati	0830	551	1006·9	945·8	—0·7	23·1	21·4	20·6	24·1	86	+5	5·4	+0·3	10·3	0	0	30	1	0	1	0	1	3	12	12	0	0
	1730	,,	1002·5	942·5	..	27·1	23·0	21.1	25·0	72	..	5.9	..	16·1	0	8	22	2	2	1	1	1	3	15	5	0	0
Sholapur	0530	479	1005·7	952·3	..	21·8	20·8	20·3	23·8	91	..	6·1	..	6·1	0	0	28	1	0	0	0	0	9	5	13	2	0
	0830	,,	1007·2	953·9	—1·3	23·8	22·2	21·4	25·6	87	+1	5·9	+0·9	7·4	0	0	30	0	1	0	0	0	14	3	12	0	0
	1130	,,	1005·9	953·3	..	27·5	23·4	21·5	25·6	71	..	6·9	..	10·4	0	3	26	4	1	0	1	0	8	6	9	1	0
	1730	,,	1002·1	949·7	..	27·9	23·6	21·6	25·9	70	..	6·7	..	9·5	0	1	28	7	2	1	0	0	6	6	7	1	0
	2330	,,	1006·1	952·9	..	23·8	21·9	21·3	25·0	85	..	6·9	..	8·5	0	1	27	3	1	0	1	1	9	7	6	2	0
Miraj	0830	554	1008·0	946·4	—1·3	22·3	20·8	19·9	23·5	86	+3	6·8	+0·5	..	..	..	..	0	0	1	0	0	0	23	0	6	0
	1730	,,	1003·8	943·3	..	26·6	22·1	19·8	23·2	68	..	7·0	..	..	..	..	..	0	0	1	0	0	1	23	2	3	0
Kolhapur	0530	570	1006·1	942·6	..	20·9	20·2	19·9	23·2	94	..	5·4	..	4.7	0	1	19	0	0	0	0	0	0	18	2	10	0
	0830	,,	1007·4	944·1	—1·4	22·0	21·0	20·3	24·1	90	+2	5·8	+0·4	3.6	0	0	20	0	0	1	0	0	1	16	2	10	0
	1130	,,	1006·7	944·2	..	25·8	22·2	20·5	24·1	74	..	5·7	..	6·3	0	1	23	0	0	0	0	1	0	21	2	6	0
	1730	,,	1003·8	941·3	..	25·0	22·0	20·6	24·3	78	..	6·0	..	10·7	0	2	27	0	0	0	0	0	0	27	2	1	0
	2330	,,	1007·4	944·0	..	21·7	20·7	20·2	23·7	91	..	5·3	..	8·6	0	3	22	0	0	0	0	0	0	24	1	5	0
Marathwada Aurangabad	0830	581	1006·8	942·6	—1.6	23·8	21·7	20·7	24·4	83	+5	6·3	+1·0	11·2	0	4	23	4	2	1	0	0	2	16	2	3	0
	1730	,,	1002·4	939·2	..	27·1	22·7	20·7	24·4	70	..	6·6	..	9·9	0	5	19	6	4	1	0	0	2	9	2	6	0
Aurangabad (Chikalthan)	0230	579	1004.7	940.5	..	22.4	20·9	20.1	23.5	87	..	5.9	..	5.5	0	0	16	0	1	0	0	0	0	13	2	14	0
	0530	,,	1004·9	940·5	..	21·8	20·5	19·9	23·2	89	..	6·1	..	7·7	0	1	18	1	1	0	0	0	0	15	2	11	0
	0830	,,	1006·2	942·2	..	23·9	21.4	20·1	23·5	80	..	6.0	..	11·6	0	2	25	4	1	1	0	0	0	16	5	3	0
	1130	579	1005·3	942·1	..	27·4	22·2	19·7	22·9	64	..	5·9	..	11·7	0	4	21	4	2	1	1	0	1	12	4	5	0
	1430	,,	1002·4	939·6	..	28·4	22·7	20·0	23·4	62	..	6·4	..	13·6	0	20	6	5	4	1	0	0	1	7	8	4	0
	1730	,,	1001·9	938·9	..	27·2	22·3	20·0	23·2	67	..	6·8	..	12·0	0	6	18	8	1	1	0	0	1	9	4	6	0
	2030	,,	1004·7	941·0	..	24·4	21·8	20·5	24·3	79	..	5·9	..	7·0	0	2	14	4	2	0	0	0	0	8	2	14	0
	2330	,,	1005·7	941·7	..	23·4	21·3	20·2	23·8	83	..	6·5	..	6·7	0	0	18	3	0	0	0	0	0	13	2	12	0
Parbhani	0830	423	1006·3	959·2	—0·5	24·0	22·4	21.6	25·8	87	+6	6·2	+1·0	7·8	0	0	28	1	2	2	0	0	5	7	11	2	0
	1730	,,	1002·2	955·9	..	28·1	23·8	21·6	25·9	69	..	6·6	..	8·7	0	1	29	5	2	1	0	2	0	10	10	0	0
Nander	0830	358	1005·9	965·9	..	25·4	23·4	22·4	27·1	84	..	5·9	..	5·8	0	0	27	1	2	0	1	1	4	11	7	3	0
	1730	,,	1002·7	963·2	..	28·5	24·4	22·5	27·3	71	..	7·0	..	5·2	0	0	23	1	2	1	0	1	7	4	7	7	0
Bir	0830	519	1007·1	949·5	..	23·8	22·3	21·5	25·9	87	..	5·5	..	6·9	0	0	28	1	1	0	0	0	7	2	17	2	0
	1730	,,	1004·0	947·2	..	27·3	23·1	21·1	25·2	71	..	5·9	..	7·5	0	0	27	1	2	1	1	0	6	1	15	3	0
Vidarbha Gondia	0830	313	1004·7	969·9	—0·8	26·6	24·5	23·5	28·9	84	0	5·6	+0.3	1·8	0	0	21	1	3	0	4	1	6	1	5	9	0
	1730	,,	1000.9	966.5	..	29.0	25.1	23.2	28.6	72	..	5.8	..	1.4	0	0	16	4	3	2	2	0	0	3	2	14	0
Nagpur (Sonegaon)	0230	310	1002·8	968.1	..	24·7	23·5	22·9	27·9	89	..	5·2	..	6·4	0	0	27	3	3	0	2	0	5	3	11	3	0
	0530	,,	1003·2	968·5	..	24·0	23·1	22·7	27·6	92	..	5·7	..	5·3	0	0	22	3	3	0	0	0	1	5	10	8	0
	0830	,,	1004·7	970·1	—1·6	26·5	24·2	23.1	28·2	82	+1	5·9	+1·2	9·9	0	2	26	2	3	3	0	1	1	8	10	2	0
	1130	,,	1003·9	969·7	..	29·7	25·0	22·9	27·9	67	..	6·4	..	12·8	0	5	25	5	4	3	1	1	0	5	11	0	0
	1430	,,	1000·8	966·9	..	30·6	25.1	22·6	27·4	63	..	6·2	..	12·4	0	5	24	4	5	1	1	0	3	5	10	1	0
	1730	,,	1000·9	966·8	..	29·1	24·7	22·6	27·6	69	..	6·6	..	9·7	0	3	25	5	4	3	2	1	1	7	5	2	0
	2030	,,	1003·5	969·0	..	26·5	24·3	23·2	28 6	83	..	5·2	..	7·3	0	2	23	3	2	1	3	0	2	7	7	5	0
	2330	,,	1004·1	969·4	..	25·3	23·8	23·1	28·3	88	..	5·1	..	5·4	0	0	22	4	1	0	3	0	5	4	5	8	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Amraoti	0830	370	1005·9	964·7	−0·9	25·5	23·2	22·1	26·6	82	+2	5·0	+0·1	4·0	0	0	30	1	4	2	2	1	11	7	2	0	0
	1730	,,	1001·6	961·0	..	28·7	23·9	21·5	25·6	66	..	5·5	..	6·6	0	0	30	6	5	2	4	0	3	4	6	0	0
Akola Aerodrome	0530	309	1003·2	968·5	..	23·7	22·5	21·8	26·3	89	..	5·5	..	9·3	0	3	26	1	1	1	0	0	7	9	10	1	0
	0830	,,	1004·8	970·2	..	25·4	23·3	22·2	26·8	83	..	5·7	..	8·9	0	0	30	1	1	1	2	1	3	10	11	0	0
	1130	,,	1004·3	970·1	..	29·1	24·3	22·0	26·4	66	..	6·7	..	12·3	0	1	29	2	1	3	2	0	2	8	12	0	0
	1730	,,	1000·7	966·7	..	29·2	24·3	21·9	26·3	66	..	7·0	..	11·1	0	2	28	1	0	2	2	2	6	7	10	0	0
	2330	,,	1004·1	969·5	..	24·9	23·2	22·3	26·9	86	..	5·8	..	9·0	0	1	29	2	1	0	2	3	6	8	8	0	0
Akola	0830	282	1005·3	973·8	−1·8	25·8	23·6	22·5	27·3	82	+4	4·7	−0·1	2·2	0	0	22	0	0	0	0	0	1	18	3	8	0
	1730	,,	1001·1	970·1	..	29·8	24·8	22·4	27·3	66	..	6·9	..	2·0	0	0	21	1	0	2	0	0	0	12	6	9	0
Bramhapuri	0830	229	1004·9	979·2	..	26·3	24·9	24·3	30·4	89	..	6·1	..	3·3	0	0	27	2	4	2	2	6	2	6	3	3	0
	1730	,,	1001·3	976·0	..	29·0	25·7	24·1	30·4	75	..	6·1	..	4·0	0	0	26	5	2	2	2	9	2	2	2	4	0
Buldana	0830	650	1005·8	934·1	−0·7	22·8	21·2	20·4	24·0	86	0	6·2	+0·3	10·6	0	1	29	5	1	1	1	0	5	1	16	0	0
	1730	,,	1001·7	931·1	..	26·3	22·5	20·7	24·4	72	..	6·2	..	7·7	0	1	28	5	3	0	2	0	0	0	19	1	0
Yeotmal	0830	451	1005·0	955·0	−1·0	25·1	23·1	22.0	26·5	83	−1	5·3	0	14·1	0	7	23	4	1	2	1	1	3	12	6	0	0
	1730	,,	1001·1	951·8	..	28·2	23·9	21·8	26·1	70	..	6·3	..	13·2	0	5	25	4	3	3	1	2	2	12	3	0	0
Chanda	0830	193	1004·7	983·0	−2·1	26·6	24·7	23·9	29·6	85	+5	6·3	+1·7	10·0	0	2	28	2	1	2	2	2	3	9	9	0	0
	1730	,,	1001·2	979.8	.	28·4	25·3	24·0	29·8	77	..	6·6	..	6·8	0	1	27	1	5	4	3	2	1	6	6	2	0
Fusad	0830	334	1006·0	968·7	.	25·5	23·5	22·5	27·1	84	..	6·2	..	9·9	0	2	27	0	0	1	1	1	1	16	8	1	0
	1730	,,	1002·5	965·7	..	29·0	24·9	23·0	28·3	71	..	6·4	..	7·3	0	0	29	5	0	2	3	2	1	10	6	1	0
Sironcha	0830	123	1005·4	991·4	−1·3	26·5	25·0	24·5	30·4	89	+4	5·7	0	4·2	0	0	30	2	2	0	8	0	11	0	7	0	0
	1730	,,	1002·1	988·3	..	28·1	25·9	24·9	31·5	83	..	6·9	..	5·3	0	0	26	3	4	1	6	0	5	0	7	4	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1004·4	1003·7	−1·6	28·0	26·1	25·4	32 2	86	+3	5·8	+1·3	10·2	0	3	26	1	1	1	3	5	6	5	6	1	0
	* 1730	,,	1001·5	1000·9	..	28·9	26·4	25·4	32·0	81	..	6·0	..	13·5	0	7	22	1	3	1	2	6	6	3	3	1	0
Vishakhapatnam	0230	3	1002·7	1002·3	..	26·1	24·9	24·3	30·5	90	..	4·8	..	3·4	0	1	10	1	2	1	1	0	1	5	0	19	0
	0530	,,	1003·1	1002·7	..	25·8	24·7	24·2	30·4	91	..	5·6	..	2·0	0	1	5	1	2	0	0	1	0	2	0	24	0
	0830	,,	1004·7	1004·3	−1·6	27·7	25·4	24·3	30·5	82	+1	6 0	+0·2	7·2	0	2	17	0	1	3	0	3	3	7	2	11	0
	1130	,,	1004·1	1003·7	..	29·7	26·2	24·6	31·1	75	..	6 6	..	12·8	0	7	19	1	0	2	4	2	13	3	1	4	0
	1430	,,	1001.6	1001·2	..	30·0	26·2	24·5	30·9	73	..	6·4	..	14 2	0	8	20	1	0	4	4	4	12	3	0	2	0
	1730	,,	1001·9	1001·5	..	28·1	25·3	24·1	30·0	79	..	6·1	..	11·0	0	4	23	1	2	2	3	5	11	2	1	3	0
	2030	,,	1004·0	1003·6	..	26·8	25·0	24·2	30·2	86	..	5·1	..	5·1	0	2	14	2	2	1	1	1	2	4	2	14	1
	2330	,,	1004·2	1003.8	..	26·5	25·0	24·4	30·5	88	..	5 0	..	3·9	0	1	11	2	0	1	2	0	1	3	3	18	0
Kakinada	0830	8	1005·0	1004·1	−1·7	27·8	25·9	25·1	31·9	85	+5	5·9	+0·5	11·5	0	1	29	0	8	2	2	0	16	0	2	0	0
	1730	,,	1001·7	1000·8	..	28·6	26·0	24·8	31·3	80	..	6·1	..	12·2	0	1	29	0	7	1	12	0	8	0	2	0	0
Nidadavole	0830	12	1005·0	1003·5	..	26·5	24·9	24·2	30·4	87	..	7·1	..	5·3	0	0	24	0	2	3	0	0	12	5	2	6	0
	1730	,,	1001·5	1000·1	..	28·5	25·7	24·6	30·9	80	..	7·4	..	5·6	0	0	27	0	1	4	0	0	15	6	1	3	0
Rentachintala	0830	106	1005·6	993·7	..	26·6	24·4	23·3	28·8	82	+12	6·4	+0·6	1·9	0	0	22	0	0	0	0	1	1	20	0	8	0
	1730	,,	1001·7	989·9	..	29·2	25·4	23·7	29·3	74	..	6·6	..	2·0	0	0	28	2	0	5	0	2	2	17	0	2	0
Gannavaram	0230	24	1003·2	1000·5	..	25·5	24·6	24·2	30·2	93	..	5·8	..	7·1	0	2	18	2	1	0	0	2	6	7	2	10	0
	0530	,,	1003·5	1000·8	..	25·2	24·4	24·0	29·8	93	..	6·3	..	7·0	0	3	17	2	1	2	0	2	4	7	2	10	0
	0830	,,	1005·4	1002·7	−1·0	26·7	24·9	24·0	30·2	85	+5	6·5	+0·9	10·6	0	3	26	2	2	1	1	5	4	9	5	1	0
	1130	,,	1004·6	1001·9	..	29·0	25·7	24·3	30·4	76	..	6·5	..	15·2	0	9	20	2	2	2	0	4	5	11	3	1	0
	1430	,,	1002·0	999.3	..	30·1	26·2	24·5	30·7	73	..	6·7	..	14·4	0	7	21	2	1	1	3	4	3	11	3	2	0
	1730	,,	1001·9	999·2	..	28·6	25·9	24·7	31·3	80	..	6·7	..	9·9	0	1	26	2	2	0	3	6	4	8	2	3	0
	2030	..	1004·2	1001.5	..	26·7	25·2	24·5	30·7	88	..	6·3	..	9·0	0	1	22	3	2	1	3	5	4	2	3	7	0
	2330	..	1004·6	1001·9	..	26·8	25·0	24·5	30.2	92	..	6·2	..	8·2	0	5	16	3	2	1	1	4	2	6	2	9	0
Nagarjuna Konda (R)	0830	126																									
	1730	,,																									
Masulipatam	0830	3	1005·3	1005·0	−1·9	26·8	25·0	24·2	30·2	86	+5	7·3	+1·9	3·7	0	0	30	4	2	0	0	7	8	8	1	0	0
	1730	,,	1002·0	1001·7	..	29·0	26·0	24·8	31·1	79	..	6·6	..	3·3	0	0	28	1	0	4	1	9	5	4	0	2	4
Ongole (R)	0830	12																									
(R)	1730	,,																									
Nellore	0530	20	1004·4	1002·2	..	25·7	23·9	22·9	28·3	85	..	6·8	..	2·9	0	0	17	0	0	0	1	1	3	8	4	13	0
	0830	..	1006·1	1003·9	−1·6	27·6	24·4	22·9	27·6	76	..	6·9	+1·5	6·7	0	0	26	0	0	0	0	2	3	15	6	4	0
	1130	,,	1005·4	1003·2	..	30·7	25·4	23·0	28·1	65	+6	6·5	..	7·4	0	1	27	0	0	2	1	0	6	10		2	0
	1730	,,	1002·2	1000·0	..	30·0	25·7	23·7	29·6	70	..	6·7	..	7·7	0	0	26	0	2	0	5	0	10	1	8	4	0
	2330	,,	1005·3	1003·1	..	26·9	24·9	24·0	29·8	85	..	6·4	..	2·5	0	0	15	0	0	0	5	0	1	6	3	15	0

(R) Register not received.

*Wind direction for 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER, 1964 (BHADRA 10—ASVINA 8, 1886 SAKA)

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	r wind Speed n Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana																											
Ramgundam	0830	156	1004·8	987·3	−1.2	26·2	24·5	23·7	29·3	86	+6	6·0	+0·3	5·6	0	1	28	3	2	2	1	1	8	6	6	1	0
	1730	,,	1001·3	984·0	..	29·3	25·5	23·9	29·6	74	..	6·7	..	3·4	0	0	18	9	2	3	0	0	1	3	0	12	0
Nizamabad	0830	381	1005·6	963.2	−1.6	24·9	23·3	22·8	27·4	87	+7	6·7	+2.1	0·3	0	0	4	1	0	0	0	0	3	0	0	26	0
	1730	,,	1001·2	959·6	..	29·0	25·3	23·5	29·1	72	..	6·5	..	0·5	0	1	3	0	2	0	0	0	1	0	1	26	0
Hanamkonda	0830	269	1005·2	975·2	−2.0	25·4	23·7	22·8	27·9	86	+9	5·3	+0.3	2·3	0	0	30	6	0	1	0	9	2	12	0	0	0
	1730	,,	1002·7	973·1	..	28·0	24.8	23.7	28·6	76	..	5·7	..	2·0	0	0	30	13	1	3	3	1	2	5	2	0	0
Hakimpet Aerodrome	0530	613	1004·4	936·6	..	21·8	21·5	21·2	25·3	97	..	6·6	..	16·7	0	11	16	2	0	1	2	1	5	11	4	3	1
	0830	,,	1005·4	937·9	..	23·4	22·3	21·8	26·1	91	..	7·1	..	19·5	0	11	19	2	2	1	0	2	3	13	7	0	0
	1130	,,	1004·5	937·7	..	26·4	23·6	22.4	27·3	79	..	6·8	..	19·3	0	15	13	4	0	1	1	1	2	10	9	2	0
	1730	,,	1002·2	935·4	..	25·7	23.3	22·2	26·9	83	..	7·0	..	16·3	0	6	24	7	0	5	2	0	2	9	5	0	0
	2330	,,	1005·0	937.4	..	22·6	22·1	21·7	26·3	96	..	7·2	..	14·3	0	8	19	2	0	3	1	2	3	11	5	3	0
Bhadrachalam	0830	111	1004·8	992·3	−1.7	26·2	24·9	24·4	30·5	89	+5	7·4	+1.2	3·4	0	0	29	2	5	1	2	2	13	0	4	1	0
	1730	,,	1001·7	989·3	..	27·3	25·4	24·5	30·9	85	..	7·4	..	4.6	0	0	28	6	5	0	5	2	7	0	3	2	0
Hyderabad (Begampet)	0230	545	1003·9	943·6	..	22·6	21·6	21·1	25·0	91	..	7·0	..	10·6	0	7	17	2	0	1	1	2	2	9	7	6	0
	0530	,,	1004·2	943·8	..	22·2	21·4	21·0	24·9	93	..	6·6	..	10·0	0	7	17	1	0	1	0	2	3	9	8	6	0
	0830	,,	1005·8	945·6	−1.6	23·5	22·0	21·3	25·3	87	+7	7·0	+1.7	14·3	0	10	19	2	0	2	0	3	2	11	9	1	0
	1130	,,	1004·7	945.1	..	26·6	23·2	21·6	25·9	75	..	7·0	..	16·0	0	11	18	3	0	1	1	1	5	9	9	1	0
	1730	,,	1002·0	942·4	..	25·9	22·9	21.4	25·8	78	..	7·2	..	12.7	0	4	26	7	0	3	2	1	2	10	4	0	1
	2330	,,	1005·2	945·0	..	23·0	21·9	21·4	25·5	90	..	7·2	..	9·0	0	2	22	0	0	3	4	0	1	7	9	6	0
Khammam	0830	112	1005·3	992·7	..	26·2	24·5	24·0	29·3	84	..	6·6	..	4·1	0	0	23	3	0	3	1	2	5	7	2	7	0
	1730	,,	1001·4	989·0	..	28·3	25·2	23·7	29·7	77	..	7·0	..	3·7	0	1	16	2	0	5	0	3	0	7	0	12	0
Mahbubnagar	0830	505	1006·2	950·1	..	23·6	22·3	21·6	25·8	88	..	7·6	..	(b) 6·5	0	0	27	1	0	1	0	0	4	13	8	3	0
	1730	,,	1001·9	946.7	..	26·6	23·4	22·1	26·1	76	..	7·6	..	5·1	0	0	21	1	0	2	0	2	2	9	5	9	0
Rayalaseema																											
Kurnool	0830	281	1007·0	975·3	−1.5	24·5	22·5	21·4	25·8	83	+8	7 3	+1.9	14·0	0	9	21	0	1	0	0	0	15	0	14	0	0
	1730	,,	1001·9	970·9	..	29·0	23·8	21·3	25·2	64	..	6·5	..	11·5	0	5	23	0	0	0	0	0	10	2	16	2	0
Nandyal (R)	0830	212																									
(R)	1730	,,																									
Anantaur	0530	350	1005·5	966·2	..	23·0	21·9	21·3	25·3	90	..	6·9	..	9·2	0	3	18	0	0	0	0	1	0	20	0	9	0
	0830	,,	1007·2	968·0	−1.0	24·2	22·5	21·7	25·9	86	+11	7·2	+1.4	11·4	0	5	23	0	1	0	0	1	5	20	1	2	0
	1130	,,	1006·1	967·4	..	27·5	23·7	22·5	26·3	72	..	6·8	..	14.9	0	7	20	0	0	0	0	0	6	21	0	3	0
	1430	,,	1003·2	964·8	..	29·0	24·2	21·9	26·3	67	..	6·7	..	18·0	0	10	20	0	0	0	1	0	2	23	4	0	0
	1730	,,	1002·8	964·3	..	28·4	23·8	21·6	25·6	68	..	6·8	..	15·9	0	9	19	3	1	0	1	0	1	20	2	2	0
	2030	,,	1005·1	966·3	..	26·3	23·5	22·2	26·6	79	..	6·2	..	10·1	0	5	17	0	0	0	1	0	1	20	0	8	0
	2330	,,	1006·1	967·1	..	25.2	23.0	21·9	26·3	82	..	6·5	..	13·9	0	8	18	0	0	1	1	0	5	19	0	4	0
Cuddapah	0830	130	1007·2	992·4	−1·7	26·1	23·2	21·8	26·1	78	+7	6·2	+0·8	1·3	0	0	8	0	0	0	0	0	0	8	0	22	0
	1730	,,	1002·8	988·3	..	29·5	24·7	22·5	27·3	67	..	6·4	..	1·6	0	0	11	0	0	0	0	0	0	7	4	19	0
Arogyavaram	0830	701	1007·3	930·3	..	23·2	20·2	18·7	21·3	77	..	6·2	..	11·3	0	2	28	7	0	0	0	4	0	13	6	0	0
	1730	,,	1002·9	927·0	..	26·2	21·4	19·1	21·8	69	..	6·1	..	14·2	0	1	29	8	0	1	1	1	4	8	7	0	0
Madras State																											
Madras	0830	6	1006·7	1006·0	..	27·5	24·4	22·9	28·0	76	..	5·9	..	8·5	0	0	27	0	0	0	0	0	8	17	2	3	0
Madras—Miambakkam	0230	16	1004·6	1002·9	..	26·5	24·5	23·5	29·1	84	..	5·8	..	7·0	0	2	19	1	0	0	0	4	6	10	0	9	0
	0530	,,	1005·1	1003·3	..	25·7	23·8	22·9	27·9	85	..	5·9	..	7·3	0	0	21	0	0	0	1	2	7	9	2	9	0
	0830	,,	1006·9	1005·1	−1.3	27·5	24·3	22·7	27·7	76	+4	6·0	+1·0	10·7	0	1	25	0	0	0	0	1	6	18	1	4	0
	1130	,,	1006·0	1004·3	..	30·6	24·7	21·9	26·3	61	..	5·2	..	14·6	0	8	21	0	0	0	0	4	8	14	3	1	0
	1430	,,	1003·3	1001·6	..	31·6	25·4	22·5	27·4	60	..	6·1	..	15·2	0	8	21	0	2	2	3	2	9	7	4	1	0
	1730	,,	1003·1	1001·4	..	30·1	25·5	23·4	28·9	69	..	6·1	..	10·5	0	2	25	2	0	1	7	6	5	5	1	3	0
	2030	,,	1005·6	1003·9	..	27·9	25 0	23·7	29·3	79	..	4·5	..	9·3	0	1	23	0	0	1	2	10	7	4	0	6	0
	2330	,,	1006·0	1004·3	..	27·1	24·8	23·7	29·3	83	..	5·5	..	8·7	0	1	25	1	0	1	2	6	13	3	0	4	0
Vellore	0530	214	1005·6	981·5	..	24·2	21·8	20·6	24·1	81	..	6·2	..	1·1	0	0	9	0	0	0	0	0	0	9	0	21	0
	0830	,,	1007·1	983·1	−1·2	26·2	22·7	20·9	24·7	71	−2	6·6	+2·6	5·9	0	0	25	0	0	0	0	0	4	19	2	5	0
	1130	,,	1006·4	982·7	..	29·6	24·0	21·2	25·2	61	..	6·4	..	6·3	0	0	30	0	1	0	1	0	2	23	3	0	0
	1730	,,	1002·9	979·3	..	30·0	24·3	21·5	25·6	61	..	6·7	..	2·3	0	0	20	0	0	1	0	3	9	7	0	10	0
	2330	,,	1006·6	982·6	..	26·4	23·2	21·6	25·8	76	..	5·5	..	1·7	0	0	14	0	0	0	1	0	4	9	0	16	0
Tambarhm	0830	29	1006·5	1003·3	..	27·5	25·7	24·9	31·5	87	..	6·5	..	12·2	0	1	26	0	0	0	0	3	10	14	0	3	0
	1730	,,	1003·2	999·9	..	30·0	27·3	26.1	34·2	81	..	6·4	..	20·1	0	10	19	0	1	1	8	3	7	6	3	1	0

(R) Register not received. (b) Mean of 29 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Tirupattur	0830	390	1007·7	964·1	..	24·1	22·7	21·9	26·4	88	..	7·9	..	2·9	0	0	29	28	0	0	0	1	0	0	0	1	0
	1730	,,	1003·7	960·9	..	28·5	24·9	23·1	28·4	74	..	7·8	..	5·9	0	0	30	16	2	8	0	0	0	3	1	0	0
Mettur Dam R. S.	0830	..	..	..	..	26·7	24·3	23·1	28·4	81	..	4·5	..	4·1	0	0	27	0	3	0	9	0	10	0	5	3	0
	1730	,,	..	..	..	29·4	26·2	24·9	31·3	77	..	5·4	..	5·7	0	0	29	0	4	0	4	0	14	0	7	1	0
Cuddalore	0530	12	1004·7	1003·4	..	25·3	23·8	23·0	28·3	88	..	6·4	..	3·5	0	0	20	0	0	0	2	0	18	0	0	10	0
	0830	,,	1007·0	1005·7	—1·7	27·6	24·2	22·6	27·4	75	0	6·4	+1·8	6·2	0	0	29	0	0	0	1	22	6	0	0	1	0
	1130	,,	1006·1	1004·8	..	31·1	25·1	22·2	26·9	60	..	6·5	..	9·1	0	0	29	0	0	0	2	0	21	5	1	1	0
	1730	,,	1003·2	1001·9	..	30·4	25·4	23·1	28·3	67	..	5·8	..	9·5	0	1	28	0	0	0	12	3	14	0	0	1	0
	2330	..	1006.3	1004·9	..	26·8	24·7	23·7	29·3	83	..	6·8	..	5·5	0	0	26	0	0	0	4	0	22	0	0	4	0
Kallakkurichchri	0830	127	1006.9	992.7	..	27.0	23·6	21·9	26.3	74	..	5·5	..	5·7	0	1	26	0	0	1	1	4	19	1	1	3	0
	1730	,,	1002.8	988.8	..	30·7	24·6	21·6	25·9	59	..	5·9	..	6·8	0	0	28	1	0	4	2	3	12	3	3	2	0
Salem	0530	278	1006.1	974.7	..	23·3	21·7	20·8	24·7	86	..	5·9	..	3·4	0	0	15	0	0	0	0	1	3	9	2	15	0
	0830	,,	1007·7	976·5	—1·8	25·4	22·4	20·8	24·6	76	—2	6·9	+2·2	2·2	0	0	15	0	0	0	0	6	2	7	0	15	0
	1130	,,	1006·7	975·9	..	28·9	23·3	20·5	24·0	61	..	6·2	..	7·7	0	1	28	1	0	1	0	0	7	14	6	1	0
	1730	,,	1003·1	972·5	..	29·4	23·4	20·2	23·8	59	..	6·8	..	3·7	0	0	21	1	1	1	0	1	5	11	1	9	0
	2330	,,	1007·2	976·0	..	24·9	22·2	20·8	24·4	79	..	6·7	..	6.3	0	1	19	0	0	1	0	0	3	15	1	10	0
Coimbatore (Pilamedu)	0530	399	1006·7	961·9	..	22·0	21·1	20·5	24·4	91	..	5·3	..	18·8	0	15	12		0	0	0	15	12	0	0	3	0
	0830	,,	1008·2	963·7	..	24·3	22·0	20·7	24·4	81	..	5·3	..	20·1	0	16	11	0	0	0	0	12	12	2	0	3	1
	1130	,,	1007·1	963·2	..	28·1	22·7	19·9	23·1	62	..	5·5	..	24·9	1	18	10	0	0	1	1	13	12	2	0	1	0
	1730	,,	1004·3	960·3	..	26·8	22·5	20·2	23·8	67	..	5·6	..	26·8	0	26	3	0	0	0	0	12	17	0	0	1	0
	2330	,,	1008·1	963·3	..	22·9	21·5	20·7	24·6	88	..	5·1	..	22·0	0	18	12	0	0	0	0	10	19	1	0	0	0
Coimbatore	0830	409	1008·2	962·7	—1·3	24·5	21·8	20·3	23·8	77	—4	6·8	+2·9	23·3	0	27	3	0	13	15	2	0	0	0	0	0	0
Nagapattinam	0830	9	1007·8	1006·7	—1·3	27·8	24·0	22·1	26·7	72	0	6·1	+1.9	11·6	0	2	28	0	0	0	1	1	7	19	2	0	0
	1730	..	1003·9	1002·8	..	30·8	25·2	22·7	27·4	62	..	5·7	..	15·9	0	12	18	0	0	0	5	7	14	3	1	0	0
Tiruchirapalli	0230	88	1005·3	995·3	..	25·6	22·7	21·2	25·3	77	..	5·8	..	18·1	0	14	13	0	0	0	0	0	2	21	4	3	0
	0530	,,	1005·5	995·5	..	25·1	22·6	21.3	25·3	80	..	6.1	..	16·4	0	8	21	0	1	0	0	0	3	23	2	1	0
	0830	,,	1007.2	997·3	—2·0	27·0	23·5	21·7	25·9	73	+1	6·2	+2·0	22·3	0	19	11	1	0	0	0	0	2	27	0	0	0
	1130	,,	1006·5	996·7	..	31·0	24·8	21·8	26·3	59	..	6·1	..	25·5	0	20	9	0	0	1	0	0	5	21	2	1	0
	1430	,,	1003·3	993·6	..	33·1	25·1	21·2	25 3	50	..	6·0	..	24.5	0	10	14	0	1	1	0	0	4	19	5	0	0
	1730	,,	1003·1	993·4	..	31·3	24·5	21·2	25·8	56	..	6·1	..	20·8	0	16	14	0	0	1	2	1	5	15	6	0	0
	2030	,,	1005·8	995·9	..	28·4	23·7	21·3	25·3	67	..	5·7	..	18·9	0	13	16	1	0	1	1	4	4	17	1	1	0
	2330	..	1006·7	996·8	..	26·6	23·1	21·2	25·3	73	..	5·9	..	16·4	0	11	16	0	0	0	1	1	0	22	3	3	0
Vedaranniyam	0830	4	1007·7	1007·2	..	28·6	24·4	22·4	27·1	70	..	3·5	..	5·7	0	0	30	2	0	0	1	20	14	0	3	0	0
	1730	,,	1004·4	1003·9	..	29·5	25·2	23·3	28·6	70	..	3·5	..	6·1	0	0	30	0	0	0	0	12	18	0	0	0	0
Atirampattinam	0830	6	1007·5	1006·9	..	27·9	24·0	22·1	26·6	71	..	5·1	..	6·2	0	0	27	0	0	1	1	4	3	7	11	3	0
	1730	133	1004·0	1003·3	..	29·7	25·6	23·7	29·3	71	..	5.0	..	19·6	0	16	14		0	0	2	24	3	0	1	0	0
Madurai	0530	,,	1007·2	992·8	—0·8	27·3	22·8	20·4	24·1	66	0	3·4	—1·4	4.3	0	0	29	2	1	0	0	0	5	6	14	1	4
Madurai Aerodrome	0530	131	1006·2	990·8	..	25·3	22·0	20·1	23·8	74	..	5·6	..	7·2	0	3	22	2	1	2	1	1	3	9	6	5	0
	0830	,,	1008·0	993·3	+0·6	27·9	22·7	20·0	23 4	63	..	5.6	..	9.3	0	3	24	6	2	1	0	0	3	8	7	3	0
	1130	,,	1007·0	991·8	..	31·7	23 6	19·3	22·4	49	..	5·3	..	13·3	0	7	22	2	2	1	2	1	6	10	5	1	0
	1730	,,	1004·1	989·5	..	30·7	23·0	18·7	21·8	51	..	6·2	..	21·3	0	16	13	0	3	1	1	1	1	19	3	1	0
Tondi	0830	5	1008·0	1007·4	..	28·3	24·1	22·1	26·6	69	..	4·7	..	7·5	0	0	29	0	0	0	1	1	20	5	2	1	0
	1730	,,	1004·2	1003·6	..	29·7	26·2	24·7	31·1	76	..	5·1	..	28·1	0	26	4	0	0	2	10	15	2	1	0	0	0
Pamban	0830	11	1007·9	1006·6	—1·4	28·3	25·1	23·7	29·3	76	—1	3·4	+0.5	8·7	0	1	25	1	0	0	0	8	12	5	0	4	0
	1730	,,	1004·6	1003·3	..	28·7	26·0	24·8	31·5	80	..	3·7	..	11·3	0	6	23	0	1	0	2	12	13	1	0	1	0
Tuticorin	0830	4	1008·3	1007·9	—0·7	29·1	23·6	20·6	24·4	61	+2	4·1	+0·9	14·3	0	9	21	3	1	0	0	0	6	20	0	0	0
	1730	,,	1004·7	1004·3	..	31·2	23·5	19·3	22·7	51	..	5·2	..	13·3	0	23	7	0	0	0	2	3	5	20	0	0	0
Palayankottai	0830	51	1008·4	1002·7	—0·1	29·0	23·4	20·5	24·3	60	+2	6·0	+2·1	11·5	0	8	18	2	0	0	0	2	0	21	1	4	0
	1730	,,	1005·0	999·3	..	30·1	23·3	19·7	22·9	54	..	6·3	..	13·5	0	7	23	1	0	0	1	2	0	21	5	0	0
Kanniyakumari	0830	37	1008·9	1004·7	..	26·5	23·7	22·4	26·9	79	..	6·0	..	20·6	0	16	14	0	1	0	0	0	0	26	3	0	0
	1730	,,	1006·0	1001·9	..	27·3	24·2	22·7	27·6	76	..	5·8	..	18·8	0	17	13	0	0	0	0	0	1	26	3	0	0
Karwar	0830	4	1008·6	1008·1	—0·9	25·2	24·1	23·6	28·9	91	+1	6·9	+0·9	8·4	0	3	27	0	7	7	2	0	0	2	5	0	1
	1730	,,	1006·2	1005·7	..	27·1	24·7	23·6	29·1	81	..	7·3	..	16·5	0	10	20	0	0	0	1	1	5	6	16	0	1
Honavar	0830	26	1008·6	1005·6	—1·8	24·5	23·5	23·1	28·1	92	+1	7·5	+1·3	4·1	0	0	30	2	0	16	0	3	3	5	1	0	0
	1730	,,	1006·0	1003·0	..	26·6	24·4	23·4	28·8	83	..	7·2	..	6·5	0	0	29	0	0	0	0	7	0	14	8	1	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (K. m.p.h.): 62 or more	Wind speed (K. m.p.h.): 20 to 61	Wind speed (K. m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*) Mangalore (Baspe)	0230	102	1007.2	995.6	..	23.8	23.1	22.8	27.6	94	..	7.0	..	6.1	0	0	26	2	0	4	1	2	4	5	8	4	0
	0530	,,	1007.3	995.7	..	23.5	22.9	22.7	27.4	95	..	7.1	..	5.1	0	0	25	2	1	7	4	0	3	5	3	5	0
	0830	,,	1009.1	997.6	..	24.5	23.5	23.1	28.1	92	..	7.6	..	5.8	0	0	27	2	0	9	3	1	4	4	4	3	0
	1130	,,	1008.9	997.5	..	26.9	24.3	23.1	28.3	80	..	7.4	..	9.9	0	1	29	2	0	0	1	1	6	9	10	0	1
	1430	,,	1006.5	995.1	..	27.4	24.3	22.8	27.6	77	..	7.1	..	13.2	0	2	28	0	0	0	0	0	6	12	12	0	0
	1730	,,	1006.3	994.8	..	26.1	23.9	22.8	27.9	83	..	7.5	..	11.2	0	1	28	1	0	0	0	0	2	15	11	1	0
	2030	,,	1008.1	996.6	..	24.7	23.7	23.3	28.6	91	..	7.0	..	6.8	0	0	27	1	0	1	2	0	3	13	7	3	0
	2330	,,	1008.8	997.3	..	24.2	23.4	23.0	28.1	93	..	7.2	..	6.5	0	0	25	3	2	1	1	2	5	4	7	5	0
Mangalore	0830	22	1009.0	1006.5	—1.7	25.2	23.9	23.3	28.6	89	+1	6.8	+1.0	4.1	0	0	29	2	2	7	4	3	4	2	3	1	2
	1730		1006.0	1003.7	..	27.2	24.7	23.6	28.9	81	..	7.5	..	7.5	0	0	30	0	1	0	0	0	11	6	6	0	6
Interior Mysore North Bidar	0830	664	1005.8	932.8	..	22.3	21.2	20.7	24.4	91	+8	7.5	+2.7	14.1	0	8	20	0	2	0	0	1	7	8	10	2	0
	1730	,,	1001.6	929.4	..	25.5	22.6	21.3	25.3	77	..	7.5	..	8.1	0	5	17	0	2	1	0	0	6	4	9	8	0
Gulbarga	0830	458	1006.7	955.7	—1.6	23.5	21.9	21.2	25.0	87	+9	7.6	+2.7	7.5	0	0	23	2	0	1	0	1	0	12	7	7	0
	1730	,,	1001.8	951.7	..	27.6	23.1	21.1	25.0	69	..	6.7	..	9.5	0	4	21	2	1	0	3	0	1	11	7	5	0
Bijapur	0830	594	1007.2	941.3	—1.7	22.3	21.1	20.4	24.1	89	+11	7.4	+2.6	2.8	0	0	23	3	0	0	0	1	3	12	4	7	0
	1730	,,	1002.1	937.5	..	26.9	22.6	20.6	24.1	71	..	8.0	..	4.0	0	0	27	1	0	0	0	3	2	16	5	3	0
Raichor	0830	400	1006.7	962.0	—2.0	24.1	22.0	20.9	24.7	83	+7	7.2	+3.1	5.5	0	1	21	0	0	0	0	0	10	8	4	8	0
	1730	,,	1002.1	958.5	..	28.6	23.3	20.4	24.3	63	..	6.6	..	7.3	0	0	28	0	6	0	2	0	7	0	13	2	0
Belgaom	0830	753	1007.5	924.6	—2.0	21.1	20.3	20.0	23.2	93	+6	7.4	+1.5	3.5	0	0	21	0	0	1	0	0	0	16	4	9	0
	1730	,,	1004.2	922.2	..	23.3	22.1	21.6	25.6	90	..	7.5	..	7.5	0	0	30	0	0	0	0	0	0	22	8	0	0
Belgaom Samra	0530	747	1006.5	923.9	..	19.9	19.1	18.8	21.6	94	..	6.3	..	5.7	0	1	17	0	0	0	0	0	3	11	4	12	0
	0830	,,	1007.8	925.5	..	21.1	20.0	19.4	22.7	90	..	7.7	..	8.1	0	0	28	1	0	0	0	0	2	19	6	2	0
	1130	,,	1007.0	925.6	..	24.6	21.2	19.4	22.7	73	..	7.7	..	12.4	0	8	21	2	0	0	0	0	5	16	6	1	0
	1430	,,	1004.3	923.4	..	25.7	21.4	19.3	22.4	69	..	7.6	..	13.2	0	9	19	1	0	0	0	0	3	18	6	2	0
	1730	,,	1004.3	922.9	..	23.6	21.1	19.9	23.2	80	..	7.6	..	14.5	0	10	20	2	0	0	0	0	5	21	2	0	0
	2030	,,	1006.8	924.6	..	22.4	20.4	19.9	23.2	91	..	6.3	..	11.1	0	4	26	0	0	0	0	0	2	23	5	0	0
Gadag	0530	650	1006.6	934.5	..	20.7	20.1	19.7	23.1	95	..	7.2	..	6.6	0	0	24	0	0	0	0	1	0	23	0	6	0
	0830	,,	1007.9	936.1	—1.3	22.1	20.6	19.9	23.2	88	+6	7.1	+1.7	6.2	0	0	27	0	0	0	0	0	0	27	0	3	0
	1130	,,	1007.0	935.9	..	25.5	21.8	20.0	23.5	73	..	7.0	..	8.4	0	1	28	2	0	0	0	0	2	21	4	1	0
	1430	,,	1003.8	933.4	..	27.1	22.2	19.7	23.2	66	..	7.1	..	8.1	0	0	27	0	0	1	0	0	2	21	3	3	0
	1730	,,	1003.7	932.9	..	25.6	21.7	19.7	23.1	71	..	7.0	..	6.4	0	0	30	0	0	1	0	1	5	20	3	0	0
	2030	,,	1006.4	934.8	..	22.9	21.1	20.1	23.7	85	..	6.2	..	8.1	0	0	26	0	0	0	0	0	2	22	2	4	0
	2330	,,	1007.6	935.6	..	21.7	20.7	20.2	23.7	91	..	6.9	..	9.5	0	0	28	0	0	0	0	1	4	23	0	2	0
Interior Mysore South Bellary	0830	449	1007.0	957.0	—1.9	24.3	22.1	20.9	24.7	82	+12	6.1	+1.1	8.3	0	0	27	0	0	0	0	0	8	0	19	3	0
	1730	,,	1002.8	953.6	..	28.1	23.6	21.5	25.3	68	..	6.5	..	8.5	0	0	29	0	0	0	0	0	7	0	22	1	0
Chitradurga	0830	733	1007.9	927.1	—1.5	21.3	20.0	19.4	22.4	89	+9	7.3	+1.1	6.7	0	0	28	0	0	0	0	0	9	19	0	2	0
	1730	,,	1003.5	923.9	..	25.1	21.1	18.9	22.1	70	..	7.4	..	5.2	0	0	23	0	0	0	0	0	1	22	0	7	0
Shimoga	0830	571	1008.1	944.7	—1.3	22.6	20.9	20.1	23.5	85	0	7.1	+0.6	4.1	0	0	30	0	0	0	0	0	13	15	2	0	0
	1730	,,	1004.5	941.8	..	24.7	21.6	20.0	23.5	76	..	6.9	..	6.9	0	0	29	1	1	0	0	0	12	11	4	1	0
Ahumbe	0830	..	..	..	..	21.4	20.7	20.3	23.8	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bale Honnur	0830	..	..	..	..	20.1	19.1	18.6	21.4	91	—2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1485.1	903.7	..	19.8	18.9	18.4	21.3	92	+10	7.4	+1.6	3.9	0	0	30	0	0	2	0	0	1	27	0	0	0
	1730	,,	1463.9	900.9	..	22.7	20.0	18.6	21.3	78	..	7.6	..	4.2	0	0	30	0	0	1	1	0	10	15	3	0	0
Bangalore	0230	921	1468.7	906.2	..	19.5	18.9	18.6	21.3	94	..	6.7	..	8.0	0	1	24	2	0	0	0	0	10	11	2	5	0
	0830	,,	1482.9	907.5	—1.6	20.4	19.2	18.5	21.4	89	+5	7.2	+0.6	9.1	0	3	25	1	0	0	0	0	9	12	6	2	0
	1130	,,	1487.2	907.3	..	24.1	20.4	18.5	21.3	72	..	7.0	..	11.4	0	6	23	1	1	0	0	0	5	18	4	1	0
	1430	,,	1470.5	905.2	..	25.6	21.1	18.8	21.8	67	..	7.2	..	11.6	0	4	26	0	1	1	0	0	8	12	7	0	1
	1730	,,	1464.9	904.9	..	24.1	20.6	18.8	21.7	73	..	7.1	..	9.6	0	3	25	0	0	0	1	1	10	6	10	2	0
	2030	,,	1476.7	906.6	..	21.8	19.9	18.8	21.8	83	..	5.9	..	9.1	0	2	24	0	0	1	0	0	8	11	6	4	0
Bangalore Aerodrome	0530	897	1464.2	908.4	..	19.2	18.7	18.4	21.3	95	..	6.4	..	10.5	0	4	21	0	0	0	0	0	5	19	1	5	0
	0830	,,	1493.0	910.0	..	20.9	19.4	18.6	21.4	87	..	7.1	..	14.3	0	6	22	1	0	0	0	0	3	23	1	2	0
	1130	,,	1485.3	909.7	..	24.2	20.6	18.6	21.6	71	..	7.2	..	17.3	0	10	18	0	1	0	0	1	2	21	3	2	0
	1730	,,	1460.7	907.0	..	24.3	20.7	18.8	21.8	72	..	7.0	..	15.8	0	10	19	2	0	0	1	1	2	18	5	1	0
	2330	,,	1479.1	909.6	..	20.7	19.5	18.9	21.8	90	..	6.4	..	14.3	0	5	22	1	0	0	0	0	3	21	2	3	0
Mysore	0830	767	1008.7	924.3	—1.4	21.6	19.5	18.5	21.0	82	+3	4.8	—1.0	3.5	0	0	30	1	1	0	0	5	10	8	5	0	0
	1730	,,	1005.1	921.8	..	24.5	20.3	18.0	20.5	68	..	7.1	..	7.1	0	0	30	0	0	2	1	1	10	13	3	0	0

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean Pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean Pressure in millibars: At station level	Mean Pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind Speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala																											
Calicut	0530	5	1008·3	1007·7	..	23·7	23·3	23·0	28·3	96	..	4·5	..	3·6	0	1	11	2	3	4	0	0	0	0	3	18	0
	0830	,,	1009·7	1009·1	−1·1	25·2	24·0	23·5	28·7	90	+2	5·6	+0·2	4·9	0	0	21	1	2	2	1	0	0	2	13	9	0
	1130	,,	1010·0	1009·4	..	26·9	25·0	24·2	30·0	86	..	6·1	..	7·0	0	0	27	1	0	0	0	4	3	9	10	3	0
	1730	,,	1007·1	1006·5	..	26·5	24·9	24·1	30·2	87	..	5·9	..	9·5	0	0	28	0	1	0	0	2	0	8	17	2	0
	2330	,,	1009·8	1009·2	..	25·0	24·1	23·7	29·3	93	..	4·9	..	3·9	0	2	13	4	0	2	1	0	1	1	6	15	0
Palghat	0830	97	1009·4	998·3	..	24·8	23·4	22·7	27·6	88	..	6·6	..	10·1	0	0	29	0	0	1	0	0	3	24	1	1	0
	1730	,,	1005·6	994·6	..	26·2	23·5	22·2	26·6	80	..	6·2	..	12·7	0	0	30	0	0	0	0	0	1	29	0	0	0
Fort Cochin	0830	3	1009·9	1009·6	−1.3	25·4	24·2	23·7	29·3	90	+6	7·3	+2·2	7·4	0	1	27	4	10	7	1	0	1	2	3	2	0
	1730	,,	1007·2	1006·9	..	26·3	24·6	23·9	29·7	87	..	7·3	..	9·5	0	1	27	1	0	0	0	0	4	6	17	2	0
Cochin (Naval Air Station)	0230	3	1008·3	1008·0	..	24·4	23·7	23·4	28·7	94	..	6·5	..	2·5	0	1	5	0	0	0	0	0	0	4	2	24	0
	0530	,,	1008·2	1007·9	..	23·9	23·3	23·0	28·1	95	..	6·5	..	3·7	0	0	10	0	0	1	1	0	1	2	5	20	0
	0830	,,	1010·0	1009·7	..	25·6	24·1	23.3	28·7	87	..	6·4	..	2·1	0	0	5	2	0	0	1	0	0	0	2	25	0
	1130	,,	1010·1	1009·8	..	27·2	24·7	23·5	29·0	81	..	6·4	..	9·4	0	1	21	0	0	0	0	1	1	9	11	8	0
	1730	,,	1007·5	1007·2	..	26·7	24·4	23·3	28·6	82	..	6·8	..	11·7	0	2	21	0	0	0	0	1	2	10	10	7	0
	2330	,,	1009·9	1009·6	..	24·9	23·9	23·5	28·9	91	..	6·7	..	4·1	0	0	12	1	0	0	0	0	0	5	6	18	0
Alleppey	0830	4	1010.0	1009·6	−0·7	25·2	24·3	23·9	29·7	93	+6	6·8	+0·5	9·6	0	3	26	2	8	2	3	0	3	1	10	1	0
	1730	,,	1007·4	1007·0	..	27·3	25·0	24·0	29·8	84	..	7·0	..	20·1	0	17	13	1	0	0	0	0	0	6	23	0	0
Punalur	0830	34	1009·9	1006·1	..	24·2	23·6	23·2	28·6	94	..	6·6	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	,,	1007·7	1003·9	..	24·8	24·1	23·7	29·3	94	..	7·6	..	4·7	0	0	30	0	0	0	0	3	13	12	2	0	0
Trivandrum	0230	64	1008·0	1000·7	..	23·8	23·1	22·8	27·6	94	..	5·4	..	4·5	0	1	15	2	1	0	0	0	1	12	0	14	0
	0530	,,	1008·2	1000·8	..	23·5	22·9	22·7	27·4	95	..	5·0	..	6·1	0	0	25	10	1	0	0	0	0	0	14	5	0
	0830	,,	1010.0	1002·7	−0·9	25·0	23·8	23·1	28·4	89	+6	6·1	+0·7	5·7	0	0	25	4	1	0	0	0	0	2	18	5	0
	1130	,,	1009·5	1602·2	..	27·5	24·3	22·8	27·7	76	..	6·1	..	12·0	0	2	27	3	0	0	0	0	4	6	16	1	0
	1430	,,	1007·1	999·8	..	27·8	24·6	23·0	28·3	75	..	5·9	..	14·0	0	7	22	1	0	0	0	0	2	7	19	1	0
	1730	,,	1007·3	1000·0	..	26·4	23·8	22·6	27·4	80	..	6·4	..	11·6	0	2	28	2	0	0	0	1	1	4	22	0	0
	2030	,,	1009·3	1002·0	..	24·8	23·6	23·0	28·1	90	..	4·9	..	6·9	0	0	25	3	0	0	0	0	0	2	20	5	0
	2330	,,	1009·8	1002·5	..	24·3	23·4	22·9	27·9	92	..	5·3	..	7·1	0	0	26	6	1	0	0	0	1	2	16	4	0
Trivandrum Aerodrome	0830	8	1010·3	1009·4	..	26·1	24·0	23·0	28·3	83	..	6.5	..	20.8	0	17	10	14	0	0	1	0	1	2	9	3	0
Arabian Sea Islands																											
Aminiǂ	0530	4																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Minicoyǂ	0530	2																									
	0830	,,																									
	1130																										
	1430	,,																									
	1730	,,																									
	2030	,,																									
	2330	,,																									
		,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1410·9	797·6	−0·6	16·6	14·7	14·4	16·4	83	−1	3·1	+0·6	1·1	0	0	10	0	6	0	2	1	0	0	0	20	1
	1730	,,	1397·4	796·6	..	18·6	16·8	15·5	17·6	85	..	4·3	..	1·3	0	0	12	0	2	3	5	0	0	1	0	18	1
Dharmsala	0830	1211	1482·2	877·5	−3·1	21·5	19·1	17·6	20·1	78	+5	4·2	+0.7	1·3	0	0	18	3	13	0	0	0	1	0	1	12	0
	1730	,,	1478·3	876·9	..	23·1	20·3	19·0	22·0	78	..	5,7	..	2·2	0	0	29	1	1	1	1	1	19	3	2	1	0
Simla	0830	2202	1461·2	780·0	−1·0	16·4	14·0	12·2	14·4	79	+8	3·9	+0·3	1·7	0	0	26	9	3	1	2	8	2	0	1	4	0
	1730	,,	1455·5	779·5	..	16·3	15·6	15·2	17·4	91	..	5·8	..	1·4	0	0	21	1	10	0	4	0	4	0	2	9	0
Lokpal	0830	..	..	..	..	3·3	2·4	1·4	6·8	88	..	5·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..																									
Joshimath (R)	0830	..	..	..	..	17.0	15·3	14.1	16·1	83	..	4·8	..	2·2	0	0	19	0	2	8	2	1	2	3	1	11	0
	1730	..	..	..	..	20·5	17·3	15·3	18·5	73	..	5·9	..	2·5	0	0	25	3	2	2	4	1	2	3	6	5	0
Mussoorie	0830	2052	..	..	..	16.8	15·4	14·6	16·6	88	0	6.1	+1·3	2.7	0	0	21	3	2	0	5	7	2	0	2	9	0
	1730	,,	..	..	..	17·6	17·3	16·9	19·3	97	..	7·4	..	(b) 2·4	0	0	19	4	2	0	4	6	2	0	1	10	0

††Data given as addenda in December 1964 issue. (R) Register not received. (b) Mean of 29 days.

Sub Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations Excluding Kashmir—(*Contd.*)																												
Mukteswar (Kumaun)	0830	2311	3126·2	771.4	−0·7	15·4	14·3	13·7	15·6	91	+10	5·1	+0·8	7·5	0	4	21	0	8	9	2	0	1	4	1	5	0
	1730	,,	3107·3	769·5	..	16·3	15.3	14·6	16·8	90	..	5·7	..	9·8	0	2	26	0	3	5	1	2	4	10	3	2	0
Nainital	0830	1953	1458·7	802·8	—0·5	17·8	15·6	14·4	16·4	81	+2	4·7	0	5·7	0	1	18	3	1	9	5	0	1	0	0	11	0
	1730	,,	1432·6	800·1	..	17·6	15·8	14·7	16·7	83	..	4·5	..	5·9	0	1	25	3	0	2	3	3	2	13	0	4	0
Kalimpong	0830	1209	..	.	..	24·5	22·6	21·7	25·9	84	−5	1·4	−4·3	4·9	0	0	30	1	0	0	5	0	0	0	24	0	0
	1730	,,	..	..	..	24·9	22·9	22.0	26·4	84	..	2.7	..	3·9	0	0	30	0	0	0	28	1	0	0	1	0	0
Darjeeling	0830	2128	1505.4	790·8	+2.0	16·7	16·1	15·8	17·9	95	+11	6·9	+0·5	1·0	0	0	7	1	0	0	0	0	3	1	0	23	2
	1630	,,	1475·5	788·1	..	16·7	16.3	16·1	18·3	96	..	7·0	..	1.6	0	0	10	2	0	0	0	1	6	1	0	20	0
Kohima	0830	1406	1537·5	863·1	..	20·8	19.7	19.1	22·1	92	..	6·1	..	1·2	0	0	17	0	1	0	4	0	1	1	9	13	1
	1630	,,	1448.2	854·2	..	21·4	20·4	19·9	23·2	91	..	7·6	..	0·8	0	0	23	1	2	2	2	0	3	1	12	7	0
Shillong	0830	1500	1490·6	849.1	+0·3	21 9	19·7	18·5	21·3	81	+2	6·3	+0·7	1.1	0	0	6	0	0	3	2	0	0	1	0	24	0
	†1730	,,	1457.0	846·0	..	20·6	19·4	18·8	21·7	88	..	6·6	..	0·5	0	0	4	0	0	1	2	0	0	1	0	25	0
Cherrapunji (R)	0830	1313	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abu	0830	1195	1479.9	878·7	0	20·6	18·3	16·8	19·1	80	0	3·6	−0·8	0·8	0	0	7	0	0	0	0	1	4	2	0	23	0
	1730	,,	1457·1	876·2	..	22·8	19·2	17·0	19·4	70	..	3·3	..	3·5	0	0	19	0	0	1	0	6	7	3	0	11	0
Ajmer	0830	..	..	..	..	22·1	21·0	20.4	24·0	92	..	6.4*	..	2·3	0	0	30	2	0	15	1	6	2	4	0	0	0
	1730	..	..	..	..	22·5	21·8	21.5	25·6	94	..	7·2	..	2.4	0	0	30	5	0	6	0	7	1	11	0	0	0
Pachmarhi	0830	1075	1471.1	889.8	−1·2	21·5	20·4	19·9	23·2	91	+8	6·3	+1·1	4.5	0	0	28	1	1	3	0	4	0	4	15	2	0
	1730	,,	1448·2	887.4	..	23·2	21·1	20·1	23·5	83	..	6·4	..	3·2	0	0	26	0	7	2	0	1	0	5	11	4	0
Mahabaleshwar	0830	1382	1477.4	859.7	−1·7	17·1	17·0	16·9	19·3	99	+2	7·2	+0·2	10·4	0	0	30	2	2	0	1	0	21	0	4	0	0
	1730	,,	1457·2	857·6	..	18·2	18·0	17·9	20·5	98	..	7·9	..	9·8	0	0	30	0	1	0	0	0	23	0	6	0	0
Mercara	0830	1152	1486·2	884·1	−0·9	18·1	17·6	17·3	19·8	95	+3	6·9	+0·5	10·9	0	0	28	2	0	1	0	0	0	22	3	2	0
	1730	,,	1465·8	881.8	..	19·5	18·6	17·8	20·8	92	..	7·3	..	8·8	0	0	30	0	0	1	0	0	3	18	6	0	2
Ootacamund (R)	0830	2249																									
(R)	1730	..																									
Coonoor (R)	0830	1747																									
Kodaikanal	0830	2343	3131 9	769·5	−0·8	14·1	11·9	10.8	12·5	79	+3	6·3	+1·8	11·7	0	8	19	1	0	1	1	2	0	5	17	3	0
	1130	,,	3141·1	769·6	..	17·1	14·0	11.8	13·9	73	..	6·5	..	11·6	0	5	24	4	1	0	2	2	1	4	15	1	0
	1730	,,	3112·4	767·7	..	14·1	12·8	11·8	13·9	87	..	6·8	..	10·9	0	4	25	1	0	1	0	3	0	8	16	1	0
Nepal																											
Katmandu	0830	1324	1475·3	865·1	..	21·6	19·9	19·0	22·0	85	..	6·1	..	0·6	0	0	6	1	1	1	0	0	0	1	2	24	0
	1130	,,	1468.7	864·3	..	24·9	21·3	19·5	22·7	73	..	5·6	..	1.2	0	0	12	1	1	3	0	0	1	2	4	18	0
	1730	,,	1445·8	862·1	..	22·7	20·8	19·9	23·2	84	..	5·8	..	1·1	0	0	6	2	1	0	0	0	0	2	1	24	0
Sikkim																											
Lachen	0830	,,	..	..	..	15·6	14·2	13·3	15·3	86	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories. Damodar Catchment																											
Tilaiya	0830	..	..	..	..	27.4	24.8	23.7	29·3	81	..	5.1	..	7.7	0	1	28	2	0	5	11	2	1	4	4	1	0
	1730	..	..	..	..	27·4	24·9	23·8	29·5	80	..	6.7	..	4.5	0	0	24	3	1	2	10	1	0	2	5	6	0
Hazaribagh	0830	615	1003.6	936·3	..	25·3	23·7	22·9	27·9	87	..	5·2	..	5·7	0	1	26	2	0	8	4	0	6	1	6	3	0
	1730	,,	1000·7	933.6	..	25·5	23·9	23·3	28 6	88	..	5·9	..	1·7	0	0	12	1	1	5	2	0	0	1	2	18	0
Konar	0830	..	..	..	..	26·9	24·8	23·8	29·5	83	..	5·6	..	6·1	0	0	27	1	2	1	9	6	1	3	4	3	0
	1730	..	..	..	..	26·8	24·6	23·6	29·1	83	..	6·3	..	6·0	0	0	28	0	1	2	14	0	2	4	5	2	0
Bokaro	0830	242	1003·1	975·9	..	28·0	25·7	24·9	31·5	83	..	5·4	..	4·3	0	0	24	2	1	7	5	1	2	4	2	6	0
	1730	,,	1000 3	973·6	..	28·0	25·7	24·5	30·7	83	..	6·2	..	4·1	0	0	23	1	0	9	6	2	0	3	2	7	0
Maithon	0830	..	..	..	..	29·1	26·4	25·3	32·2	80	..	5·2	.	3·6	0	0	30	1	3	0	15	4	6	1	0	0	0
	1730	,,	..	..	..	29·7	26·5	25·3	32·2	78	.	4·9	..	3·4	0	0	30	0	2	0	21	2	4	0	1	0	0
Ramgarh	0830	..	..	..	..	28·1	26·7	26.1	33·8	89	..	7·7	..	2.3	0	0	23	3	5	3	4	0	4	3	1	7	0
	1730	..	..	..		27·5	27·0	26·8	35·2	96	..	6·3	..	1·2	0	0	12	1	1	0	4	4	2	0	0	18	0
Panchet Hill	0830	..	..	..	..	28·3	26·1	25·3	32·2	84	..	4·5	..	4·0	0	0	24	0	4	0	10	0	7	0	3	6	0
	1730	..	..	..	..	28·2	26·1	25·4	32·4	85	..	4·9	..	2·8	0	0	12	0	2	0	6	0	4	0	0	18	0
Durgapur	0830	..	..	..	..	28·6	26.4	25·4	32·4	83	..	4·6	..	8·0	0	0	30	2	1	3	7	11	3	1	2	0	0
	1730	..	...	..	..	28·8	26·3	25·2	32·1	81	..	4·8	..	7·0	0	0	30	1	3	2	8	10	3	0	3	0	

†Observations for 29 days (R) *Register not received,

Sub-Division and Station	Hour of Observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry Bulb	Mean temperature in °C: Wet Bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Departure from normal	Cloud amount (oktas): Mean Amount	Cloud amount (oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—(*Contd.*)																											
Maha nadi Catchment																											
Ginabahar	0830	..	..	..	..	26·2	23·9	22·7	27·7	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1004·3	986.5	..	27·5	25·3	24·4	30·5	83	..	5·5	..	3·1	0	0	22	0	2	5	3	3	3	6	0	8	0
	1130	..	1003·6	986·0	..	30·1	26·2	24·5	30·7	72	..	5·4	..	3·9	0	0	26	2	2	3	5	4	4	4	1	4	1
	1730	..	1000.7	983·1	..	29·7	26·2	24·7	31·1	75	..	5·4	..	1·9	0	0	21	0	2	3	8	3	3	2	0	9	0
Bh'mkund	0830	..	..	..	..	26·3	24.4	23·5	28·9	85	..	6·0	..	1·3	0	0	9	1	0	0	1	1	1	0	5	21	0
	1730	..	..	..	..	27.3	24·9	23·8	29·5	82	..	6·6	..	1·7	0	0	12	0	0	1	2	3	3	0	3	18	0
Sonepur	0830	..	..	..	..	27·9	25·8	24·9	31·5	83	..	..	..	9·5	0	1	28	0	0	11	1	6	1	8	2	1	0
Khijrawan	0830	..	..	..	..	25·3	24·0	23·2	28·4	88	..	4·2	..	2·3	0	0	24	1	4	3	2	0	9	5	0	6	0
Narmada Catchment																											
Bagra Tawa	1730	..	..	..	..	27·9	25·1	23·9	30·0	81	..	3·7	..	2·1	0	0	24	1	1	2	5	2	10	3	0	6	0
	0830	..	..	..	..	25·6	24·0	23.3	28·6	87	..	5·7	..	8·3	0	0	27	0	3	0	0	0	18	6	0	3	0
	1730	..	..	..	..	28·0	24·4	22·7	27·6	75	..	6·1	..	6·3	0	0	24	2	2	3	1	1	7	5	3	6	0
Pamasa	0830	..	..	..	..	25·5	23·8	23·0	28·1	87	..	5·0	..	(f) 7·2	0	0	25	1	1	2	1	0	5	12	3	0	0
	1730	..	..	..	..	28·6	24·8	23·0	28·3	73	..	5·2	..	(g) 4·8	0	0	18	0	0	1	0	1	5	7	4	6	0
Thikri	0830	..	..	..	..	26·3	25·4	23·6	29·3	85	..	4·8 (g)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	27·5	24·4	22·9	27·9	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30.8	26·1	24·1	30·0	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	17·5	14·7	13·1	15·1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·6	14·8	13·7	15·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·2	22·3	21·7	26·0	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·7	25·4	22·5	27·4	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	17·6	16·5	15·9	18·1	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·6	18·3	17.2	19·6	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·5	21·6	20·7	24·4	85	..	5·6	..	0·7	0	0	7	1	0	0	2	4	0	0	0	23	0
	1130	..	..	..	..	26·0	22·6	21·0	24·9	74	..	5·4	..	2·7	0	0	19	1	0	0	11	7	0	0	0	11	0
	1730	..	..	..	..	25·3	22·9	21·8	26·1	82	..	5·5	..	1·3	0	0	7	2	1	1	1	1	0	0	1	23	0
Gorkha	0830	..	..	..	..	21.7	20·9	20·4	24·0	92	..	6·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	24·4	22·3	21·3	25.3	83	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·5	21.6	20·6	24·3	84	..	4·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·4	22·7	22·0	21·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·2	22·6	21·4	25·6	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Trans Himalayan Reagion																											
Dailekh	0830	..	..	..	..	21·3	20·4	19·8	23·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghaer Catchment	1730	..	..	..	..	22·4	21·4	21·0	24·9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	17·8	16·9	16·4	18·7	92	..	4·7	..	4·3	0	0	28	2	5	9	9	1	0	0	2	2	0
	1130	..	..	..	..	19·7	17·9	17·1	19·5	86	..	5·1	..	4.6	0	0	30	11	1	2	8	1	0	0	7	0	0
	1730	..	..	..	..	18·3	17·4	17·0	19·4	92	..	4·9	..	5·3	0	0	30	2	2	1	4	0	2	0	19	0	0
Sallavana.	0830	..	..	..	..	21·9	20·0	19·0	22·1	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·5	19·6	18·6	21·5	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	27·5	24·9	23·6	29·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·0	25·7	24·7	31·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu*	0830	..	..	..	..																						
	1130	..	..	..	..																						
	1730	..	..	..	..																						
Kosi Catchment																											
Chautara	0830	..	..	..	..	19·9	19·3	19·0	22·0	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	20·1	19·2	22·3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	17.7	16·5	16·0	18·2	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·4	16·8	16·5	18·8	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	12·8	11·0	9·8	12·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·3	10·7	10·3	12·6	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	20·9	19·0	17·9	20·6	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·1	19·6	18·8	21·8	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·5	19·0	18.3	21·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·3	18·9	18·6	21·5	96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Da a included under Nepal. (f) Mean of 25 days (g) Mean of 24 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—SEPTEMBER 1964 (BHADRA 10—ASVINA 8, 1886 SAKA)

Sub-Division and Station	Hour of Observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in oC: Dry Bulb	Mean temperature in oC: Wet Bulb	Mean temperature in oC: Dew Point	Vapour pressure in mbs.	Relative Humidity %	Departure from normal	Cloud amount (oktas): Mean Amount	Cloud amount (oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW		Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Taplejung	0830	..	..	..	..	19·5	18·2	17·6	20·1	89	..	6·7	..	0·3	0	0	3	0	1	1	0	1	0	0	0	27	0
	1130	..	..	..	..	21·9	20·0	19·1	22·2	85	..	6·6	..	2·8	0	0	22	6	0	0	0	2	2	5	7	8	0
	1730	..	..	..	..	19·9	18·3	17·5	20·1	87	..	6·8	..	3·6	0	0	17	2	0	1	3	6	2	1	2	13	0
Kaldhnuga	0830	..	..	..	..	18·7	17·9	17·5	20·0	93	..	5·2	..	0·2	0	0	2	0	0	0	0	2	0	0	0	28	0
	1130	..	..	..	..	21·0	19·2	18·4	21·2	85	..	5·8	..	0·3	0	0	3	0	0	1	0	1	0	0	1	27	0
	1730	..	..	..	..	18·7	18·1	17·6	20·2	93	..	6·0	..	2·1	0	0	12	1	2	0	0	0	1	7	1	18	0
Chainpur	0830	..	..	..	..	21·5	20·5	20·1	23·5	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	21·0	20·3	23·9	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung*	0830	..	..	..	..	23·2	21·6	20·9	24·7	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	20·9	20·0	23·4	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1005·6	989·2	..	26·7	25·0	24·3	30·3	88	..	5·2	..	3·2	0	0	22	6	1	1	1	0	6	2	5	8	0
	1130	,,	1004·4	998·1	..	28·8	25·9	24·7	31·2	79	..	6·0	..	4·2	0	0	24	0	1	2	0	0	18	3	0	6	0
	1730	,,	1002·1	985·8	..	27·7	25·9	25·2	32·1	87	..	6·3	..	2·4	0	0	16	2	1	1	2	3	5	1	1	14	0
Tista Catchment																											
Gangtok	0830	1812	1478·0	817·9	..	18·5	17·4	16·9	19·3	91	..	6·5	..	0·7	0	0	4	3	1	0	0	0	0	0	0	26	0
	1130	,,	1469.5	817·3	..	20·8	19·0	18·2	20·9	85	..	6·6	..	1·1	0	0	11	1	1	0	0	4	5	0	0	19	0
	1730	,,	1450·8	815·4	..	19·3	18·0	17·4	19·9	89	..	7·3	..	0·6	0	0	5	0	1	0	3	1	0	0	0	25	0
Gezing	0830	..	..	..	..	20·4	19·6	19·2	22·3	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·7	19·5	18·9	21·8	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Observations for 36 days

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Table IV and V :

n=represents the number of observations;

V=represents the mean wind speed in metres per second irrespective of direction;

v=represents the resultant mean velocity in metres per second;

D=represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0, 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24.0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I. S. T.)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15	Bhuj Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23	Gangtok	27°03′	88°16′	2115	1st June, 1963	0530		1730	
24	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	28th November, 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
4	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10— Asvina 8, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·7	1·3	134	30	1·7	0·8	180	30	1·5	1·3	153	30	2·0	1·8	295	30	3·3	1·6	310	30	2·1	1·4	265
0.15 a.g.	29	5·1	3·8	154	30	3·9	2·0	170	29	4·1	3·4	170	30	6·1	5·1	294	30	4·4	2·7	295	30	3·7	2·3	271
0·3 a.m.s.l.	29	5·7	4·1	172	30	4·2	2·5	190	29	4·5	3·6	182	30	6·8	5·7	295	30	4·3	2·6	302	30	4·0	2·0	272
0·6 ,,	28	5·6	3·6	175	30	4·9	3·5	193	29	5·3	3·9	191	30	6·5	5.2	300	30	4·5	2·7	304	30	4·0	2·0	278
0·9 ,,	27	4·9	2.4	168	30	4·9	3·6	192	28	5·3	3·7	187	30	5·0	3·4	299	27	4·7	1·9	285	30	4·6	2·4	292
1.5 ,,	27	5·0	2.9	161	29	5·3	3·7	192	24	4·4	3·2	165	30	4·1	0·6	343	21	4·4	1·9	203	30	5·1	2·3	304
2·1 ,,	26	5·1	3·4	154	28	5·2	3·0	180	21	4·7	3·3	157	30	2·9	1·9	085	13	5·3	4·0	067	30	4·6	1·7	332
3·0 ,,	22	5·1	3·2	161	21	4·8	2·0	177	16	4·3	2·3	164	30	5·6	2·4	083	8	5·3	3·5	090	30	4·9	1·5	032
3·6 ,,	18	4·7	2·4	167	17	4·8	1.9	167	4	2·5	1·1	101	30	5·6	1·9	064	8	5·1	4·0	100	30	5·2	1·2	036
4·5 ,,	10	4·3	1·6	132	14	5.3	1·6	136	3	4·2	3·0	264	30	4·7	1·7	078	7	6·4	4·2	110	30	4·8	1·1	200
5·4 ,,	7	3·8	2·3	145	13	5·5	3.0	132	1	4.5	4.5	240	30	4·8	1·0	077	6	5.5	3·9	079	29	5·6	1·0	195
6·0 ,,	6	3·4	1·2	118	13	6·2	3.8	126	1	5.0	5.0	270	30	5·0	1·1	093	3	4·2	2·1	064	29	5·6	0·9	104
7·2 ,,	4	4.1	1·6	134	7	5·0	2·5	131					30	5·6	2·3	101	3	9·8	7·6	044	29	5·1	1·3	112
9·0 ,,	2	5.3	4.0	106	2	10·0	10·0	100					29	5.7	3·0	095	1	5·5	5·5	095	29	5·1	2·6	081

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	1·2	212	30	0·4	0·1	095	30	1·3	0·2	214	30	1·1	0·4	317	30	0·5	0·1	156	30	1·2	0·4	055
0·15 a.g.	29	5·9	3·1	246	30	6·1	0·3	090	28	3·1	0·3	134	30	4·1	1·0	325	30	4·7	0·2	098	27	4·9	1·0	015
0·3 a. m. s. l.	29	6·4	3·2	234	30	5·1	0·3	080	28	3·3	0·2	140	30	4·2	1.0	327	30	5·1	0·2	078	27	2·1	0·5	052
0·6 ,,	29	5·1	2·3	266	30	6·1	0·5	063	28	4·0	0·4	180	30	4·9	1·6	322	29	4·9	0·4	261	27	5·1	1·7	326
0·9 ,,	29	4·4	1·8	291	30	6·1	0·2	203	28	4·6	0·6	218	30	5·5	1·5	313	29	4·9	0·5	270	26	5·7	3·5	321
1·5 ,,	29	4·5	1·6	349	30	6·3	0·3	126	20	5·6	0·8	320	30	6·1	1·4	303	27	5·3	1·6	295	26	7·0	5·2	326
2·1 ,,	26	4·5	2·3	030	29	6·7	0·7	116	12	4·8	1·8	003	30	6·1	1.0	297	23	4·9	0·8	292	23	6·3	5·5	326
3·0 ,,	22	5·5	3·6	049	28	5·7	1·2	160	9	3·6	0·9	360	29	5·1	1·2	240	19	4·8	0·9	256	21	5·3	4·1	330
3·6 ,,	7	4·1	2·1	045	28	5·7	1·4	162	6	2·7	1·5	329	29	5·4	0·5	258	4	2·4	0·8	270	15	5·7	3·0	345
4·5 ,,	3	4.7	0.8	079	28	5.5	2·1	168	4	5·5	1·0	212	29	5·4	0·3	224	1	0.5	0.5	355	8	6·0	3·6	220
5·4 ,,	1	7.0	7.0	045	28	5·4	2·5	158	1	10·0	10·0	150	29	5·5	2·4	227	1	1.0	1.0	090	5	6·4	3·0	263
6·0 ,,					27	5·7	2·4	158					29	5·6	2·7	217	1	4.5	4.5	055	5	7·1	4·2	270
7·2 ,,					27	5·2	1.7	165					29	5·9	2·5	230					1	11·5	11·5	350
9·0 ,,					27	5.8	0·9	149					26	6·5	3.0	211								

TABLE IV--MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	0·2	119	30	1·5	0·9	325	30	1·4	0·1	206	30	2·5	2·3	261	30	4·4	3·8	279	30	3·6	2·9	261
0.15 a.g.	29	3·6	0·5	162	29	4·7	2·8	315	29	2·5	1·6	329	24	6·5	6·1	265	27	7·1	5·6	282	29	7·9	7·0	263
0·3 a.m.s.l.	29	2·3	0·4	156	29	2·8	1·3	314	29	3·0	0·6	313												
0.6 "	29	4·0	0·3	191	29	5·4	3·4	309	29	6·0	2·2	324	24	7·9	7·4	267	27	7·5	6·6	274	29	8·3	7·3	265
0·9 "	27	3·9	1·5	317	29	5·8	3·7	312	28	5·9	3·6	321	24	9·5	8·9	278	27	8·0	7·3	273	29	8·7	7·8	268
1·5 "	21	5·3	3·6	333	29	6·2	4·8	320	26	5·9	5·5	321	22	9·7	8·6	280	26	8·2	7·3	275	28	8·5	7·2	282
2·1 "	18	5·8	4·8	330	27	6·8	6·5	325	26	6·6	6·0	324	18	8·1	7·3	282	19	7·4	5·9	272	26	7·7	6·7	294
3·0 "	15	4·6	2·8	332	25	5·6	5·2	323	23	5·3	4·3	333	12	6·4	4·3	271	13	7·6	4·1	291	11	4·7	2·4	286
3·6 "	13	4·3	0·6	025	23	5·7	3·5	327	6	6·5	1·8	311	10	5·7	2·5	272	8	4·0	1·8	168	6	5·5	2·3	232
4·5 "	10	5·9	2·9	171	11	6·8	0·8	258	2	6·5	1.7	183	6	5·3	2·9	315	6	3·9	1·6	159	2	5·5	4·2	200
5.4 "	8	8·3	2·9	230	7	9·9	5·0	240	2	3.0	2·5	221	2	5·5	5·1	317	5	3·8	2·4	138				
6.0 "	8	9·6	6·2	243	7	10·8	7·4	249	2	4·5	3·9	260					5	3·8	3·1	099				
7·2 "	5	11·9	8·8	279	1	19·5	19·5	215									2	5·0	4·4	121				
9·0 "																	1	6·0	6·0	085				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0.2	114	30	1·1	0·7	150	30	1·1	0·4	156	30	2·5	2·1	283	30	3·1	2·1	315	30	2·3	2·0	384
0·15 a.g.	25	3·9	0·8	254	28	4·2	2·4	140	28	5·7	2·6	151	30	7·5	5·9	278	28	5·7	3·5	316	27	7·4	5·7	308
0·3 a.m.s.l.	25	4·1	0·8	248	28	4·4	2·7	141	28	6·1	3·0	157												
0·6 "	25	5·3	1·3	211	28	4·8	3·2	144	28	7·4	3·8	158												
0·9 "	25	5·2	1·1	186	26	5·4	3·4	149	26	6·8	3·2	157	30	9·4	6·5	303	28	6·2	4·1	313	27	8·4	6·5	322
1·5 "	24	5·1	1·7	139	24	5·1	2·7	142	22	4·5	1·8	144	24	10·1	5·5	328	25	6·8	4·0	313	24	9·6	6·6	346
2·1 "	24	5·1	1·7	141	20	4·5	1·6	148	20	4·3	1·3	146	15	6·6	2·5	319	16	6·0	1·9	292	10	6·5	4·0	343
3 0 "	19	5·2	1·5	146	19	4·6	2·3	134	19	4·9	1·0	130	2	6·3	3·8	302	2	4·7	4·7	293	2	4·5	2·6	296
3·6 "	16	4·4	1·3	154	19	4·9	2·3	130	16	4·8	1·5	155					1	3·0	3·0	015				
4·5 "	15	4·1	2·6	138	15	3·9	1·2	127	10	4·9	3·0	145												
5·4 "	14	4·7	3·1	137	13	4·6	1·6	090	8	5·0	2·9	136												
6·0 "	10	4·7	3·0	120	9	4·2	2·2	078	5	4·0	2·5	180												
7·2 "	7	5·0	3·5	111	4	7·1	6·9	102	3	5·0	1·9	081												
9·0 "	5	7.0	4·9	090	2	8·5	8·1	074																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·6	106	30	1·3	0·7	097	30	0·9	0·4	115	30	3·0	2·5	262	30	3·5	2·7	262	30	3·5	2·7	274
0·15 a.g.	25	4·9	2·7	120	26	4·4	2·5	110	25	3·6	0·6	080	13	7·8	6·5	284	28	6·6	5·1	263	28	7·1	5·8	269
0·3 a.m.s.l.	25	5·0	2·9	119	26	4·4	2·6	110	25	3·7	0·8	095												
0·6 ,,	25	5·8	3·3	122	25	5·2	3·3	109	25	4·6	0·9	138												
0·9 ,,	25	6·4	3·5	125	21	7·2	5·2	114	25	4·6	0·4	170												
1·5 ,,	23	5·0	1·6	119	12	7·7	4·7	119	25	4·7	0·7	203	13	8·6	7·5	294	26	8·7	7·7	273	28	7·9	6·8	276
2·1 ,,	21	4·6	0·7	130	6	4·1	3·4	096	22	4·2	1·3	268	11	6·4	5·0	303	8	11·1	8·7	293	27	8·4	7·3	278
3·0 ,,	19	3·2	0·6	243	3	4·5	1·9	161	22	3·9	0·4	225	9	6·5	5·0	293	4	15·3	14·1	302	15	6·9	4·3	286
3·6 ,,	16	3·4	1·6	284	3	6·2	3·3	184	19	4·3	1·1	257	9	7·5	5·1	278	4	12·7	8·9	282	14	7·5	5·0	282
4·5 ,,	13	4·5	1·8	270	3	6·2	4·1	192	15	5·4	1·6	287	7	7·0	3·6	258	2	6·0	5·5	307	11	6·9	4·1	268
5·4 ,,	11	4·7	2·6	261	3	7·2	3·7	192	15	6·4	2·2	280	6	6·7	1·2	093	2	5·5	3·1	287	10	5·8	1·3	286
6·0 ,,	11	4·7	3·3	251	3	6·5	4·5	200	14	6·5	2·7	272	6	7·8	2·9	086	2	7·5	3·3	252	8	6·4	0·7	086
7·2 ,,	6	6·2	3·7	242	3	9·7	6·9	210	10	6·1	3·2	278	4	10·4	5·8	088	2	11·0	5·5	156	7	7·8	3·3	071
9·0 ,,	5	6·6	3·6	244	2	4·3	4·1	150	6	5·8	2·6	252	3	9·2	8·0	123	1	20·5	20·5	140	4	8·8	7·2	071

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·1	2·5	256	30	0·8	0·3	079	31	0·9	0·7	284	30	2·8	2·1	279	30	3·2	2·1	294	30	2·1	1·2	285
0·15 a.g.	22	8·4	7·3	262	28	4·7	1·8	069	29	3·2	0·9	322	23	7·1	5·5	267	29	5·9	3·3	289	23	5·7	2·5	289
0·3 a.m.s.l.					28	4·0	1·6	070	25	3·5	1·1	322												
0·6 ,,					27	6·1	1·4	112	25	5·2	1·1	323	23	4·9	3·9	259	29	4·9	2·9	294	23	4·3	1·8	290
0·9 ,,					25	6·7	0·6	090	25	5·4	1·3	311	23	8·8	6·6	286	29	6·6	3·2	304	22	6·9	3·7	292
1·5 ,,	21	11·9	10·5	273	23	5·6	1·2	010	25	6·1	2·1	302	22	8·6	5·8	302	26	7·2	4·6	296	19	8·1	4·6	293
2·1 ,,	14	10·7	9·7	287	20	5·6	1·9	015	22	5·3	3·8	310	18	6·4	3·2	320	21	7·6	5·1	295	16	7·8	5·3	308
3·0 ,,	11	8·2	5·8	283	16	4·3	2·3	325	22	4·5	2·1	314	17	4·9	1·7	327	15	8·2	5·2	294	9	4·1	1·7	344
3·6 ,,	8	8·7	6·4	291	15	3·8	0·7	270	21	4·7	2·0	306	10	4·9	2·0	325	7	6·5	3·7	293	5	5·2	0·6	297
4·5 ,,	1	8·0	8·0	310	15	4·7	2·6	245	18	5·4	3·5	279	5	6·0	2·5	023	5	4·8	1·4	015	2	6·0	5·1	242
5·4 ,,					11	5·6	3·8	246	18	6·3	2·4	267	2	3·0	1·6	270	4	6·6	2·0	069	2	4·7	3·7	265
6·0 ,,					10	5·8	3·9	265	18	7·6	5·9	271	2	3·0	0·4	315	3	9·0	4·7	032	2	3·3	1·3	320
7·2 ,,					8	7·1	5·2	263	17	7·9	6·3	275					3	7·8	6·8	055				
9·0 ,,					4	10·3	5·6	295	9	10·2	5·6	267												

TABLE IV MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886, Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	0·9	132	30	1·2	0·6	102	30	2·1	1·5	292	30	2·9	1·6	323	30	1·5	0·6	260	30	2·3	0·8	246
0·15 a. g.	25	5·2	2·6	146	29	3·6	1·8	103	30	7·7	4·7	301	29	5·8	3·3	315	29	5·8	2·2	338	30	5·0	1·2	245
0·3 a. m. s. l.	25	5·8	2·5	151	29	3·9	2·1	108													30	5.8	1.4	245
0·6 "	24	6·0	2·6	162	29	4·7	3·0	128	30	6·5	4.0	294	29	5·3	2·8	318	29	5·0	1·7	335	29	7·0	1·3	255
0·9 "	19	4·4	1·3	185	28	5·0	3·2	142	28	8·4	5·6	323	29	6·7	4·2	328	29	6·7	3·5	347	28	7·3	1·3	273
1·5 "	19	4·1	1·0	169	27	4·9	2·5	165	27	7·2	4·6	339	28	7·2	5·0	343	27	7·3	4·8	343	25	7·8	2·3	275
2·1 "	18	4·2	1·2	142	22	3·4	1·5	207	24	6·7	5·1	355	24	7·6	5·2	346	27	6·7	4·4	347	21	6·8	2·7	293
3·0 "	14	3·5	1·3	158	20	3·7	0·7	222	21	5·8	4·3	033	24	4·5	2·7	008	23	5·7	4·2	015	18	5·9	1·3	293
3·6 "	12	3·5	1·3	147	17	3·1	0·3	293	16	4.2	2.2	065	13	6·1	3·4	025	13	5·8	3·0	029	15	5·8	1·4	327
4·5 "	12	3·5	1·2	192	11	3·2	0·7	192	12	6.9	2.8	077	9	5·6	1·9	019	3	4·0	3.0	090	5	4·7	1·0	115
5·4 "	7	3·5	1·4	217	10	3·9	1·3	225	9	5.9	2·7	108	4	7·7	0·3	190					3	6·3	6·2	097
6·0 "	7	4·2	1·5	255	8	3·7	1·4	280	7	6.7	4.2	095	3	9·2	3·9	066					3	6·7	6·5	097
7·2 "	6	4.3	1.1	265	4	3·3	1·5	306	5	6.7	4.4	115	1	4·5	4·5	015					2	5.5	5.3	083
9.0 "	2	2·0	1·2	080	1	1.0	1·0	180	2	3.3	2.5	090									2	7·3	7·3	100

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·2	1·3	184	30	2·1	0·8	238	30	1·5	1·4	270	30	5·2	4·2	259	30	4·1	3·8	252	30	0·9	0·9	245
0·15 a. g.	29	6·2	3·2	165	24	5·2	2·9	196	30	7·5	6·9	260	30	7·3	6·3	258	29	8·1	7·7	255	30	7·3	6·1	250
0·3 a. m. s. l.	29	5.8	3.1	175	24	4·2	3·6	192	30	8·4	7·8	266	30	7·5	6·5	257	29	8·8	8·3	258	30	5·8	4·4	246
0·6 "	29	6·3	2.4	168	24	6·7	3·9	193	30	9·1	8·3	267	30	6·7	5·8	257	29	8·6	7·6	261	30	7·9	6·7	254
0·9 "	29	6·4	1.6	163	24	6·2	3·1	193	30	7·6	6·6	259	30	5·8	4·9	259	29	7·3	5·3	256	30	6·0	4·9	251
1·5 "	25	6·4	0·8	119	23	5·5	1·4	175	29	5·2	3·2	216	29	4·1	2·4	270	29	5·7	2·1	194	30	2·9	1·2	225
2·1 "	22	6·2	0·9	059	21	5·0	1·0	161	25	4·2	1·7	130	24	3·7	0·3	324	28	4·9	1.4	090	30	3·4	0·9	028
3·0 "	15	6·0	1·3	106	13	5·0	2·9	115	25	4.3	1·9	090	24	3·9	0·9	126	26	4·8	1·6	090	28	4·5	2·7	018
3·6 "	9	5·7	4·0	110	3	4·5	4·3	116	5	6.2	4·2	049	21	4·7	1·1	138	19	4·7	1·8	082	24	5·2	3·4	024
4·5 "	3	4.3	1·8	116					1	4.0	4.0	360	19	5·2	0·9	189	8	5·6	3·8	025	24	6·0	2·4	007
5·4 "	2	4.7	1.1	246									18	5·8	1·4	245	1	6·0	6·0	075	20	6·3	2·7	299
6·0 "													16	6·6	1·5	270	1	4.0	4.0	075	19	7·0	3·0	270
7·2 "													6	7·9	2·7	313					13	8·5	5·0	263
9·0 "													1	9.0	9.0	285					1	7·0	7·0	085

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·6	106	30	1·3	0·7	097	30	0·9	0·4	115	30	3·0	2·5	262	30	3·5	2·7	262	30	3·5	2·7	274
0·15 a.g.	25	4·9	2·7	120	26	4·4	2·5	110	25	3·6	0·6	080	13	7·8	6·5	284	28	6·6	5·1	263	28	7·1	5·8	269
0·3 a.m.s.l. . .	25	5·0	2·9	119	26	4·4	2·6	110	25	3·7	0·8	095												
0·6 „	25	5·8	3·3	122	25	5·2	3·3	109	25	4·6	0·9	138												
0·9 „	25	6·4	3·5	125	21	7·2	5·2	114	25	4·6	0·4	170												
1·5 „	23	5·0	1·6	119	12	7·7	4·7	119	25	4·7	0·7	203	13	8·6	7·5	294	26	8·7	7·7	273	28	7·9	6·8	276
2·1 „	21	4·6	0·7	130	6	4·1	3·4	096	22	4·2	1·3	268	11	6·4	5·0	303	8	11·1	8·7	293	27	8·4	7·3	278
3·0 „	19	3·2	0·6	243	3	4·5	1·9	161	22	3·9	0·4	225	9	6·5	5·0	293	4	15·3	14·1	302	15	6·9	4·3	286
3·6 „	16	3·4	1·6	284	3	6·2	3·3	184	19	4·3	1·1	257	9	7·5	5·1	278	4	12·7	8·9	282	14	7·5	5·0	282
4·5 „	13	4·5	1·8	270	3	6·2	4·1	192	15	5·4	1·6	287	7	7·0	3·6	258	2	6·0	5·5	307	11	6·9	4·1	268
5·4 „	11	4·7	2·6	261	3	7·2	3·7	192	15	6·4	2·2	280	6	6·7	1·2	093	2	5·5	3·1	287	10	5·8	1·3	286
6·0 „	11	4·7	3·3	251	3	6·5	4·5	200	14	6·5	2·7	272	6	7·8	2·9	086	2	7·5	3·3	252	8	6·4	0·7	086
7·2 „	6	6·2	3·7	242	3	9·7	6·9	210	10	6·1	3·2	278	4	10·4	5·8	088	2	11·0	5·5	156	7	7·8	3·3	071
9·0 „	5	6·6	3·6	244	2	4·3	4·1	150	6	5·8	2·6	252	3	9·2	8·0	123	1	20·5	20·5	140	4	8·8	7·2	071

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·1	2·5	256	30	0·8	0·3	079	31	0·9	0·7	284	30	2·8	2·1	279	30	3·2	2·1	294	30	2·1	1·2	285
0·15 a.g.	22	8·4	7·3	262	28	4·7	1·8	069	29	3·2	0·9	322	23	7·1	5·5	267	29	5·9	3·3	289	23	5·7	2·5	289
0·3 a.m.s.l. . .					28	4·0	1·6	070	25	3·5	1·1	322												
0·6 „					27	6·1	1·4	112	25	5·2	1·1	323	23	4·9	3·9	259	29	4·9	2·9	294	23	4·3	1·8	290
0·9 „					25	6·7	0·6	090	25	5·4	1·3	311	23	8·8	6·6	286	29	6·6	3·2	304	22	6·9	3·7	292
1·5 „	21	11·9	10·5	273	23	5·6	1·2	010	25	6·1	2·1	302	22	8·6	5·8	302	26	7·2	4·6	296	19	8·1	4·6	293
2·1 „	14	10·7	9·7	287	20	5·6	1·9	015	22	5·3	3·8	310	18	6·4	3·2	320	21	7·6	5·1	295	16	7·8	5·3	308
3·0 „	11	8·2	5·8	283	16	4·3	2·3	325	22	4·5	2·1	314	17	4·9	1·7	327	15	8·2	5·2	294	9	4·1	1·7	314
3·6 „	8	8·7	6·4	291	15	3·8	0·7	270	21	4·7	2·0	306	10	4·9	2·0	325	7	6·5	3·7	293	5	5·2	0·6	297
4·5 „	1	8·0	8·0	310	15	4·7	2·6	245	18	5·4	3·5	279	5	6·0	2·5	023	5	4·8	1·4	015	2	6·0	5·1	242
5·4 „					11	5·6	3·8	246	18	6·3	2·4	267	2	3·0	1·6	270	4	6·6	2·0	069	2	4·7	3·7	265
6·0 „					10	5·8	3·9	265	18	7·6	5·9	271	2	3·0	0·4	315	3	9·0	4·7	032	2	3·3	1·3	320
7·2 „					8	7·1	5·2	263	17	7·9	6·3	275					3	7·8	6·8	055				
9·0 „					4	10·3	5·6	295	9	10·2	5·6	267												

TABLE IV MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886, Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·6	0·9	132	30	1·2	0·6	102	30	2·1	1·5	292	30	2·9	1·6	323	30	1·5	0·6	260	30	2·3	0·8	246
0·15 a. g. . . .	25	5·2	2·6	146	29	3·6	1·8	103	30	7·7	4·7	301	29	5·8	3·3	315	29	5·8	2·2	338	30	5·0	1·2	245
0·3 a. m. s. l. . .	25	5·8	2·5	151	29	3·9	2·1	108													30	5.8	1.4	245
0·6 ,, . .	24	6·0	2·6	162	29	4·7	3·0	128	30	6·5	4.0	294	29	5·3	2·8	318	29	5·0	1·7	335	29	7·0	1·3	255
0·9 ,, . .	19	4·4	1·3	185	28	5·0	3·2	142	28	8·4	5·6	323	29	6·7	4·2	328	29	6·7	3·5	347	28	7·3	1·3	273
1·5 ,, . .	19	4·1	1·0	169	27	4·9	2·5	165	27	7·2	4·6	339	28	7·2	5·0	343	27	7·3	4·8	343	25	7·8	2·3	275
2·1 ,, . .	18	4·2	1·2	142	22	3·4	1·5	207	24	6·7	5·1	355	24	7·6	5·2	346	27	6·7	4·4	347	21	6·8	2·7	293
3·0 ,, . .	14	3·5	1·3	158	20	3·7	0·7	222	21	5·8	4·3	033	24	4·5	2·7	008	23	5·7	4·2	015	18	5·9	1·3	293
3·6 ,, . .	12	3·5	1·3	147	17	3·1	0·3	293	16	4.2	2.2	065	13	6·1	3·4	025	13	5·8	3·0	029	15	5·8	1·4	327
4·5 ,, . .	12	3·5	1·2	192	11	3·2	0·7	192	12	6.9	2.8	077	9	5·6	1·9	019	3	4·0	3.0	090	5	4·7	1·0	115
5·4 ,, . .	7	3·5	1·4	217	10	3·9	1·3	225	9	5.9	2·7	108	4	7·7	0·3	190					3	6·3	6·2	097
6·0 ,, . .	7	4·2	1·5	255	8	3·7	1·4	280	7	6.7	4.2	095	3	9·2	3·9	066					3	6·7	6·5	097
7·2 ,, . .	6	4.3	1.1	265	4	3·3	1·5	306	5	6.7	4.4	115	1	4·5	4·5	015					2	5.5	5.3	089
9.0 ,, . .	2	2·0	1·2	080	1	1.0	1·0	180	2	3.3	2.5	090									2	7·3	7·3	100

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	3·2	1·3	184	30	2·1	0·8	238	30	1·5	1·4	270	30	5·2	4·2	259	30	4·1	3·8	252	30	0·9	0·9	245
0·15 a. g. . . .	29	6·2	3·2	165	24	5·2	2·9	196	30	7·5	6·9	260	30	7·3	6·3	258	29	8·1	7·7	255	30	7·3	6·1	250
0·3 a. m. s. l. . .	29	5.8	3.1	175	24	4·2	3·6	192	30	8·4	7·8	266	30	7·5	6·5	257	29	8·8	8·3	258	30	5·8	4·4	246
0·6 ,, . .	29	6·3	2.4	168	24	6·7	3·9	193	30	9·1	8·3	267	30	6·7	5·8	257	29	8·6	7·6	261	30	7·9	6·7	254
0·9 ,, . .	29	6·4	1.6	163	24	6·2	3·1	193	30	7·6	6·6	259	30	5·8	4·9	259	29	7·3	5·3	256	30	6·0	4·9	251
1·5 ,, . .	25	6·4	0·8	119	23	5·5	1·4	175	29	5·2	3·2	216	29	4·1	2·4	270	29	5·7	2·1	194	30	2·9	1·2	225
2·1 ,, . .	22	6·2	0·9	059	21	5·0	1·0	161	25	4·2	1·7	130	24	3·7	0·3	324	28	4·9	1.4	090	30	3·4	0·9	028
3·0 ,, . .	15	6·0	1·3	106	13	5·0	2·9	115	25	4.3	1·9	090	24	3·9	0·9	126	26	4·8	1·6	090	28	4·5	2·7	018
3·6 ,, . .	9	5·7	4·0	110	3	4·5	4·3	116	5	6.2	4·2	049	21	4·7	1·1	138	19	4·7	1·8	082	24	5·2	3·4	024
4·5 ,, . .	3	4.3	1·8	116					1	4.0	4.0	360	19	5·2	0·9	189	8	5·6	3·8	025	24	6·0	2·4	007
5.4 ,, . .	2	4.7	1.1	246									18	5·8	1·4	245	1	6·0	6·0	095	20	6·3	2·7	299
6·0 ,, . .													16	6·6	1·5	270	1	4.0	4.0	075	19	7·0	3·0	270
7·2 ,, . .													6	7·9	2·7	313					13	8·5	5·0	263
9·0 ,, . .													1	9.0	9.0	285					1	7·0	7·0	085

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ														
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	30	0·9	0·7	248	30	1·0	0·6	194	30	0·9	0·8	266	30	2·1	1·2	270	30	3·9	3·4	286	30	1·3	0·8
0·15 a.g.	30	3·5	1·4	220	30	6·7	3·5	208	30	3·9	2·2	292	30	4·8	3·3	270	30	5·6	4·7	284	28	4·5	3·0
0·3 a. m. s. l.	30	3·3	1·4	220	30	5·8	3·1	201	30	3·9	2·3	284	30	5·1	3·8	266	30	5·7	4·7	283	28	5·0	3·7
0·6 ,,	30	3·6	1·6	231	30	6·1	3·2	217	30	4·1	2·1	278	28	5·2	4·1	277	30	5·5	4·7	283	27	5·3	3·9
0·9 ,,	30	3·7	1·9	241	30	4·4	2·3	232	29	4·5	2·2	274	21	4·3	2·6	285	30	5·3	4·5	278	27	5·1	3·5
1·5 ,,	30	3·6	2·2	262	29	3·2	1·0	340	29	4·8	1·1	282	13	4·8	1·1	301	30	4·9	3·1	274	27	4·7	1·4
2·1 ,,	27	3·0	1·6	312	28	3·9	1·7	357	29	4·9	0·1	017	7	8·1	3·7	360	30	5·1	1·5	240	19	4·9	0·7
3·0 ,,	23	5·0	3·6	351	27	5·6	2·9	337	29	5·6	0·4	069	3	9·0	5·8	050	30	5·3	0·9	228	11	3·8	1·8
3·6 ,,	18	6·4	3·3	347	3	6·3	6·3	357	29	5·7	1·0	027	2	8·0	4·1	041	30	4·9	0·7	241	7	3·1	1·6
4·5 ,,	15	7·2	4·5	329	1	3·5	3·5	340	29	5·8	0·8	067	1	2·5	2·5	283	30	5·7	0·8	199	4	3·0	2·7
5·4 ,,	12	7·2	3·7	306					29	6·3	0·7	143	1	4·0	4·0	320	30	6·3	0·9	130	4	2·9	2·1
6·0 ,,	12	7·1	3·9	308					29	6·3	0·8	048					30	6·2	1·3	116	4	4·4	1·2
7·2 ,,	5	8·5	5·3	268					29	6·0	2·2	054					30	6·2	3·3	092	1	5·5	5·5
9·0 ,,	1	15·0	15·0	240					29	7·0	5·4	091					24	8·7	7·6	070			

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†						
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730		
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v
Surface	30	0·8	0·3	149	30	1·9	1·2	140	30	1·0	0·8	173	30	1·0	0·8	165	30	1·1	0·5	348	30	2·9	2·4
0·15 a. g.	30	4·5	1·8	167	28	4·3	3·1	146	30	4·3	3·3	179	30	5·6	3·8	170	22	3·7	1·8	327	26	5·1	4·4
0·3 a. m. s. l.	30	5·1	2·1	175	28	4·4	3·1	153	30	4·6	3·6	177	30	6·1	4·3	176	22	5·6	4·0	304	26	7·3	6·5
0·6 ,,	30	5·9	2·3	183	26	5·3	3·2	152	30	5·1	3·7	174	29	6·3	4·4	189	22	8·0	6·6	299	26	9·0	8·4
0·9 ,,	30	5·6	2·4	174	21	5·8	3·4	150	30	5·1	3·6	169	27	6·0	4·0	183	21	9·4	8·2	299	23	9·5	8·9
1·5 ,,	30	5·1	2·3	154	15	5·7	3·9	155	30	4·8	3·3	162	25	5·8	3·1	178	16	11·8	10·4	293	20	11·1	9·9
2·1 ,,	30	5·3	1·9	148	8	5·5	3·0	160	30	4·9	2·5	156	21	4·4	2·4	137	14	13·4	11·0	287	17	11·3	9·8
3·0 ,,	30	5·5	2·5	153	3	3·0	2·0	095	30	5·0	2·2	140	12	4·0	2·8	117	9	13·4	9·2	270	10	12·4	10·1
3·6 ,,	30	5·5	2·9	154					29	5·4	2·6	131	5	4·3	3·1	117	5	12·8	6·3	270	7	11·3	8·9
4·5 ,,	30	4·9	2·9	144					29	5·1	2·5	130	1	1·5	1·5	130	3	8·0	7·8	274	4	7·4	4·1
5·4 ,,	30	5·2	3·2	138					29	5·2	2·6	115									3	6·8	1·6
6·0 ,,	30	6·2	4·4	132					29	5·7	2·8	116									2	3·7	1·6
7·2 ,,	30	5·5	4·2	122					29	6·0	3·9	118									1	7·5	7·5
9·0 ,,	30	6·9	5·5	114					29	6·2	5·4	115											

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	0·8	0·6	262	30	1·9	1·5	314	30	1·6	1·0	340	30	0·9	0·3	278	30	1·0	0·3	053	30	1.5	0·4	174
0·15 a. g. . . .	27	4·4	2·6	307	29	3·2	2·1	320	28	4·5	3·4	347	28	4·1	1·6	332	23	2·3	0·2	077	29	2·2	1·1	190
0·3 a. m. s. l. . .	27	3·6	2·3	295	29	3·1	2·2	321	28	3·9	3·0	342	28	3·5	1·2	317								
0·6 " . . .	27	5·3	3·5	323	29	3·8	2·2	330	28	4·8	4·0	339	28	4.7	2·4	343								
0·9 " . . .	25	5·7	4.0	335	26	4·2	2·6	350	28	4·9	4·1	339	27	4·8	3·1	339	23	2·2	0·4	086	29	2·0	1·0	192
1·5 " . . .	23	5·4	4·3	345	23	4·7	3·6	001	25	5·5	4·6	337	25	6·2	4·1	340	23	3·4	0·3	157	29	8·2	1·1	190
2·1 " . . .	21	4·9	3·9	357	18	5·1	4·0	357	23	4·7	3·7	336	25	5·3	3·6	336	22	4·7	1·5	202	26	5·1	1·9	169
3·0 " . . .	18	3·6	2·3	344	13	3·7	2·3	334	19	4·5	3·6	340	24	4·6	2·3	342	11	5·6	3·8	240	19	5·1	1·8	189
3·6 " . . .	18	3·2	0·9	315	8	3·6	1·1	211	17	4·2	2·0	308	11	2·6	0·2	055	8	4·2	3·3	244	13	4·7	0·8	182
4·5 " . . .	16	3·4	0·6	178	4	4·4	2·8	174	16	3·6	0.9	263					5	4·2	3·7	246	5	4·1	2·4	169
5·4 " . . .	15	3·4	1·0	147	4	7·1	4·0	195	15	4·1	1·7	269					4	3·4	2·4	237	1	10·5	10·5	160
6·0 " . . .	15	4·1	1·3	137	4	7·4	2·0	210	14	4·3	0·9	312					1	3·0	3·0	125	1	10·0	10·0	170
7·2 " . . .	12	4·2	0·9	135	4	5·3	1·7	145	11	4·7	0·6	297									1	7·0	7·0	105
9·0 " . . .	9	5·1	0·7	287	2	4·3	0·3	095	7	5·1	2·7	240												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	2·3	0·8	307	30	1·3	0·4	078	30	0·6	0·3	255	30	1·2	0·4	325	30	0·7	0·3	271	30	0·7	0·3	229
0·15 a.g. . . .	28	3·7	1·2	290	28	2·4	0·3	051	25	4·5	1·8	247	29	4·1	1·7	322	28	4·5	1·4	287	27	4·4	1·5	217
0·3 a.m.s.l. . .																								
0·6 " . . .									25	5·2	2·0	273	29	4·3	1·9	329	28	4·9	1·6	290	27	2·4	0·9	219
0·9 " . . .	28	3·5	1·4	297	28	2·5	0·4	041	24	6·3	2·3	307	29	5·1	2·6	328	28	5·6	2·0	310	27	5·9	1·6	235
1·5 " . . .	28	3·1	1·2	174	28	3·0	0·7	208	23	5·7	2·0	334	29	6·0	2·9	335	24	6·4	2·0	352	25	7·7	0·6	325
2·1 " . . .	27	4·3	1·7	180	27	4·0	1·7	208	20	5·1	1·9	007	26	6·7	2·9	339	24	5·5	1·9	016	18	7·2	1·5	082
3·0 " . . .	21	5·0	1·4	162	12	5·4	3·1	220	17	4·5	1·8	043	22	6·2	2·1	351	19	4·3	1·4	057	14	8·6	0·7	137
3·6 " . . .	17	4·3	1·6	128	5	5·0	2·8	200	15	4·7	1·6	085	18	5·6	1·9	016	9	4·7	0·5	075	12	8·5	6·5	119
4·5 " . . .	7	2·6	1·2	270					15	5·0	3·0	121	12	6·6	0·4	270	3	4·5	1·4	207	9	8·9	6·2	097
5·4 " . . .	3	2·2	1·0	144					14	4·9	2·7	106	7	4·9	0·7	176	1	2·5	2·5	020	6	8·7	7·7	086
6·0 " . . .	1	2·0	2·0	150					13	5·3	4·1	105	4	3·9	1·3	019	1	2·5	2·5	050	6	8·8	8·1	091
7·2 " . . .	1	2·5	2·5	160					10	7·1	5·9	090	3	4·8	4.4	102					5	10·2	9·7	098
9·0 " . . .									6	8·2	7·6	095									4	10·3	10·2	104

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·3	0·4	210	30	0·7	0·2	253	30	0.4	0·3	307	30	1·3	0·6	313	30	0·3	0·1	348	30	1·1	0·5	084
0·15 a.g.	22	4·6	0·8	212	26	4·7	1·7	215	30	5·3	3·5	299	28	4·3	2·0	316	30	5·4	1·8	331	26	3·3	0·3	213
0·3 a. m. s.l.																					26	3·3	0·5	216
0·6 „	22	3·1	0·6	212	26	3·1	1·3	203	30	5.7	3·8	295	28	4·5	2·1	324	30	5·6	2·2	329	26	5·1	1·6	225
0·9 „	22	5·4	0·8	277	26	5·8	1·6	239	30	6·1	4·6	309	28	4·9	2·6	335	30	5·5	2·3	340	25	5·7	1·2	211
1·5 „	20	5·9	0·8	012	24	6·5	0·4	253	30	5·3	3·7	335	28	4·9	3·8	335	30	4·7	3·0	336	21	6·1	1·0	180
2·1 „	15	6·2	2·0	278	21	6·6	0·7	322	29	5·5	4·3	360	26	4·4	3·4	344	29	5·4	4·1	341	17	5·1	1·3	228
3·0 „	10	6·6	3·0	150	12	5·9	0·5	246	25	4·8	3·4	010	21	4·7	3·9	343	21	5·4	4·5	360	13	5·1	1·4	252
3·6 „	9	7·0	3·8	140	4	5·1	4·9	266	25	4·5	2·8	350	19	4·8	3·3	319	11	5·4	3·5	360	12	5·2	1·8	239
4·5 „	8	6·3	3·1	143	3	4·8	4·2	254	24	5·4	1·5	220	13	5·9	3·3	257	2	4·7	2·0	360	8	4·4	2·7	205
5·4 „	5	5·9	3·6	135	1	2·5	2·5	185	22	6·0	2·9	217	11	5·5	1·8	294					3	8·5	4·4	221
6·0 „	4	5·0	2·3	166					20	5·8	1·5	210	11	5·2	1·2	304					5	5·3	3·3	247
7·2 „	4	5·0	4·8	125					6	6·0	0·9	283	4	5 2	1·5	244					2	7·5	3·7	165
9·0 „	2	6·7	6·7	090					2	7·5	5·9	218	1	3·5	3·5	275								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	0·7	100	30	1·5	0·4	062	30	1·5	0·4	159	30	2·1	0·8	155	30	1·3	1·2	236	30	2·3	2·1	246
0·15 a.g.	26	4·2	2·3	122	22	4·5	1·9	097	28	3·2	0·7	166	27	5·4	2·7	178	29	5·8	4·5	267	30	4·7	4·1	249
0·3 a. m. s.l.	26	4·2	2·4	125	22	3·6	1·5	084	28	3·1	0·7	170	27	4·5	2·4	166	29	5·9	4·6	266	30	4·5	4.0	249
0·6 „	26	3·9	2·3	138	22	6·1	1·5	123	28	4·1	0·7	169	27	5·7	2·4	188	29	6·9	5·1	252	30	4·5	3·7	244
0·9 „	26	4·4	2·3	144	21	7·0	1·5	124	28	4·9	0·5	140	27	5·8	1·8	201	28	5·7	3·8	230	30	4·6	3·3	246
1·5 „	24	4·5	2·0	157	17	7·9	1·9	095	27	5·5	1·1	109	26	5·3	1·0	183	28	4·1	1·8	220	29	4·7	2·2	211
2·1 „	11	3·9	2·1	103	15	7·0	2·2	108	25	6·0	1·9	099	22	5·2	0·9	229	28	4·1	0·9	100	29	4·3	0·9	150
3·0 „	7	3·4	2·3	090	12	7·7	4·3	118	21	6·3	1·8	108	16	3·8	1·1	120	28	5·9	3·1	038	25	4·2	2·3	175
3·6 „	1	3·0	3.0	035	9	5·8	3·0	131	18	6·0	1·2	120	1	3·5	3·5	120	24	5·6	2·4	035	25	4·5	1·7	156
4·5 „					5	6·4	5·5	144	13	5·1	2·9	108					24	4·9	0·6	027	23	4·0	1·3	193
5.4 „					3	5·8	2·2	109	11	4·6	2·6	111					23	5·0	1·2	192	21	5.2	2·0	216
6·0 „					3	8·0	3·4	122	10	5·1	3·7	112					20	5·7	2·5	218	20	5·0	1·7	232
7·2 „					3	8·5	7·5	111	3	6·2	4·1	141					18	6·5	1·5	192	19	5·3	1·7	245
9.0 „					2	10·3	10·3	103	1	6·0	6·0	130					18	7·1	2.2	253	14	6·0	2.0	242

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRA DUN								DIBRUGARH/MOHANBARI											
Time in I.S.T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	1·3	285	31	0·5	0·4	025	30	0·5	0·4	253	30	0·9	0·7	064	30	1·0	0·5	049	30	6·0	0·4	053
0·15 a. g.	21	4·3	3·1	300	24	1·6	0·8	070	23	2·6	2·2	282	19	3·3	2·0	066	23	2·5	1·5	053	30	3·0	1·9	050
0·3 a. m. s. l.	21	5·7	4·7	295									18	3·5	2·2	072	23	2·5	1·6	053	30	3·1	1·9	050
0·6 ,,	21	8·7	7·9	297									17	4·1	2·0	079	23	2·5	1·9	046	30	2·8	1·7	067
0·9 ,,	20	9·8	9·1	300	24	1·5	0·7	091	23	2·8	2·5	289	17	3·5	1·1	096	22	2·7	1·9	058	30	3·2	0·9	077
1·5 ,,	17	12·0	11·0	300	24	2·1	0·3	123	22	3·1	2·5	295	14	3·0	0·3	120	18	2·5	1·1	121	28	3·7	1·1	208
2·1 ,,	14	14·6	13·2	292	20	2·3	0·5	086	20	3.3	1·1	267	10	2·3	0·8	142	15	2·7	1·6	185	24	3·4	2·2	194
3·0 ,,	4	13·6	9·3	281	14	3·5	0·6	140	14	3·8	2·1	132	10	2·7	2·0	176	12	3·6	2·2	180	23	4·2	3·0	192
3·6 ,,	2	6·3	6·2	115	12	6·0	2·4	154	13	4·3	3·1	135	5	4·3	3·7	186	3	2·8	1·2	225	17	3·9	2·9	222
4·5 ,,					7	5·6	2·5	181	10	8·1	6·0	120					1	3·0	3·0	250	9	3·5	2·6	238
5·4 ,,					4	5·7	3·9	192	8	9·0	4·5	155									4	3·7	3·3	240
6·0 ,,					3	4·7	1·6	169	7	10·4	6·9	238									3	3·2	2·6	270
7·2 ,,					1	5.5	5.5	205	5	14·0	10·2	259									1	9·0	9·0	295
9·0 ,,									1	6·5	6.5	230												

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·6	0·3	023	30	3·6	3·2	263	30	4·5	3·8	266	30	4·7	4·5	260	30	0·3	0·3	041	30	0·3	0·2	116
0·15 a. g.	26	3·3	1·1	050	28	7·1	6·6	269	28	7·1	6·0	259	27	8·9	8·3	257	9	1·7	1·3	003	10	1·9	1·3	165
0·3 a. m. s. l.	26	3.2	1.3	052																				
0·6 ,,	26	3.2	1·4	080																				
0·9 ,,	26	3·0	1·3	104	28	8·5	7·6	285	28	7·3	6·7	263	27	9·6	9·1	267								
1·5 ,,	25	3·0	0·9	173	25	8·6	7·1	292	26	7·5	6·7	270	26	9·1	8·0	285								
2·1 ,,	21	2·8	1·5	212	21	6·2	3·8	288	17	5·8	4·8	279	23	6·3	4·1	296	9	0·8	0·4	319	10	2·1	1·6	170
3·0 ,,	16	3·6	2·8	226	16	5·1	2·5	266	15	5·8	3·3	270	20	5·6	2·0	279	9	1·8	1·3	163	5	1·6	1·3	170
3·6 ,,	3	1·6	1·6	240	12	4·7	1·7	254	11	7·5	4·1	248	14	5·3	3·1	311	9	2·7	1·4	127	2	4·7	2·9	263
4·5 ,,					11	4·8	1·6	248	8	5·7	2·0	237	4	5·3	3·4	281	9	1·5	0·8	180	1	8·0	8·0	300
5·4 ,,					9	5·6	2·0	302	7	5·3	1·0	193	2	4·5	3·7	331	6	2·3	0·7	204	1	7·0	7·0	330
6·0 ,,					6	4·2	3·0	360	5	5·3	1·5	222	2	4·3	4·3	009	4	3·6	3·4	180				
7·2 ,,					3	5·2	3·9	096	3	4·5	3·1	097					3	2·8	1·0	232				
9·0 ,,									3	7·0	6·1	101					1	7·0	7·0	095				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	0·1	0.0	045	30	2·0	1·1	018	30	0·5	0·1	346	30	0·6	0·3	130	30	0·9	0·6	107	30	1·3	0·3	101
0·15 a. g. . . .	30	2·1	0·9	078	29	3·2	1·8	025	30	2·9	0·2	137	29	2·6	0·5	163	29	4·5	1·2	149	28	4·3	1·5	054
0·3 a. m. s. l. . .	30	2.4	0.8	079	29	3.1	1.3	042	30	3·0	0·3	128	29	2·8	0·1	345	29	4·8	1·2	164	28	4·4	1·7	055
0·6 ,, . .	30	3·5	0·5	085	29	3·5	1·0	065	30	3·6	0.3	305	29	3·8	0·4	317	29	6·0	0·9	175	28	4·0	1·1	055
0·9 ,, . .	30	3·7	0·3	252	28	4·3	0·9	131	30	4·1	1·3	260	28	3·9	0·5	248	28	6·2	1·0	131	27	4·0	0·9	100
1·5 ,, . .	30	4·7	1·2	225	26	5·3	1·9	183	30	4·3	1·9	228	25	4·1	1·5	251	26	4·9	0·4	169	26	4·8	1·7	153
2·1 ,, . .	30	4·5	1·3	224	24	5·2	2·1	187	30	4·6	1·9	217	21	4·0	1·6	231	24	4·4	0·1	162	24	4·8	1·4	149
3·0 ,, . .	30	4·5	2·0	208	16	4·1	2·0	145	29	4·4	1·8	214	19	4·3	2·2	208	18	4·9	1·6	128	20	3·3	1·3	131
3·6 ,, . .	30	5·1	2·4	226	16	4·3	1·8	149	28	4·7	1·7	211	8	3·8	2·3	192	15	4·1	2·0	150	18	3·5	0·9	084
4·5 ,, . .	30	4·5	2·3	232	13	4·8	2·9	142	28	5·0	2·5	217	2	4·7	4·7	233	11	3·7	1·3	145	17	3·6	0·6	044
5·4 ,, . .	29	4·4	2·7	222	9	5·4	3·1	201	28	5·3	3·4	236	1	3·5	3·5	245	10	3·9	1·0	136	13	4·2	0·8	219
6·0 ,, . .	28	5·1	2·8	225	9	5·8	4·0	200	28	4·6	2·6	228					9	4·3	2·5	116	12	4·7	0·9	193
7·2 ,, . .	27	4·8	2·5	221	5	5·4	4.7	220	27	4·6	2·9	220					7	5·8	3·2	157	8	4·3	1·9	118
9·0 ,, . .	26	4.7	0·8	168	1	8·0	8·0	250	25	5·0	1·4	218					2	7·3	2·1	217	1	6·0	6·0	115

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	1.0	0·4	129	30	1·5	0·4	211	30	3·2	2·4	179	30	6·1	1·0	195	30	0·9	0·5	055	30	1·0	0·4	090
0·15. a.g. . . .	28	4·4	1·8	134	28	4·7	1·5	252	27	6.1	3·7	184	27	5·1	3·1	202	26	4·9	3·0	075	28	3·7	1·1	093
0·3 a. m. s. l. . .	28	4·7	1·9	135	28	5·2	2·4	246	27	6·0	3·3	177	27	5·2	2·4	225	26	5·2	3·1	085	28	3·7	1·4	095
0·6 ,,	28	5·8	2·3	126	27	5·8	2·0	253	27	5·7	2·8	173	27	5·4	2·8	202	26	5·4	2·9	106	28	4·7	1·2	110
0·9 ,, . .	26	5·1	2·1	133	26	6·5	2·2	277	25	5·5	1·3	163	24	4·6	1·2	198	24	4·8	1·7	105	28	4·8	1·9	119
1·5 ,, . .	24	4·2	1·5	173	24	5·8	2·4	273	25	5·9	0·7	142	23	4·8	0·8	320	23	4·7	1·3	116	26	4·4	1·2	160
2·1 ,, . .	23	3·5	1·1	169	24	5·7	2·4	274	25	6·4	0·6	137	18	5·1	0·9	326	20	3·9	0·4	077	26	4·6	0·5	148
3·0 ,, . .	22	2·9	0·3	112	19	6·3	2·9	281	21	6·7	0·4	120	14	5·6	0·7	189	17	3·7	1·1	175	23	4·3	0·5	185
3·6 ,, . .	7	3·6	2·0	118	14	6·7	1·3	285	20	5·1	0·6	147	2	3·3	2·9	124	13	3·9	0·2	093	16	4·3	0·1	304
4·5 ,, . .					12	6·0	0·2	224	20	4·4	1·3	120	1	1·5	1·5	080	11	3·8	1·2	293	12	4·8	0·3	287
5·4 ,, . .					9	6·4	1·0	147	18	4·6	2·0	103	1	5·0	5·0	060	10	4·9	1·2	264	9	4·6	1·4	252
6·0 ,, . .					9	5·9	1·7	144	17	5·0	3·0	087	1	5·0	5·0	065	6	4·5	0·7	065	8	5·9	2·8	242
7·2 ,, . .					5	4·2	3·7	089	15	6.2	3.4	083					4	3·4	1·5	100	4	5·0	3·9	297
9.0 ,, . .					4	9·0	8·7	085	12	7·5	7·1	091									1	2·0	2·0	250

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·3	1·5	245	30	1·9	1·7	233	30	1·4	0·8	092	30	2·9	0·5	018	30	1·1	0·2	187	30	4·1	3·6	260
0·15 a. g.	30	4·3	1·6	257	30	7·4	6·2	234	23	3·9	0·8	099	28	4·2	1·4	020	28	4·8	0·3	093	30	7·0	6·2	266
0·3 a. m. s. l.	30	4·3	1·6	257	30	6·4	5·2	232	23	4·1	0·5	105	28	4·5	1·3	024	28	5·0	0·4	110	30	8·2	7·4	270
0·6 ,,	30	4·5	2·2	252	30	7·2	5·6	238	23	4·4	0·2	312	28	4·7	1·5	023	28	5·2	0·2	128	30	9·2	8·1	276
0·9 ,,	30	4·6	2·8	238	30	6·2	4·6	236	23	4·5	0·5	328	27	5·1	0·7	052	28	4·9	0·5	270	30	9·2	8·1	283
1·5 ,,	30	4·5	1·9	247	30	4·6	1·4	228	21	5·4	1·1	329	26	5·1	1·1	289	28	5·2	1·3	259	30	8·6	7·6	290
2·1 ,,	29	3·8	1·0	305	30	4·0	1·4	014	21	4·7	1·2	313	25	4·8	0·9	287	24	4·2	0·4	208	30	7·4	6·4	287
3·0 ,,	28	5·2	2·7	347	27	4·9	3·5	031	20	4·5	1·1	222	22	4·3	2·2	283	16	3·8	1·4	270	30	7·0	5·5	287
3·6 ,,	26	6·1	2·9	341	16	6·3	4·0	028	19	3·9	1·4	228	18	5·0	1·8	282	7	2·1	0·3	042	30	7·8	5·5	276
4·5 ,,	26	6·2	2·2	320	7	4·6	3·7	360	18	4·3	2·9	322	16	5·7	2·2	300	2	4·2	3·7	053	30	7·8	4·6	274
5·4 ,,	25	6·4	1·9	287	1	4·5	4·5	265	16	4·6	1·9	211	11	5·7	2·1	260					30	7·1	2·4	273
6·0 ,,	24	6·9	1·9	295					15	5·0	1·8	208	10	5·9	1·8	280					30	6·0	1·5	2,0
7·2 ,,	21	6·0	1·0	309					10	5·3	2·7	211	7	4·7	1·3	260					30	7·2	2·0	104
9·0 ,,	16	8·1	2.2	271					6	5·7	2·9	245	5	6·8	3·3	270					30	8·7	7·0	104

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·7	3·0	272	30	3.7	1·5	205	30	3·2	2·7	202	30	1·2	0·3	258	30	3·4	2·7	287	30	1·6	0·7	279
0·15 a.g.	30	5·8	4·5	266	30	5·2	2·2	214	28	7·8	6·0	217	23	4·8	1·5	295	29	5·9	4·9	278	25	5·6	3·3	307
0·3 a. m. s. l.	30	6·1	4·8	255	30	5·5	3·0	235	28	8·6	6·6	227	23	5·3	2·3	288	29	6·0	5·0	282	25	6·3	3·9	300
0·6 ,,	30	7·1	5·6	273	30	5·8	4·3	260	28	8·5	6·6	242	23	6·4	4·6	296	29	7·6	6·6	293	25	7.6	5·7	311
0·9 ,,	30	8·1	6·8	283	30	6·3	5·3	270	28	8·3	6·8	258	21	6·6	5·8	301	28	8·3	7·3	297	24	7·6	6·5	311
1·5 ,,	28	7·7	6·8	287	30	7·4	6·6	284	28	7·9	6·7	277	20	7·5	6·5	299	24	8·3	7·3	298	21	7·9	6·7	305
2·1 ,,	27	6·8	5·8	275	30	7·5	6·3	283	27	7·4	6·3	287	13	7·6	6·5	301	17	7·4	5·3	297	20	8·3	6·9	297
3·0 ,,	24	8·6	6·8	267	30	8·4	6·9	278	20	7·5	5·9	275	9	7·7	5·3	303	11	7·5	4·5	304	11	7·6	4·9	289
3·6 ,,	22	10·0	7·5	273	30	8·4	6·7	274	10	6·5	3·1	253	7	6·6	3·8	294	10	8·1	4·6	289	7	6·9	0·7	270
4·5 ,,	19	8·1	5·5	269	30	7·5	5·0	278	5	5·7	3·0	127	4	6·3	2·9	244	6	6·4	2·8	270	2	7·0	6·9	150
5·4 ,,	15	6·6	2·0	262	30	6·8	3·5	292	1	6·5	6·5	110	3	4·2	3·0	247	5	4·9	2.3	293	1	7·0	7·0	145
6·0 ,,	15	5·6	1·7	234	30	5·6	0·9	305	1	8·0	8·0	120	2	3·7	1·5	350	4	6.0	3.5	333	1	6·0	6·0	125
7·2 ,,	9	6·9	0·5	134	30	6·7	0·6	092	1	10·0	10·0	100	1	4·5	4·5	185	4	5.7	2·2	025	1	5.5	5.5	190
9·0 ,,	3	8·0	7·6	104	29	8·0	5·6	088									1	15.5	15.5	110				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4.5	4·1	292	30	4·5	4·2	287	30	6·3	5·9	279	30	4·8	4·5	282	30	1·3	1·0	353	30	3·1	1·1	328
0·15 a. g. . .	27	8·0	7·6	290	28	7·7	7·6	292	30	9·2	8·8	286	28	7·7	7·3	292	30	5·3	3·2	338	30	4·7	2·3	328
0·3 a. m. s. l. . .	27	8·2	7·7	291	28	8·3	7·7	292	30	9·7	9.3	289	28	8.5	8.0	292								
0·6 ,, . .	27	10·2	9·8	293	28	10·7	10·2	292	30	10·5	9·9	291	28	9·8	9·3	292	30	5·6	3·0	345	30	4·5	2·1	346
0·9 ,, . .	27	11·1	10·7	295	28	11·2	10·7	292	30	11·5	10·8	291	27	10·2	9·7	293	30	5·9	3·1	007	27	5·0	2·3	351
1·5 ,, . .	23	11·2	10·7	290	26	10·8	10·3	292	30	11·2	10·4	285	24	9·5	8·9	288	30	5·1	2·5	005	17	6·1	2·9	004
2·1 ,, . .	19	11·0	10·4	286	24	10·6	10·1	288	30	11.0	10·3	280	18	8·9	8·3	283	30	5·2	2·1	009	13	6·1	3·1	355
3·0 ,, . .	17	10·5	9·8	277	14	7·4	6·4	276	30	9·3	8·3	274	9	6·2	4·3	270	30	5·2	1·6	013	7	6·9	2·3	032
3·6 ,, . .	11	9·5	8·8	267	12	7·4	5·8	265	30	9·3	7·5	273	2	8·7	8·7	259	30	5·1	1·7	035	6	5·5	0·7	101
4·5 ,, . .	7	7·6	6·9	247	8	4·9	3·1	248	30	7·3	5·6	278	1	4·0	4·0	270	30	5·7	0·9	055	4	8·0	4·4	089
5·4 ,, . .	4	7 6	6 9	259	7	5·0	3·8	236	30	6·6	4·0	286					30	5·8	1·5	100	3	8·3	8·3	077
6·0 ,, . .	4	5 0	3·4	259	6	5·9	3·3	231	30	6·6	3·0	314					30	5·5	2·3	101	3	7·7	7·7	076
7·2 ,, . .	3	3 3	2·3	213	3	7.2	5·7	267	30	6.3	1.5	029					30	6·0	4·2	167	2	12.3	12·3	088
9·0 ,, . .	1	5.0	5.0	120	2	9·3	8·5	128	25	8 2	6.9	084					28	4.7	3.4	103	2	11.0	10.9	095

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	2·0	0·7	004	30	1·9	0·6	291	30	1·7	0·9	283	30	3·0	1·5	310	30	2·6	1·5	350	30	1.5	0·1	026
0·15 a. g. . .	30	4·8	2·1	334	28	5·4	1·6	332	30	5 9	2·2	313	26	3·9	2 2	313	29	5·2	2·5	332	28	5·3	0 9	311
0·3 a. m. s. l. . .									30	3·7	1·7	302	26	4·0	2·2	312	29	3·1	1·3	348	28	4·0	0.5	270
0·6 ,, . .	30	4·7	2·0	341	28	6·1	2·2	340	30	5·7	2·4	325	26	3·9	2·2	320	29	5·2	3·0	335	28	5.6	1·8	318
0·9 ,, . .	30	4·8	1·7	352	28	6·6	2·4	353	30	5·7	3·1	330	26	4·7	3·0	333	29	5·4	3·3	333	27	5.6	3·2	321
1·5 ,, . .	30	5·4	2·7	353	26	6·3	2·3	360	30	6·2	4·9	333	23	5·7	3·5	340	29	6·3	4·7	329	25	6.3	5·2	327
2·1 ,, . .	30	5·8	2·8	344	22	5·5	1·9	025	30	6·7	5·6	338	19	6·2	4·4	310	29	6·3	5·0	333	25	6·7	6·0	331
3·0 ,, . .	30	5·9	2·1	353	20	5·6	1·9	018	30	6·3	4·6	340	16	5·7	3·7	322	29	6·2	4·9	330	20	6.4	4·6	340
3·6 ,, . .	30	5·9	1·6	016	10	5·5	2·1	097	30	5·7	3·8	317	13	6·2	4·2	300	29	5·9	3·9	328	2	5·3	1·4	062
4·5 ,, . .	30	6·1	0·3	019	4	8·3	1·7	209	30	6·0	2·0	373	10	7·1	4·5	270	29	6·8	3·2	277				
5·4 ,, . .	30	5·6	0·2	171	2	8·0	2·1	237	30	6·8	2·7	242	9	8.9	4.3	270	29	7·1	3·2	272				
6·0 ,, . .	30	4·9	1·3	102	1	6·0	6·0	260	30	7·5	3·5	248	8	8·5	3.4	263	29	7·2	3·7	273				
					1	3·0	3·0	265																
7·2 ,, . .	30	4·8	2·4	091					30	7·7	3·5	262	6	7.8	4·0	240	29	8·1	5·0	270				
9·0 ,, . .	29	5·6	4·5	090					30	8·1	5·0	265	4	11.3	9·1	245	28	8·4	6·0	268				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·1	0·1	270	30	1·9	1·9	275	30	0.7	0.7	274	30	3·3	3·0	237	30	5·1	4·7	241	30	4.1	3·5	254
0·15 a.g.	28	4·1	3·5	270	30	6.3	5·9	276	27	5·1	4·5	273	29	7·5	7·2	242	27	8·3	7·7	240	30	7·4	7·0	248
0·3 a.m.s.l.													29	7·6	7·3	242	27	8·6	7·5	242	30	7·5	7·1	247
0·6 ,,	28	2·1	1·7	252	30	4·0	3·7	282	27	2·5	2·3	270	29	9·3	9·0	247	27	8·1	7·5	250	30	9·2	8·8	249
0·9 ,,	28	5·2	4·1	280	30	6.4	5·9	276	27	6·1	5·1	285	29	9·4	9·0	249	21	7·7	7·3	253	30	9·9	9·4	252
1·5 ,,	22	5·9	4·4	283	24	7·1	5·8	274	19	5·6	3·2	301	28	8·4	7·7	254	9	6·8	6·2	251	30	8·5	7·9	257
2.1 ,,	14	5·3	1·3	164	16	6·3	2·7	273	16	5·3	0·3	191	28	7·3	6·1	252	6	4·1	3·6	241	30	7·5	6·5	258
3·0 ,,	8	3·7	1·2	146	7	5·8	1·8	078	8	4·4	2·0	116	29	7·9	5·5	246	3	5·8	3·8	249	30	8·4	6·5	260
3·6 ,,	6	3·8	3·5	267	5	5·8	1·7	062	6	4·6	0·6	169	29	7·8	5·1	248	3	6·2	3·7	258	29	8·1	5·5	249
4·5 ,,	4	3·3	2·2	306	2	4·7	0·5	220					29	8·0	3·7	245	2	9·0	4·5	275	29	7·6	4·2	246
5·4 ,,	3	2·8	0·9	058	2	10·3	3·3	110					29	7·8	3.1	237	1	8·5	8·5	320	29	7·1	2·3	236
6·0 ,,	2	5·5	5·4	074	2	9·0	4·1	103					29	7.8	1·9	236					29	7·0	1·7	228
7·2 ,,	1	7.0	7·0	065									29	7·2	1·6	158					29	6·1	1·3	084
9·0 ,,	1	6.0	6.0	075									24	8·2	6·4	083					25	7·6	5·4	076

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·8	3·3	244	30	1·5	0·4	245	30	1·9	0·5	277	30	1·7	0·4	186	30	1·7	1·5	086	30	1·5	0·6	120
0·15 a.g.	27	6·9	6·3	250	27	5·9	1·6	265	30	4·6	0·6	313	25	5·8	1·2	180	25	4·7	3·8	092	28	3·9	1·9	134
0·3 a.m.s.l.	27	7·9	7·2	250													25	4·9	4·0	100	28	4.1	2.1	129
0·6 ,,	27	8·9	8·0	253	27	7·0	1·9	285	30	5·4	1·0	316	25	6.6	0.8	160	25	5·2	4·4	113	28	4·4	2·5	127
0·9 ,,	26	9·1	8·0	255	27	6·8	1·5	317	30	5·8	1·2	326	25	6·4	0·2	235	24	5·4	4·1	117	28	5·1	2·9	125
1·5 ,,	21	7·5	6·7	253	22	6·5	1·0	007	29	5·5	1·2	023	24	5.5	0.8	062	20	5·1	3·3	110	26	4·8	2·3	118
2·1 ,,	17	5·5	4·5	262	21	6·6	1·4	030	25	5·6	0·7	029	24	5.1	1.5	081	17	3·8	1·5	110	26	5·2	2·9	113
3·0 ,,	13	4·3	2·3	240	20	7·1	0·3	290	20	5·9	0·2	165	20	4·6	2·1	092	14	4·1	1·7	108	16	3·9	0·9	111
3·6 ,,	6	5·3	2·9	200	18	6·7	0·5	235	19	6·2	0.4	208	16	3·9	1·0	133	7	4·8	0·6	081	10	4·5	0·7	122
4·5 ,,	5	4·8	3·9	142	17	6·2	1·2	090	15	6·3	0.2	132	8	3·0	1·5	103	2	3·3	3·3	265	6	4·3	2·2	259
5·4 ,,	2	7.0	6.4	141	13	6·5	3·1	084	9	5·9	1·1	237	3	2·2	1·6	089	1	3·0	3·0	275	2	6·0	4·3	075
6·0 ,,	2	5.3	4.7	129	10	6·5	3·2	058	9	6·1	1·6	210	1	1·0	1·0	240	1	6·0	6·0	235	1	3.0	3.0	300
7·2					5	6·3	4·5	095	7	5·4	2·3	116					1	11·0	11·0	250				
9·0 ,,					1	3.0	3.0	115	1	3·5	3·5	100					1	9.0	9.0	300				

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	1·4	037	30	1·6	0·8	031	30	1·9	1·3	040	27	0·6	0·4	120	23	0·9	0·1	101	30	4·7	4·6	272
0·15 a.g.	25	4·3	3·4	070	28	3·0	0·8	071	28	3·4	2·2	072	27	1·7	1·1	125	23	2·2	0·7	330	30	9·5	9·3	277
0·3 a.m.s.l.	25	4·4	3·6	075	28	3·1	1·0	077	28	3·6	2·3	082									30	10·4	10·2	274
0·6 ,,	25	4·9	3·8	091	27	3·1	1·3	110	28	3·5	2·1	092									30	12·2	11·8	273
0·9 ,,	21	5·5	4·4	092	26	3·2	1·6	104	27	3·3	2·2	099									30	12·3	11·6	277
1·5 ,,	17	5·2	4·9	093	23	4·2	1·9	121	24	3·6	1·5	105									30	10·9	10·0	274
2·1 ,,	16	4·5	4·0	092	20	4·9	2·2	124	18	4·0	0·9	140	27	1·5	0·6	065	23	2·3	0·5	337	29	9·7	8·5	271
3·0 ,,	12	8·3	2·6	114	15	5·3	2·4	136	9	3·0	1·5	121	27	1·4	0·2	167	23	2·2	0·5	314	26	8·6	6·4	272
3·6 ,,	11	2·7	1·1	124	10	6·5	3·8	118	4	2·8	2·1	157	27	2·2	0·9	170	23	2·7	1·0	247	21	9·6	6·2	261
4·5 ,,	8	2·9	1·0	158	6	5·4	2·0	213					27	4·4	1·3	162	23	4·8	2·7	205	13	8·2	2·7	219
5·4 ,,	7	3·6	2·1	202	4	6·0	4·4	245					27	6·2	2·6	183	23	6·1	3·3	212	10	6·9	2·2	168
6·0 ,,	6	3·1	1·7	224	3	3·8	3·6	256					27	9·2	3·8	240	23	8·3	5·0	230	8	6·1	5·2	123
7·2 ,,	3	6·5	3·3	174									27	13·5	8·7	263	23	12·9	9·6	253	5	10·2	10·1	100
9·0 ,,													23	20·4	16·9	269	22	19·0	15·7	266	2	15·0	14·9	085

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·5	4·3	273	30	5·3	4·5	271	30	1·9	1·7	337	30	3·6	3·1	306	30	3·5	3·1	305	30	1·9	1·7	324
0·15 a.g.	29	7·8	6·2	275	29	8·3	7·2	274	30	7·4	6·9	324	28	7·1	6·2	297	30	8·6	7·7	304	29	6·3	5·9	316
0·3 a.m.s.l.	29	7·8	6·2	273	29	9·0	7·9	271	30	8·0	7·3	318	28	7·4	6·5	299	30	9·0	8·5	302	29	7·4	7·0	314
0·6 ,,	29	8·3	6·9	267	29	10·6	9·7	268	30	9·5	8·9	306	28	9·1	8·2	392	30	10·2	9·5	302	29	9.8	9.3	308
0·9 ,,	29	8·1	7·1	262	29	9·6	8·7	269	30	10·9	10·1	298	22	9·9	9·3	303	30	10·9	10·2	300	29	10·7	9·9	302
1·5 ,,	29	8·3	7·4	261	28	8·1	6.8	266	30	11·6	10·6	290	9	10·8	9·9	298	30	11·8	11·1	298	20	11·3	10·8	296
2·1 ,,	26	10·2	9·1	270	25	8·7	7·5	275	30	12·4	11·0	283	8	13·5	11·9	297	30	12·8	11·8	291	14	12·0	10·5	293
3·0 ,,	23	9·3	7·6	276	19	9·6	7·1	279	29	11·3	9·6	275	3	11·3	7·5	293	30	11·2	9·1	280	6	8·1	4·6	278
3·6 ,,	17	9·1	5·9	270	12	10·0	6·5	282	29	9·7	7·8	274	3	12·5	5·9	302	30	10·7	8·1	277	4	5·9	2·2	166
4·5 ,,	12	6·9	3·3	278	2	16·3	6·3	294	29	7·1	3·6	267					30	8·9	5·9	272	2	7·5	4·3	146
5·4 ,,	8	7·8	0·8	231					29	6·4	1·1	288					30	7·1	3·7	281				
6·0 ,,	7	6·9	1·1	104					29	6·4	0·5	348					30	6·5	1·6	284				
7·2 ,,	5	8·8	5·9	077					29	6·2	2·3	093					30	5·7	1·2	071				
9·0 ,,	1	16·0	16·0	095					29	9·0	7·2	097					30	8·3	7·2	101				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 Km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·7	0·5	225	30	1·2	0·6	292	30	0·1	0·1	255	30	0·7	0·3	351	30	2·6	2·0	282	30	0·8	0·5	278
0·15 a.g. . .	30	2·7	1·8	300	29	4·3	1·5	302	29	3·2	2·0	276	27	4·4	3·0	314	28	6·1	5·3	281	28	5·0	3·7	303
0·3 a. m.s.l. . .													27	6·0	4·7	309	28	7·4	6·3	287	28	6·4	5·2	307
0·6 ,, . .													26	7·3	6·0	305	28	8·6	7·3	293	28	7·7	6·6	306
0·9 ,, . .	30	4·2	2·5	303	29	4·7	2·4	298	29	4·3	2·3	295	21	8·3	6·9	303	22	7·7	7·1	302	22	7·5	6·6	301
1·5 ,, . .	30	4·2	1·0	340	29	4·7	2·2	325	29	4·7	1·5	337	15	7·9	6·3	289	16	6·3	5·4	300	17	5·9	5·0	287
2·1 ,, . .	29	4·4	1·6	050	26	4·5	2·0	017	28	4·3	2·5	050	7	5·4	4·7	283	14	4·9	3·2	288	10	4·6	3·1	270
3·0 ,, . .	26	5·5	2·9	053	23	5·4	2·9	336	27	4·6	3·0	026	4	4·6	4·0	294	9	5·1	2·1	294	7	3·6	1·4	255
3·6 ,, . .	25	5·3	2·6	070	20	4·7	1·5	025	20	5·5	4·0	009					6	7·3	5·0	275	1	10·0	10·0	270
4·5 ,, . .	24	5·1	1·5	097	15	5·4	1·5	359	4	6·0	3·8	341					3	10·2	8·0	255				
5·4 ,, . .	24	4·0	1·4	132	16	5·6	1·4	308									3	7·5	4·9	237				
6·0 ,, . .	23	4·7	1·1	145	12	5·8	0·7	003									3	6·0	1·7	201				
7·2 ,, . .	18	5·7	2·0	140	8	5·0	0·4	033									2	3·0	2·1	352				
9·0 ,, . .	15	5·9	0·4	214													1	8·0	8·0	085				

Station	VERAVAL												VIJAYWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·5	2·7	286	30	6·7	6·1	283	30	5·2	4·8	285	30	2·6	1·5	279	30	3·8	1·4	259	30	2·3	1·1	252
0·15 a.g. . .	29	6·8	5·8	295	29	7·3	6·9	283	29	7·9	7·4	288	24	5·6	2·4	273	27	4·6	1·4	235	25	5·1	2·4	206
0·3 a. m.s.l. . .	29	7·1	6·2	292	29	7·6	7·1	287	29	8·3	7·5	290	24	7·0	3·4	259	27	5·1	1·6	242	25	5·8	2·5	216
0·6 ,, . .	28	6·8	5·7	289	28	6·4	5·7	288	29	8·0	6·8	292	23	8·5	4·0	261	26	6·1	2·8	251	25	6·5	2·3	237
0·9 ,, . .	28	6·1	4·6	282	28	5·1	4·0	288	29	6·5	5·0	296	23	8·7	4·1	278	25	6·6	3·6	273	25	7·1	2·7	262
1·5 ,, . .	26	4·9	0·6	209	26	3·4	1·2	298	29	4·3	1·1	009	21	8·3	4·6	295	23	7·2	4·7	298	22	6·9	2·7	295
2·1 ,, . .	22	4·8	2·7	073	25	3·7	1·1	023	27	4·8	2·8	060	19	8·1	5·1	297	22	7·4	4·8	297	20	7·2	3·6	299
3·0 ,, . .	16	5·7	4·3	075	23	4·5	1·1	049	25	5·1	2·2	064	18	7·0	4·1	284	18	6·7	3·9	285	18	7·0	3·0	301
3·6 ,, . .	3	8·3	7·9	102	22	5·0	0·5	097	19	5·3	2·7	054	15	6·1	3·1	284	15	5·1	2·3	251	10	5·1	0·3	297
4·5 ,, . .	1	1·0	1·0	340	21	5·1	1·0	207	9	5·2	0·7	226	13	5·9	0·9	330	13	3·9	2·1	366	8	5·7	1·8	097
5·4 ,, . .	1	1·0	1·0	160	20	5·6	0·5	224	6	5·4	3·0	027	9	6·8	1·9	099	12	3·8	0·8	065	7	6·1	1·6	107
6·0 ,, . .					19	4·9	0·7	090	6	3·9	2·3	084	7	5·4	0·7	090	11	4·5	1·9	070	4	4·1	0·2	027
7·2 ,, . .					17	5·9	2·6	079					6	5·8	2·3	075	8	5·1	4·5	107				
9·0 ,, . .					9	7·2	6·0	099					1	10·0	10·0	125	6	7·3	7·2	085				

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TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . . .	30	4·7	3·5	302	30	3·6	1·6	197	30	5·0	2·7	308	30	1·2	0·6	287
0·15 a.g. . . .	28	8·5	6·4	297	26	4·4	2·7	203	27	7·1	3·7	298	28	3·3	1·8	257
0·3 a.m.s.l. . . .	28	8·3	6·0	026	26	4·4	2·4	217	27	6·9	3·2	292	28	4·8	2·7	243
0·6 ,, . . .	28	7·8	3·4	289	25	4·4	1·9	242	27	6·1	1·8	281	27	5·7	3·2	243
0·9 ,, . . .	28	7·5	2·5	267	22	4·8	2·1	272	27	5·5	1·0	249	26	5·8	2·9	249
1·5 ,, . . .	28	6·3	1·8	270	18	5·6	2·7	300	27	5·3	0·7	280	23	6·0	2·3	270
2·1 ,, . . .	27	6·7	1·7	281	13	4·9	2·6	279	25	6·3	0·4	315	22	5·7	2·6	279
3·0 ,, . . .	26	6·9	2·0	293	12	6·0	1·6	276	21	5·5	0·3	207	21	6·6	2·9	287
3·6 ,, . . .	21	5·9	0·6	322	9	6·1	1·5	024	19	5·7	1·6	137	12	5·4	0·6	214
4·5 ,, . . .	20	5·8	1·4	075	7	6·2	3·7	068	19	5·1	2·7	118	9	4·0	0·7	113
5·4 ,, . . .	17	5·9	3·5	090	6	5·7	3·1	067	17	4·5	2·6	118	3	5·7	5·0	108
6·0 ,, . . .	15	5·5	4·4	100	4	6·9	5·1	107	15	5·1	2·8	094	3	7·2	6·5	098
7·2 ,, . . .	12	7·2	6·7	103	1	11·5	11·5	110	14	6·6	4·8	092	1	3·0	3·0	110
9·0 ,, . . .	9	8·1	8·0	090	1	16·5	16·5	095	11	8·7	8·6	095	1	9·0	9·0	075

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hr.			
10·5	2	5·5	5·0	065
12·0	1	5·0	5 0	055
	AHMADABAD			
	0530 hr.*			
10·5	27	6·8	4·1	103
12·0	26	8·3	6·0	116
14·1	19	13·5	9·4	114
16·2	12	13·1	9·4	086
18·0	3	15·0	14·7	071
	1130 hr.			
10·5	1	8·0	8·0	090
12·0	1	3·5	3·5	080
	1730 hr.*			
10·5	29	7·1	5·3	092
12·0	27	10·4	9.1	098
14·1	18	15·0	13·8	103
16·2	5	17·8	15·6	095
18·0	3	18·3	17·3	083
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	27	6·1	1·4	156
12·0	21	7·3	2·4	085
14·1	11	10·4	3·1	065
16·2	1	12·0	12·0	075
	1730 hr.*			
10·5	24	6·1	2·9	180
12·0	19	7·0	3·3	131
14·1	10	11·3	7·9	110
16·2	1	13·5	13·5	100
18.0	1	21·0	21·0	100
	ANANTAPUR			
	1730 hr.			
10·5	1	14.5	14·5	100
	ASANSOL			
	0530 hr.			
10·5	3	9·8	9·3	098
12·0	3	13·0	12·7	090
14·1	2	17·3	17·1	082
16·2	1	14·0	14·0	105
	1730 hr.			
10·5	1	6·0	6·0	145
12·0	1	11·0	11·0	140

Ht. in Km.	n	V	v	D
	BAHRAICH			
	0530 hrs.			
10·5	4	7·3	5·1	244
12·0	4	8·0	6·0	251
14·1	1	21·5	21·5	170
	1130 hr.			
10·5	2	7·0	6·4	145
12·0	1	11·0	11·0	120
	1730 hr.			
10·5	4	6·2	3·5	253
12·0	3	4·5	1·6	153
14·1	2	6·0	4·4	165
	BANGALORE			
	0530 hr.@			
10·5	2	10·3	9·9	084
12·0	2	19·5	19·4	084
14·1	2	29·5	29·5	099
16·2	1	9·5	9·5	085
18·0	1	15·0	15·0	100
	1730 hr.@			
10·5	3	16·8	16·5	086
12.0	2	25·0	24·6	097
	BAREILLY			
	0530 hr.			
10·5	3	10.5	10·0	260
12·0	2	12·5	12·0	275
14·1	1	10·0	10·0	325
16·2	1	9·5	9·5	305
	1730 hr.			
10·5	7	11·5	9·5	265
12·0	4	10·7	7·7	280
14·1	1	5·5	5·5	265
	BHAGALPUR			
	0530 hr.			
10·5	1	3·5	3·5	010
12·0	1	5·5	5·5	360
	BHOPAL/ BAIRAGARH			
	0530 hr.			
10·5	1	2·5	2·5	045
	BOMBAY/ SANTA CRUZ			
	0530 hr. *			
10·5	20	10·2	9·9	086
12·0	14	14·4	13·6	089
14·1	6	18·3	17·9	088

Ht. in Km.	n	V	v	D
	1730 hr. *			
10·5	23	13·0	12·1	080
12·0	19	17·2	15·9	078
14·1	10	20·4	20·0	082
16·2	3	25·8	25·8	082
18·0	2	25·3	24·5	087
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10·5	30	8·5	7·3	108
12·0	30	10·8	8·7	101
14·1	26	13·0	12·1	090
16·2	26	13·8	12·8	092
18·0	17	14·7	14·2	089
21.0	6	13·8	13·8	087
24·0	1	26·0	26·0	080
27·0	1	28·0	28·0	095
	1730 hr.*			
10·5	28	7·3	5·8	110
12·0	28	8·5	7·9	095
14·1	27	10·6	8·9	072
16·2	27	13·9	13·1	080
18·0	15	17·6	17·1	085
21·0	3	17·0	16·8	092
	GADAG			
	1730 hr.			
10.5	1	19·0	19·0	100
12·0	1	23·5	23·5	100
14·1	1	35·0	35·0	115
16·2	1	24·5	24·5	105
18·0	1	32·0	32·0	115
	GANGTOK			
	0530 hr.			
10·5	1	12·5	12·5	105
12·0	1	22·0	22·0	110
14·1	1	21·0	21·0	100
16·2	1	16·0	16·0	115
18·0	1	10·0	10·0	090
	GAUHATI			
	0530 hr.*			
10·5	21	5·8	0·9	175
12·0	20	8·3	0·9	191
14·1	17	8·3	0·9	013
16·2	10	16·9	4·5	077
18·0	4	12·0	10·0	104

Ht. in Km.	n	V	v	D
	1130 hr.			
10·5	1	6·0	6·0	245
	1730 hr.*			
10·5	25	6·4	1·1	194
12·0	24	7·3	0·4	328
14·1	18	8·6	2·4	024
16·2	11	9·8	9·0	081
18·0	5	11·0	8·5	112
	GAYA			
	1730 hr.			
10·5	1	10·5	10·5	120
	GOPALPUR			
	0530 hr.			
10·5	1	6·0	6·0	085
12·0	1	21·5	21·5	100
	1730 hr.			
10·5	10	10·3	9·9	091
12·0	9	12·7	11·5	097
14·1	2	24·7	24·5	078
16·2	1	17·5	17·5	100
18·0	1	25·0	25·0	085
	GWALIOR			
	0530 hr.			
10·5	2	8·0	5·0	270
	1730 hr.			
10.5	1	8·5	8·5	250
12·0	1	8·5	8·5	250
14·1	1	12·5	12·5	250
16·2	1	7·5	7·5	250
18·0	1	7·0	7·0	265
	JABALPUR			
	0530 hr.			
10·5	4	8·0	7·0	114
12·0	2	10·7	10·5	117
	JAGDALPUR			
	0530 hr.			
10·5	4	9·3	9·1	103
12·0	4	13·3	13·3	102
14·1	4	21·1	21·0	099
16·2	4	24·1	24·1	096
18·0	4	29·5	29·4	098
21·0	2	9·0	8·5	071

Ht. in Km.	n	V	v	D
	1730 hr.			
10·5	2	11·3	11·3	088
12·0	2	11·3	11·2	095
14·1	1	14·0	14·0	085
16·2	1	26·5	26·5	075
	JAIPUR/SANGANER			
	0530 hr.			
10·5	1	12·5	12·5	225
12·0	1	13·5	13·5	210
	1730 hr.			
10·5	1	2·5	2·5	320
	JHARSUGUDA			
	0530 hr.			
10·5	1	15·0	15·0	100
	JODHPUR			
	0530 hr.*			
10·5	13	5·7	2·0	219
12·0	7	6·7	3·1	181
14·1	1	15·5	15·5	205
	1130 hr.*			
10·5	12	5·8	3·1	231
12·0	7	7·3	2·0	209
14·1	6	10·3	3·9	163
16·2	2	5·3	3·1	050
18·0	1	5·0	5·0	090
21·0	1	10·5	10·5	110
	1730 hr.*			
10·5	11	6·9	3·9	214
12·0	6	8·7	5·5	192
14·1	2	9·2	4·5	130
	LUCKNOW/ AMAUSI			
	0530 hr.			
10·5	3	7·3	5·6	240
12·0	2	6·7	4·2	220
14·1	1	5·0	5·0	160
	1730 hr.			
10·5	2	10·3	9·9	254
12·0	1	10·0	10·0	210
14·1	1	15·5	15·5	180
16·2	1	4·0	4·0	155

TABLE B—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9 km. above mean sea level

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Ht. in Km.	n	V	v	D
	MADRAS/MINAMBAKKAM			
	0530 hr.*			
10.5	29	12·9	12·0	092
12·0	28	20·2	19·9	087
14.1	27	26·5	26·0	088
16·2	22	24·5	23·7	093
18·0	14	13·6	13·0	083
21·0	3	14·2	11·4	055
	1130hrs.			
10·5	2	15·0	14·5	085
12·0	2	18·5	13·5	082
14·1	1	14·5	14·5	070
16·2	1	9·5	9·5	090
18·0	1	32·5	32·5	095
21·0	1	48·5	48·5	100
	1730 hr.*			
10·5	28	13·0	12·0	094
12·0	26	19·9	19·4	092
14·1	26	26·9	25·8	092
16·2	22	25·7	25·2	095
18·0	20	17·9	17·5	090
21·0	6	10·9	10·8	100
24·0	2	17·5	17·1	104
	MANGALO BAJPE			
	1730 hr.*			
10·5	1	20·5	20·5	095
	MINICOY			
	1130 hr.			
10·5	1	10·0	10·0	115
12·0	1	19·5	19·5	085
	1730 hr.*			
10·5	22	13·0	11·9	092
12·0	22	21·1	20·3	088
14·1	21	31·5	30·9	086
16·2	15	24·7	24·3	090
18·0	9	9·4	8·2	088
21·0	3	6·2	3·7	022
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	27	6·5	5·6	100
12·0	26	7·4	7·0	098
14·1	20	13·7	14·1	096
16·2	13	25·2	17·0	100
18·0	6	15·6	14·4	089

Ht. in Km.	n	V	v	D
	0530 hr.*			
21·0		0	4·9	086
24·0	2	22·0	22·0	083
	1130 hr.			
10·5	2	11·7	11·6	097
12·0	1	19·0	19·0	105
	1730 hr.			
10·5	28	8·6	8·5	091
12·0	27	10·2	9·9	098
14·1	21	13·9	13·0	104
16·2	15	20·0	19·3	092
18·0	5	18·8	18·3	094
	NEW DELHI/SAFDARJUNG			
	0530 hr.*			
10·5	30	10·3	7·6	225
12·0	30	11·3	9·1	252
14·1	26	11·7	8·5	252
16·2	20	9·1	2·7	309
18·0	18	8·5	7·2	063
21·0	11	8·8	8·0	075
24·0	6	14·7	14·6	084
27·0	4	11·0	11·0	085
	1730 hr.*			
10·5	28	8·9	6·4	252
12·0	28	9·9	7·4	250
14·1	26	9·9	4·7	234
16·2	24	9·2	2·5	123
18·0	21	8·2	5·7	092
21·0	13	9·1	8·3	088
24·0	8	9·7	9·6	092
27·0	3	12·3	11·7	076
	PORT BLAIR			
	0530 hr.*			
10·5	24	12·3	11·3	078
12·0	24	16·3	15·6	084
14·1	22	26·9	26·7	086
16·2	19	23·9	23·0	091
18·0	11	19·5	18·9	082
21·0	7	14·0	12·0	098
24·0	6	20·0	19·1	094
	1730 hr.*			
10·5	24	11·4	9·9	073
12·0	23	16·3	15·1	075
14·1	21	26·3	25·8	086

Ht. in Km.	n	V	v	D
	1730 hr.*			
16·2	13	26·9	25·6	091
18·0	6	21·0	20·9	094
21·0	4	12·1	11·9	099
24·0	1	15·0	15·0	085
	RAIPUR			
	0530 hr.*			
10·5	1	7·0	7·0	110
12·0	1	7·5	7·5	105
	SRINAGAR			
	0530 hr.*			
10·5	21	24·1	20·0	270
12·0	17	24·8	21·3	267
14·1	6	23·4	21·7	258
16·2	1	79·0	79·0	240
	1730 hr.*			
10·5	21	22·8	19·0	268
12·0	18	27·1	23·4	265
14·1	7	26·1	24·9	242
16·2	2	9·3	8·7	263
18·0	1	1·5	1·5	065
	TIRUCHCHIRAPPALLI			
	0530 hr.			
10·5	1	21·5	21·5	100
	TRIVANDRUM			
	0530 hr.*			
10·5	29	14·5	14·5	092
12·0	29	21·4	20·6	083
14·1	27	32·0	31·5	085
16·2	20	22·9	22·0	087
18·0	13	9·5	8·2	079
21·0	5	5·3	4·5	324
	1730 hr *			
10·5	30	15·3	14·7	097
12·0	29	24·2	23·6	086
14·1	26	33·9	33·3	085
16·2	23	24·0	23·4	085
18·0	12	9·4	7·6	086
21·0	7	7·6	5·5	075
24·0	2	4·5	1·6	081
	UDAIPUR			
	0530 hr.			
10·5	10	4·8	1·3	177
12·0	5	5·7	2·9	175

Ht. in Km.	n	V	v	D
	1530 hr.*			
14·1	1	9·0	9·0	180
	VERAVAL			
	1730 hr.			
10·5	4	9·7	9·7	086
12·0	2	15·0	14·8	114
	VIJAYWADA/GANNAVARAM			
	0530 hr.			
10·5	1	11·5	11·5	095
12·0	1	21·5	21·5	090
	1730 hr.			
10·5	3	17·7	17·6	091
12·0	1	29·5	29·5	085
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	8	10·3	10·1	098
12·0	8	15·7	15·4	096
14·1	7	20·4	19·8	085
16·2	3	24·8	24·6	094
18·0	1	8·0	8·0	065
	1130 hr.*			
10·5	1	18·0	18·0	090
12·0	1	20·0	20·0	090
14·1	1	23·0	23·0	095
16·2	1	38·0	38·0	085
18·0	1	41·0	41·0	085
	1730 hr.*			
10·5	9	10·9	10·4	086
12·0	4	22·1	21·6	179
14·1	3	20·3	20·0	075
16·2	2	24·0	24·2	070
18·0	2	23·7	23·4	087

Ht. in Km.	n	V	v	D

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S, No.	Name of Station	Type of Instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	2	3	4	5	6
1	Ahmadabad	Clock Type	20th July, 1961	00 and 12	Fan type upto 24-2-1963.
2	Allahabad/Bamhrauli . .	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santa Cruz . .	Fan type	7th September, 1954	00 and 12	Clock type upto 22-2-1963.
5	Calcutta/Dum Dum . .	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam . .	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	 12	
10	Nagpur/Sonegaon . .	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung . .	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum . . .	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam . . .	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G. M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (998 mb.)						ALLAHABAD/BAMHRAULI (991 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	55	299·3	302	298	296·5	30	098	298·6	301	295	297·5	30	921	292·7	297	290	291·5
1000	30	36	..	..	..	..	25	016	..	..	..	..	30	073	..	..	..	..
900	30	965	295·6	300	292	295·6	25	946	296·0	299	292	293·9	30	984	292·5	295	290	290·9
850	30	1461	292·7	297	289	289·3	25	1446	293·0	296	288	291·4	30	1477	290·3	294	285	287·3
800	30	1981	289·3	293	285	286·0	25	1960	290·1	294	286	288·2	30	1995	288·6	292	286	284·5
700	30	3109	283·4	286	279	278·2	25	3093	284·0	288	279	281·3	30	3121	283·3	287	281	278·3
600	30	4378	276·9	280	273	269.5	25	4365	277·6	282	274	274·8	30	4392	276·7	281	275	272·0
500	30	5844	270·3	274	267	..	25	5831	269·8	273	264	..	30	5849	268·4	273	265	261·0
400	30	7582	260·3	264	257	..	25	7564	260·4	265	254	..	30	7572	258·0	262	253	..
300	29	9724	246·1	250	242	..	25	9706	246·3	253	239	..	29	9692	242·9	247	238	..
250	29	11016	236·9	241	231	..	25	10994	236·4	244	229	..	27	10966	233·4	240	229	..
200	28	12529	224·9	229	219	..	24	12505	225·2	233	216	..	27	11460	222·5	230	218	..
175	24	13404	217·9	223	212	..	24	13375	218·5	227	209	..	22	13300	215·8	221	211	..
150	22	14371	210·3	217	204	..	22	14349	211·9	221	201	..	20	14277	209·6	215	204	..
125	18	15468	202·3	209	194	..	22	15457	204·3	214	192	..	15	15355	203·2	208	196	..
100	15	16751	195·3	202	186	..	20	16779	199·9	209	189	..	14	16682	199·6	203	197	..
80	11	18040	196·4	202	193	..	18	18085	201.6	209	192	..	11	18025	203·0	207	199	..
70	11	18808	202·0	207	198	..	15	18860	203.5	212	196	..	11	18842	205·5	210	201	..
60	9	19689	206·0	213	194	..	11	19757	206.6	214	200	..	6	19797	209·5	213	205	..
50	6	20763	210·7	215	207	..	8	20956	211.6	216	207	..	5	20916	213·0	217	207	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY/SANTA CRUZ (1004 mb.)						CALCUTTA/DUM DUM (1003 mb.)						GAUHATII (1009 mb.)					
Surface	30	13	297·9	300	296	296·6	30	6	299·4	301	298	298·4	30	49	298·7	303	298	297·8
1000	30	48	..	..	..	..	30	27	..	..	..	..	29	042	..	..	..	..
900	30	969	293·6	297	290	290·6	30	955	295·4	298	292	293·0	29	967	295·6	297	293	292·5
850	30	1461	290·7	294	286	287·3	30	1452	292·8	297	290	290·0	29	1463	293·0	294	291	289·7
800	30	1979	287·2	292	283	284·6	30	1974	289·9	293	287	287·7	29	1985	290·1	294	287	287·8
700	30	3101	283·6	288	277	277·5	30	3105	284·1	288	281	281·6	29	3115	284·3	287	280	280·7
600	30	4372	277·5	281	272	269·3	30	4383	278·0	282	275	275·0	29	4391	277·8	280	274	274·4
500	30	5837	269·9	274	265	..	30	5853	269·5	272	267	..	28	5858	270·1	275	265	..
400	30	7571	259·6	262	255	..	30	7588	260·0	263	257	..	27	7592	260·5	264	257	..
300	28	9699	244·6	249	238	..	30	9731	246·1	250	242	..	25	9741	247·7	251	244	..
250	28	10984	234·3	241	228	..	30	11019	237·0	246	231	..	23	11037	239·0	243	235	..
200	26	12482	222·5	233	217	..	29	12538	224·9	230	219	..	22	12567	226·5	231	221	..
175	26	13348	215·8	226	211	..	27	13396	217·8	224	210	..	20	13375	219·3	223	214	..
150	25	14290	209·2	219	203	..	26	14358	210·8	218	201	..	19	14398	211.7	218	205	..
125	25	15406	202·2	213	197	..	26	15489	203.1	210	194	..	17	15495	204·8	212	199	..
100	18	16740	202.3	209	195	..	26	16736	198.1	206	191	..	16	16769	199·2	206	194	..
80	12	18097	207.5	217	199	..	22	18087	200·5	207	193	..	8	18131	200·1	204	195	..
70	9	18936	211.1	219	202	..	19	18918	204·5	213	194	..	6	18969	205·1	209	203	..
60	7	19888	212.9	222	205	..	18	19832	208·2	217	197	..	..	..	..	..	..	..
50	6	21022	216.7	223	207	..	13	20950	211·3	219	199	..	..	..	..	..	..	..
40	..	..	..	..	..	..	6	22218	215·3	225	200	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (978 mb.)						MADRAS/MINAMBAKKAM (1003 mb.)						NAGPUR/SONEGAON (968 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	298·8	302	296	294·4	30	15	298·7	301	296	296·0	30	311	297·2	299	295	295·7
1000	27	31	..	..	..	..	30	044	..	..	..	..	30	029	..	..	..	..
900	27	951	296·7	300	292	287·2	30	967	295·1	298	293	290·9	30	952	295·7	298	293	292·3
850	27	1444	293·6	298	289	284·8	30	1462	292.1	295	290	288·1	30	1449	292·9	296	290	289·7
800	27	1963	291·1	296	285	281·0	30	1982	288·9	291	286	285·3	30	1971	289·8	293	287	86·5
700	27	3874	283·8	289	279	272·3	30	3106	282·9	288	279	278·4	30	3101	284·2	288	282	280·6
600	26	4352	275·9	280	270	260·4	30	4374	275·8	281	273	271·8	30	4375	277·6	282	275	275·2
500	22	5807	270·3	273	264	..	30	5827	268·8	279	265	..	30	5840	269·6	274	265	..
400	20	7542	260·2	264	256	..	30	7553	258·0	263	253	..	30	7572	260·1	271	255	..
300	18	9681	245·6	253	240	..	28	9667	242·6	247	238	..	29	9701	244·7	249	240	..
250	15	10908	236·5	242	232	..	27	10934	233·3	237	228	..	29	10986	235·4	239	226	..
200	12	12444	224·3	231	220	..	28	12422	220·4	226	217	..	29	12489	224·3	230	219	..
175	10	13344	217·4	225	213	..	28	13253	213·9	219	209	..	29	13348	217·0	222	205	..
150	9	14331	210·8	220	206	..	28	14222	207·0	214	202	..	28	14316	209·9	215	203	..
125	7	15431	204·6	213	201	..	26	15289	200·1	207	193	..	27	15413	204·4	208	198	..
100	5	16663	198·6	200	198	..	24	16614	197·6	203	192	..	26	16734	199·1	205	193	..
80	5	17968	200·8	203	196	..	20	17926	203·5	207	197	..	19	18062	202·8	207	199	..
70	5	18750	203·6	207	294	..	18	18717	207·3	212	201	..	16	18889	206·1	212	200	..
60	5	19685	207·2	213	199	..	15	19670	210·5	215	204	..	15	19806	210·1	217	205	..
50							12	20797	213·9	219	210	..	10	20879	213·1	221	208	..
40							7	22237	216·9	222	213	..	6	22271	218.3	221	215	..
30							6	24020	220.5	222	216	..						
20																		
10																		

	NEW DELHI/SAFDARJUNG (979 mb.)						PORT BLAIR (998 mb.)						SRINAGAR (833 mb.)					
Surface	30	209	298·2	304	294	296·9	30	79	298·2	301	296	296·5	27	1588	286·9	292	281	285·7
1000	30	21	..	..	..	..	30	60	..	..	..	..	27	075	..	..	..	..
900	30	948	296·4	301	289	291·0	29	981	293·6	296	291	291·4	27	979	..	..	..	..
850	30	1445	293·6	297	290	288·2	29	1472	290·7	295	288	288·4	27	1461	..	..	..	..
800	30	1967	290·2	293	287	284·6	29	1988	288·1	293	285	285·2	27	1969	286·5	291	281	283·0
700	30	3094	283·4	287	279	275·3	29	3108	282·7	288	279	278·7	27	3088	280·8	285	275	278·8
600	30	4366	276·6	280	272	267.2	29	4372	275·8	281	273	272·4	27	4344	273·2	278	270	..
500	30	5825	269·8	273	264	..	29	5826	267·8	275	263	..	27	5784	265·1	270	260	..
400	30	7560	260·5	263	257	..	29	7539	257·6	262	251	..	27	7488	256·5	263	251	..
300	30	9697	246·0	251	240	..	27	9649	242·6	250	236	..	25	9596	244·1	251	241	..
250	30	10987	236·7	241	231	..	26	10928	232·6	243	225	..	22	10877	235·9	239	233	..
200	30	12498	225·4	230	220	..	26	12411	220·9	231	212	..	17	12381	226·9	233	222	..
175	29	13364	218·7	223	212	..	22	13228	214·0	223	204	..	16	13279	222·0	229	217	..
150	27	14328	211·2	217	205	..	22	14243	207·7	217	195	..	13	14263	216·9	225	210	..
125	25	15440	202·9	209	197	..	21	15289	202.0	211	192	..	12	15405	209·7	219	205	..
100	23	16749	197·6	204	191	..	18	16606	201·6	213	195	..	12	16763	205·9	214	203	..
80	22	18043	199·4	207	189	..	12	17951	203·2	209	195	..	9	18105	206·0	212	199	..
70	19	18896	204·0	212	193	..	9	18791	204.8	211	195	..	5	18916	206·6	212	201	..
60	18	19751	208.3	222	194	..	7	19677	209.7	215	204	..						
50	16	20871	212.6	221	201	..	6	20747	212·5	220	210	..						
40	11	22239	216.7	229	206	..	5	22172	214.0	222	212	..						
30	8	24125	222·9	236	210	..												
20						..												
10																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hour G. M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf.Pr.(1 002 mb.)						VISHAKHAPATNAM (998 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	064	297·3	299	296	295·9	30	041	299·3	300	297	297·7
1000	30	069	..	..	..	..	30	28	..	..	..	..
900	30	989	292·4	297	290	290·8	30	955	295·4	299	289	292·4
850	30	1481	289·9	294	286	288·0	30	1451	292·8	297	289	289·9
800	30	1998	287·5	291	284	285·3	30	1972	289·9	294	285	286·7
700	30	3121	282·6	287	278	279·7	30	3102	284·3	287	280	281·1
600	30	4388	276·8	279	271	272·7	30	4375	277·6	281	273	274·1
500	30	5842	267·8	271	265	..	30	5843	270·0	273	265	..
400	30	7560	256·9	263	253	..	30	7577	259·3	265	254	..
300	30	9670	242·4	247	238	..	28	9709	245·9	252	237	..
250	30	10940	232·7	237	227	..	27	10998	236·3	244	227	..
200	30	12424	220·3	227	213	..	26	12504	224·6	229	219	..
175	27	13286	214·9	222	209	..	26	13357	218·1	222	211	..
150	27	14235	208·1	215	202	..	26	14343	211·7	218	207	..
125	25	15298	201·5	209	198	..	23	15428	205·4	211	197	..
100	24	16642	200·0	207	195	..	22	16777	201·1	207	194	..
80	22	17974	204·5	211	199	..	13	18155	203·3	208	197	..
70	21	18764	208·6	217	201	..	13	18921	206·0	211	201	..
60	15	19732	210·8	217	206	..	12	19855	208·1	213	204	..
50	12	20880	215·3	222	210	..	11	22389	214·5	217	212	..
40	5	22378	220.2	225	216	..	5	24236	218·8	221	216	..
30												
20												
10												

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (997 mb.)						ALLAHABAD/BAMHRAULI (990 mb.)						BANGALORE (905 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	55	305.8	309	300	299·8	30	098	302.7	307	299	298.1	30	921	297.3	301	293	292·1
1000	30	26	..	..	..	..	27	01	..	..	..	..	30	042	..	..	..	..
900	30	966	298.0	303	294	292.9	27	935	297.6	300	293	293·4	30	969	296.5	299	289	291.1
850	30	1465	294.2	299	291	290.1	27	1435	294.6	297	291	290.0	30	1465	293.1	296	291	288.7
800	30	1988	290.4	295	287	286.8	27	1959	291.4	293	288	286.4	30	1985	289.6	294	286	285.9
700	30	3118	285.0	291	280	278.2	27	3093	285.3	288	282	280.4	30	3112	283.5	287	281	279.6
600	30	4392	277.8	281	273	270.7	27	4370	279.0	282	275	274.2	30	4384	277.3	280	273	273.6
500	29	5865	271.2	275	267	..	27	5842	271.1	274	268	..	30	5848	269.5	275	266	..
400	29	7610	261.8	266	258	..	27	7587	261.7	265	254	..	29	7579	259.0	266	253	..
300	29	9763	247.6	252	243	..	26	9737	248.0	253	244	..	26	9700	243.9	251	238	..
250	28	11059	238.0	244	234	..	26	11040	238.4	243	233	..	23	10980	234.3	241	227	..
200	26	12581	226.5	232	221	..	26	12563	226.6	232	220	..	20	12479	222.3	227	217	..
175	24	13455	219.4	225	212	..	24	13437	220.0	225	213	..	19	13323	216.5	221	211	..
150	23	14422	211.7	218	203	..	23	14414	212.6	219	206	..	18	14306	209.4	215	204	..
125	22	15501	203.8	211	195	..	21	15528	204.1	210	199	..	17	15349	203.4	209	196	..
100	21	16840	197·9	205	189	..	19	16837	199.0	213	193	..	16	16701	199.4	209	194	..
80	19	18136	200·4	211	189	..	18	18150	202.3	220	195	..	7	18059	201.6	203	200	..
70	18	18987	203·0	211	189	..	16	19008	205.7	212	196	..	7	18904	203.9	205	202	..
60	14	19857	208·4	218	190	..	12	19872	209.3	216	201	..	7	19771	207.4	208	205	..
50	10	20972	210.3	219	193	..	10	20948	213.5	220	206	..	6	20847	210·3	211	208	..
40	7	22405	215·0	221	207	..	5	22473	220.8	224	219	..						..
30							5	24334	223·6	228	218							
20																		
10																		

	BOMBAY/SANTA CRUZ (1003 mb.)						CALCUTTA/DUM DUM (1001 mb.)						GAUHATI (997 mb.)					
Surface	30	013	300.8	302	297	296.5	30	06	302.6	307	299	298.4	30	049	301.7	305	299	298.2
1000	30	040	..	..	..	..	29	11	..	..	..	..	29	018	..	..	..	..
900	30	965	294.7	299	292	290.4	29	944	296.4	299	293	293.2	29	953	296.9	302	294	293.3
850	30	1460	291·7	295	289	287·9	29	1443	293.7	296	291	290.2	29	1452	294.3	299	292	290.0
800	30	1979	289.1	292	287	284.9	29	1967	290.9	293	288	287.0	29	1976	291.3	296	289	286.7
700	30	3104	284.1	287	281	277.7	29	3100	284.9	287	280	280.5	29	3111	285.3	288	282	274.0
600	30	4377	278.5	283	276	270.1	29	4380	278.7	281	276	273.0	29	4390	278.6	281	275	..
500	30	5848	270.5	275	267	..	29	5852	270.7	274	268	..	29	5862	270.9	276	267	..
400	30	7588	260.4	263	257	..	29	7593	260·8	263	258	..	29	7603	261.2	265	258	..
300	27	9726	245.2	247	240	..	28	9736	240.5	250	243	..	27	9751	247.1	251	242	..
250	25	11014	235.4	239	230	..	28	11029	237.1	241	234	..	26	11045	237.6	241	232	..
200	25	12514	223.2	227	217	..	28	12543	225.7	230	221	..	26	12562	225·4	230	220	..
175	22	13377	216.4	220	210	..	27	13416	218.8	224	213	..	22	13417	218.8	223	213	..
150	22	14338	209.5	215	203	..	27	14388	211.5	218	202	..	21	14402	211.9	216	207	..
125	20	15449	203.0	208	195	..	27	15510	204·0	213	195	..	17	15492	205.8	213	197	..
100	20	16756	201·5	209	192	..	27	16817	198·0	212	190	..	15	16826	198.6	211	190	..
80	15	18095	205.3	210	198	..	17	18114	198·5	204	191	..						..
70	13	18897	208.8	216	203	..	15	18921	203·0	210	197						..	
60	9	19884	211.3	213	203	..	9	19861	209·8	215	203						..	
50	8	21009	215.7	225	209	..	8	21014	214·0	219	209						..	
40																	..	
30																	..	
20																	..	
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (978 mb.)						MADRAS/MINAMBAKKAM (1001 mb.)						MINICOY (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	306·3	311	309	294.5	30	15	303.2	305	298	296.7	30	002	299.2	300	296	296.4
1000	25	016	..	..	..	..	30	028	..	..	..	..	30	076	..	..	..	..
900	25	952	299.3	303	295	288.8	30	959	296.2	299	293	291.4	30	998	292.5	295	291	289.2
850	25	1450	295.0	300	290	284.6	30	1455	292.8	296	289	289.2	30	1489	290.1	293	289	285.8
800	25	1965	290.8	295	286	281.7	30	1975	289.4	294	287	286.8	30	2005	287.6	291	285	282.1
700	25	3097	283.9	289	279	272.7	30	3101	283.6	288	281	279.7	30	3123	281.6	284	279	276.4
600	25	4362	276.5	280	270	..	30	4369	276.4	280	273	272.6	30	4383	274.7	278	273	269.9
500	24	5823	271·0	275	267	..	30	5829	268.9	272	265	..	30	5831	266.9	271	264	..
400	22	7566	261.0	266	257	..	30	7556	258.4	262	254	..	30	7541	256.4	261	251	..
300	11	9715	248.0	253	244	..	29	9674	243.0	248	240	..	25	9035	241.2	246	236	..
250	11	11011	237.6	244	235	..	28	10943	232.9	237	228	..	24	11100	231.0	235	227	..
200	9	12521	226.3	231	222	..	26	12434	220·6	228	209	..	22	12230	218·3	222	215	..
175	9	13389	220.2	225	215	..	26	13272	213.9	221	208	..	22	13327	212.7	216	209	..
150	8	14381	213.5	217	208	..	26	14237	206.5	216	199	..	22	14435	206.5	211	201	..
125	7	15497	206.4	209	203	..	25	15315	200.8	208	193	..	19	15227	201.5	207	195	..
100	5	16764	197.8	199	196	..	22	16636	198.7	207	190	..	16	16542	200.1	205	192	..
80	..	..	..	..	..	..	18	17943	201.3	207	197	..	8	17907	203.5	207	200	..
70	..	..	..	..	..	..	15	19657	206·8	215	199	..	..	..	..	..	..	..
60	..	..	..	..	..	..	11	20728	209·5	214	203	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NAGPUR/SONEGAON (967 mb.)						NEW DELHI/SAFDARJUNG (978 mb.)						PORT BLAIR (997 mb.)					
Surface	30	311	302·5	305	299	295·9	30	209	303.3	307	299	297.9	30	079	298·6	301	296	296.5
1000	30	010	..	..	..	..	29	009	..	..	..	..	30	051	..	..	..	..
900	30	947	297.3	301	294	296.7	29	976	298.0	302	293	291·5	30	971	294·0	297	290	291·4
850	30	1447	293·9	297	291	291.0	29	1444	294.4	298	291	288.0	30	1451	291·2	293	287	288·5
800	30	1971	290.5	293	287	288·2	29	1967	291.2	295	289	284.4	30	1976	288.8	291	285	285·3
700	30	3103	284·3	288	281	280.9	29	3097	284·4	287	282	276.4	30	3104	283.1	287	280	280·9
600	30	4381	278.0	281	275	274·1	29	4370	278.2	282	274	267.3	30	4369	276.1	283	273	272·1
500	30	5851	270.4	273	267	..	29	5841	271.1	276	267	..	30	5826	268.5	274	264	..
400	30	7589	260.0	265	256	..	29	7585	261.3	264	259	..	30	7578	257.5	262	252	..
300	30	9723	245.8	249	243	..	29	9732	247.2	250	242	..	28	9607	244.2	255	237	..
250	30	11011	236.3	240	232	..	29	11029	238.0	242	232	..	27	10954	234.7	247	225	..
200	30	12516	223.9	227	220	..	29	12550	226.8	233	221	..	23	12441	221.4	238	214	..
175	29	13369	217.7	221	214	..	27	13418	219.6	224	214	..	22	13257	215.4	233	206	..
150	29	14348	210.6	215	205	..	26	14393	212.6	218	204	..	21	14308	208.7	226	199	..
125	28	15438	204.5	208	198	..	25	15505	205.1	211	199	..	17	15353	196.1	219	193	..
100	28	16775	198.3	203	193	..	25	16827	199·4	207	193	..	13	16690	199.4	212	190	..
80	23	18111	200·2	205	192	..	22	18135	199.7	212	194	..	6	17929	201·7	206	197	..
70	18	18899	202·5	210	195	..	21	18927	203·8	208	194	..	6	18777	204·7	208	199	..
60	12	19831	206.8	214	200	..	17	19870	207·0	213	194	..	5	19689	206·4	209	204	..
50	10	20895	210.7	217	206	..	15	20950	213·3	221	206	..	5	20778	207·2	212	196	..
40	7	22243	214.6	219	212	..	11	22379	217·5	223	210	..	..	..	..	..	..	..
30	..	..	..	..	..	..	8	24153	220.5	225	213	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G M. T.

September, 1964 (Bhadra 10—Asvina 8, 1886 Saka)

Standard Pressure Surface mbs.	SRINAGAR Surf. Pr. (836 mb.)						TRIVANDRUM (1000 mb.)						VISHAKHAPATNAM (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	23	1588	297·7	303	296	287·7	30	064	299.9	301	297	296.4	30	041	302.1	304	299	299.0
1000	23	−002	..	..	..	..	30	060	..	..	..	..	30	013	..	..	..	..
900	23	972	..	..	..	..	30	985	293.2	296	289	290.9	30	950	295.9	299	293	293·5
850	23	1440	..	..	..	..	30	1478	290.2	293	287	288.5	30	1448	293.4	295	291	290.7
800	23	1969	293·2	300	283	282·5	30	1996	287.8	291	283	285.6	30	1963	290.7	293	287	287.8
700	23	3105	285·0	291	275	274·3	30	3120	283.2	287	279	279.7	30	3096	284.6	288	281	282.3
600	23	4374	275·8	282	269		30	4389	276.4	281	273	273.7	30	4375	278.0	282	273	276.0
500	22	5822	266·4	271	257		30	5847	268.4	272	264	..	30	5841	270·0	274	265	..
400	22	7538	257·2	263	252		30	7572	257.9	261	252	..	30	7577	260.0	264	254	..
300	21	9660	244·4	250	236		30	9688	242.9	249	239	..	29	9711	245.5	251	236	..
250	22	10947	236·4	241	231		30	10962	233.1	241	229	..	27	10995	236.1	241	226	..
200	20	12450	225·1	232	221		29	12455	221.4	229	218	..	25	12507	225.0	230	218	..
175	17	13317	220·6	225	214		26	13292	214.3	221	209	..	25	13362	218.4	223	212	..
150	16	14282	214·4	221	208		26	14261	207.2	214	200	..	25	14347	211.1	217	203	..
125	15	15414	208·4	214	201		26	15328	200.8	206	195	..	24	15454	205·3	209	200	..
100	13	16752	204·8	210	198		22	16653	199.5	208	192	..	23	16796	199.7	209	194	..
80	13	18091	205·1	211	198		19	17980	204.5	209	195	..	17	18129	202.1	208	193	..
70	13	18908	209·7	215	203		19	18782	207.2	212	201	..	14	18943	205.9	212	200	..
60	7	19812	214·3	223	211		15	19747	209.3	215	204	..	11	19858	208.4	212	204	..
50	6	20932	217.7	223	214		14	20886	211·0	217	206	..	10	20963	211.5	217	205	..
40							8	22250	212·9	218	208	..	7	22295	215.1	218	212	..
30																		
20																		
10																		

NOTE :—Number of observation refer to those of dynamic height.

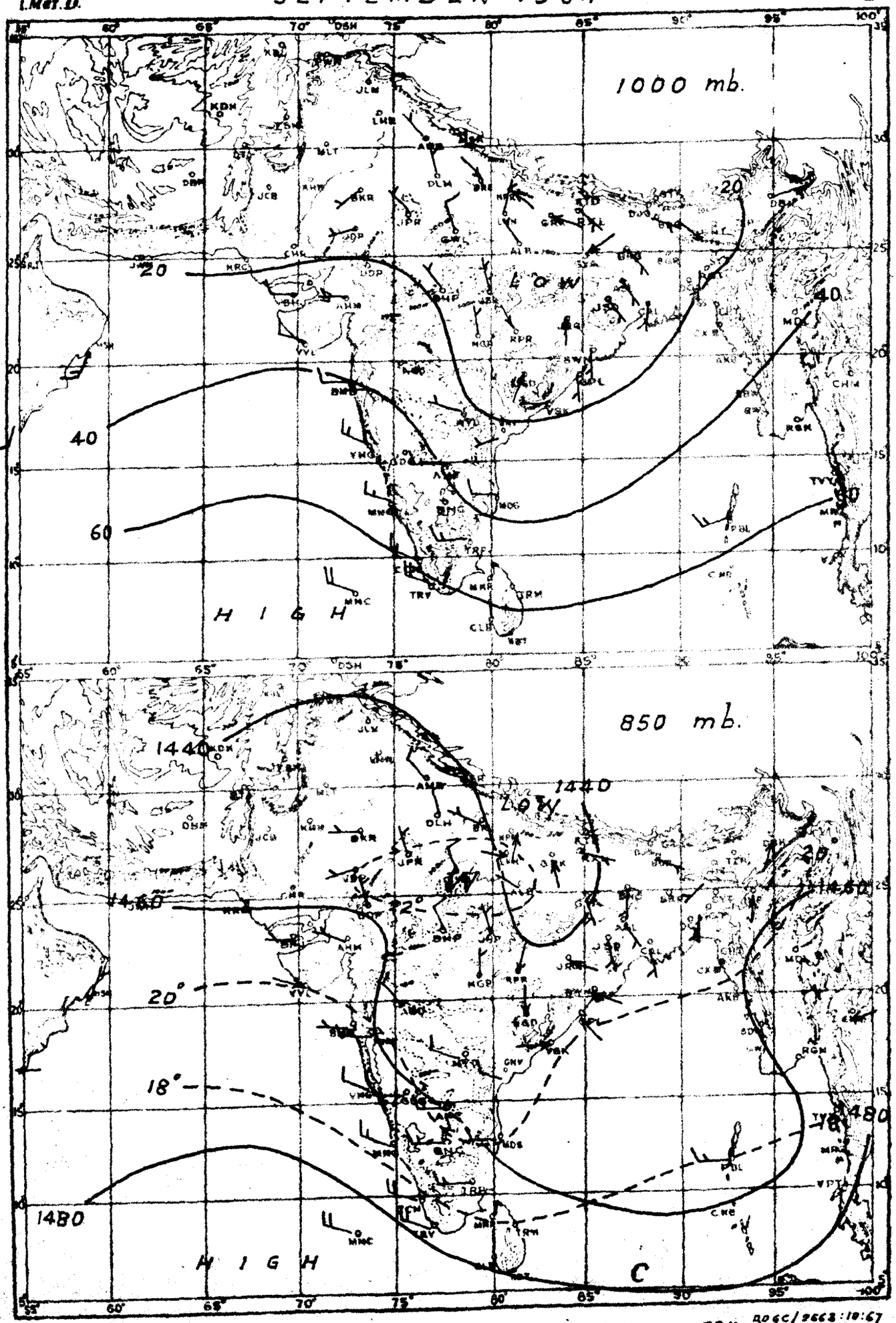
Means are not worked out for temperature and dew point for the 1000 mbs. surface and for dew point for standard pressure surface with temperature less than 273° A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S4—415 D D G Obs. P./67—7-9-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. SEPTEMBER 1964 Plate I

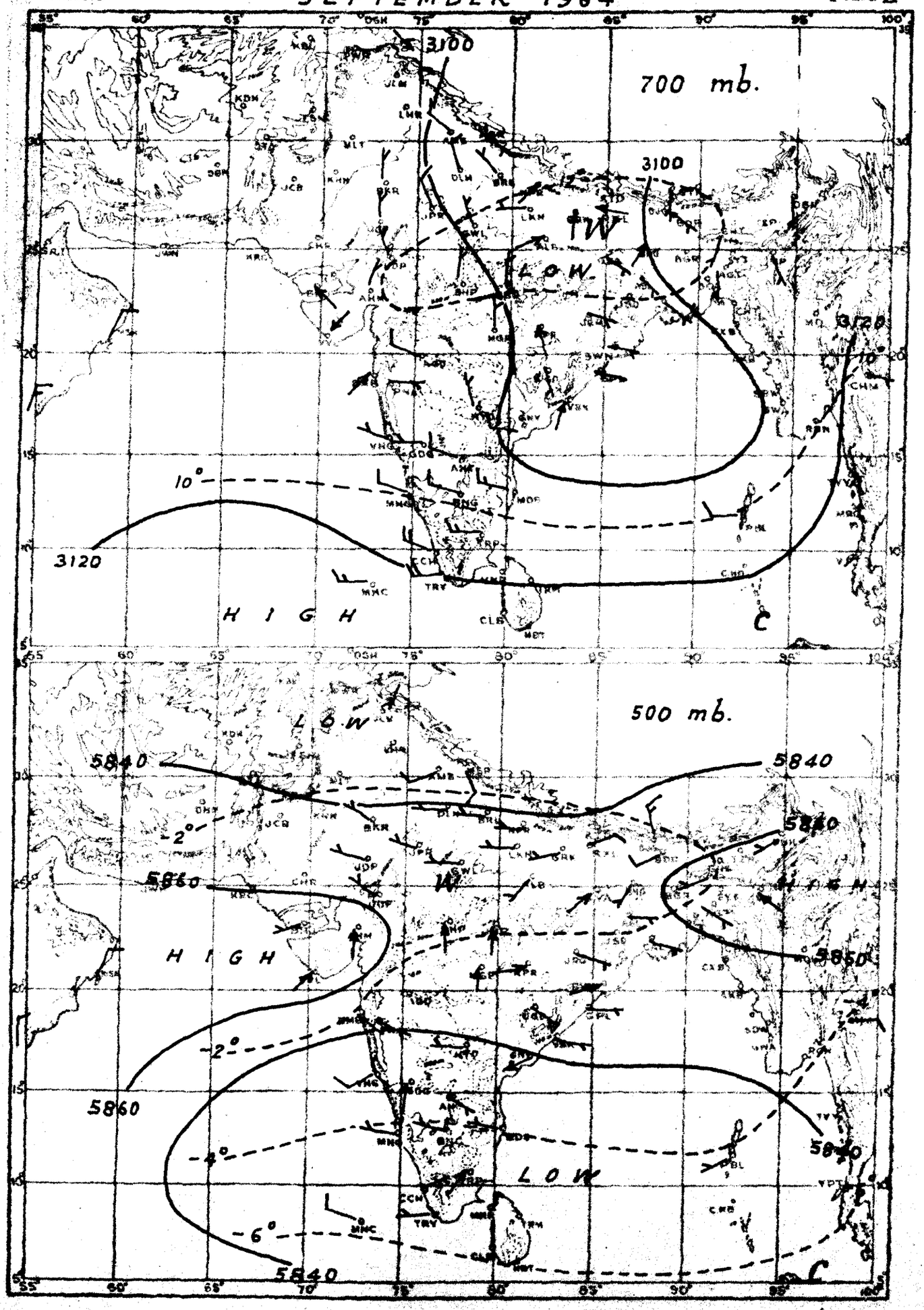


RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

---------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D. — SEPTEMBER 1964 — Plate II



RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

Isotherms in degrees centigrade — Contours in geopotential metres

Errata to Monthly Weather Report for quarter ending October to December 1964.

Page	Item/Station	Hour	Column	For	Read
OCTOBER 1964					
547	Table I Heading	-	-	Kartika 29	Kartika 9
Table II					
548	Silchar	-	18	1.3	1.2
549	Jamshedpur P.B.O.	-	5	18	13
549	Jamshedpur	-	12	-6.8	+6.8
549	Sambalpur	-	20(a)	3	0
549	Sambalpur	-	20(b)	0	3
549	Angul	-	20(a)	6	0
549	Angul	-	20(b)	2	6
549	Cuttack	-	20(a)	9	0
549	Cuttack	-	20(b)	0	9
549	Chandbali	-	20(a)	9	0
549	Chandbali	-	20(b)	2	9
549	Jamshedpur	-	20(a)	0	1
549	Gaya	-	18	5.0	5.5
549	Faizabad	-	20(b)	0	5
549	Heading	-	20(a)	Precipitation (0.1 and 0. mm.	Precipitation (0.1 and 0.2 mm)
550	Heading	-	21	now or sleet	Snow or Sleet
550	Fatehpur	-	23	2	0
550	Allahabad (Bamhrauli)	-	19	-0.9	-0.6
550	Varanasi (Babatpur)	-	19	-0.6	-0.7
551	Qazigund	-	25	Blank	0
551	Nowgong	-	15	1	0
551	Sagar	-	10	Blank	0
552	Raipur	-	3	+0.5	-0.5
552	Bhuj (Rudramata)	-	17	10.5	10.7
552	Keshod	-	10 and 11	0 and 0	10.0 and 10.0
553	Poona	-	20(a)	Not clear	1
553	Pusad	-	5	8	18
553	Hakimpet (Aerodrome)	-	8	17.7	16.7
554	Salem	-	4	33.1	35.1
554	Tiruchchirappalli	-	7	Blank	+0.2
554	Madurai	-	5	4,17	4,7
554	Bidar	-	1	Bidar	Bidar (R)
554	Bidar	-	21,22 and 25 to 29	0	Dash
554	Foot note	-	-	-	(R) = Register not received.
554	Belgaum/Samra	-	16	+3.5	—
554	Gadag	-	15	11	7
554	Gadag	-	16	—	-0.3
554	Bellary	-	15 and 16	7; -0.3	5; -0.9
554	Chitradurg	-	15 and 16	5; -0.9	3; -3.4
554	Shimoga	-	15 and 16	3; -3.4	4; -5.2
554	Agumbe	-	11	111.0	510.0
554	Agumbe	-	13	41.6	116.0
554	Agumbe	-	20(a) and 20(b)	6 and 14	0 and 20
554	Agumbe	-	15, 16	4; -5.2	14; —
554	Balehonnur	-	15, 16	6; —	9; -2.4
554	Hassan	-	15,16,17	9;-2.4;—	10; +0.9; 7.8

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Page	Item/Station	Hour	Column	For	Read
Table II (Contd.)					
554	Bangalore	-	15,16,17	10; +0.9; 7.8	6; -2.5; 8.4
554	Bangalore Aerodrome	-	16,17	-2.5; 8.4	-- ; --
554	Mysore	-	15	6	12
554	Calicut	-	15	12	8
554	Palghat	-	15	9	10
555	Dharmpur	-	21 to 29	Zeros	Dashes
555	Kalimpong	-	21 to 29	Dashes	Zeros
555	Kodaikanal	-	11	219.5	319.5
556	Bagra Tawa	-	23	1	0
556	Nuwakot	-	2	29.5	29.3
556	Barahakshetra	-	9	Blank	30
Table III					
				( )	(e)
557	Digboi	1730	15	2.9	2.9
557	Jorhat (Aerodrome)	1730	9	22.9	23.9
557	Tezpur	1730	17	Blank	0
558	Goalpara	0830	15	Not clear	1.3
558	Goalpara	0830	16	Blank	0
558	Gauhati (Bhorjor)	0830	28	1	0
558	Silchar (Kumbhirgram)	1730	28	1	0
558	Kailashahar	1130	7	29.8	29.9
558	Baghdogra	0230	28	2	0
558	Baghdogra	2330	9	22.7	22.2
558	Baghdogra	2330	10	28.7	26.7
559	Heading	-	-	Asvin 9, 186	Asvin 9,
559	Calcutta (Dum Dum)	2330	12	-5	-
559	Calcutta	0830	6	+2.9	-2.9
559	Calcutta	0830	12	-	-5
559	Sandheads	2330	4	1005.7	1006.8
559	Sandheads	2330	9	4.5	24.5
560	Puri	0830	12	-0	0
560	Gopalpur	0830	5	1007.3	1007.4
560	Dhanbad	1730	5	Not clear	976.9
560	Ranchi (Aerodrome)	1730	15	12.	12.3
561	Motihari	0830	3	68	66
561	Motihari	0830	9	23.11	23.1
561	Gaya	-	1	G ya	Gaya
562	Lucknow	1730	19	Blank	0
562	Allahabad (Bamhrauli)	1730	20	6	4
562	Allahabad (Bamhrauli)	2030	10	13.5	23.5
562	Varanasi (Babatpur)	-	1	Varanasi(Babalpur)	Varanasi (Babatpu
562	Varanasi	1730	19	Blank	3
563	Tehri	1130	8	16.6	18.6
563	Mainpuri	1730	25	Blank	2
563	-	-	22 to 24 and 28	0,0,1,0	Dashes
563	Pathankot	0530	24	1	0
563	Pathankot	1130	23	0	9
563	Pathankot	1730	22	Blank	0
563	Amritsar (Rajasansi)	0830	22	Blank	1
564	Ambala (Aerodrome)	0530	28	0	1
564	Hissar	1130	21	Blank	2

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Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
564	New Delhi (Safdarjung)	0530	11	77	71
564	Mandi	0830	12	-1.9	-9
564	Mandi	0830	14	-19	-1.9
565	Srinagar	2030	20	2	0
566	Udaipur	1130	15	3.2	3.4
566	Gwalior	1730	8	2.8	21.8
567	Sheopur	1730	15	0.1	6.6
567	Shivpuri	0830	15	3.1	3.2
567	Seoni	0830	14	+0.3	+1.3
567	Satna	0830	28	Blank	0
568	Sidhi	1730	18	2	28
568	Sidhi	1730	19	2	12
568	Jabalpur	0530	18	20	0
568	Ambikapur	0830	6	-1	-1.1
568	Raigarh	0830	27	Not clear	1
568	Raipur	1130	28	1	0
568	Raipur	1430	28	0	1
569	Heading	-	2	Observation I.S.	Observation I.S.T.
569	Jamnagar (Aerodrome)	1730	9	18.6	15.5
569	Dwarka	0830	18	2	27
569	Dwarka	1730	19	Blank	8
569	Rajkot	1130	5	Not clear	995.0
569	Bhaunagar (Aerodrome)	1130	23	Blank	0
570	Heading	-	22	E	SE
570	Harnai	0830	4	1010.4	1010.0
570	Harnai	1730	4	1007.0	1007.4
570	Vengurla	0530	12	+8	-
570	Vengurla	0830	12	-	+8
570	Panjim	1130	27	2	3
571	Malegaon	0830	7	23.	23.8
571	Malegaon	1730	7	31	31.5
571	Deolali (Aerodrome)	0830	7	22.	22.6
572	Amraoti	0830	3	,,	370
572	Akola Aerodrome	0530	2	053	0530
572	Kalingapatam	1730	15	.6	8.6
572	Vishakapatanam	0230	1	-	Station may be read against 0230 hrs.
572	Rentachintala	0830	1	Rewtichintala	Rentachintala
572	Gannavaram	0230	1	Gannavarany	Gannavaram
572	Ongole	1730	2	730	1730
573	Heading	-	21 and 22	SE, E	E; SE
573	Heading	-	28	Not clear	Variable
573	Anantapur	0530	5	96.5	968.5
574	Salem	1730	4	1005.	1005.1
574	Coimbatore (Pilamedu)	1730	13	Not clear	6.2
574	Coimbatore (Pilamedu)	2330	17	Blank	8
574	Tiruchchirappalli	0230	15	10.	10.6
575	Belgaum	0830	14	+1.2	+0.2
575	Belgaum (Samra)	0530	1	Belgaum (Samba)	Belgaum (Samra)
575	Belgaum (Samra)	2030	7	22.9	22.5
575	Gadag	1130	18	28	26
575	Bangalore	1130	10	21.2	21.1
575	Bangalore	1130	27	Not clear	5
576	Bangalore	1730	3	21	921
576	Calicut	0530	14	-0.2	-
576	Calicut	0830	14	-	-0.2

Page	Item/Stations	Hour	Column	For	Read
Table III (Contd.)					
576	Dalhousie	0830	28	9	0
577	Aijal	0830	3	,,	--
577	Mercara	1730	16	Blank	0
577	Konar	0830	3	,,	-
577	Ramgarh	0830	3	,,	-
578	Heading	-	4	in besic level	isobaric level
578	Panchet Hills	0830	3	242	-
578	Durgapur	0830	3	,,	--
578	Khijrawan	0830	7	24.6	24.4
578	Khijrawan	0830	8	22.4	22.6

Tables IV to VI - Upper Air Data.

Page	Station	Hour	Item	Level	Wrong entry	Correct entry
582	Ambala	0530	n	3.6	11	10
583	Asansol	1730	D	9.0	201	209
585	Bhagalpur	1730	D	4.5	277	327
585	Bhuj	2330	D	Surface	289	279
586	Bikaner	1730	*(asterisk mark)	[illegible]	*1730	1730
586	Bombay	0530	v	Surface	0.3	0.1
587	Dibrugarh	1730	v	Surface	2.6	0.3
587	Gadag	1730	D	3.0	00	040
587	Gangtok	0530	Time in IST	-	0530	0830
588	Gauhati	2330	v	0.3 m.s.l.	6.6	0.6
592	Minicoy	1730	v	5.4	1.5	1.6
593	Raipur	2330	D	4.5	290	090
594	Srinagar	0530	Rawin Mark	-	530	0530*
597	Allahabad	0530	v	18.0	4.5	5.5
597	Bahraich	1130	v	12.0	22.7	21.7
597	Calcutta	0530	n	21.0	1	2
598	Mangalore	0530	D	12.0	190	090
598	Poona	0530	D	10.5	13	135
599	Vishakhapatnam	0530	v	18.0	14.7	13.9
599	Vishakhapatnam	0530	V	21.0	24.1	24.5
599	Vishakhapatnam	0530	v	21.0	26.8	24.1
602	Jodhpur	0530	Std.Pres	250	0	250
604	Bangalore	1730	Ht.gpm	900 mb	84	984
604	Gauhati	1730	Mean Temp	400 mb	240	249
605	Nagpur	1730	-do-	250 mb	239	229
606	Vishakhapatnam	1730	Surface	-	1009	1001

Page	Item/Station	Hour	Column	For	Read
NOVEMBER 1964					
Table I - Division					
609	8. Rajasthan	-	7	37	31
Table I - Sub-division					
609	25. Rayalaseema	-	5	+0.7	-0.7
Table II					
610	Port Blair	-	12	-127.1	+127.1
610	Port Blair	-	16	-5.4	+5.4
610	Chaparmukh	-	20(a)	Blank	0
610	Imphal(Tulihal)	-	7	-1.2	+1.2
610	Baghdogra	-	28	6	0
610	Cooch Behar	-	9	8	28
611	Angul	-	20(b)	Blank	1
611	Chaibasa	-	16	-0.1	-1.0
611	Bahraich	-	17	4.4	4.5
612	Nautanwa	-	17	1.0	0.3
612	Lucknow (Amausi)	-	17	6.0	2.3
612	Gorakhpur	-	17	Blank	0.7
612	Gorakhpur	-	20(a)	Blank	0
612	Kanpur	-	17	8.5	2.3
612	Kanpur	-	20(a)	Blank	0
612	Kanpur (Aerodrome)	-	17	Blank	6.9
612	Sultanpur	-	17	2.4	0.4
612	Azamgarh	-	17	Blank	5.1
612	Fatehpur	-	17	5.1	0.5
612	Ballia	-	17	2.6	0.3
612	Banda	-	17	1.6	0.8
612	Allahabad (Bamhrauli)	-	17	0.6	0.3
612	Varanasi	-	17	4.2	1.0
612	Pathankot	-	17	Blank	2.8
612	Amritsar (Rajasansi)	-	11	0	0.3
612	Amritsar (Rajasansi)	-	17	5.1	4.1
612	Ludhiana	-	10	0	6.2
612	Ludhiana	-	17	2.2	0.7
612	Adampur (Aerodrome)	-	17	Blank	6.3
612	Ferozepur	-	17	2.0	0
612	Halwara (Aerodrome)	-	10	0	2.7
612	Halwara (Aerodrome)	-	17	Blank	4.1
612	Chandigarh	-	17	Blank	1.1
612	Ambala (Aerodrome)	-	17	Blank	5.6
612	Bhatinda	-	17	0.7	0.2
612	New Delhi (Safdarjung)	-	9	21	5
612	Palam (Aerodrome)	-	17	Blank	5.2
612	Mandi	-	13	4	2.4
613	Heading	-	14	Dat	Date
613	Srinagar (Aerodrome)	-	10	6.0	5.6
613	Srinagar (Aerodrome)	-	17	Blank	3.1
613	Qazigund	-	20(b)	1	0
613	Banihal	-	17	Blank	0.6

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Page	Item/Station	Hour	Column	For	Read
Table II (Contd.)					
613	Jammu (Aerodrome)	-	17	Blank	2.3
613	Ganganagar	-	5	Blank	1
613	Ganganagar	-	17	2.9	1.3
613	Churu	-	17	6.1	3.2
613	Bikaner	-	17	3.3	1.5
613	Nagaur	-	17	4.7	3.6
613	Erinpura (Jawai Dam)	-	22	Blank	0
613	Munabao	-	1	Munabao	Munabao †
613	Tonk	-	17	4.1	2.4
613	Kota (Aerodrome)	-	17	6.2	3.0
614	Surat	-	1	Sarat	Surat
614	Naliya	-	24	0	1
614	Dahanu	-	9	7,28	2,7,28
615	Deolali (Aerodrome)	-	24	0	1
615	Ahmadnagar	-	24	0	2
615	Poona (Aerodrome)	-	24	0	1
615	Poona	-	24	0	1
615	Sholapur	-	3	+0.7	-0.7
615	Miraj	-	24	0	5
615	Kolhapur	-	24	0	2
615	Parbhani	-	19	+0.1	-0.1
615	Sironcha	-	19	-1.0	+1.0
615	Sironcha	-	29	Blank	0
616	Madurai (Aerodrome)	-	13	58.1	58.6
616	Palayankottai	-	10	11.3	11.4
616	Kanniyakumari	-	17	85.3	15.3
616	Bidar	-	1	Bidar	Bidar (R)
616	Gulbarga	-	1	Gulbarga (R)	Gulbarga
616	Gadag	-	14	12	2
616	Agumbe	-	11;13;15; 20(a) and 20(b)	5.8;1.4;0;3 and 7	58.0; 14.0; 7; 0 and 10
616	Balehonnur	-	16	-0.3	+0.3
617	Bangalore (Aerodrome)	-	24	0	3
617	Punalur	-	8	19.	19.0
617	Joshimath	-	18	.1	5.1
617	Nainital	-	18	6.4	6.8
617	Darjeeling	-	6	6.9	6.7
617	Kohima	-	17	1.7	--
617	Mahabaleshwar	-	10	14.4	14.0
618	Heading	-	-	Table III	Table II
618	Punasa	-	20(a) to 29	0	delete zeros
618	Jomosom	-	2	15.0	15.9
618	Jomosom	-	8	2.3	-2.3
Table III					
619	Heading	-	-	November 9,	November
619	Long Island	1730	11	83	88
619	Majbat	1730	9	16.5	19.1
619	Jorhat (Aerodrome)	0530	9	18.3	16.5
619	Tangla	0830	9	17.8	17.4
619	Tezpur	0830	4	1015.7	1015.3

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Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
619	Rangia	1730	9	20.2	20.5 (c)
619	Chaparmukh	1730	15	2.7	2.7
620	Heading	-	3	Station elevation level in metres	Station elevation in metres
620	Gauhati (Bhorjor)	0230	4	1002.1	1012.1
620	Gauhati (Bhorjor)	0530	4	1002.9	1012.9
620	Gauhati (Bhorjor)	1130	8	22.8	22.3
620	Gauhati (Bhorjor)	2030	10	28.8	22.8
620	Dhubri	1730	5	1067.4	1007.4
620	Tura	1730	13	4.6	6.1
620	Haflong	0830	13	6.1	4.6
620	Silchar (Kumbhirgram)	0530	1	Sichar (Kumbhirgram)	Silchar/Kumbhirgram
620	Silchar (Kumbhirgram)	1730	18	30	20
620	Agartala	1430	25 and 26	1;3	3; 11
621	Cooch Behar	1130	2	130	1130
621	Asansol	0830	4	1015.5	1015.1
621	Purulia	0830	1	Purlia	Purulia
621	Barrackpore (Aerodrome)	1730	10	22.9	22.7
621	Calcutta (Dum Dum)	1130	10	Not clear	18.5
621	Calcutta (Dum Dum)	2030	9	Not clear	19.1
621	Sagar Island	0830	17	2	6
623	Forbesganj	1730	5	1004.4	1004.1
623	Purnea	0830	9	16.3	16.4
623	Patna Aerodrome	0830	13	0.1	1.1
623	Gaya	0530	18	Not clear	20
623	Hardoi	0830	14	+0.2	-0.2
624	Lucknow (Amausi)	0230	15	2.2	0.2
624	Lucknow (Amausi)	1130	21	0	3
624	Lucknow (Amausi)	1430	4	1012.6	1012.0
624	Lucknow (Amausi)	1430	5	957.6	997.6
624	Lucknow (Amausi)	1730	21	3	0
624	Gorakhpur	0830	12	Not clear	-13
624	Kanpur (Aerodrome)	0830	28	0	1
624	Kanpur (Aerodrome)	1130	22	0	2
624	Kanpur (Aerodrome)	2330	4	1014.2	1014.3
624	Sultanpur	1730	22	9	0
624	Fatehpur	0830	28	1	0
624	Allahabad (Bamhrauli)	0830	14	--	0
624	Allahabad (Bamhrauli)	1130	14	+0.9	-
624	Varanasi (Babatpur)	0830	4	1016.6	1016.5
624	Varanasi (Babatpur)	0830	12	+05	+5
624	Varanasi	0830	12	-05	-5
625	Heading	-	3	Station elevation level	Delete the word level
625	Sub-division	-	-	Uttar Pradesh,East	Uttar Pradesh,West
625	Tehri	1730	17	1	0
625	Dehra Dun	1730	9	1.5	11.5
625	Mansiari	0830	3	,,	-
625	Agra	0830	9	7.8	7.7
625	Agra (Aerodrome)	0830	28	1	0
625	Agra (Aerodrome)	1130	28	0	1
625	Pathankot	0830	12	+1	+2
625	Pathankot	0830	14	-	-1.0
626	Heading	-	27	Blank	Calm
626	Karnal	0830	13	Blank	0
626	Karnal	1730	13	Blank	0
626	New Delhi (Safdarjung)	0230	20	Not clear	1

Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
626	New Delhi (Safdarjung)	1730	9	8.0	8.6
626	New Delhi (Safdarjung)	2330	5	998.3	989.3
626	Palam (Aerodrome)	0830	25	0	6
627	Leh	0530	7	7.0	-7.0
627	Leh	0830	7	0.5	-0.5
627	Srinagar (Aerodrome)	2330	28	0	1
628	Jaipur (Sanganer)	0230	20	2	8
628	Jaipur (Sanganer)	0530	9	5.3	3.5
628	Jaipur (Sanganer)	0530	17	1	0
628	Jaipur (Sanganer)	1130	17	0	1
628	Jaipur (Sanganer)	1430	10	7.8	7.9
628	Jaipur (Sanganer)	1730	4	101.9	1011.9
628	Jaipur (Sanganer)	2330	23	1	0
628	Kota (Aerodrome)	0530	21	Blank	1
628	Kota (Aerodrome)	0830	11	58	38
628	Udaipur	0230	11	65	69
628	Jhalwar	0830	6	-0.1	-0.4
629	Heading	-	26	Blank	NW
629	Sheopur	0830	1	Sheolapur	Sheopur
629	Shivpuri	0830	23	7	4
629	Guna	1130	15	6.0	6.6
629	Nimach	1730	7	25.7	26.7
629	Rajgarh	0830	24	4	1
629	Rajgarh	1730	24	2	0
629	Sagar	0830	5	960.2	953.2
629	Sagar	0830	8	12.4	13.4
629	Bhopal (Bairagarh)	0230	24	3	0
629	Bhopal (Bairagarh)	1430	17	Blank	0
629	Bhopal (Bairagarh)	1730	5	953.5	953.3
629	Ujjain	1730	10	12.1	10.1
629	Narsinghpur	0830	1	Narsinghpur	Narsinghpur
629	Narsinghpur	0830	10	10.1	11.9
629	Narsinghpur	0830	11	60	66
629	Rajpur (Jhabua)	0830	1	Rajpur (Jhahua)	Raipur (Jhabua)
629	Seoni	0830	19	9	6
629	Satna	0530	1	Satra	Satna
629	Satna	1730	13	1.2	1.4
630	Ambikapur	0830	1	Anbikapur	Ambikapur
630	Ambikapur	1730	17	2	0
630	Ambikapur	1730	21	Blank	1
630	Pendra	2330	7	15.1	15.6
630	Mandla	1730	7	23.2	23.1
630	Kanker	0830	4	1014.2	1014.9
630	Ahmadabad	0830	12	-7	-6
631	Gujarat Region	-	1	Gujarat	Gujarat Region
631	New Kandla	0830	15	10.0	10.1
631	Okha	0530	21	Not clear	0
631	Rajkot	0530	8	Not clear	11.9
631	Keshod	1130	8	16.2	16.7
632	Heading	-	4	Isobaric leve	Isobaric level
632	Veraval	1130	20	19	9
632	Veraval	2030	25	2	3
632	Bombay (Santacruz)	1130	25	11	1

Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
632	Bombay	0830	21	Not clear	16
632	Bhira	0830	10	28.8	18.8
632	Dabolim (Naval Air Stn.)	-	1	Dabolim	Dabolim (Naval Air Station)
632	Jalgaon	0830	10	12.3	11.9
633	Deolali (Aerodrome)	0830	3	Not clear	571
633	Ahmadnagar	-	1	Ahmadabad	Ahmadnagar
633	Ahmadnagar	1730	2	Blank	1730
633	Poona	-	1	Poon	Poona
633	Poona	0830	8	16.1	16.8
633	Poona	2030	8	1.1	17.1
633	Jeur	0830	6	-0.4	-0.8
633	Sholapur	1130	8	18.3	18.8
633	Sholapur	1130	21	1	8
633	Kolhapur	2330	18	16	17
633	Aurangabad (Chikalthan)	1430	20	2	12
633	Aurangabad (Chikalthan)	2330	20	12	2
633	Parbhani	1730	20	Not clear	15
634	Nagpur (Sonegaon)	1130	1	Blank	Nagpur (Sonegaon (Contd.)
634	Chanda	0830	1	Chandas	Chanda
634	Pusad	0830	1	Pasad	Pusad
634	Nidadavole	0830	25	1	0
634	Rentachintala	1730	25	0	1
635	Nellore	2330	8	32.8	22.8
635	Hakimpet (Aerodrome)	1730	27	Not clear	1
635	Madras (Minambakkam)	1130	5	10 8.9	1008.9
635	Vellore	0830	11	47	87
636	Tambaram (Aerodrome)	1730	15	Not clear	20.1
636	Cuddalore	2330	2	0230	2330
636	Tiruchchirappalli	1130	13	5.3	5.2
636	Pamban	0830	13	5.2	5.1
636	Pamban	1730	13	5.1	5.0
636	Kanniyakumari	1730	8	23.0	23.9
637	Honavar	1730	10	22.8	25.8
637	Mangalore (Bajpe)	0830	4	Not clear	1011.9
637	Mangalore (Bajpe)	1430	8	22.6	23.6
637	Bijapur	0830	1	Pijapur	Bijapur
637	Bijapur	1730	4	1099.2	1009.2
638	Heading	-	2	Hour of observation I.S.	Hour of observation I.S.T.
638	Kerala	-	1	-	Read Kerala as a name of the sub-division.
638	Calicut	0530	1	Kerala	Read Calicut against 0530
638	Palghat	0830	5	1009.0	1000.9
638	Palghat	1730	5	1000.9	996.9
638	Ramgarh	-	1	-	delete the name
638	Alleppey	0830	1	Allppey	Alleppey
638	Trivandrum (Aerodrome)	0830	1	Trivandrum*	Trivandrum (Aerodrome
638	Arabian Sea Islands	-	1	Blank	Arabian Sea Islands.

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Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
638	Minicoy	2330	2	Blank	2330
638	Dharamsala	0830	3	1121	1211
638	Lokpal	0830	13	Blank	0
639	Heading	-	-	Observations fixed at	Observations at fixed
639	Mukteswar (Kumaon)	0830	1	Mukteswar	Mukteswar (Kumaon
639	Mercara	0830	1	Mercare	Mercara
640	Bagra Tawa	1730	9	16.1	11.1
641	Barahakshetra	1730	4	1011.4	1011.7

Tables IV to VI - Upper air data.

Page	Station	Hour	Item	Level	Wrong entry	Correct entry
645	Ambala	2330	D	3.6	350	250
645	Asansol	1730	V	9.0	14.0	14.9
646	Bangalore	2330	v	9.0	1.6	1.0
647	Bhagalpur	1730	v	7.2	9.9	14.9
648	Calcutta	1130	V and D	4.5 v	1.3	10.0
				D	312	275
649	Dibrugarh	1130	n	2.1	28	29
650	Gauhati	0530	Rawin Mark	-	0530	0530*
663	Bangalore	0530	Mean	800 mb	235	285
663	Bangalore	0530	Mean Min.	175 mb	214.3	214.7
					200	210
665	Vishakhapatnam	0530	Ht. gpm	40 mb	2977	21977
666	Bangalore	1730	Ht. gpm	175 mb	13219	13291
649	Gangtok	0830	v	6.0	1.8	10.8
668	Vishakhapatnam	1730	Max.	600 mb	383	283
668	Vishakhapatnam	1730	Min.	900 mb	389	289
657	Udaipur	1730	v	9.0	1.73	17.3
666	Ahmadabad	Read the following data for 12.0 mb. level				

No. of observations	Ht. gpm	Temperature Mean	Max.	Min.	Dew Point
19	15356	204.6	211	198	-

and for the further levels read the present data to one level below.

Page	Item/Station	Hour	Column	For	Read
DECEMBER 1964					
Chief features					
670	4th Paragraph	-	-	The mean minimum temperature was above normal.	The mean minimum temperature was below normal.
Table I					
671	Heading	-	6	08 I.S.T.	0830 hrs. I.S.T.
671	Sub-division 8 Uttar Pradesh, East	-	4	-0.3	+0.3
Table II					
672	Port Blair	-	12	-17.3	-177.3
672	North Lakhimpur	-	2	2.2	23.2
672	Sibsagar	-	2	2.	23.5
672	Suri	-	10	0	-
672	Sandheads	-	2	.4	27.4
672	Foot note	-	-	(f) Mean of 27 days.	(f) Mean of 25 days.
673	Heading	-	13	Heaviest fall in 24 hoxrs.	Heaviest fall in 24 hours.
673	Heading	-	20(a)	1.1	0.1
673	Balasore	-	13 and 15	0 and 0	- and - (b) (d)
673	Motihari	-	17; 18	4.7; 2.2 (b) (d)	4.7; 2.2
673	Forbesganj	-	17; 18	4.9; 2.6	4.9; 2.6
673	Nautanwa	-	2	Not clear	24.4
673	Azamgarh	-	9	1415	14,15
673	Fatehpur	-	9	11	14
674	Heading	-	2	Manimum	Maximum
674	Ludhiana	-	20(b)	1	3
674	Chandigarh	-	3	-0.1	-1.0
674	Hissar	-	7	+0.4	-0.4
674	Hissar	-	22	0	1
674	Srinagar	-	12	-119.4	+119.4
674	Banihal	-	2	10.2	10.8
675	Heading	-	23	Thunder	Thunder Heard
675	Munabao	-	4	Blank	33.1
675	Alwar	-	7	+0.1	dash
675	Jaipur (Sanganer)	-	7	Blank	+0.1
675	Dholpur	-	7	-0.6	dash
675	Ajmer	-	7	Blank	-0.6
675	Kota (Aerodrome)	-	7	-0.4	dash
675	Kota	-	7	Blank	-0.4
675	Hoshangabad	-	29	9	0
675	Betul	-	16	Not clear	-0.5
675	Mandla	-	11	Blank	0
675	Mandla	-	17	Not clear	4.1
676	Porbander Aerodrome	-	7	2.2	-2.2
676	Bombay (Santacruz)	-	27	Blank	0
676	Poona	-	12	Blank	-3.8

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Page	Item/Station	Hour	Column	For	Read
Table II (Contd.)					
677	Nellore	-	2	29.9	29.0
677	Ramgundam	-	12	Blank	-0.4
677	Nizamabad	-	12	-1.4	-4.6
677	Hanamkonda	-	12	-4.6	-5.8
677	Hakimpet (Aerodrome)	-	12	-5.8	-
677	Bhadrachalam	-	12	Blank	-11.1
677	Hyderabad (Begumpet)	-	12	-1.1	-7.6
677	Khammam	-	12	-1.6	-
677	Madras (Minambakkam)	-	11	15.8	16.8
678	Salem	-	9	20	29
678	Madurai	-	16 and 19	-0.4; -0.4	+0.4; +0.4 (a)
678	Madurai (Aerodrome)	-	17	15.4	15.4
678	Pamban	-	20(a)	0	-
678	Palayankottai	-	16	4.2	-4.2
678	Honavar	-	15	2	1
678	Mangalore (Bajpe)	-	14	25	24
678	Mangalore (Bajpe)	-	23	0	3
678	Mangalore	-	14 and 15	Blank and 0	25 and 2
678	Gulbarga	-	15	2	0
678	Bijapur	-	14 and 19	Blank and +0.5	26 and -0.5
678	Agumbe	-	11	4.4	44.0
678	Agumbe	-	13	1.9	19.0
678	Agumbe	-	15	0	3
678	Trivandrum	-	2	30.0	31.0
678	Trivandrum (Aerodrome)	-	11	2	5.2
679	Lokpal	-	6	9.6	-9.6
679	Katmandu	-	14	1 ( )	11 (e)
679	Bagra Tawa	-	18	1.7	1 1.7
679	Pokhara	-	18	6	1.6
680	Chautara	-	10 and 15	Blank	0 and 0
680	Gangtok	-	29	Blank	0
681	Minicoy (January)	-	12	-41.4	-41.6
681	Minicoy (April)	-	15	9	3
Table III					
682	Dibrugarh (Mohanbari)	1730	7	16.1	16.6
682	Dibrugarh (Mohanbari)	2030	10	13.4	14.3
682	Gohpur	0830 and 1730	3	,,	--
682	Majbat	0830 and 1730	3	,,	[illegible]
683	Heading	-	13,14	Cloud amou	Cloud amount
683	Heading	-	17	20 to	20 to 61
683	Gauhati (Bhorjor)	0830	15	1.2	2.1
683	Silchar (Kumbhirgram)	0830	5	1004.0	1004.9
683	Silchar (Kumbhirgram)	1130	11	51	54
683	Silchar (Kumbhirgram)	1730	11	74	71
683	Baghdogra	0830	14	Blank	0
683	Cooch Behar	1730	18	3	1
683	Balurghat	1730	19	0	1
684	Suri	0830	3	,,	-

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Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
684	Asansol	1430	2	1440	1430
684	Asansol	1430	21	Not clear	2
684	Shanti Niketan	0830	4	1016.5	1017.9
684	Shanti Niketan	1130	4	1106.5	1016.5
684	Calcutta	1730	2	173	1730
684	Sagar Island	1730	11	71	67
684	Jharsuguda	0830	5	951.2	991.2
684	Jharsuguda	1130	4	106.3	1016.3
685	Bhubaneswar	0230	21	0	2
685	Gopalpur	1730	15	7.5	7.7
685	Dumka	0830	21	7	0
685	Dhanbad	1730	27	22	23
686	Chapra	0830	8	13.9	13.1
686	Patna Aerodrome	1130	28	0	1
686	Gonda	1730	9	11.9	12.9
686	Lucknow (Amausi)	0230	5	1006.6	1000.6
687	Allahabad (Bamhrauli)	1430	7	24.4	24.9
687	Varanasi (Babatpur)	0530	13	0	0.6
687	Tehri	0830	3	,,	-
687	Dehra Dun	0530	3	632	682
687	Mansiari	0830	3	,,	-
688	Agra	0830	14	+12	-1.2
688	Amritsar (Rajasansi)	0530	10	8.8	8.5
688	Halwara (Aerodrome)	0830	26	9	5
689	Heading	-	10	Vaour	Vapour
689	Palam (Aerodrome)	0230	5	989.6	989.5
689	Mandi	0830	3	,,	761
689	Mandi	1730	13	3.9	3.0
689	Leh	0530	8	12.3	-12.3
689	Qazigund	0830	20	Blank	0
689	Qazigund	1730	20	Blank	1
690	Ganganagar	0830	2	0230	0830
690	Jodhpur	2330	8	10.4	10.5
690	Jaipur (Sanganer)	0830	4	108.3	1018.3
691	Jaipur (Sanganer)	1130	3	,,	390
691	Kota (Aerodrome)	1730	11	2	26
691	Sheopur	1730	28	0	1
692	Chhindwara	1730	10	0.8	10.8
692	Pendra	2330	7	3.7	13.7
693	Kanker	0830	4	1018	1018.0
693	Kanker	1730	4	1013.	1013.4
693	Gujarat Region	-	1	Gujarat	Gujarat Region
693	Idar	1730	4	103.1	1013.1
693	Baroda Aerodrome	1730	9	2.3	6.3
693	Baroda	0830	8	11.	11.4
693	Baroda	1130	8	17.	17.4
694	Bhuj (Rudramata)	1730	2	1720	1730
694	Porbandar (Aerodrome)	0830	25	0	1
694	Keshod	0830	28	0	1
694	Veraval	1730	16	9	0
694	Dahanu	-	1	Dahan	Dahanu
694	Dahanu	1730	4	1611.8	1011.8
694	Bombay (Santacruz)	-	1	Bomb(Santacruz)	Bombay (Santacruz)
695	Bombay	0830	3	,,	11

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Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
695	Vengurla	0830	12	Blank	+5
695	Vengurla	2330	20	Blank	0
695	Panjim	1130	5	107.2	1007.2
695	Panjim	2330	17	0	1
695	Nandurbar	1730	4	012.5	1012.5
695	Deolali (Aerodrome)	0830	13	2.6	3.3
695	Deolali (Aerodrome)	1730	13	2.2	2.6
696	Miraj	0830	14	+8.8	+1.1
696	Kolhapur	0530	13	8.4	1.0
696	Kolhapur	1730	13	2.4	2.2
696	Nagpur (Sonegaon)	1430	15	5.0	6.0
696	Amraoti	-	1	Amraot	Amraoti
696	Akola (Aerodrome)	1130	20	9	8
696	Akola (Aerodrome)	1730	20	8	9
696	Akola	0830	14	-0.7	+0.7
696	Bramhapuri	0830	20	Blank	7
696	Bramhapuri	1730	20	Not clear	7
696	Buldana	0830	14	-0.2	+0.2
696	Buldana	1730	19	Blank	4
696	Yeotmal	1730	13	9	2.9
697	Chanda	1730	8	17.9	17.6
697	Pusad	0830	3	384	334
697	Kalingapatam	1730	19	4	1
697	Visakhapatnam	1430	10	Not clear	17.4
697	Visakhapatnam	1730	8	19.4	19.5
697	Hanamkonda	0830	4	1017	1017.1
697	Hakimpet (Aerodrome)	0530	5	945.	945.1
697	Hakimpet (Aerodrome)	1130	21	10	8
697	Bhadrachallam	1730	2	0730	1730
698	Heading	-	4	Standrd	Standard
698	Hyderabad (Begampet)	1130	17	0	1
698	Vellore	0830	18	Not clear	30
698	Vellore	1130	26	0	2
698	Tambaram (Aerodrome)	1730	17	0	9
698	Mettur Dam R.S.	0830 and 1730	3	,,	--
698	Mettur Dam R.S.	0830	20	Not clear	10
698	Cuddalore	0530	1	Cuoddalore	Cuddalore
698	Cuddalore	2330	5	1012.7	1012.4
699	Tiruchirappalli	0830	6	Blank	-0.3
699	Mangalore (Bajpe)	2330	5	1000.5	1000.7
699	Mangalore	1730	13	Not clear	1.9
699	Gulbarga	0830	4	106.6	1016.6
700	Belgaum (Samra)	0830	4	1051.1	1015.1
700	Belgaum (Samra)	1130	23	Not clear	2
700	Gadag	1430	27	Not clear	1
700	Bangalore	1430	4	15149	1514.9
700	Palghat	0830	10	Not clear	21.6
700	Trivandrum	0530	21	5	1
701	Amini	1130	2	1103	1130
701	Dalhousie	1730	11	56	76
701	Dharmsala	1730	10	3.2	8.2
701	Lokpal	0830	8	11.9	-11.9
701	Joshimath	1730	7	9.3	9.8
701	Mussoorie	1730	10	3.5	7.5
701	Kohima	1730	5	860.0	860.4
702	Khijrawan	0830	26	Blank	0
702	Timure	0830	9	2.3	-2.3

Page	Item/Station	Hour	Column	For	Read
Table III (Contd.)					
702	Pokhara	0830	26	2	1
703	Gangtok	1130	11	68	61
703	Gezing	1730	9	.3	7.3
704	Amini (January)	1130	7	Not clear	31.1
704	Minicoy (May)	2030	8	25.9	25.8
705	Name of the month	-	1	June (Contd.)	June
705	Amini (September)	0830	12	+	+3
705	Amini (October)	1730	3	7	,,
706	Name of the month	-	1	Blank	October (Contd.)
706	Minicoy (October)	0530	10	27.2	27.6
706	Minicoy (October)	1430	13	6.6	6.5
706	Minicoy (October)	2330	9	27.9	22.9
706	Amini (November)	0830	25	5	4
706	Amini (November)	1130	5	1011.5	1011.6
706	Minicoy (November)	0530	19	0	1
706	Minicoy (November)	0830	19	0	4
706	Minicoy (November)	1130	19	0	5
706	Minicoy (November)	1430	11	65	69
706	Minicoy (November)	1430	19	0	3
706	Minicoy (November)	1730	19	0	3
706	Minicoy (November)	2330	4	1110.9	1011.9

Page	Station	Month	Element	For	Read
Table III-A					
708	Maya Bandar	May	R	40.20	402.0
708	Nancowry	Jan.	R	15.33	153.3
708	Kondul	Feb.	R	126.1	126.4
708	Majbat	Feb.	X	963	1963
708	Majbat	Jun.	R	23.50	235.0
708	Tangla	Mar.	X	34.5	35.4
708	Jorhat Aerodrome	Jun.	R	1999	1959
708	Rangia	Jan.	R	1963	1962
708	Chaparmukh	Jun.	R	1960	1963
708	Gauhati	Apr.	R	75.5	75.7
708	Haflong	-	Station	Hablong	Haflong
708	Kailashahar	Apr.	N	1964	1961
708	Agartala	Jun.	X	63.3	36.3
708	Suri	Jun.	R	1959	1956
709	Tangla	Sep.	R	150.0	105.0
709	Baghdogra	Aug.	R	Not clear	313.1
709	Baghdogra	Dec.	N	1966	1961
709	Cooch Behar	Aug.	R	315.4	315.5
709	Cooch Behar	Nov.	X	1956	1950
709	Balurghat	Nov.	N	1963	1962
709	Balurghat	Dec.	N	1061	1961
709	Suri	Jul.	X	38.3	38.2
710	Midnapore	Jun.	X	942	1942
710	Keonjhargarh	Jan.	R	71.0	17.0
710	Titlagarh	May	N	1968	1963
710	Puri	Feb.	X	53.0	35.0

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Page	Item/Station	Month	Element	For	Read
Table III-A (Contd.)					
710	Motihari	Apr.	R	899	1899
711	Purulia	Jul.	R	148.8	148.3
711	Contai	Jul.	R	141.2	151.2
711	Balasore	Sep.	R	299.1	199.1
711	Balasore	Dec.	R	178.8	78.7
711	Koraput	Dec.	X	196	1963
712	Gonda	Apr.	R	71.	71.4
712	Kanpur (Aerodrome)	May.	R	1961	1963
712	Azamgarh	Feb.	N	1962	1961
712	Mansiary	Apr.	R	1967	1957
713	Azamgarh	Sep.	X	28.3	38.3
713	Tehri	-	Based on data from	1946,1946	1956, 1956
714	Ambala (Aerodrome)	Jan.	R	17.1	117.1
714	Patiala	Jun.	X	1959	1955
714	Patiala	Jun.	N	1955	1952
714	Bhatinda	May	X	06.1	46.1
714	Ganganagar	Mar.	R	1956	1957
715	Aligarh	Jul.	N	1947	1957
715	Amritsar (Rajasansi)	Nov.	X	1949	1952
715	Ferozepur	Jul.	X	1597	1957
715	Hissar	Sep.	N	1913	1923
715	Hissar	Oct.	X	1961	1951
715	Mandi	Jul.	X	33.9	39.5
715	Dras	Dec.	R	1221	1921
715	Sonamarg	Dec.	R	54.5	54.4
715	Qazigund	Nov.	X	196	1964
715	Qazigund	Dec.	N	Not clear	-14.4 1964
715	Anupgarh	Sep.	X	1965	1964
716	Pilani	Mar.	N	1959	1960
716	Pilani	Apr.	R	1910	1960
716	Dholpur	Jun.	X	196	1960
716	Ajmer	Apr.	N	1986	1886
716	Ajmer	Jun.	N	7.2	17.2
716	Erinpura (Jawai Dam)	Feb.	N	1964	1961
716	Erinpura (Jawai Dam)	Mar.	X	1952	1959
716	Erinpura (Jawai Dam)	Mar.	N	1959	1962
716	Chambal (Rawat Bhatta Dam)	Apr.	N	19 6	1956
716	Jhalawar	Jan.	R	Not clear	1941
716	Jhalawar	Jun.	N	24.1	21.1
716	Shivpuri	-	Station	Shirpuri	Shivpuri
716	Nowgong	May	X	1917	1947
716	Ratlam	Jun.	R	98.6	98.8
717	Nagaur	Jul.	R	20.0	120.0
717	Phalodi	Jul.	N	28.3	21.3
717	Phalodi	Dec.	X	32.3	32.2
717	Jaisalmer	Sep.	N	19.8	19.3
717	Jodhpur	Jul.	X	1961	1901
717	Jaipur (Sanganer)	Nov.	X	1951	1957
717	Tonk	Nov.	X	196	1964
717	Bhilwara	Nov.	X	1964	1963
717	Shivpuri	Sep.	X	1962	1964
717	Nimach	Dec.	X	1932	1962

Page	Station	Month	Element	For	Read
Table III-A (Contd.)					
718	Khandwa	Jun.	N	1907	1960
718	Satna	Mar.	R	Not clear	1893
718	Deesa	May	R	68.8	68.6
718	Surat	Mar.	N	1998	1898
718	Surat	May	X	1856	1956
718	Rajkot	-	Station	Blank	Rajkot
718	Rajkot	May	R	17.3	117.3
719	Satna	-	Based on data from	Blank	1881,1881
719	Champa	Nov.	R	1956	1946
719	Naliya	Nov.	N	1963	1960
720	Porbander Aerodrome	Jun.	N	Not clear	22.7 1964
720	Keshod	Jun.	N	Not clear	22.3 1959
720	Mahuva	Jun.	N	Not clear	22.8 1955
720	Dahanu	Jun.	R	378.00	378.0
720	Alibag	Jun.	R	255.0	225.0
720	Jalgaon	May	N	21.4	19.9
720	Miraj	Jan.	R	46.4	46.5
720	Miraj	Mar.	R	11.4	27.4
720	Kolhapur	May	R	163.4	163.6
720	Aurangabad	Mar.	X	1897	1892
720	Aurangabad (Chikalthan)	Jan.	X	32.2	32.3
720	Nagpur (Sonegaon)	Mar.	N	8.8 189	8.3 1898
720	Amraoti	May	X	46.1 1898	46.7 1954
720	Amraoti	May	N	12.8 1905	18.3 1917
721	Bhavnagar Aerodrome	-	Based on data from Temp.	1950	1951
721	Porbandar Aerodrome	-	-do-	1961	1960
721	Dahanu	Nov.	R	256.4	256.5
721	Bombay	Oct.	R	1817	1917
721	Alibag	-	Based on data from Temp.	Not clear	1931
721	Harnai	Dec.	X	34.3	34.2
721	Ratnagiri	Oct.	R	1838	1938
721	Vengurla	Jul.	N	1.7	21.7
721	Nandurbar	Oct.	R	1964	1959
721	Malegaon	Aug.	R	155.3	115.3
721	Malegaon	Oct.	R	103.7	109.7
721	Jeur	Dec.	X	5.3	33.9
721	Sholapur	Nov.	R	27.8	127.8
721	Sholapur	Dec.	X	34.7	34.4
721	Sholapur	Dec.	N	7.5	6.7
722	Yeotmal	Apr.	R	46.7	146.7
722	Ongole	May	R	10.6	102.6
722	Hakimpet (Aerodrome)	May	R	32.2	32.5
722	Bhadrachalam	Mar.	X	1963	1953

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Page	Station	Month	Element	For	Read
Table III-A (Contd.)					
722	Hyderabad (Begumpet)	Apr.	R	1935	1937
722	Mettur Dam R.S.	Mar.	N	1963	1964
722	Kallakkurichchi	Feb.	R	42.8	52.8
722	Kallakkurichchi	Mar.	X	31.7	41.7
723	Sironcha	Dec.	N	1960	1964
723	Nidadavole	Nov.	N	51.5	15.5
723	Gannavaram	Nov.	X	34.5	35.0
723	Gannavaram	Dec.	N	1952	1961
723	Gannavaram	Dec.	R	1961	1952
723	Nellore	Dec.	R	189.9	189.2
723	Bhadrachalam	Dec.	R	40.0	40.4
723	Khammam	Jul.	X	39.3	39.4
723	Tiruppattur	Aug.	R	196	1962
723	Mettur Dam R.S.	Sep.	N	1965	1964
723	Cuddalore	Nov.	R	309.7	309.9
724	Nagapattinam	Apr.	R	151.1	151.6
724	Vedaranniyam	Feb.	X	36.2	33.2
				1934	1964
724	Madurai	Apr.	X	1936	1935
724	Karwar	Jun.	X	1952	1963
724	Mangalore (Bajpe)	Feb.	X	35.4	36.4
724	Bidar	Apr.	X	1960	1946
724	Bidar	Jun.	R	1953	1943
724	Bijapur	Jun.	N	71.2	17.2
724	Belgaum (Samra)	Apr.	R	0.6	50.6
724	Gadag	Apr.	R	1963	1962
724	Chitradurg	May	R	18.6	181.6
724	Calicut	Mar.	R	83.6	83.3
				1933	1936
725	Salem	Sep.	X	1991	1891
725	Tondi	Nov.	N	1956	1961
725	Tuticorin	Nov.	R	135.6	134.6
725	Raichur	-	Based on data from Rainfall	1891	1896
725	Belgaum (Samra)	Sep.	X	32.0	31.0
725	Belgaum (Samra)	Sep.	X	963	1963
725	Gadag	Nov.	R	1959	1956
725	Balehonnur	Nov.	N	1948	1964
725	Balehonnur	Nov.	R	1945	1948
725	Palghat	Jul.	N	1963	1962
726	Simla	May	X	30.	30.0
726	Kalimpong	Apr.	X	30.	30.6
726	Aijal	Feb.	X	278.8	27.8
726	Mercara	Mar.	X	9121	1921
726	Kodaikanal	Jan.	X	1961	1916
727	Lokpal	Dec.	N	1962	1952
727	Badrinath	Oct.	N	1960	1959
727	Badrinath	Oct.	R	1958	1960
727	Joshimath	Dec.	N	-24.4	-2.4
727	Mussoorie	Dec.	N	- .9	-3.9
				954	1954
727	Kukteswar (Kumaon)	Dec.	N	5.0	-5.0
727	Nainital	-	Based on data from Rainfall	1963	1953

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

OCTOBER

Published by authority of the Government of India

Chief features :

(i) Further withdrawal of the monsoon from the country outside south Peninsula by the middle of the month;

(ii) Spells of good rainfall in northeast India and the Peninsula;

(iii) Development of two deep depressions in the Bay of Bengal and their movement; and
(iv) Unprecedented record rainfall of 40 cm at Trivandrum reported on 18th.

The well marked low pressure area which was lying over Telangana and adjoining north Interior Mysore last month persisted there till 3rd with no appreciable movement. Later it shifted slightly northwestwards weakened and became unimportant by 5th. Under its influence, fairly well distributed rainfall occurred in the north Peninsula, particularly over the western parts where there were a few heavy falls. Some of the noteworthy amounts of rainfall recorded were : Ratnagiri 20 cm, Harnai 18 cm and Bombay (Colaba) 11 cmaon 1st, Karwar, Honawar and Ratnagiri 9 cm each on 2nd, Karwar 9 cm on 3rd and Bijapur and Devgarh 12 cm each on 4th. According to press reports, the torrential rains in Bijapur district caused the death of 12 persons and the collapse of a large number of houses.

A low pressure area moving northwestwards across lower Burma entered the east central Bay of Bengal on 3rd. It intensified and concentrated into a depression by the next morning with centre about 100 kms westsouthwest of Cox's Bazzar. Moving northnorthwestwards it further intensified into a deep depression by the morning of 5th and crossed the East Pakistan coast near Barisal the same day. It weakened into a depression by 7th when it was centred near Bogra. Moving westwards it further weakened into a low pressure area by the morning of 8th over Bihar Plateau where it persisted till 10th. Thereafter it moved eastwards and became unimportant by 13th. Under its influence there was a spell of good rainfall in northeast India from 4th to 14th. East Uttar Pradesh and east Madhya Pradesh also received good rainfall on a few days in the second week. Some of the heavy rainfalls recorded were: Agartala 9 cm on 6th, Tura 11 cm on 7th and Patna 13 cm on 9th and 9 cm on 10th.

A trough of low pressure developed over the west central Bay of Bengal on 8th and persisted close to the Madras and Andhra coasts till 10th. Another trough of low pressure appeared over the north Andaman Sea on 10th and rapidly moved into the west central Bay of Bengal on 11th. It persisted there till 14th. In association with these developments fairly well distributed rainfall occurred in the Peninsula with spells of heavy rains in southern parts during the second week. Vellore recorded 14 cm and Tiruppattur 9 cm of rain on 9th, Palghat recorded 11 cm and Alleppey 9 cm on 13th.

The monsoon which had withdrawn from northwest India towards the end of September continued to withdraw from Uttar Pradesh, Madhya Pradesh, Gujarat State and north Maharashtra State during the first week of this month. In the wake of the depression mentioned earlier, the monsoon rapidly withdrew from northeast India and the remaining parts of north Peninsula by 15th and remained confined to the south Peninsula thereafter.

A low pressure area developed over the south Peninsula on 15th. Moving westwards into the Arabian Sea the next day, it persisted there off the Kerala and Mysore coasts till 18th. Later it became feeble and unimportant. Under its influence, the rainfall activity in the south Peninsula continued till 17th. Thereafter the activity decreased and was confined to the extreme south Peninsula. The Trivandrum observatory reported an all time record fall of 40 cm of rain on 18th. According to press reports, the unseasonal deluge caused by the torrential rains washed away hundreds of houses and rendered over 5000 people homeless. Seven persons were reported to have been killed and the damage to property was estimated to be about rupees 7 lakhs.

1—1 D.D.G. Obs. (P)/68

A low pressure area from the east moved into the north Andaman Sea on 16th. Moving in a northwesterly direction, it progressively intensified into a depression by 17th morning with centre near Lat. 16.0° N and Long. 90.0° E and into a deep depression by the next morning with centre near Lat. 18.0° N and Long. 86.0° E. It crossed coast near Gopalpur during the night of 18-19th. It began to recurve northeastwards on 20th and weakened into a depression by 21st over Bihar Plateau and adjoining east Madhya Pradesh. It further weakened into a low pressure area by the same evening and moved away eastwards across Assam by 25th. In the course of its movement the disturbance caused fairly well-distributed rainfall in coastal Andhra Pradesh and east Madhya Pradesh. There was a spell of good rainfall over northeast India for nearly a week from the 18th. Some of the noteworthy rainfall amounts were: Raipur 12 cm on 20th, Cooch Behar 15 cm on 21st, Sriniketan 18 cm and Pasighat 12 cm on 22nd.

A low pressure area moved from the east into the north Andaman Sea on 24th. Moving northwestwards, it became well marked on 27th when it lay over Orissa and adjoining Bihar Plateau and the Gangetic West Bengal. Thereafter it weakened and became unimportant by 29th. A spell of well distributed rainfall occurred in Assam, West Bengal and Orissa in association with this disturbance. Digboi recorded 9 cm of rain on 27th.

Spells of good rainfall occurred in the south Peninsula during the last ten days of the month. An upper air trough which developed over the Madras State and adjoining Andhra Pradesh on 21st persisted with no appreciable movement till 25th. It shifted westwards to the east central Arabian Sea off the Mysore coast on 26th and moving slightly northwards became unimportant by 30th. In association with it, there was good rainfall on the south and adjoining northwestern parts of the Peninsula. Some of the noteworthy amounts of rainfall recorded were: Salem 8 cm on 22nd, Punalur 8 cm on 23rd, Fort Cochin 12 cm on 24th, Mercara 8 cm on 26th and Alleppey 7 cm on 31st.

The total rainfall during the month was in large excess in the Konkan and north Interior Mysore, in moderate excess in Assam, Bihar Plains, coastal Mysore and Kerala, in slight excess in Gangetic West Bengal and east Madhya Pradesh and was normal in Bihar Plateau, the Madras State and south Interior Mysore. It was in slight defect in Sub-Himalayan West Bengal, in moderate defect in the Bay Islands, Orissa, Madhya Maharashtra, Vidarbha, Telengana and the Arabian Sea Islands, in large defect in Uttar Pradesh, Rajasthan, west Madhya Pradesh, Marathwada, coastal Andhra Pradesh and Rayalaseema. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Jammu and Kashmir and was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in Sub-Himalayan West Bengal and east Madhya Pradesh and below normal in west Rajasthan and Saurashtra and Kutch. It was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in northeast India, north Interior Mysore and the Arabian Sea Islands and below normal in Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan, Saurashtra and Kutch and Marathwada. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA 5;
the 20th September, 1965

R. ANATHAKRISHNAN,
for *Director General of Observatories.*

Page	Station	Month	Element	For	Read
Table III-A (Contd.)					
727	Abu	Aug.	X	1983	1883
727	Mercara	Sep.	N	1955	1935
727	Bokaro	Oct.	N	196	1964
728	-	-	Heading	Temperature Heaviest	Temperature (°C) and Heaviest
728	Jomosom	-	Station	Tomosom	Jomosom
728	Khudi Bazar	Apr.	R	-963	1963
728	Chepua	Feb.	R	1.0	31.0
728	Chainpur	Feb.	N	953	1953
728	Gezing	Jun.	R	196	1963
729	Hirakud	Jul.	R	227.1	277.1
729	Chainpur	Oct.	R	1959	1955
729	Chainpur	Nov.	X	1953	1959
729	Chainpur	Nov.	N	1963	1953
729	Gangtok	Sep.	R	198.8	108.8

Page No.	Station	Hour	Item	Level	Wrong entry	Correct entry
Tables IV to VI - Upper air data						
733	Anantapur	0530	D	5.4	010	100
733	Asansol	0530	D	0.15 a.g.	248	348
735	Bhuj	0530	D	1.5	272	279
736	Calcutta	0530	D	0.9	318	348
736	Calcutta	1130	D	0.6	30	340
738	Gaya	0530	V	2.1	6.3	6.9
744	Siliguri	0530	v	0.6	2.7	2.6
745	Udaipur	0530	v	0.15 a.g.	0.6	1.6
745	Udaipur	0530	D	3.6	203	253
745	Udaipur	1730	v	0.15 a.g.	0.9	0.6
745	Udaipur	1730	v	6.0	15.7	15.6
745	Udaipur	1730	v	7.2	15.4	15.2
745	Udaipur	2330	D	Surface	325	335
745	Udaipur	2330	D	5.4	360	260
745	Veraval	1730	D	0.3 a.m.s.l.	104	106
745	Vijaywada	1730	v	0.6	3.7	2.7
747	Ahmadabad	0530	V	16.2	40.6	40.0

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C	Relative Humidity %		Cloud	
					0830 hrs. IST.	1730 hrs. IST.	0830 hrs. IST.	1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	172·2 +38·4	129	29·9 +0·3	21·9 +0·8	86 +3	84	5·5 +1·0	4·7
2. West Bengal	134·2 +4·9	104	31·4 +0·2	23·7 +0·9	81 +3	78	4·1 +1·0	4·1
3. Orissa	86·9 —68·0	56	31·8 +0·5	22·7 —0·4	78 0	74	4·1 +0·7	4·9
4. Bihar	81·7 +14·4	121	31·4 +0·4	21·9 +0·7	78 +5	73	3·1 +0·8	3·3
5. Uttar Pradesh	10·8 —30·2	26	33·1 +0·6	19·5 +0·5	68 +1	55	0·7 —0·4	0·9
6 Punjab (India) (Including Delhi)*	0 —37·4	0	32·9 +0·3	16·5 —0 6	62 +1	41	0·2 —0·6	0·3
7. Jammu and Kashmir	0 —16·8	0	25·1 +2·1	7·1 +0·4	61 —1	38	0·2 —1·5	0·4
8. Rajasthan	0·8 —8·0	9	35·0 +0·5	18·5 —0·4	51 —2	30	0·5 —0·4	1·0
Sub-Division								
1. Bay Islands	217·9 —99·8	69	29·8 +1·0	22·7 —0·5	79 —2	86	6·2 +1·0	5·8
2. Assam (including Manipur, Tripura).	172·2 +38·4	129	29·9 +0·3	21·9 +0·8	86 +3	84	5·5 +1·0	4·7
3. Sub-Himalayan, West Bengal.	130·4 —19·3	87	31·3 +0·6	23·2 +1·8	81 +3	77	4·2 +1·6	3·4
4. Gangetic, West Bengal.	135·5 +13·7	111	31·5 +0·1	23·9 +0·6	81 +4	78	4·1 +0·8	4·3
5. Orissa	86·9 —68·0	56	31·8 +0·5	22·7 —0·4	78 0	74	4·1 +0·7	4·9
6. Bihar Plateau	69·8 —4·5	94	30·5 —0·1	20·7 +0·4	76 +5	71	3·3 +0·7	3·3
7. Bihar Plains	88·9 +25·7	141	32·2 +0·9	22·8 +1·0	79 +5	75	3·0 +0·9	3·2
8. Uttar Pradesh, East	16·8 —36·3	32	33·4 +0·8	20·3 +0·7	71 +1	59	1·1 —0·3	1·2
9. Uttar Pradesh, West	1·7 —20·9	8	32·8 +0·3	18·1 +0·3	64 +2	48	0·3 —0·5	0·4
10. Punjab (India) (including Delhi).	0 —37·4	0	32·9 +0·3	16·5 —0·6	62 +1	41	0·2 —0·6	0·3
11. Himachal Pradesh	0 ..	..	30·6 ..	7·6 ..	84 ..	56	0 ..	0·3
12. Jammu and Kashmir	0 —16·8	0	25·1 +2·1	7·1 +0·4	61 —1	38	0·2 —1·5	0·4
13. Rajasthan, West	0·9 —3·4	21	36·1 +0·6	18·3 —1·1	50 —3	29	0·3 —0·5	0·6
14. Rajasthan, East	0·8 —12·6	6	34·2 +0·4	18·7 +0·1	51 —1	31	0·7 —0·4	1·3
15. Madhya Pradesh West	8·5 —29·0	23	32·7 +1·0	18·6 +0·5	60 —3	42	1·5 —0·3	2·2

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. IST.	1730 hrs. IST.	0830 hrs. IST.	1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
9. Madhya Pradesh	39·6 —11·1	78	31·9 +0·7	19·4 +0·9	67 —1	52	2·0 —0·2	2·8
10. Gujarat State	0 —27·1	0	34·7 +0·5	21·0 —0·8	68 —3	45	1·5 —0·2	1·6
11. Maharashtra State	96·6 +16·0	120	32·1 +0·4	21·3 +0·5	74 +3	55	3·1 —0·1	4·0
12. Andhra Pradesh	52·9 —82·2	39	32·0 +0·1	23·3 +0·4	78 +2	68	3·7 —0·3	4.5
13. Madras State	196·3 —6·9	97	32·7 +0·7	23·8 0	76 —1	69	5·2 +0·8	5·7
14. Mysore	154·2 +24·2	119	29·5 —0·4	21·1 +0·5	84 +6	66	4·9 +0·5	5·8
15. Kerala	412·9 +107·2	135	29·5 —0·3	23·6 —0 2	88 +3	83	5·9 +0·5	6·6
Sub-Division								
16. Madhya Pradesh (East)	79·2 +11·6	117	30·9 +0·4	20·5 +1·3	76 +2	64	2·6 —0·1	3·4
17. Gujarat Region	0 —32·6	0	35·9 +0·9	21·1 +0·1	68 —2	38	1·8 0	1·3
18. Saurashtra and Kutch	0 —24·0	0	33·9 +0·3	20·9 —1·3	68 —3	50	1·3 —0·4	1·7
19. Konkan	233·1 +130·8	228	30·3 —0·8	23·7 +0·1	85 +4	77	3·9 0	4·0
20. Madhya Maharashtra	63·2 —26·6	70	32·7 +0·9	19 7 +0·1	75 +4	47	3·0 —0.1	4·2
21. Marathwada	17·4 —33·5	34	33·0 +0·9	19·9 +0·5	59 —3	39	2·4 —0·7	4·3
22. Vidarbha	38·6 —18·9	67	32·5 +0·6	21·5 +1·0	70 +1	52	2·7 —0·2	3·8
23. Coastal Andhra Pradesh	69·8 —122·6	36	31·9 0	24·4 +0·2	81 +2	72	4·2 —0·1	4·8
24. Telangana	37·9 —36·3	51	32·1 +0·3	22·1 +0·7	78 +4	68	3·1 —0·6	4·3
25. Rayalaseema	38·4 —64·3	37	32·3 —0·2	22·9 +0·2	74 0	59	3·6 —0·5	4·3
26. Madras State	196·3 —6·9	97	32·7 +0·7	23·8 0	76 —1	69	5·2 +0·8	5·7
27. Coastal Mysore	201·7 +42·2	126	29·6 —0·6	23·7 +0·3	88 +3	82	5·6 +0·6	6·1
28. Interior Mysore, North.	141·5 +54·5	163	31·1 —0·5	21·2 +0·7	80 +9	58	3·9 +0·7	5·5
29. Interior Mysore, South	143·0 —5·1	97	28·6 —0·2	19·9 +0·5	86 +6	65	5·5 +0·4	6·0
30. Kerala	412·9 +107·2	135	29·5 —0·3	23·6 —0·2	88 +3	83	5·9 +0·5	6·6
31. Arabian Sea Islands	120·9 —44·5	73	29·5 —0·3	24·9 +0·1	81 +3	78	5·7 +1·1	5·9

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

*Data of Himachal Pradesh not included.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·8	..	30·9	7	24·0	..	22.9	2	194·8	202·0	..	31·2	31	16	..	10·5	7·2	..	1	22	0	0	6	0	0	0	0	0	0
Long Island	30·5	..	31·8	9	23·3	..	20·6	5	141·8	236·2	..	49·6	25	14	..	6·9	4·0	..	0	18	0	0	0	0	0	0	0	0	0
Port Blair	29·8	+1·0	31·8	24	22·7	—0·5	21·7	28	142·9	217·9	—99·8	58·4	12	15	—1,7	13 7	9·8	—2·4	0	18	0	0	8	6	0	0	0	0	0
Car Nicobar	29·4	..	30·4	4days	23·2	..	21·4	21	67·5	236·7	..	48 8	15	18	..	6·0	3·5	..	0	20	0	0	0	0	0	0	0	0	0
Nancowry	29·3	..	31·0	22	24·4	..	21·2	15	95·2	271·2	..	51·6	15	16	..	8·5	6 7	..	0	19	0	0	1	0	0	0	0	0	0
Kondul	28·0	..	29·6	4	24·1	..	22·4	28	104·4	229·3	..	27·8	23	19	..	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Assam including Manipur and Tripura).																													
Pasighat	29·6	..	34·3	4	20·8	..	17·9	7	129·3	246·2	..	124.1	22	7	..	5 3	6·7	..	1	11	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari).	30·1	+1·6	37·4	9	20·5	+0·2	18·9	8,22, 27	42·6	183·0	+30·9	51·8	27	10	+1·4	4·0	2·5	—0·3	3	14	0	0	2	1	0	0	0	0	0
Digboi	30·0	..	33·3	3	22·4	..	20 6	8	(d) 30·2	(c) 172·9	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
North Lakhimpur.	30·2	+0·9	34·3	4	21·2	+0·6	19 6	29	36·0	173·5	-55·2	23·2	7,14	11	+0·1	4·9	3·3	..	1	17	0	0	4	0	0	0	0	0	0
Sibsagar	30·0	+0·9	33·4	4,10	23·3	+1·9	21·2	7	74·1	169·9	+38·6	35·8	13	12	+4·1	3·9	2·8	+0·5	1	14	0	0	3	0	0	0	0	0	0
Gohpur	30·2	..	34·6	4	22·9	..	21·5	27	26·8	231·8	..	37·2	26	14	..	3·2	2·9	..	0	15	0	0	0	0	0	0	0	0	0
Majbat	30·8	..	35·1	4	22·2	..	20·0	23,25	21·0	132·6	..	33·2	29	11	..	4·6	2·8	..	0	11	0	0	1	0	0	0	0	0	0
Jorhat (Aerodrome)	30·5	..	33·7	4	23·1	..	21·6	7	52·6	206·8	..	50.8	10	13	..	..	..	..	0	17	0	0	2	0	0	0	0	0	0
Tangla	31·1	..	34·8	4	21·3	.	20·0	4	2·2	56·2	..	50·0	27	2	..	2·4	1·8	..	0	3	0	0	0	0	0	0	0	0	0
Tezpur	30·5	+0·3	33·9	3,4	23·4	+1·6	21·8	7	37·6	131·0	+26·9	35·6	13	7	+0·7	4·6	3·5	+1·1	0	11	0	0	0	0	0	0	0	0	0
Golaghat	30·6	..	34·1	4	22·5	..	20·9	7.30	36·4	124·4	..	18·6	11	9	..	3·2	2·6	..	0	12	0	0	0	0	0	0	0	0	0
Rangia	31·4	..	34·8	4	22·6	..	21·0	16,27 31	16·5 (g) 28·8	98·5 (g) 151·9	..	21·3	12	6	..	(d) 6·4 (h) 6·7	4·6 (h) 4·8	..	0	7	0	0	0	0	0	0	0	0	0
Chaparmukh	30·9	..	..	..	23·3	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Goalpara.	31·1	..	35·1	4	22·4	..	19·1	31	77·6	210·6	..	59·4	6	9	..	5·3	3·1	..	0	11	0	0	0	0	0	0	0	0	0
Gauhati	28·1	—2·5	30·2	3,12, 18	19·0	—2·7	14·7	4days	..	90·0	+19·4	27·0	6	6	+1·8	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Gauhati(Bhorjor)	30·2	+0·1	33·8	4	22·9	+1·9	21·6	7,31	23·9	120·0	+49·4	33·3	27	9	+4·8	5·6	3·9	..	0	15	0	0	6	1	0	0	0	0	0
Dhubri (Rupsi)	30·6	..	34·9	4	21·9	..	18·1	31	39·8	179.6	..	54·6	13	10	..	4·7	3·1	..	2	10	0	0	3	4	0	0	0	0	0
Dhubri	30·0	+0.9	32.3	4	24.3	+1.6	21.1	31	56.8	161·2	+36.7	43.0	7	10	+5.0	7.6	8.8	+3.7	0	11	0	0	0	0	0	0	0	0	0
Lumding	31.1	+1.7	34.1	4	22.8	+1.7	20·3	29	63.6	140·0	+50.1	34.6	7	9	+3.1	4.0	2.3	..	0	11	0	0	0	0	0	0	0	0	0
Tura	28.3	..	33.2	4	17.7	..	14.8	31	218.3	459.1	..	113.1	7	11	..	3.0	3.8	..	0	18	0	0	3	3	0	0	0	0	0
Haflong	26.6	..	29.6	4	19.2	..	17.1	31	72.4	149.6	—7.4	32.8	6	10	+3.0	..	..	..	0	13	0	0	0	1	0	0	0	0	0
Silchar (Kumbhirgram)	31.3	..	35.8	4	22.9	..	20.5	31	55.9	238.6	..	58·3	10	12	..	5.5	5.8	..	1	14	0	0	4	1	0	0	0	0	0
Silchar	29.9	—1.4	33.4	3	24.0	+1.7	21·1	20	96.4	272.4	+88.3	64.4	11	10	+2.1	2.2	1.3	—0.4	1	13	0	0	6	0	0	0	0	0	0
Imphal(Tulihal)	28.4	+0.8	31.4	3	17.3	0	12.2	31	39.4	142.0	+25.5	43.5	7	12	+4.3	5.1	2.9	—1.0	0	15	0	0	2	5	0	0	0	0	0
Kailashahar	31.4	..	34.4	4	23.0	..	20.0	31	121.2	236.1	..	76.8	20	10	..	3.4	2.7	..	1	15	0	0	10	5	0	0	0	0	0
Agartala	30.8	0	34.1	8	22.4	+0.2	18.9	31	126·1	333.9	+157.5	86.0	6	13	+5.0	6.4	5.6	+1.2	1	19	0	0	16	2	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	31.5	+1.0	34.9	4	22.0	+1·5	18.6	26	39.2	89.3	—72.2	31.2	22	8	+1.3	8·1	6.5	+3.0	1	10	0	0	1	0	0	0	0	0	0
Jalpaiguri	31·0	+0.6	34.6	4	23.3	+2.0	20.8	30	13.6	81.4	—59.8	40.0	19	5	-0.5	6.5	4.7	+2.8	0	9	0	0	2	1	0	0	0	0	0
Cooch Behar	30.7	..	34.0	4	22.5	..	19.6	31	29.2	271.1	+85 4	155.9	21	8	+1.8	5.6	3.5	..	1	10	0	0	7	3	0	0	0	0	0
Balurghat	31.5	..	35.0	5	23.4	..	17.8	31	71.4	212.3	..	92.4	7	9	..	6.1	4.2	..	0	11	0	0	1	0	0	0	1	1	0
Malda	31.5	+0.3	34.4	5	24.4	+2.0	19.9	31	49.0	79.7	—30.8	34.6	8	6	+1.7	3·6	2.5	—2.0	0	6	0	0	4	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	31.6	+0 3	34.4	2	23.8	+0.5	20.2	31	106.9	182.1	+89.3	37.2	7	10	+5.5	3.3	2.1	—0.2	0	14	0	0	4	1	0	0	0	0	0
Suri	31.2	..	33.9	4	23.1	..	18.4	31	..	117.6	..	62.8	11	9	..	..	4.6	..	1	12	0	0	0	0	0	0	0	0	0
Asansol	32.3	+0.6	35.3	4	22.8	+1.2	15.6	24	75.6	101.3	—8.9	25.8	27	8	+2.5	..	..	..	1	10	0	0	7	1	0	0	0	0	0
Shanti Niketan.	31.1	..	33.5	3	23.3	..	18.1	24	131.7	308.8	..	184.2	22	10	..	8.2	5.5	..	2	12	0	0	2	1	0	0	0	0	0
Krishnanagar	32.2	+0.3	35.0	3,14	24.0	+1.2	19.5	24	24.2	116.8	+9.1	36.0	28	8	+3.0	3.6	2.9	0	0	13	0	0	6	0	0	0	0	0	0
Purulia	31.0	+0.1	32.9	3	21.1	—1.0	15.8	24	80.8	102.4	+28.5	20.4	19	9	+4.6	6.6	4.7	+0.9	0	9	0	0	6	0	0	0	0	0	0
Bankura	32.1	..	34.6	4	22.9	..	17.1	24	140.4	165.0	+85.7	33.8	27	9	+4.5	4.7	4.2	..	0	12	0	0	0	0	0	0	0	0	0
Burdwan	32.2	+0.5	34.5	3	..	..	..	..	23.0	95.1	+11.3	31.5	11	7	+2.6	7.3	5.6	+3.5	0	9	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome).	31.3	..	33.7	18	24.3	..	19.9	24	127.6	146.5	..	47.0	5	9	..	..	..	..	0	11	0	0	11	3	0	0	0	0	0
Calcutta (Dum Dum).	31·5	+0.2	34 0	3	24.4	+0.6	19.5	24	93.1	131.7	—7.2	30.2	3	8	+1.1	7.6	4.7	—0.4	2	10	0	0	9	2	0	0	0	0	0
Calcutta	31.7	—0.1	34.0	17	24.9	+1.7	20.0	24	62.6	90.4	—23.4	21.0	7	11	+4.8	9.3	5.5	+2.1	2	13	0	0	8	1	0	0	0	0	0
Midnapore	31.4	—0.3	33.8	3	23.7	+0.7	16.8	24	73.6	104.8	+8.3	48.4	19	7	+1.4	6.7	4.4	+2.1	0	8	0	0	2	0	0	0	0	0	0
Contai	30.9	—0.1	33.0	14	24.5	—0.1	19.3	24	68.2	197.6	—41.2	48.4	22	9	+0.3	6.7	4.9	+0.4	0	10	0	0	0	0	0	0	0	0	0

(c) Total for 28 days. (d) Mean or total for 27 days. (g) Total for 24 days. (h) mean of 23 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBOR, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0. mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd.*)																													
Sugar Island	30.0	−0.4	32.1	15	25.5	+0.9	22.5	24	83.2	203.6	−1.4	48.0	22	7	−0.5	14.5	14.4	+5.1	0	10	0	0	9	0	0	0	0	0	0
Sandheads	31.5	..	33.9	17	25.0	..	18.5	16	60.0	141.6	+21.0	29.2	4	9	+3.3	..	..	..	0	11	0	0	2	0	0	0	0	0	0
Orissa																													
Baripada	32.2	..	33.9	3	22.4	..	16.3	24	96.1	148.5	..	82.3	20	7	..	4.5	2.5	..	1	7	0	0	9	1	0	0	0	0	0
Jharsuguda	32.4	+1.3	34.6	5,6	22.0	+0.2	16.5	25	24.8	28.7	−51.4	17.7	22	2	−3.4	7.1	5.3	−0.8	0	4	0	0	4	1	0	0	0	0	0
Keonjhargarh	29.7	..	32.4	9	20.5	..	15.3	25	14.7	36.1	..	9.3	19	5	..	6.7	4.4	..	0	9	0	0	0	0	0	0	0	0	0
Balasore	31.5	+0.2	33.4	6,15	22.6	−0.3	17.3	24	96.5	158.8	−4.5	31.7	19	9	+2.6	7.6	5.5	+2.6	0	12	0	0	11	0	0	0	0	0	0
Sambalpur	32.1	+0.5	35.8	4	18.0	−3.9	11.5	25	20.5	20.5	−33.9	7.5	10	3	−0.5	4.7	3.9	+0.2	3	0	0	0	0	0	0	0	0	0	0
Angul	31.6	+0.2	33.3	7,15	23.4	+1.4	19.0	25	20.7	41.9	−58.2	22.4	19	5	−0.7	(a) 7.3	(b) 6.5	+1.5	6	2	0	0	4	3	0	0	0	0	0
Cuttack	33.0	+0.9	35.0	15	23.8	+0.2	20.0	25	30.1	78.3	−57.3	39.4	19	8	+1.7	6.5	4.4	+2.3	9	0	0	0	3	0	0	0	0	0	0
Chandbali	31.4	+0.3	33.4	15	23.3	−0.4	18.0	25	62.1	162.3	−31.5	60.0	6	9	+0.7	7.6	5.4	−0.6	9	2	0	0	2	2	0	0	0	0	0
Bolangir	31.8	..	34.0	5	23.5	..	17.0	25	7.6	66.0	..	41.2	19	4	..	5.5	4.9	..	0	5	0	0	5	0	0	0	0	0	0
Phulbani	29.7	..	31.4	5,14	20.4	..	13.9	25	39.9	76.3	..	23.2	10	7	..	2.3	1.0	..	0	9	0	0	1	10	0	0	0	0	0
Titlagarh	31.8	..	33.5	5	23.0	..	19.8	7	41.0	110.8	..	58.0	19	5	..	4.0	2.6	..	0	5	0	0	0	0	0	0	0	0	0
Bhubaneswar	31.7	+0.8	33.5	15	23.3	+0.2	17.9	25	54.9	80.0	−185.8	42.1	19	7	−2.7	12.4	9.0	+0.5	0	10	0	0	7	0	0	0	0	0	0
Puri	31.5	+0.1	33.8	15	24.0	−1.0	20.8	25	38.2	115.2	−67.9	35.6	19	5	−2.3	12.4	11.9	+1.6	0	5	0	0	2	0	0	0	0	0	0
Gopalpur	31.4	+0.2	33.4	15,16, 18	23.9	+0.2	19.9	24	54.4	96.6	−121.8	52.0	19	7	+0.1	13.7	10.9	+1.7	0	7	0	0	4	2	0	0	0	0	0
Koraput (R)																													
Bihar Plateau																													
Dumka	31.3	+0.1	34.0	4	22.3	+0.8	16.4	24	62.6	80.2	−16.6	24.4	3	8	+3.4	12.4	8.2	+6.3	0	10	0	0	2	0	0	0	0	0	0
Daltonganj	31.5	−0.2	33.8	2,8	20.7	+1.5	14.4	31	10.0	47.9	−1.1	27.2	21	3	−0.2	5.3	3.6	+0.4	0	4	0	0	0	0	0	0	0	0	0
Hazaribagh	27.9	−0.8	30.8	4	19.4	+0.2	12.5	31	32.4	72.3	−6.4	22.8	21	5	+0.4	11.1	7.9	+1.0	0	8	0	0	3	2	0	0	0	0	0
Dhanbad	30.9	..	33.0	4,13	22.7	..	17.3	24	57.2	100.0	..	33.8	9, 22	5	..	3.8	3.9	..	0	6	0	0	1	0	0	0	0	0	0
Ranchi	28.3	−0.1	30.5	1	19.2	+0.2	15.9	27	66.9	70.9	−8.6	33.4	11	5	+0.2	5.4	3.6	−1.1	0	5	0	0	0	0	0	0	0	0	0
Ranchi (Aerodrome)	28.3	..	31.0	4	19.4	..	14.6	24	24.6	34.1	..	12.1	11	5	..	15.1	10.5	..	0	6	0	0	1	0	0	0	0	0	0
Jamshedpur	32.2	+0.1	34.4	4	21.6	−0.1	15.7	23	48.2	74.4	−6.8	18.8	22	6	+1.8	5.2	3.0	−0.4	0	9	0	0	2	0	0	0	0	0	0
Jamshedpur (P.B.O.)	31.4	..	33.3	18	22.6	..	15.6	24	20.0	36.0	..	10.6	27	5	..	6.1	3.8	..	0	7	0	0	6	0	0	0	0	0	0
Chaibasa	31.7	+0.5	33.6	5,6	21.2	0	15.5	24	27.4	73.0	−1.4	45.0	21	4	−0.4	3.3	1.9	0	0	6	0	0	4	0	0	0	0	0	0
Bihar Plains																													
Motihari	32.2	+1.0	33.9	5,6	21.9	+1.2	14.9	23	56.4	(a) 58.4	..	..	..	..	..	(a) 4.4	(a) 2.4	−0.3	..	..	0	0	0	0	0	0	0	0	0
Forbesganj	32.1	..	34.5	4,5	22.3	..	17.3	30	1.2	2.8	..	1.6	8	0	..	6.0	3.9	..	0	2	0	0	0	2	0	0	0	0	0
Darbhanga	32.7	+1.5	35.0	5	23.0	+1.0	18.2	31	19.2	51.1	−7.3	21.9	9	4	+1.5	3.7	3.3	+1.2	0	6	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	144.0	+82.8	64.2	10	5	+2.5	..	..	..	1	5	0	0	0	0	0	0	0	0	0
Chapra	32.3	..	34.8	5	23.7	..	18.8	31	0	104.6	+51.0	60.6	10	3	+0.5	2.5	3.0	..	0	4	0	0	2	0	0	0	0	0	0
Purnea	31.9	+0.8	41.3	14	22.1	+0.5	15.3	31	14.4	51.4	−30.4	24.4	5	4	+0.6	5.3	3.4	+1.3	0	7	0	0	1	0	0	0	0	0	0
Patna	32.4	+1.0	35.8	6	24.1	+1.4	18.0	31	71.4	222.4	+164.0	125.2	9	2	−0.9	5.2	5.3	+2.1	0	5	0	0	2	0	0	0	0	0	0
Patna Aerodrome	31.4	..	34.3	6	22.1	..	16.4	31	37.4	283.8	..	126.8	9	4	..	..	..	..	0	4	0	0	3	1	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	49.8	−11.7	43.2	9	2	−1.0	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Bhagalpur	32.5	+0.7	35.5	4	24.0	+0.9	18.7	31	84.4	95.3	+16.5	47.0	11	3	−0.5	6.5	4.9	+0.3	0	5	0	0	6	1	0	0	0	0	0
Sabaur	32.4	+1.2	35.0	1,3	22.3	+0.6	16.0	31	55.4	66.2	−13.6	23.2	9	5	+2.1	7.2	4.2	+0.2	0	6	0	0	6	0	0	0	0	0	0
Jamui	32.2	..	35.4	20	23.2	..	17.5	31	12.0	153.4	..	66.0	10	5	..	5.7	3.5	..	0	5	0	0	0	0	0	0	0	0	0
Dehri	31.4	..	33.6	1	23.1	..	17.8	31	10.0	50.3	+0.8	15.2	2	4	+1.4	5.2	3.4	..	0	5	0	0	0	0	0	0	0	0	0
Gaya	31.4	0	34.1	1	22.3	+1.2	15.7	31	29.0	54.1	+5.3	21.9	9	4	+1.1	8.2	5.0	+0.7	0	5	0	0	4	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri	33.1	+1.3	35.0	6	20.6	+0.7	15.0	30	6.4	6.4	−85.7	6.4	3	1	−1.3	3.6	2.0	+0.1	0	1	0	0	0	0	0	0	0	0	0
Baharaich	33.4	+1.1	35.0	6,20	21.4	+1.2	14.7	30	23.6	52.4	+12.3	28.6	1	2	+0.3	6.0	3.0	+0.7	0	2	0	0	0	0	0	0	0	0	0
Nautanwa	33.0	..	35.0	5	20.1	..	15.2	30	2.0	7.8	..	4.4	7	1	..	3.5	2.5	..	0	3	0	0	0	0	0	0	0	0	0
Hardoi	33.5	+1.2	35.2	9	19.0	−0.7	11.9	31	0	0	−112.0	0	..	0	−2.6	4.5	4.3	+0.6	0	0	0	0	0	0	0	0	0	0	0
Gonda	33.1	+0.4	35.1	28	20.4	+0.7	13.8	31	0	0	−45.5	0	..	0	−1.7	3.4	3.0	−0.2	0	0	0	0	0	0	0	0	0	0	0
Lucknow	33.0	0	34.0	5 days	19.5	+0.3	13.4	31	39.4	39.4	+6.9	39.4	3	1	−0.7	3.4	2.4	+0.6	0	1	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	33.3	+0.3	34.8	8	17.8	+0.1	11.0	31	13.4	13.4	−19.1	13.4	30	1	−0.7	8.9	5.6	..	0	1	0	0	0	0	0	0	0	0	0
Faizabad	33.5	..	35.0	28	20.7	..	13.7	31	17.0	28.3	..	10.8	3	4	.	3.5	3.5	..	0	0	0	0	3	0	0	0	0	0	0
Gorakhpur	34.4	+2.7	37.0	27	21.9	+1.1	15.5	31	15.2	15.2	−60.2	15.2	2	1	−1.3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	33.3	+0.4	35.1	16	20.7	+1.8	14.7	31	0	0	−33.0	0	..	0	−1.5	13.0	7.8	+2.2	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	33.5	..	35.1	12	20.3	..	12.6	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received. (a) Mean or Total for 30. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Sultanpur	3.2	..	35.0	28	20.5	..	13.9	31	40.0	40.0	..	29.2	3	2	..	3 0	2.3	..	0	2	0	0	2	0	0	0	0	0	0
Azamgarh	3.4	..	35.4	13	21.7	..	15.3	31	34.4	44.0	..	34.4	3	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Fatehpur	33.6	0	35.0	13	19.8	+0.6	12 5	3	0	0	—22.6	0	..	0	—1.4	6·8	3·1	+0 5	0	0	0	0	2	0	0	0	0	0	0
Ballia	32.4	..	34.5	6	20.2	..	14.5	24,31	18.4	42.6	..	18.4	22	4	..	4·6	3·2	..	0	4	0	0	0	0	0	0	0	0	0
Banda	34.4	..	36.4	16	20.5	..	13.8	26	0	33.9	..	26.8	1	2	..	2·5	1 3	..	0	2	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli).	33.6	+1.2	36.2	6	20.8	+1.3	13.8	31	5.8	14.6	—44.8	14.6	2	1	—1.5	5 1	3·1	—0.9	0	1	0	0	2	0	0	0	0	0	0
Varanasi (Babatpur).	32.9	+0.9	34.6	28	21.3	+0.4	14.0	31	46.1	53.3	+15·7	36.0	2	4	+1.8	8·0	5·6	—0.6	0	5	0	0	2	0	0	0	0	0	0
Varanasi	33.1	+0.6	34.4	2	20.4	+0.4	13.4	31	7.2	7.2	—48.2	7.2	3	1	—1.2	5 9	4·4	+1. 2	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	23·5	..	25·8	31	13·2	..	11·1	24	0	0	..	0	..	0	..	..	..	.	0	0	0	0	0	0	0	0	0	0	0
Tehri	31·9	..	33·4	9,10	15·2	..	10·1	31	0	0·4	..	0·4	1	0	..	2·6	1·2	..	0	1	0	0	0	0	0	0	0	0	0
Dehra Dun	29.9	+1.6	32.4	6	15.5	—0 2	11.0	31	0	0	—32·0	0	..	0	—1.6	4.5	3.5	+0.4	0	0	0	0	0	0	0	0	0	0	0
Mansiari	20·3	..	21·6	4	..	..	..	..	..	20·4	..	15 8	10	2	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Roorkee	32.1	+0.9	33.4	21	18·3	+2.0	12.0	30,31	0	0	—21·3	0	..	0	—0.9	4.4	2·8	+0. 9	0	0	0	0	0	0	0	0	0	0	0
Najibabad	32.9	..	34.3	28	15.7	..	11.9	31	0	0	..	0	..	0	..	4.3	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Meerut	33.5	+1.0	35.0	4, 28,	17.7	+0.7	10.9	31	0	0	—20·6	0	..	0	—0.9	..	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	33.9	+1·8	35.5	19,28	18.8	0	13.3	31	0	14.0	—18·3	14.0	3	1	+0.1	7.4	5·0	+3.4	0	1	0	0	0	0	0	0	0	0	0
Aligarh	31·8	—2.1	33.6	7,12	18.9	+0.1	12.7	30	0	0	—7·9	0	..	0	—0.3	9.1	6·4	+1.4	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	34.0	0	35.9	9	..	..	..	..	0	0	—24.1	0	..	0	—1.0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Agra	33.3	—0.5	35.5	7	18.8	+0.4	12.3	31	0	0	—18.0	0	..	0	—0.8	2.5	2.6	—1·3	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrame).	33.3	..	35.6	7	17.5	..	11·1	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Orai (R)																													
Jhansi	33.7	—0.2	35.7	8	18.5	—0.8	12.4	31	0	0	—25.1	0	..	0	—1.1	3.7	3·6	—0.3	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	31.8	+1.0	33.5	3,4	14.7	—2.2	8.7	31	0	0	—115.3	0	..	0	—2.8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar (Rajasansi)	32.9	+0.9	35.5	7	15.1	—1.5	9.6	26,30, 31	0	0	—41.8	0	..	0	—1.4	7.4	5.4	—0.9	0	0	0	0	0	0	0	0	0	0	0
Adampur (Aerodrome)	32.6	..	34.7	10	14.0	..	7.2	31	0	0	..	0	..	0	..	.	..	..	0	0	0	0	0	0	0	0	0	0	0
Ludhiana	33.6	+0.1	35.5	11	16.0	—1.3	9 4	31	0	0	—10·9	0	..	0	—0.7	2.6	2·4	+0.8	0	0	0	0	0	0	0	0	0	0	0
Ferozepur	32.9	..	36.2	7	15.5	..	10.0	30,31	0	0	..	0	..	0	..	2 5	1 9	..	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome).	32.4	..	34.5	7	14.2	.	7.8	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chandigarh	31.9	+1.2	33.5	1	17.8	+1.2	12.9	31	0	0	—81.9	0	..	0	—3.6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	33.4	+0.2	35.2	8	17.6	+0.9	12.2	31	0	0	—22.1	0	..	0	—0.9	2.5	5.0	+1·9	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome).	31.6	..	33.6	26	15.5	..	10.7	29	0	0	..	0	.	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	33.3	..	35.1	11	17.4	..	11.7	31	0	0	—1.8	0	..	0	—0.3	8.3	8.0	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	34.1	..	37.4	6,7	14.8	..	7.9	31	0	0	..	0	..	0	..	1.7	1.3	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	31.6	..	33.0	3,4,8	13.3	..	11.4	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	34.2	—0.6	36.7	6	16.2	—1.1	9.8	27	0	0	—15.5	0	..	0	—0.6	6.1	5.1	0	0	0	0	0	0	0	0	0	0	0	0
New Delhi (Safdarjung)	32.7	—0.6	34.4	12	18.1	—0.4	12.5	31	0	0	—10.2	0	..	0	—0.6	12.5	7·8	+2.0	0	0	0	0	0	0	0	0	0	0	0
Palam (Aerodrom).	32.8	..	34.8	12	16.9	..	9.9	30	0	0	.	0	..	0	..	.	.	..	0	0	0	0	0	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	30·2	+2·3	32·1	12	7·6	—5·6	4·9	4 days	0	0	—88·6	0	..	0	—5·0	2·9	2.0	0	0	0	0	0	0	0	0	0	0	0	0
Bilaspur	31·0	..	34·0	12	7·6	..	4·5	19	0	0	..	0	..	0	..	3·9	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	0	—19·6	0	..	0	—1·9	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Sonamerg (R)																													
Leh	17·7	+3·1	23·6	8	—2·6	+1.8	—5.7	29	0	0	—2·5	0	..	0	—0·3	5·4	4·9	+1·8	0	0	0	0	0	0	0	0	0	0	0
Srinagar	24·6	+1·1	29·0	6,7,9	5·7	+0·9	1·3	31	0	0	—29·7	0	..	0	—2·8	3·8	3.7	+0.5	0	0	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome).	22·7	..	27·0	6	6·9	..	2·8	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA—9, KARTIKA 9,—1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir—*Contd.*																													
Gulmarg									Closed during winter months																				
Qazigund	22·9	..	27·6	1	5·5	..	1·9	31	0	0	..	0	..	0	..	4·9	4·5	..	0	0	0	0	0	0		0	0	0	0
Banihal	24·9	..	30·1	7	6·6	..	2·3	30,31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Jammu	33·0	+1·8	35·2	6	18·2	−1·4	13·2	31	0	0	−15.5	0	..	0	−1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome).	31·9	..	35·8	10	17·8	..	12·8	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	35·3	+0·8	38·4	1	16·2	−2·1	9·4	30	0	0·6	3·1	0·6	1	0	−0·6	2·6	2·0	−1·3	0	1	0	0	0	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	35·2	..	38·3	1	..	..	..	..	0	0	..	0	..	0	..	5·9	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Churu	34·4	..	37·7	6	15·9	..	8·1	29	0	0	..	0	..	0	..	8·1	5·0	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	36·0	0	39·2	6	16·2	−2·9	7·6	30	0	0	−5·3	0	..	0	−0·4	6·0	2·9	−3·2	0	0	0	0	0	0	0	0	0	0	0
Nagaur	35·2	..	39·5	5	17·0	..	10·0	25	0	0	..	0	..	0	..	6·0	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	35·7	..	36·8	18	16·9	..	11·6	27	0	0	−2·0	0	.	0	−0·1	9·7	8.3	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	35·9	..	40·0	1	18·3	..	11·0	27	0	0	..	0	..	0	..	10·8	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	36·6	+1·3	40·6	2	19·3	+0·7	12·8	26	0	3·8	−4·3	3·8	14	1	+0·5	7·5	6·7	−1·0	0	1	0	0	0	0	0	0	0	0	0
Barmer	36·5	+0·3	40·6	5	21·3	0	16·6	23	0	0	−2·5	0	..	0	−0·5	4·6	4·2	−3·4	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam.)	35·1	..	37·0	2,3	20.5	..	10·0	26	3.5	3.5	..	3.5	14	1	..	2·6	1·8	..	0	1	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani (R)	..																												
Sikar	33·5	..	36·6	6,7	14·8	..	5·4	31	0	0·5	..	0·5	13	0	..	5.0	4·7	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	33·8	..	36·0	6	18·0	..	12·2	31	0	0	..	0	..	0	..	2·9	1.3	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	33·8	−0·5	36·3	7	18·2	+0·3	12·2	29	0	0	−12·2	0	..	0	−0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	34·2	..	37·5	7	17·3	..	10·7	31	0	0	..	0	..	0	..	3·3	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	34·3	+1·2	36·9	6	17·4	−0·7	11·4	26	2.4	3·8	−5·9	2.4	15	0	−0·7	4·8	3·2	−0·2	0	2	0	0	0	0	0	0	0	0	0
Tonk	34·9	..	36·9	6	17·0	..	9·8	26	0	0	..	0	..	0	..	5·7	4·6	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	34·2	..	36·2	2	18·1	..	13·2	24	0	0	..	0	..	0	..	5·1	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	34·8	..	37·2	6	20·5	..	14·3	26	0	0	..	0	..	0	..	6·6	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Kota	35·0	+0·2	36·6	2	22·8	+1·5	19·0	24	0	0	−16·5	0	..	0	−1·0	5·1	3·3	+0·9	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	34·7	..	36·6	8	19·0	..	12·2	26	0	0	.	0	..	0	..	6·0	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	33·3	+0·1	35·2	3,6	16·2	−1·4	10·2	26	0	0	−14·5	0	..	0	−1·1	3·3	1·4	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	34·5	+1·2	36·5	14	18·8	+1·0	12·5	24	0	0	−14·0	0	..	0	−1·5	5·5	2·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	32·8	−0·7	34·7	7	16·8	−1·1	10·0	30	0	0	−8·4	0	..	0	−0·6	7·5	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	33·8	+0·9	36·0	7	17·7	−0·7	11·4	24,26	0	0	−39·3	0	..	0	−1.4	7·1	5·3	+0.4	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	32·5	..	34·8	7	15·1	..	9·0	25	0	0	..	0	..	0	..	4·7	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Nawgong	33·7	+1·1	36·2	8	18·0	−0·2	11·3	30	0	0	−28.7	0	..	1	−1·5	4·8	2·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Guna	33·5	+1·5	35·1	13,14, 16	16·0	−0·8	9·1	25,26	0	0	−26·7	0	..	0	−1·6	8·7	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	33·6	+0.8	35·2	3,8,15	19·4	+1·3	13·9	27	0	0	−15·7	0	..	0	−0·9	7·6	6·6	+0·3	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	33·7	..	35·9	13	17·7	..	9·1	26	0	0	..	0	..	0	..	7·3	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	31·5	+0·3	33·2	16	20·7	+1·9	15·1	27		0	−27·7	0	..	0	−1·9	5·7	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	33·6	+1·3	35·1	17	18·6	−0·5	13·4	26	0	0	−48·1	0	..	0	−2·0	8·0	6·0	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh).	32·4	+1·3	34·6	13	18·3	+0·5	12·6	26	0	0·3	−41·9	0·3	16	0	−2·4	9·2	6·6	+1·3	0	1	0	0	0	0	0	0	0	0	0
Ujjain	33·1	..	34·5	4days	16·7	..	9·1	27	0	0	..	0	..	0	..	7·5	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Narsinghpur	32.7	..	34·8	16	18·3	.	9·8	26	8·0	8·0	..	8·0	2	1	..	4·9	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Hoshangabad	33·8	+1·7	35·1	13,14, 16	20·9	+1·6	14·5	27	0	0	−32·5	0	..	0	−2·0	3·3	2·4	+0·3	0	0	0	0	0	0	0	0	0	0	0
Indore	32·3	+0·8	34·0	16	18·2	+1·4	12·8	27	9·8	15·2	−15·5	12·0	16	2	0	10·0	7·7	..	1	2	0	0	1	0	0	0	0	0	0
Rajpur (Jhabua)	34·0	..	35·8	18	18·9	..	11·0	27	0	0	..	0	..	0	..	6·0	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	30·9	+1·5	32·9	14	18·3	+0·7	10·5	26	14·2	51·2	−17·9	34·4	1	2	−2·3	6·6	3·6	−0·7	0	4	0	0	3	0	0	0	0	0	0
Seoni	31·0	+0·8	32·6	8	19·5	+1·7	13·3	26	19·1	20·5	−37·2	19·3	4	1	−2·1	9·5	5·7	+1·8	0	2	0	0	2	0	0	0	0	0	0
Betul	30·4	+1·1	32·3	23	17·8	+0·6	9·3	26	4·1	4·1	−58.6	3·3	3	1	−3·0	6·1	3·0	−1·1	0	2	0	0	0	0	0	0	0	0	0
Khandwa	35·0	+1·4	36·8	16	19·8	+0·9	10·9	26	0	27·2	−8·1	27.2	29	1	−1·0	7·7	4·7	+0·5	0	1	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	32·0	+0·7	33·4	8,16	20·6	+1·8	13·7	31	0	25·7	−23·3	25·7	2	1	−1·2	2·8	3·0	−0·4	0	1	0	0	2	0	0	0	0	0	0

(R) Register not received.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Pradesh (East)—(*Contd.*)																													
Sidhi	32·8	..	34·4	6	20·2	..	12·2	31	31·2	58·2	..	52·0	9	2	..	5·7	3·1	..	0	2	0	0	0	0	0	0	0	0	0
Umaria	31·1	+0·7	32·6	17	19·0	+1·7	11·9	31	7·6	23·7	—39·0	10·1	22	3	+0·3	4·8	2·5	—0·4	0	4	0	0	1	0	0	0	0	0	0
Jabalpur	32·1	+1·1	33·5	14,17	20·2	+2·7	13·2	26	0	4·2	—43·5	4·0	1	1	—1·3	6·2	3·3	+1·0	1	1	0	0	0	1	0	0	0	0	0
Ambikapur	29·3	+0·3	31·3	3,4	18·5	+0·5	11·6	31	42·8	61·0	+13·8	26·2	21	4	—0·3	10·2	5·5	—1·2	0	5	0	0	0	3	0	0	0	0	0
Pendra	28·8	+0·4	30·8	5	19·6	+1·8	13·7	31	68·0	147·4	+71·5	69·6	21	5	+0·9	6·8	4·9	..	0	5	0	0	2	0	0	0	0	0	0
Mandla	31·1	+0·6	32·5	16,30	19·0	+1·4	10·6	31	2·6	5·4	—60·1	2·2	5	0	—3·7	5·5	3·2	+1·1	0	4	0	0	5	5	0	0	0	0	0
Champa	31·8	+0·5	33·7	5,13	21·5	—0·3	16·3	25	17·4	82·6	+23·1	68·4	20	3	—1·6	5·7	4·8	—0·2	0	4	0	0	0	0	0	0	0	0	0
Raigarh	32·4	+0·5	34·4	5,7	22·4	+0·1	17·0	25	17·6	42·0	—14·9	22·8	21	4	—0·3	5·5	4·1	—0·3	0	6	0	0	2	0	0	0	0	0	0
Raipur	30·9	+0·5	32·6	10	22·3	+1·4	16·9	25	99·3	169·6	+114·5	118 6	20	6	+2·7	6·5	4·8	—0·7	0	8	0	0	7	0	0	0	0	0	0
Kanker	30·3	0	32·2	3,17	21·5	+1·9	16·0	26	52·0	146·0	+33·2	53·5	20	8	+2·7	5·3	3·9	+0·2	0	8	0	0	4	0	0	0	0	0	0
Jagdalpur	29·9	+0·2	31·7	4	20·8	+1·4	16·5	26	84·0	163·1	+52·4	32·0	7	11	+5·3	5·5	3·3	..	2	15	0	0	11	6	0	0	0	1	0
Gujarat Region																													
Deesa	37·0	..	39·8	4	..	.	..	..	0	0	..	0	..	0	.	7·8	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	37·4	..	39·8	5,7	..	..	..	..	0	0	..	0	..	0	.	2·9	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Idar	35·5	..	36·8	9,17	20·3	..	13·7	22	0	0	.	0	..	0	..	6·8	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	36·2	0	38·0	3	19·7	—1·1	13·5	27	0	0	—8·9	0	..	0	—0·7	5·7	3·4	—1·4	0	0	0	0	0	0	0	0	0	0	0
Dohad	34·5	+1·0	36·5	20	19·7	—0·1	14·5	27	0	0	—31·1	0	..	0	—1·6	6·3	7·3	—1·3	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidya Nagar	35·2	..	37·3	31	19·4	..	12·1	27	0	0	..	0	..	0		6·8	4·5	.	0	0	0	0	0	1	0	0	0	0	0
Baroda Aerodrome	36·1	..	38·2	3,31	19·8	..	13·1	27	0	0	..	0	..	0	..	2·4	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	36·2	+1·0	38·1	3,31	21·0	+1·2	13·9	27	0	0	—29·2	0	..	0	—1·5	1·8	0·8	—1·8	0	0	0	0	0	0	0	0	0	0	0
Broach	36·8	+0·9	39 0	10	21·8	—0·3	15·0	27	0	9	—55·7	0	..	0	—2·5	4·7	3·3	—1·9	0	0	0	0	0	3	0	0	0	0	0
Surat	35·9	+1·4	38·8	18	23·3	+1·0	18·6	27	0	0	—38 3	0	..	0	—2 0	6·7	(a) 6·0	+1·8	0	0	0	0	0	1	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	34·5	..	38·1	4	16·8	..	11·2	27	0	0	..	0	..	0	..	8·5	4·6	.	0	0	0	0	0	3	0	0	0	0	0
Bhuj (Rudramata)	36·2	+0·6	39·8	1	19·4	—2·0	14·2	28	0	0	—8·4	0	..	0	—0·5	10·5	8·6	—1·1	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	36·2	..	39·4	5	..	..	..	..	0	0	..	0	..	0	..	15·2	15·6	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	34·6	..	40·7	2	22·7	..	18·9	28	0	0	..	0	..	0	..	11·5	12·4	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	32·0	+0·1	37·0	5	21·2	—1·6	17·3	24,27	0	0	—13 4	0	..	0	—1·5	19·7	17·6	+0·7	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	36·1	+1·3	38·4	4	22·4	0	16·4	27	0	0	—24·3	0	..	0	—1·9	7·7	7·5	—0·6	0	0	0	0	0	0	0	0	0	0	0
Okha	29·0	..	32·4	28	23·2	..	20·4	28	0	0	..	0	..	0	..	12·9	12·6	..	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	33·2	—1·4	36·2	18	19·6	—1·4	15·0	28	0	0	—7·9	0	..	0	—0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	30·3	—0·4	35·7	26	22·8	—1·4	17·8	28	0	0	—6·3	0	..	0	0·3	11·5	8·9	—2·2	0	0	0	0	0	0	0	0	0	0	0
Rajkot	35·6	+1·1	37·7	4,5	19·3	—1.1	14·4	23	0	0	—67·2	0	..	0	—2·6	11·2	11·7	—0·4	0	0	0	0	0	3	0	0	0	0	0
Bhavnagar Aerodrome	35·1	+0·6	37·2	18	21·9	—0·3	16·8	21	0	0	—22·9	0	..	0	—0·9	15·4	12·5	+2·1	0	0	0	0	0	0	1	0	0	0	0
Porbander Aerodrome	32·8	+0·3	36·5	18	20·4	—2·8	15·7	28	0	0	—40·9	0	..	0	—1·9	14·3	9·8	..	0	0	0	0	0	1	0	0	0	0	0
Keshod	34·9	..	37·5	31	19·1	.	13·6	27	0	0	.	10·0	16	1	..	13·9	11·5	..	0	1	0	0	0	2	0	0	0	0	0
Mahuva	35·4	.	38·0	12,18	19·9	..	15·1	22	0	0	..	0	..	0	..	7·8	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	32·3	..	37·3	18	20 4	..	16·0	28	0	0	—15·7	0	..	0	0·8	17 6 (C)	14 2	.	0	0	0	0	0	1	0	0	0	0	0
Konkan																													
Dahanu	31·4	—0 3	34·2	27	23·3	+0·3	18·8	27,28	0	4·2	—56·8	4·2	16	1	—1·8	15·5	11·4	+0·8	0	1	0	0	0	0	0	0	0	0	0
Bombay (Santa-Cruz).	32·1	+0·3	35·4	26	22·4	+0·3	17·1	28	0·4	59·3	+3·5	54.1	1	2	—2·0	11·3	6·8	..	0	3	0	0	4	1	0	0	0	2	0
Bombay	31·2	—0·4	34·0	17,28	24 7	+0 5	22·4	27,28	2 2	114·9	+50·4	112·1	1	1	—2·1	10·5	8·1	—1·7	0	3	0	0	2	0	0	0	0	2	0
Alibag	30·4	—1·0	33·6	27	23·4	—0·2	19·2	27	..	311·6	+183·8	309·8	1	1	—4·1	..	8·4	0	0	3	0	0	4	0	0	0	0	0	0
Bhira	34·1	..	37·0	17	21·6	.	16·5	28	53·8	134·4	..	59·4	1	6	..	3·2	1 5	..	0	11	0	0	2	5	0	0	0	0	0
Harnai	29·6	—0·5	33·6	16	24·6	+0·1	22·5	28	1·4	210·8	+118·6	182·2	1	3	—1·1	13·8	10·9	+0·6	1	5	0	0	7	0	0	0	0	0	0
Ratnagiri	29·9	..	33·7	28	22·4	..	19·2	27	21·6	426·8	+316·8	199·2	1	6	+0·6	9·8	6·8	.	0	8	0	0	1	0	0	0	0	0	0
Devgarh	29·1	—1·5	31·5	31	23·9	—0·3	21·4	27	24·0	264·2	+136·8	118·6	4	6	—0·5	14·3	12·0	+1·5	0	6	0	0	5	0	0	0	0	0	0
Vengurla	29·4	—1·6	31·3	27	23·2	—0·1	20·5	27	28·3	244·4	+105·8	121·4	3	8	—0·3	..	..	..	1	11	0	0	13	6	0	0	0	0	0
Panjim	29·6	..	31·6	25	22·5	..	20·7	9,12	20·8	245·0	..	66·3	4	8	.	10·8	8·4	..	1	11	0	0	9	7	0	0	0	0	0
Mormugao	28·4	..	30·8	25	23·4	..	21·4	9	18·1	198·4	..	50·2	2	7	..	13·1	11·5	..	3	10	0	0	8	3	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	35·8	..	38·2	18	22·9	..	15·1	27	12·2	12.2	..	12·2	11	1	..	5·7	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	35·2	+1·1	36·8	17	19·7	+0·4	9 5	27	0	14·2	—23·3	14·2	1	1	—0·8	9·5	7·6	+1·0	0	1	0	0	4	0	0	0	0	0	0
Malegaon	34·0	+0·8	40·9	31	19·0	+0·2	10·9	27	2 6	25·2	—18·2	12·0	1	3	+0·3	7·8	6·1	—0·2	0	4	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days,

(C) Mean of 28 days

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madhya Maharashtra—(*Contd.*)																														
Deolali (Aerodrome)	32·1	..	34·3	31	18·5	..	10·0	27	10·9	66·3	..	25·4	1	7	..	8·1	5·2	..	0	7	0	0	6	2	0	0	0	0	0
Ahmadnagar	33·3	+1·9	35·4	18	..	..	..	..	6.5	31.1	−24·0	23.0	1	3	−0·4	9·4	6·2	−1·5	0	4	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	.	..	..	..	82.9	−97.2	41.2	1	5	−1.3	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	32·1	..	33·9	18,31	19·6	..	12·7	27	12.2	85.1	..	54.4	1	5	..	..	..	..	0	7	0	0	8	0	0	0	0	1	0
Poona	31·6	+0·8	33·3	25,31	17·9	−0·7	9·9	28	13.4	69·8	−20.1	45·0	1	3	−2·1	5·9	3·7	..		4	0	0	5	2	0	0	0	0	0
Jeur	32·9	+1·1	34·8	18,23	19.5	−0·1	11·7	27	5.4	30·4	−52·6	13·0	1	4	−0·6	8·1	5·9	−1·1	0	6	0	0	5	0	0	0	0	0	0
Baramati	32·5	+0·9	34·3	24 18	20·4	+0·7	14·3	27	4·0	90.6	−4·0	40.0	3	4	−1·1	8·1	6·9	−1.3	0	4	0	0	5	0	1	0	0	0	0
Sholapur	32·5	−0·1	35·1	23	20·8	+0·4	15·7	27	10.0	54·7	−22·5	24·9	4	6	+1·7	11·0	7·4	−2·1	0	6	0	0	0	0	0	0	0	0	0
Miraj	31·2	+0·7	33·6	24	20·2	0	14·7	27,28	65.2	138·2	+33·5	26·6	2	10	+3·6	.. (i)	.. (j)	..	1	11	0	0	14	5	0	0	0	0	0
Kolhapur	31·0	+0·5	34·1	31	20·2	+0·3	15·2	28	9·9	94·9	−37·7	25·6	1	5	−2·9	9·7	8·4	−0·5	0	11	0	0	4	0	0	0	0	0	0
Marathwada																														
Aurangabad	33·3	+1·2	34·8	22	20·0	+0·6	13·3	27	6·0	26.6	−18·9	17·0	1	3	+0·2	8·7	6·6	−1·3	1	5	0	0	2	0	0	0	0	0	0
Aurangabad (Chikalthan)	32·8	..	34·6	22	17·9	..	8·8	27	3.4	15·8	..	7·9	13	2	..	8·1	4·5	..	0	5	0	0	1	0	0	0	0	0	0
Parbhani	32·7	+0·5	34·6	23	19·9	+0·5	14·0	26,27	8·2	8·2	−48·1	8·2	3	1	−2.4	9.3	5·8	−0·9	0	1	0	0	1	0	0	0	0	0	0
Nander	33·8	..	35·6	18,23	20·2	..	13·3	26	0.6	3·7	..	1·8	3	0	..	4·7	3·7	..	0	3	0	0	0	0	0	0	0	0	0
Bir	33·3	..	34·9	9	19·6	..	11·5	27	..	36·9	..	18.0	13	2	..	7·5	3·8	..	0	4	0	0	0	0	0	0	0	0	0
Vidarbha																														
Gondia	32·1	+0·9	33·5	17	22·2	+1·2	17.0	25	40·8	74.1	+5·6	40.4	4	3	−0·9	0·4	0·1	−3·1	1	4	0	0	4	0	0	0	0	0	0
Nagpur Sonegaon)	32·5	+0·4	34·1	17	21·0	+1·3	14·0	26	10·7	14·3	−40·8	9·9	5	2	−1·1	9·4	6·8	..	0	4	0	0	5	0	0	0	0	0	0
Amraoti	33·7	+1·0	35·5	17,22	21·7	+1·3	16·3	26	20·0	37·0	−11·5	20·2	4	2	−0·6	8·1	6·8	+1·7	0	3	0	0	2	0	0	0	0	0	0
Akola Aerodrome	33·8	..	35·7	18	19·6	..	11·2	27	6.4	35·2	..	28.8	3	2	..	7·7	5·7	..	0	3	0	0	3	0	0	0	0	0	0
Akola	34·1	+0·4	36·5	18	20·7	+1·3	12·7	26	16.5	71·7	+25·5	52.8	3	2	−0·5	5·2	3·6	−0·7	0	5	0	0	0	0	0	0	0	0	0
Bramhapuri	32·2	..	33·3	30	23·1	..	16·6	26	8 8	32·0	..	18·0	3	3	..	5·5	3·1	..	0	4	0	0	2	0	0	0	0	0	0
Buldana	31·1	+1·3	32·8	18	20·2	−0·1	15·0	27	0	34·0	−8·8	29·2	2	2	−0·7	7·9	5·3	−1·1	0	2	0	0	1	0	0	0	0	0	0
Yeotmal	31·9	+1·0	33·4	17	21·2	+1·1	16·4	26	21.4	23.0	−30·6	21·8	4	1	−2·5	8·9	6·1	−1·2	0	2	0	0	3	0	0	0	0	0	0
Chanda	31·9	−0·2	33·0	4days	22·0	+1·9	14·9	26	22.8	24·6	−27·2	12·2	5	3	+0·1	7·0	4·0	+1·3	1	5	0	0	6	0	0	0	0	0	0
Pusad	33.2	..	34.9	8,22	19.9	..	12.6	26	0	11.0	..	11·0	3	1	..	7.6	4.8	..	0	1	0	0	4	0	0	0	0	0	0
Sironcha	32·3	+0·2	34·0	23 2,31	23·1	+0·2	17·6	26	4.2	30.6	−63·7	10·2	4	4	−1·9	5·5	4·0	0	0	5	0	0	0	0	0	0	0	0	0
Costal Andhra Pradesh																														
Kalingapatnam	31·4	+0·2	33·4	6,15	24·2	−0·1	21·2	24	56.2	111·3	−88·6	47·4	19	6	−1·3	9·6	7·1	−0·5	1	8	0	0	4	0	0	0	0	0	0
Vishakhapatnam	31·2	−1·1	33·3	16,18	24·4	0	21·9	27	56.0	90·3	−108·6	27·0	9	7	−1·3	12·2	6·3	−0·5	2	8	0	0	6	0	0	0	0	0	0
Kakinada	31·7	+0·6	34·0	16,17	24·8	+0·4	22·7	28	46·8	57·8	−158·6	29·8	8	6	−2·6	9·0	6·7	−1·2	0	7	0	0	0	0	0	0	0	0	0
Nidadavole	31·5	..	34·0	12,17	24·0	..	20·6	26	82·2	88·2	..	32·0	10	7	..	4·5	4·1	..	0	9	0	0	0	0	0	0	0	0	0
Rentachintala	32·9	−0·2	35·2	22	23·5	+0·3	18·4	26	13·0	61·4	−65·3	25·0	3	5	−2·6	2·6	3·0	−3 8	0	5	0	0	4	0	0	0	0	0	0
Gannavaram	31·5	0	33·6	23	24·6	+0·4	21·1	26	22.8	58·3	−85·7	22·7	7	5	−2·8	9·6	6·3	−2·7	1	5	0	0	7	1	0	0	0	0	0
Nagarjunakonda (R)																														
Masulipatam	31·3	−0·1	33·0	31	24·3	−0·1	20.6	26	9·4	26·8	−191·6	7·4	9	4	−4·5	3·8	2·3	−3·5	0	5	0	0	5	0	0	0	0	0	0
Ongole	32·9	..	35·0	19	24·7	..	22·4	13	36·6	63·0	..	23·8	13	4	..	7·0	4·7	..	0	5	0	0	0	0	0	0	0	0	0
Nellore	33·4	+0·8	35·2	23	24·8	+0·4	23·0	27	3·2	82·8	−160·0	35·0	14	6	−2·9	7·7	5·3	+0·6	0	9	0	0	6	0	0	0	0	0	0
Telangana																														
Ramagundam	33·2	+0·6	35·6	22	23·5	+0·5	17·9	26	17.8	22·8	−58 7	15·0	7	2	−2·5	5·3	3·8	−0·6	0	5	0	0	1	0	0	0	0	0	0
Nizamabad	32·5	+0·7	34·9	23	21·7	+1·7	15·8	26	5·4	5·4	−45·4	5·4	4	1	−2·0	5·8	3·6	−0·1	0	1	0	0	0	0	0	0	0	0	0
Hanamkonda	31·9	0	35·1	23	22·4	+0·8	17·0	26	23·8	26·4	−39 9	12·2	5	2	−2·1	8·2	4·7	−0·1	0	5	0	0	3	0	0	0	0	0	0
Hakimpet (Aerodrome)	30·0	..	32·8	23	20·7	..	17·7	26	8·2	45.1	..	15·5	7	5	..	..	..	..	0	10	0	0	10	2	0	0	0	0	0
Bhadrachalam	32·6	+0·6	35·0	31	23·5	+0·5	17·0	26	41·0	59·0	−51·1	19·0	6.7	4	−3·4	4·8	3·0	−1·4	0	5	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	30·3	−0·3	32·9	23	19·5	+0·2	13.4	26	10·1	75·8	+13·6	24·9	6	7	+2·7	10·1	5·9	−2·3	0	9	0	0	4	0	0	0	0	0	0
Khammam	32·2	..	35·3	21	23·7	..	18·5	26	96·8	135·4	..	70·0	8	9	..	3·3	2·0	..	0	9	0	0	1	0	0	0	0	0	0
Mahbubnagar	30·9	..	33·6	23	21·0	..	17·5	27	27·4	71·0	..	17·8	5	8	..	..	5·3	..	0	12	0	0	4	0	0	0	0	0	0
Rayala Seema																														
Kurnool	32·1	−0·5	34·8	23	22·3	+0·2	17·6	27	12·4	25·8	−55·5	14·2	4	3	−1·9	6·7	5·7	+0·7	0	4	0	0	0	0	0	0	0	0	0
Nandyal (R)																														
Anantapur	32·0	+0·4	34·0	23	22·5	0	18·0	27	1·7	42·6	−60·7	17·8	13	5	−0·5	10·3	8·3	+0·7	0	7	0	0	4	0	0	0	0	0	0
Cuddapah	32·7	−0·6	35·1	23	23·9	+0·3	20·7	27	0	46·8	−76·6	23·2	14	3	−3·8	0·6	0·5	−5·5	0	4	0	0	0	0	0	0	0	0	0
Arogyavaram	29·1	..	30·6	22	19·7	..	17·6	14,26	2·4	70·2	..	41·4	7	3	..	9· 6	5·7	..	0	5	0	0	0	0	0	0	0	0	0

(R) Register not received. (i) Mean of 22 days (j) Mean of 21 days

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed. kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Madras State																													
Madras	32·7	..	34·9	6	24·5	..	22·0	10	..	144.0	..	45.0	10	6	..	..	5·7	..	0	9	0	0	5	0	0	0	0	0	0
Madras (Minambakkam)	33·4	+1·1	35·6	6	24·7	+0·8	22·7	31	25.5	63.6	−242.2	20.0	31	7	−3·7	10·5	7·8	−3·0	0	11	0	0	11	0	0	0	0	0	0
Vellore	32·7	+1·1	35·4	6	23·0	+0·3	19·5	10	12.0	313.2	+140.5	139.6	9	8	−1·2	5·9	5·3	+2·1	0	10	0	0	8	0	0	0	0	0	0
Tambaram (Aerodrome)	33·5	..	35·2	6	24·3	..	21·7	11	13.5	91.0	..	37.3	31	6	..	..	..	..	0	9	0	0	16	0	0	0	0	0	0
Tiruppattur	31·9	..	33·5	6,28	21·5	..	19·8	16	29.9	319.0	..	88.7	9	9	..	5·0	3·4	..	0	9	0	0	2	0	0	0	0	0	0
Mettur Dam R.S.	33·2	..	34·9	6	22·7	..	21·0	10	20.3	162.5	..	73·1	9	7	..	5·3	6·0	..	0	7	0	0	0	0	0	0	0	0	0
Cuddalore	32·6	+1·2	35·6	2	24·2	+0·2	22·0	10,12	21.8	98·0	−194·9	26·6	7	6	−4·8	9·0	7·8	−2·8	0	10	0	0	3	0	0	0	0	0	0
Kallakkurichchi	32·9	..	35·8	5	23·5	..	21·0	20	14.6	333.0	+136·7	66.6	11	9	0	5·8	5·0	..	0	12	0	0	12	0	0	0	0	0	0
Salem	32·1	0	33·1	7	23·0	+0·8	21·3	29	30·2	400.1	+236.5	87.2	9	14	+4·3	5·3	4·5	+0·6	0	17	0	0	15	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·8	..	33·0	7	21·0	..	19·3	29	79.1	239.8	..	76·2	17	13	..	18·0	16·5	..	0	15	0	0	20	1	0	0	0	0	0
Coimbatore	30·7	−0.2	32·5	21	20·9	−0·6	19·0	25	..	217.7	+57·4	54.8	9	14	+4·3	..	9·0	+4·7	0	15	0	0	9	0	0	0	0	0	0
Nagappattinam	32·4	+0·9	34·6	12	24·9	+0·2	23·0	12	57·0	57·1	−211·6	14.0	28	5	−5·2	9·5	7·9	+1·0	1	7	0	0	2	0	0	0	0	0	0
Tiruchchirapalli	33·1	+0·7	36·7	5	23·5	..	21·5	26	7·9	239.9	+56·8	52·9	19	12	+2·5	10·5	9·7	+0·5	0	15	0	0	15	0	0	0	0	0	0
Vedaranniyam	33·0	..	36·0	10	24·2	..	22·1	12	167.4	193.8	..	59.8	29	7	..	5·3	4·8	.	1	8	0	0	0	0	0	0	0	0	0
Atirampattinam	32·2	..	34·6	12	24·3	..	22·6	12	46·0	97.4	..	29·6	29	7	.	10·2	9·2	..	0	8	0	0	4	0	0	0	0	0	0
Madurai	33·5	+1·2	37·0	3,17	23·4	−0·3	21·9	8,12, 17	..	107.0	+218·5	77.0	8	14	+3·8	..	4·3	0	0	14	0	0	12	0	0	0	0	0	0
Madurai (Aerodrome)	33·0	..	36·2	3,5	23·5	.	21·2	19	17·4	351.0	..	79.0	8	11	..	8·2	8·5	.	0	16	0	0	17	0	0	0	0	0	0
Pondi	31.4	..	35·0	13	24·8	..	22·6	17	6.8	48·0	..	15.8	17	5	..	16·0	13·7	..	0	6	0	0	9	0	0	0	0	0	0
Pamban	31·7	+0·6	33·5	14	25·4	0	22·5	31	14.0	90·6	−126.1	19·2	31	6	−3·4	11·8	11·2	−0·4	0	8	0	0	4	0	0	0	0	0	0
Tuticorin	32·4	+0·5	36·8	1	24·2	−0·9	21·3	31	34.8	60·0	−62·8	22·2	31	5	−2·5	16·7	12·0	−0·3	0	5	0	0	1	0	0	0	0	0	0
Palayancottai	34·9	+1·0	37·6	8	24·5	−0·6	22·9	29	73·2	75·2	−91·4	20·8	27	7	−1·4	11.1	8·3	−0·2	0	7	0	0	0	0	0	0	0	0	0
Kanniyakumari	30·3	..	32·6	12	24·0	..	22.8	2	9·7	9.9	..	6·6	26	1	.	19·2	16·6	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	29·3	−0·4	30·8	22	24·1	+0·5	20·9	1	114.0	314.1	+166·8	90.8	3	7	−0.3	12·8	9·3	..	0	10	0	0	5	0	0	0	0	0	0
Honavar	29·3	−1·8	31·4	31	23·4	+0·3	22·2	25	27.6	167.4	+43·2	89.4	2	8	+1.4	..	..	..	0	11	0	0	8	0	0	0	0	0	0
Mangalore (Bajpe)	29·6	..	31·2	2[illegible]	23·0	..	21·8	5	31.9	127.0	..	47·2	1	10	..	10·4	6·4	..	2	12	0	0	9	3	0	0	0	0	0
Mangalore	30·2	+0·3	33·0	29	23·7	0	22·4	1,5, 29	20.8	123.7	−83·3	27.8	29	10	−0·4	11·1	7·9	+1·3	1	11	0	0	3	1	0	0	0	0	0
Interior Mysore North																													
Bidar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	..	..	0	0	0	0	0
Gulbarga	32·3	−0·2	35·1	2[illegible]	21·3	+0·7	16·6	27	10.0	45·0	−23·3	29.2	4	3	−1·0	11·7	7·8	−1·2	0	8	0	0	3	3	0	0	0	0	0
Bijapur	31·1	−0·4	32·9	16	21·6	+1·2	17·0	27	36·0	220.2	+146·8	117.0	4	11	+6·9	6·6	5·4	+0·1	0	11	0	0	2	0	0	0	0	0	0
Raichur	32·1	−0·1	34·9	23	22.9	+0·6	19·4	27	63.0	118.1	+40·6	36.6	3	6	+1·7	9·8	8·9	−0·3	0	9	0	0	2	0	0	0	0	0	0
Belgaum	29·0	−1·3	31·6	2[illegible]	19·5	+1·2	15·8	28	47·8	199·8	+80·7	62·4	12	11	+3·5	3·0	2·2	−5·6	0	14	0	0	3	0	0	0	0	0	0
Belgaum (Sambra)	28·7	.	31·4	24	19·5	..	15·6	28	41.6	188·3	..	70·4	12	11	+3·5	8·4	6·3	..	0	14	0	0	9	0	0	0	0	0	0
Gadag	..	..	..	..	20·6	0	19·9	4	42.6	124.5	+27·7	36·6	11	11	..	8·3	7·9	−0·3	0	12	0	0	8	0	0	0	0	0	0
Interior Mysore South																													
Bellary	31·5	−0·6	33·8	23	22·3	+0·5	19·4	27	30.0	115.0	+9·3	45.0	15	7	−0·3	4·9	3·7	−1·3	0	6	0	0	0	0	0	0	0	0	0
Chitradurga	29·1	−0·5	31·8	24	20·5	+0·4	17·3	27	0.2	47.9	−13·0	38.0	14	5	−0·9	7·8	6·6	+0·6	1	3	0	0	3	0	0	0	0	0	
Shimoga	29·3	+0.1	31·2	25	20·0	−0·1	18·4	6	6·9	128.5	−40·1	44.2	16	3	−3·4	..	..	..	0	7	0	0	6	0	0	0	0	0	0
Agumbe	25·6	..	28·4	21	18·9	..	16·6	7	..	111.0	..	41.6	2	4	−5.2	..	7·2	..	6	14	0	0	0	0	0	0	0	0	0
Balehonnur	26·3	+0·2	28·3	9,29	13·5	+0·5	17·2	28	..	186.4	−12·5	49.6	16	6	..	..	..	..	0	15	0	0	2	0	0	0	0	0	0
Hassan	27.5	−0·4	29·7	24,29	18·5	+0·3	17·1	4,14,27	32.7	170.6	+16·4	35·4	14	9	−2·4	..	6·4	+1·1	2	12	0	0	7	0	0	0	0	0	0
Bangalore	28·1	+0·5	29·8	7,8,11	19·6	+1·3	17·8	4	9.5	141.5	−7·6	49.3	16	10	+0·9	7·8	7·2	+0·6	0	9	0	0	6	4	0	0	0	0	0
Bangalore (Aerodrome)	27·9	..	29·5	11,24	18·8	..	16·8	4,5	4.9	125.7	..	32.6	16	6	−2·5	8·4	..	..	0	8	0	0	5	4	0	0	0	0	0
Mysore	28·5	−0·5	30·5	8	19·8	+0·4	17·1	4	72.0	210.8	+71.5	36·6	14	6	+3·4	17·6	13·1	+5·7	0	12	0	0	4	0	0	0	0	0	0
Kerala																													
Calicut	29·8	−0·4	31·5	24	23·9	+0·1	22·6	29	7.0	195.9	−65·0	61·6	20	12	−3·2	13.1	9·2	+2·1	0	10	0	0	6	0	0	0	0	0	0
Palghat	30·6	..	32·2	26	22·8	..	21·2	30	56.2	240·8	..	107·4	12	8	..	10·5	8·0	..	0	18	0	0	12	0	0	0	0	0	0
Fort Cochin	28·7	−0.4	30·3	6	24·0	−0·1	22·7	15,16 19	21·0	452.9	+113·3	119·4	24	13	−1·2	13·0	9·7	+3·7	0	22	0	0	15	0	0	0	0	0	0
Cochin (Naval Air Station)	29·7	..	30·9	26	23·5	..	22·1	29	32·0	415.7	..	75·7	14	16	..	11·0	8·6	..	0	23	0	0	24	0	0	0	0	0	0

TABLE II —SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Kerala (*Contd.*)																														
Alleppey	30·1	+0·2	31·6	8	23·7	−0·3	22·5	31	32·6	465·7	+115·8	93·2	13	15	−0·5	13·6	10·2	+0·5	0	23	0	0	12	0	0	0	0	0	0
Punalur	28.5	..	32·7	5	22·1	..	19·8	3	116·6	320·1	..	46·4	19	14	..	2·8	3·8	..	0	15	0	0	1	0	0	0	0	0	0
Trivandrum	29·6	−0·4	31·7	9	22·9	−0·5	21·7	19	55·3	537·2	+264·7	401·5	18	13	+0·8	13·1	9·0	+3·0	1	19	0	0	16	0	0	0	0	0	0
Trivandrum Aerodrome	29·5 (a)	..	30·4	23	23·4	..	21·8	2	..	284·6	..	168·4	18	14	..	..	7·7	..	0	18	0	0	12	0	0	0	0	0	0
Arabian Sea Isiands																														
Amini*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hill Stations excluding Kashmir																														
Dalhousie	24.0	+2.4	25.0	8days	11.7	0	9.0	20,29	0	0	−70.9	0	..	0	−2·4	2.8	1.9	−1.2	0	0	0	0	0	0	0	0	0	0	0
Dharmsala	25.2	+1.0	27.4	4	15.0	−1.0	12.8	6days	0	0	−117.5	0	..	0	−3.5	5·8	4·3	+0.1	0	0	0	0	0	0	0	0	0	0	0
Simla	19.5	+1·6	23.9	4	12.6	+1.8	10.1	15	0	0.2	−29.8	0.2	1	0	−1.9	2.9	1.6	−0.3	1	0	0	0	0	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	0	−26.4	0	..	0	−1.3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Lokpal	6.8	..	9.1	22	−0.6	..	−2.1	8	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Badrinath (R)																														
Joshimath	22.9	..	24.8	10	11.7	..	9.4	25,29	0	0·4	..	0·4	11	0	..	5·6	4·8	..	0	1	0	0	0	0	0	0	0	0	0
Mussoorie	20.9	+3.1	24.8	30	12.3	+1·6	8.9	20	0	0	−29.0	0	..	0	−2·3	9·7	7·5	+0.6	0	0	0	0	0	0	0	0	0	0	0
Mukteswar (Kumaun)	21.1	+2.8	24.4	7	10.9	+1.1	7.8	24	0	0	−47.7	0	..	0	−2·3	9·6	9·3	+1.7	0	0	0	0	0	0	0	0	0	0	0
Nainital	20·6	+2.1	24.8	31	10.1	+0·3	7.0	24	0	0	−305·2	0	..	0	−5·5	9·0	6.3	−1.0	0	0	0	0	0	0	0	0	0	0	0
Kalimpong	27.0	+4.8	28.0	8,16,19	20.6	+4.9	18.2	4days	0	0	−127·3	0	..	0	−4.8	4·9	3.7	−6.6	0	0	..	..	..	..	..	..	..	..	..
Darjeeling	19.6	+1.8	23.6	5	12.6	+1.5	10.6	22	28.4	53.4	−84.0	14.2	11	8	+3.2	1.9	1.5	−0·4	0	9	0	0	1	8	0	0	0	0	0
Kohima	22.4	..	24.6	3	17.6	..	15.6	13	203.2	413.0	..	82.4	20	16	..	..	2.0	..	0	18	0	0	0	14	0	0	0	0	0
Shillong	22.9	+1.2	27.0	4	14.7	+2.0	11.7	14	107.9	305.0	+134.3	70.3	7	11	+1.0	0.4	1.1	−0.3	0	16	0	0	5	2	0	0	0	0	0
Cherrapunji (R)																														
Abu	27.6	+1.4	29.8	10	16.4	−1.6	13.1	25	0	0	−19.3	0	..	0	−0.9	5.0	4·2	−1.3	0	0	0	0	0	0	0	0	0	0	0
Aijal	24.7	..	27.8	4	19.0	..	16.8	30	90.6	302·2	..	52.4	8	17	..	5.3	9.1	..	0	19	0	0	0	0	0	0	0	0	0
Pachmarhi	26.1	−0.2	28.2	16,17	15.1	+0.2	7.8	27	28.6	31.6	−26.8	24.2	3	3	0	5.1	2.9	−0.8	0	4	0	0	1	0	0	0	0	0	0
Mahabaleshwar	25.0	+1.6	28.1	23	15.9	−0·4	12.4	27	7.8	63.0	−98.3	24.0	1	6	−1.9	8.7	9.4	−2.8	0	9	0	0	5	16	0	0	0	0	0
Mercara	24.1	0	26.8	25	16.4	−0.5	14.4	4	138.6	305.8	+95.2	77.2	26	15	+2.1	7.4	6.5	+1.0	0	20	0	0	14	2	0	0	0	0	0
Ootacamand (R)																														
Coonoor (R)																														
Kodaikanal	18·2	+1.5	21.2	4	10.4	−0.3	9.3	30	125.3	219.5	+59.4	37.2	17	20	+4.7	8.2	9.2	−1.7	1	20	0	0	18	0	0	0	0	0	0
Nepal																														
Katmandu	27.7	..	30.4	4	15.3	..	10.3	28	8.4	21.4	..	13.4	10	3	..	0.5	0.3	..	0	5	0	0	2	16	0	0	0	0	0
Sikkim																														
Lachen	17.9	..	20.0	5,17	9.1	..	4.5	30	..	62.8	..	22.0	1	7	..	..	..	..	0	13	0	0	0	0	0	0	0	0	0
HYDROMETEOROLOGICAL OBSERVATORIES:—																														
Damodar Catchment :																														
Tilaiya	29.8	..	32.1	1,3	21.4	..	15.4	31	14.5	75.6	..	33.6	9	5	..	8.9	5.5	..	0	6	0	0	0	0	0	0	0	0	0
Hazaribagh	27.8	..	30.9	4	18.7	..	12.1	31	39.3	89.8	..	26.3	21	7	..	7.3	3.6	..	1	8	0	0	4	3	0	0	0	0	0
Konar	30·3	..	34.9	13	21.0	..	16.5	31	40.1	108.3	..	38.8	21	6	..	16.7	7.6	..	0	8	0	0	0	0	0	0	0	0	0
Bokaro	31.8	..	34.1	4	18.8	..	11.4	24	28.4	53.2	..	19.8	22	4	..	4.5	2.8	..	2	9	0	0	0	0	0	0	0	0	0
Maithon	32.2	..	34.6	1	20.8	..	13.7	24	95.6	120·3	..	33.0	22	9	..	..	..	..	0	10	0	0	4	2	0	0	0	0	0
Ramgarh	31.2	..	34.0	4	19.9	..	13.2	24	113.8	148.0	..	86·5	22	5	..	2.6	1.3	..	1	8	0	0	0	0	0	0	0	0	0
Panchet Hills	31.1	..	33.4	4	22.9	..	17.1	24	51.6	101.0	..	49.5	22	7	..	5.2	3.3	..	1	10	0	0	0	0	0	0	0	0	0
Durgapur	31.7	..	36.0	17	23.7	..	18.1	24	97.5	184.8	..	112.6	22	8	..	8.9	7.2	..	0	11	0	0	0	0	0	0	0	0	
Mahanadi Catchment :																														
Ginabahar	31.0	..	33.9	6	18.7	..	11.7	31	..	53.2	..	27.4	21	6	..	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Hirakud	32.6	..	34.6	7	23·7	..	18.2	25	13.2	34.8	..	15.2	9	3	..	5.5	4.2	..	0	5	0	0	4	0	0	0	0	0	0
Bhimkund	30.6	..	32.7	6	21.2	..	14.9	25	42.5	120.1	..	51.5	29	8	..	5.1	2.5	..	0	9	0	0	9	0	0	0	0	0	0
Sonepur	32.0	..	34.0	4,5,6	24.9	..	18.1	25	..	21.2	..	14.2	19	2	..	..	4.7	..	0	3	..	..	..	..	..	..	..	..	..
Khijrawan	31.6	..	36.1	2	21.3	..	16.2	26	0	124.2	..	84.0	20	7	..	6.0	4.6	..	0	7	0	0	0	7	0	0	0	0	0

*Data given as addenda in December, 1964 issue (R) Register not received. (a) Mean of 30 days

TABLE 11— SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—OCTOBER, 1964 (ASVINA 9,— KARTIKA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
HYDROMETEOROLOGICAL OBSERVATORIES— (*Contd.*)																													
Narmada Catchment :																													
Bagra Tawa .	33.1	..	34.6	12	19.5	..	11.4	26,27	2.2	19.2	..	17.0	1	1	..	4.2 (g)	2.1 (i)	..	0	3	0	0	1	0	0	0	0	0	0
Punasa .	34.8	..	37.6	15	19.2	..	10.1	26	0	0	..	0	..	0	..	5.1	3.6	..	0	0	0	0	0	0	0	0	0	0	0
Thikri . .	36.1	..	37.8	17	18.0	..	8.9	27	..	0·6	..	0·6	17	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Sabarmati Catchment :																													
Dharoi .	35.7	..	38.0	17,18	20.9	..	13.8	23	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment :																													
Jomosom .	(e) 21·4	..	22·6	6	7·3	..	3.6	31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar .	..	..	..	..	..	..	..	..	6·0	10.8	..	6.0	11	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Timure . .	25.3	..	27·7	5	(b) 11.1	..	7.1	29	0	16.7	..	6.2	6	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Pokhara .	27·7	..	30.1	5	18·6	..	16·0	23	2·8	58·9	..	28·6	6	4	..	1·0	1.4	..	1	8	0	0	5	1	0	0	0	0	0
Gorkha .	26.4	..	28·7	5	19·1	..	17·1	24	9·7	38·7	..	19·6	8	3	..	..	..	..	0	3	0	0	2	15	0	0	0	0	0
Nuwakot .	29.5	..	32.2	5	18·5	..	16·2	28	0·2	19·5	..	12 4	8	2	..	..	..	..	4	3	..	..	..	..	..	..	..	..	..
Ghaghara Catchment : (Trans Himalayan Region)																													
Dailekh .	25·0	..	26·6	10	18·3	..	13·4	28	4·0	5·0	..	4·0	3	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Ghaghara Catchment :																													
Dadeldhura .	21·9	..	24·6	31	13·4	..	11·3	22	0·2	2·0	..	1·8	1	0	..	5·9	4.5	..	1	1	..	..	..	..	..	..	..	..	..
Sallayana(R) .																													
Butwal . .	31·8	..	33.9	5	22.7	..	20·9	23,24, 31	7·6	105·3	..	48·0	8	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Bhaghmati Catchment:																													
Katmandu†																													
Kosi Catchment:																													
Chautara .	25·9	..	28·1	4,5	15·8	..	14·1	23,25 29	8·4	59·3	..	14·4	8	6	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Chepua .	..	..	..	..	..	..	..	..	17·0	95·4	..	22·2	10	8	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..
Walungchung Gola	14·3	..	15·9	5	6·8	..	3·4	29	6·1	33·5	..	10·5	10	3	..	..	..	..	1	12	..	..	..	..	..	..	..	..	..
Taplethok .	27·0	..	30·5	5	15·8	..	13·3	23	0	50·8	..	12·2	7	7	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Bhojpur .	23·3	..	26·3	4,5, 26	16·1	..	14·6	22,23	0	17·5	..	1·4	11	0	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Taplejung .	22·5	..	25·0	5	14·5	..	11·7	27	10·2	52·2	..	14·1	10	5	..	5·2	2·7	..	0	13	0	0	1	2	0	0	0	0	0
Okhaldhunga	22·2	..	26·3	4	14·3	..	13·0	23,30	60·5	145·0	..	31·6	4	7	..	1·8	1·6	..	0	10	0	1	3	3	0	0	0	0	0
Chainpur .	26.2	..	28.4	3	17·7	..	16·0	23	7·6	47.4	..	17·0	13	5	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Angbung .	27·3	..	29·6	14	9·5	..	8.4	6,22	10·5	63·6	..	53·1	4	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Barahakshetra	30·9	..	34·5	4,5	21.9	..	18·4		46·1	129·9	..	33·3	1	9	..	5·5	3·6	..	0	13	0	0	2	0	0	0	0	0	0
Tista Catchment:																													
Gangtok .	23·5	..	27·2	5	14·1	..	11·7	22	17·8	85·7	..	46·6	12	6	..	3·6	2·6	..	0	14	0	0	1	17	0	0	0	0	0
Gezing . .	26·1	..	29.4	4	15·4	..	12·2	26	6·6	79·0	..	25·2	5	7	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..

† Data included under 'Nepal'. (b) Mean of 29 days. (R) Register not received (e) Mean of 26 days (g) Mean of 24 days. (i) Mean of 22 days.

Sub Division and station	Hour of observation I. S. T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1010·0	1006·9	..	27·2	25·4	24·6	30·9	87	..	5·5	..	6·1	0	2	18	0	6	0	1	0	9	1	3	11	0
	1730	,,	1007·9	1004·8	..	26·3	24·7	24·0	29·8	88	..	5·1	..	6·3	0	0	24	0	4	1	2	1	7	6	3	7	0
Long Island	0830	25	1010·2	1007·4	..	27·9	25·7	24·7	31·1	83	..	6·0	..	1·6	0	0	25	0	1	0	4	5	7	8	0	6	0
	1730	,,	1007·6	1004·8	..	26·2	24·7	24·1	30·0	87	..	6·1	..	2·4	0	0	20	1	5	0	2	1	4	5	2	11	0
Port Blair	0530	79	1008·8	999·8	..	24·1	23·4	23·0	28·1	94	..	5·6	..	6·2	0	0	22	1	1	2	0	4	5	8	1	9	0
	0830	,,	1010·4	1001·5	−0·6	27·8	24·9	23·5	28·9	79	−2	6·2	+1·0	11·7	0	6	22	2	2	3	0	3	9	4	5	3	0
	1130	,,	1008·6	999·7	..	28·2	25·1	23·8	29·5	77	..	6·6	..	13·6	0	10	19	1	3	5	0	5	7	7	1	2	0
	1730	,,	1007·8	998·8	..	25·9	24·3	23·6	29·1	86	..	5·8	..	8·6	0	3	22	0	1	2	1	3	6	10	2	6	0
	2330	,,	1009·2	1000·2	..	24·6	23·8	23·4	28·8	93	..	3·6	..	7·6	0	2	19	0	2	2	0	1	8	5	3	10	0
Car Nicobar	0830	10	1010·7	1009·5	..	27·7	25·1	23·6	29·1	80	..	5·2	..	3·5	0	0	27	0	3	1	0	0	17	3	2	4	1
	1730	,,	1007·8	1006·6	..	26·4	24·4	23·5	28·9	84	..	4·9	..	1·7	0	0	14	0	1	0	1	0	10	1	0	17	1
Nancowry	0830	26	1011·0	1008·1	..	27·3	24·8	23·7	29·3	81	..	5·2	..	7·0	0	1	27	0	0	0	0	1	13	10	4	3	0
	1730	,,	1008·2	1005·3	..	26·2	24·3	23·5	28·9	85	..	4·7	..	6·1	0	1	22	0	0	0	0	0	17	4	2	8	0
Kondul	0830	8	..	..	..	27·1	24·9	23·9	29·7	83	..	6·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·3	24·5	23·7	29·3	86	..	6·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura).																											
Pasighat	0830	157	1010·5	992·7	..	25·5	23·0	21·7	26·0	80	..	4·9	.	7·7	0	5	20	0	6	0	5	0	0	0	14	6	0
	1730	,,	1006·7	989·0	..	25·4	24·0	23·3	28·8	89	..	4·3	..	2·6	0	0	17	0	1	0	0	0	1	0	15	14	0
Dibrugarh (Mohanbari)	0230	111	1007·6	994·9	..	23·0	22·4	22·1	26·6	94	..	5·3	..	1·3	0	0	4	0	4	0	0	0	0	0	0	27	0
	0530	,,	1008·6	995·9	..	22·5	22·0	21·7	25·9	95	..	5·3	..	1·5	0	0	7	0	5	1	0	0	1	0	0	24	0
	0830	,,	1010·3	997·7	−2·7	25·5	23·6	22·7	27·6	85	+1	5·4	+1·2	4·4	0	0	25	1	10	7	5	1	0	0	1	6	0
	1130	,,	1008·3	995·8	..	28·0	24·4	22·7	27·6	74	..	5·6	..	4·5	0	0	25	1	8	5	3	3	3	2	0	6	0
	1430	,,	1005·8	993·4	..	28·7	24·6	22·7	27·6	71	..	5·1	..	3·7	0	0	22	2	3	10	1	2	1	2	1	9	0
	1730	,,	1006·3	993·8	..	26·3	24·4	23·5	29·0	85	..	4·3	..	1·3	0	0	6	0	4	1	0	1	0	0	0	25	0
	2030	,,	1008·3	995·6	..	24·4	23·5	23·1	28·3	92	..	3·6	..	1·0	0	0	5	0	4	0	0	0	0	1	0	26	0
	2330	,,	1008·4	995·8	..	23·6	22·9	22·5	27·3	94	..	4·1	..	1·6	0	0	7	1	4	1	1	0	0	0	0	24	0
Digboi	0830	152	1011·7	994·4	..	25·8	24·2	23·5	28·9	87	..	(c) 5·5	..	(c) 4·0	0	0	28	1	5	7	3	1	4	4	3	0	0
	1730	,,	1007·3	990·1	..	26·8	24·8	23·9	29·7	85	..	(d) 4·0	..	( ) 2·9	0	0	23	5	7	4	0	3	3	0	1	3	0
North Lakhimpur	0830	102	1010·7	999·1	−2·0	26·3	24·3	23·4	28·8	86	+3	5·5	+0·3	3·5	0	0	23	1	8	4	4	3	0	2	1	8	0
	1130	,,	1008·8	997·3	..	28·4	25·2	23·8	29·5	76	..	5·6	..	4·6	0	0	23	1	5	7	6	3	1	0	0	8	0
	1430	,,	1006·4	994·9	..	28·8	25·3	23·7	29·3	75	..	5·3	..	4·1	0	0	19	3	6	3	1	3	3	0	0	12	0
	1730	,,	1006.9	995.3	..	26·4	25·1	24·5	30·7	90	..	4·7	..	1·5	0	0	10	4	5	0	0	0	1	0	0	21	0
Sibsagar	0830	97	1010.9	999.9	−1.8	26·3	24·4	23·5	28·9	86	−2	5·6	−0·3	3·1	0	0	26	16	7	0	1	0	2	0	0	5	0
	1730	,,	1006.5	995.7	..	27·8	25.3	24·1	30.0	82	..	4·8	..	2·2	0	0	13	8	2	0	0	0	3	0	0	18	0
Gohpur	0830	83	..	1001.3	..	25·2	24.1	23·5	28·9	90	..	5·6	..	2·6	0	0	29	1	12	5	8	0	1	0	2	2	0
	1730	..	..	996.6	..	27·5	25·2	24·1	30·0	82	..	3·9	..	1·6	0	0	20	0	12	1	3	1	0	2	1	11	0
Majbat	0830	77	..	..	..	26·6	24·2	23·1	28·3	81	..	4·1	..	2·0	0	0	16	0	6	5	0	1	2	0	2	15	0
	1730	,,	..	..	..	27·3	25·0	23·9	29·7	83	..	2·8	..	0·8	0	0	7	1	1	3	0	1	1	0	0	24	0
Jorhat (Aerodrome)	0530	90	1008·4	996·1	..	23·5	23·3	23·2	28·4	97	..	6·0	..	1·8	0	0	7	1	2	0	0	0	3	1	0	24	0
	0830	,,	1010·2	1000.0	..	26·1	24·3	23·5	28·9	86	..	6·5	..	4·7	0	1	19	2	11	1	0	0	3	0	3	11	0
	1130	,,	1008·3	998.3	..	28·9	25·3	22·7	27·6	74	..	5·9	.	6.6	0	0	26	3	13	5	1	0	1	2	1	5	0
	1730	,,	1006·2	996·1	..	26·8	24·9	22·9	29·7	85	..	4·7	..	1.5	0	0	8	0	6	0	0	0	1	0	1	23	0
	2330	,,	1008·3	998·0	..	24·6	24·1	23·9	29·7	95	..	4·5	..	1·3	0	0	5	0	1	1	0	0	2	0	1	26	0
Tangla	0830	78	1008·0	999·5	..	26·4	24·6	23·8	29·5	84	..	1·9	..	0·6	0	0	8	0	0	0	8	0	0	0	0	23	0
	1730	,,	1004.6	996.0	..	28·3	27·0	26·5	34·6	89	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1011.6	1002.7	−1·5	25·1	23·9	23·3	28·6	90	+8	5·4	+1·7	1.8	0	0	23	5	13	2	1	0	2	0	0	8	0
	1730	,,	1007·0	998·1	..	27·2	24·8	23·7	29·3	81	..	4·6	..	0·9	0		14	3	8	1	1	0	1	0	0	17	0
Golaghat	0830	95	1010·2	999·5	..	26·1	24·3	23·5	28·9	86	..	3·6	..	2·4	0	0	25	0	7	0	4	0	4	0	10	6	0
	1730	,,	1005.7	995.0	..	28.4	25.4	24.1	30.0	78	..	(a) 1.9	..	(a) 1.9	0	0	24	0	10	1	1	0	3	1	8	6	0
Rangia	0830	60	1010.1	1003.2	..	27.3	25.0	23.9	29.7	81	..	5.1	..	5.0	0	0	30	2	7	14	2	1	1	3	0	1	0
	1730	,,	1007·3	1000·5	..	28·1	25·2	23·9	29·7	79	..	(d) 3·8	..	(d) 2·6	0	1	10	1	1	5	1	0	1	1	1	16	0
Chaparmukh	0830	66	1010·9	1003·5	..	26·6	24·8	24·0	29·8	86	..	(g) 6·0	..	(g) 7·2	0	0	23	0	1	7	10	3	2	0	0	1	0
	1730	,,	1006.6	999.2	,,	27·1	25·1	24·2	30·2	84	..	(h) 4.5	..	(h) 3.8	0	0	15	2	5	2	4	1	0	1	0	8	0

(a) Mean of 30 days. (c) Mean of 28 days. (c) Mean of 26 days. (d) Mean of 27 days. (g) Mean of 24 days. (h) Mean of 23 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)— (*Contd.*)																											
Goalpara	0830	38	1009·4	1005·1	..	25·4	24·1	23·5	28·9	88	..	4·0	..	1·5		0	20	2	10	0	4	0	0	2	2	11	0
	1730	,,	1008.7	1004·4	..	27·9	25·6	24·6	30·9	81	..	2·2	..	1·0	0	0	15	1	3	1	1	0	5	1	3	16	0
Gauhati	0830	..	..	..	..	25·2	22·9	21·7	25·9	82	−1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati (Bhorjhor)	0230	54	1007·4	1001·2	..	24·0	23·6	23·4	28·8	96	..	3·8	..	1·4	0	0	5	0	2	1	0	0	2	0	0	25	0
	0530	,,	1008·2	1002·0	..	23·7	23.3	23·1	28·3	97	..	5·5	..	2·8	0	0	11	0	2	1	2	3	3	0	0	20	0
	0830	,,	1010·1	1004·0	−2·2	26·4	24·5	23·7	29·3	85	+7	5·7	+1·5	5·4	0	0	21	3	10	1	1	1	2	2	1	10	1
	1150	,,	1008·4	1002·3	..	28·5	25·1	23·6	29·1	76	..	5·6	..	7·6	0	0	27	3	11	2	0	1	2	4	4	4	0
	1430	,,	1005·7	999·6	..	29·5	25·1	23·1	28·3	69	..	5·0	..	7·3	0	0	30	6	7	2	1	1	2	4	7	1	0
	1730	,,	1006·2	1000·1	..	27·2	25·2	24·3	30·4	84	..	5·3	..	2·6	0	1	11	0	3	2	1	0	2	2	2	19	0
	2030	,,	1008·3	1002·1	..	25·2	24·3	23·9	29·7	92	..	3·9	..	1·9	0	0	8	0	3	0	0	5	0	0	0	23	0
	2330	,,	1008·3	1002·1	..	24·3	23·7	23·4	28·8	94	..	3·4	..	1·8	0	0	7	0	2	0	1	1	2	1	0	24	0
Dhubri (Rupsi)	0530	45	1007·9	1002·8	..	22·9	22·5	22·3	26·9	97	..	4·2	..	3·0	0	2	8	1	8	1	0	0	0	0	0	21	0
	0830	,,	1009·7	1004·6	..	26·7	25·0	24·3	30.4	87	..	4·7	..	4·7	0	2	17	0	7	9	1	0	1	1	0	12	0
	1130	,,	1008·2	1003·1	..	29·1	26·1	24·8	31·3	77	..	4·5	..	5·9	0	1	23	0	6	9	2	3	2	2	0	7	0
	1730	,,	1005·8	1000·7	..	27·3	25·6	24.9	31·5	87	..	3·6	..	2·1	0	1	4	1	0	3	0	0	1	0	0	26	0
Dhubri	0830	35	1010·6	1006·6	−1·7	26·4	24·5	23·7	29·3	85	+3	4·1	+1·1	8·0	0	0	24	0	20	2	1	1	0	0	0	7	0
	1730	,,	1006·6	1002·7	..	27·6	25·0	23·8	29·5	80	..	3·5	..	1·7	0	0	7	0	3	3	0	1	0	0	0	24	0
Lumding	0830	149	1010·2	993·4	..	25·0	24·3	23·9	29·7	94	+7	5·2	..	2·4	0	0	22	0	8	2	6	0	2	0	4	9	0
	1730	,,	1006·4	989·8	..	27·3	25·8	25·1	31·9	85	..	4·3	..	1·3	0	0	16	0	2	0	6	0	1	0	7	15	0
Tura	0830	370	1011·2	969·5	..	23·9	22·7	22·1	26·6	90	..	6·2	..	2·3	0	0	23	0	2	14	3	2	2	0	0	8	0
	1730	,,	1006·1	965·3	..	25·9	23·9	23·0	28·1	84	..	7·3	..	2·6	0	0	23	2	1	3	3	4	3	5	2	8	0
Haflong	0830	682	1010·3	934·9	..	22·8	21·4	20·7	24·4	88	..	5·4	..	7·2	0	0	31	0	0	0	0	10	21	0	0	0	0
	1730	,,	1005·2	930·5	..	21·2	22·1	21·0	24·9	83	..	4·5	..	5·4	0	0	31	0	0	0	0	8	23	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1007·2	996·1	..	23·2	22·7	22·5	27·3	94	..	5·0	..	6·1	0	0	29	0	1	27	1	0	0	0	0	2	0
	0830	,,	1008.6	997·7	..	26·8	24·4	23·3	28·6	81	..	5·0	..	6·6	0	0	29	0	1	24	1	0	0	2	1	2	0
	1130	,,	1006·6	995·8	..	29·5	25·4	23·5	28·9	71	..	5·2	..	6·0	0	0	29	1	2	6	1	4	2	7	6	2	0
	1730	,,	1004.8	994·0	..	27·3	25·1	24·1	30·0	83	..	4·4	..	3·6	0	0	22	0	1	9	1	1	2	7	1	9	1
Silchar	0830	29	1009·9	1006·6	−2·5	27·0	25·2	24·4	30·5	86	+4	5·6	+1·6	1·2	0	0	16	1	7	3	0	2	2	0	1	15	0
	1730	,,	1006·0	1002·7	..	28.2	25·9	25·0	31·7	83	..	4·3	..	0·3	0	0	8	0	1	0	0	2	2	2	1	23	0
Imphal (Tulihal)	0530	781	1010·4	923·8	..	19·6	19·2	19·0	22·0	96	..	6·5	..	0·7	0	0	4	1	0	2	0	1	0	0	0	27	0
	0830	,,	1011·0	925·3	−1·6	23·0	21·0	20·0	23·4	83	+3	6.5	+1·2	2·6	0	0	17	5	7	1	0	3	0	0	1	14	0
	1130	,,	1007·9	923·3	..	26·5	21·9	19·7	22·9	67	..	5·9	..	7·0	0	0	26	2	2	2	4	7	4	2	3	5	0
	1430		1005·3	921·1	..	27·0	22·0	19·6	22·8	64	..	5·6	..	8·2	0	0	27	1	1	1	4	8	3	6	3	4	0
	1730	,,	1007·0	921·8	..	23·7	21·1	19·8	23·1	80	..	5·5	..	6·0	0	0	26	2	1	3	4	1	2	3	10	5	0
	2030	,,	1009·7	923·6	..	21·6	20·5	19·9	23·2	90	..	5·0	..	2·0	0	0	10	1	0	2	1	1	1	0	4	21	0
	2330	,,	1010·1	923·7	..	20·6	19·9	19·5	22·7	93	..	5.4	..	1·7	0	0	9	1	1	0	3	0	1	0	3	22	0
Kailashahar	0530	29	1008·8	1005·5	..	23·8	23·5	23·3	28·6	97	..	5·4	..	1·4	0	0	11	2	0	2	1	4	2	0	0	20	0
	0830	,,	1010·2	1006·9	..	27·5	25·3	24·3	30·4	83	..	5·1	..	3·0	0	0	22	1	3	7	2	2	7	0	0	9	0
	1130	,	1008·5	1005·4	..	29·8	25·8	24·1	29·8	72	..	5·7	..	3·7	0	0	26	1	4	4	6	6	3	1	1	5	0
	1730	,,	1006·6	1003·3	..	27·5	25·5	24·6	30·9	85	..	5·2	..	1·5	0	0	10	1	0	1	0	2	4	1	1	21	0
Agartala	0230	16	1006·3	1004·5	..	24·2	23·7	23·5	28·9	96	..	5·1	..	5·7	0	0	17	0	1	3	9	3	0	1	0	14	0
	0530	,,	1006·9	1005·1	..	23·8	23·5	23·3	28·6	97	..	5·2	..	6·2	0	2	20	0	3	3	14	2	0	0	0	9	0
	0830	,,	1008·6	1006·8	−2·4	27·5	25·5	24·6	30·9	85	+4	5·5	+0·9	8·5	0	0	25	3	4	4	7	6	0	1	0	6	0
	1130	,,	1007·3	1005·5	..	29·4	25·9	24·3	30·4	75	..	6·0	..	10·1	0	2	25	6	1	1	5	3	5	2	4	4	0
	1430	,,	1005·1	1003·3	..	29·2	25·9	24·4	30.5	76	..	6·0	..	9·9	0	1	28	7	1	1	5	5	3	3	4	2	0
	1730	,,	1005·4	1003·6	..	27·0	25·4	24·7	31.1	87	..	5·3	..	4·5	0	0	17	2	1	4	3	4	1	0	2	14	0
	2030	,,	1007·4	1005·7	..	25·2	24·5	24·1	30.0	94	..	4·2	..	5·7	0	0	17	1	1	4	9	2	0	0	0	14	0
	2330	,,	1007·5	1005·7	..	24·4	24.1	23.9	29.7	95	..	4.5	..	5.7	0	2	15	0	1	13	3	0	0	0	0	14	0
Sub-Himalayan west Bengal																											
Bagdogra	0230	131	1007·3	992·4	..	23.1	22.4	22.1	26.6	93	..	4.2	..	1.3	0	0	5	0	2	3	0	0	0	0	0	26	2
	0530	,,	1008·3	993·3	..	22.7	21.9	21.5	25.6	93	..	5.3	..	1.3	0	0	7	2	0	3	1	0	1	0	0	24	0
	0830	,,	1009·9	995·1	−1.5	26.7	23.8	22.5	27.3	78	+1	4.5	+0·8	7.3	0	0	25	1	10	6	5	1	1	1	0	6	0
	1130	,,	1008·4	993·7	..	29.7	24.8	22.5	27·3	66	..	4.8	..	8.2	0	1	22	0	3	5	11	2	1	1	0	8	0
	1730	,,	1006·1	991·4	..	27.6	25·2	24.1	30·0	81	..	4.4	..	1.8	0	0	7	0	1	1	1	2	2	0	0	24	0
	2330	,,	1008·2	993.2	..	23.7	22.7	22.7	28.7	91	..	4.5	..	4.9	0	0	22	10	6	8	1	0	0	0	2	9	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal																											
Jalpaiguri	0830	83	1009.7	1000.3	−2.3	25.5	23.8	22.9	27.9	86	+3	3.9	+1.6	5.1	0	0	29	9	10	6	0	0	0	1	3	2	0
	1730	,,	1005.9	996.6	..	28.3	24.8	23.1	28.3	74	..	1.9	..	2.9	0	2	16	1	3	3	2	2	5	2	0	13	0
Cooch Behar	0830	43	1010.0	1005.2	..	26.6	24.6	23.7	29.3	85	..	4.3	..	5.2	0	0	25	0	10	12	0	1	0	0	1	6	1
	1130	,,	1008.5	1003.7	..	28.8	25.5	24.1	30.0	76	..	4.9	..	7.0	0	1	27	0	6	11	1	0	1	3	0	3	6
	1730	,,	1006.2	1001.4	..	27.2	25.2	24.3	30.7	85	..	3.9	..	1.8	0	0	5	1	1	3	0	0	0	0	0	26	0
Balurghat	0830	26	1008.2	1005.3	..	27.7	25.2	24.1	30.0	81	..	4.5	..	4.1	0	0	29	3	6	6	9	0	2	1	1	2	1
	1730	,,	1004.9	1002.0	..	27.7	25.4	24.3	30.4	82	..	4.5	..	2.3	0	0	14	1	3	4	4	0	0	0	0	17	2
Malda	0830	31	1009.3	1005.7	−2.4	27.7	25.0	23.9	29.7	80	+5	4.2	+2.4	2.8	0	0	23	7	6	4	2	2	1	0	1	8	0
	1730	,,	1005.9	1002.4	..	28.6	25.3	23.9	29.7	75	..	3.8	..	1.5	0	0	13	3	2	3	1	0	0	1	3	18	0
Gangetic West Bengal																											
Berhampore	0830	19	1008.8	1006.6	−2.9	27.2	25.1	24.1	30.0	85	+7	4.6	+1.7	1.5	0	0	17	2	1	8	0	3	0	3	0	14	0
	1730	,,	1005.5	1003.5	..	27.6	25.3	24.3	30.4	82	..	4.5	..	0.5	0	0	6	1	0	4	0	1	0	0	0	25	0
Suri	0830	..	..	..	..	27.3	24.5	23.2	28.4	79	..	4.3	..	3.7	0	0	31	10	1	3	1	8	0	7	1	0	0
Asansol	0230	126	1007.0	992.7	..	23.7	22.6	22.0	26.4	91	..	3.0	..	3.0	0	0	13	2	0	2	1	2	1	0	5	18	0
	0530		1007.7	993.3	..	23.2	22.3	21.8	26.1	92	..	4.0	..	2.7	0	0	13	1	1	1	2	1	0	1	6	18	0
	0830	,,	1009.4	995.5	−1.8	27.1	24.1	22.7	27.6	77	+1	3.1	+0.2	6.0	0	1	24	3	3	3	5	0	0	1	10	6	0
	1130	,,	1008.0	994.0	..	30.3	24.9	22.4	27.1	63	..	4.4	..	7.9	0	0	30	8	5	5	4	1	0	0	7	1	0
	1430	,,	1005.6	991.6	..	30.4	24.7	22.0	26.4	63	..	4.6	..	6.0	0	0	25	6	8	2	1	1	1	1	5	6	0
	1730	,,	1006.1	992.0	..	27.8	24.3	22.6	27.4	76	..	4.5	..	3.2	0	0	17	3	5	3	0	2	0	0	4	14	0
	2330	,,	1008.1	993.7	..	24.2	22.8	22.1	26.6	88	..	3.3	..	3.5	0	0	15	3	0	2	2	3	0	1	4	16	0
Shanti Niketan	0830	59	1009.5	1002.8	..	26.9	24.6	23.5	28.9	82	..	4.2	..	6.3	0	0	27	11	4	2	1	4	0	2	3	4	0
	1130	,,	1008.5	1001.9	..	29.5	25.3	23.4	28.8	71	..	3.8	..	4.3	0	0	29	12	4	2	5	2	1	0	3	2	0
	1730	,,	1006.1	999.5	..	26.6	25.0	24.3	30.4	87	..	4.5	..	2.8	0	0	16	6	1	1	3	1	0	1	3	15	0
Krishnanagar	0830	15	1009.3	1007.7	−2.2	28.0	25.5	24.5	30.7	81	+8	3.0	+0.1	2.0	0	0	13	3	0	0	7	0	0	0	3	18	0
	1730	,,	1005.5	1003.9	..	28.3	25.3	24.0	29.8	79	..	3.6	..	0.8	0	0	4	2	0	0	1	1	0	0	0	27	0
Purulia	0830	255	1009.5	980.9	−1.7	25.9	23.2	21.9	26.3	78	+4	4.5	+1.3	3.9	0	0	31	12	3	2	3	2	0	1	8	0	0
	1700	,,	1005.8	977.5	..	27.8	26.3	21.5	25.6	69	..	4.5	..	3.2	0	0	26	10	1	1	4	1	0	0	9	5	0
Bankura	0830	100	1008.8	997.6	..	26.6	23.8	22.5	27.3	79	..	3.4	..	2.1	0	0	27	5	4	4	1	1	0	4	8	4	0
	1730	,,	1005.5	994.5	..	28.0	24.2	22.4	27.1	72	..	3.2	..	1.8	0	0	25	1	5	5	3	0	2	1	8	6	0
Burdwan	0830	32	1008.3	1004.7	−3.2	27.5	25.0	23.9	29.7	82	+5	3.8	+0.8	2.6	0	0	22	2	4	2	3	1	1	2	7	9	0
	1730	,,	1005.1	1001.5	..	28.4	25.6	24.4	30.5	77	..	4.1	..	4.2	0	0	18	3	1	1	7	1	4	0	1	13	0
Barrackpore (Aerodrome)	0530	7	1007.1	1006.3	..	24.7	24.0	23.7	29.3	94	..	4.7	..	4.6	0	0	21	1	1	4	3	3	0	0	9	10	0
	0830		1009.1	1008.4	−2.2	27.7	25.5	24.5	30.7	83	+3	4.8	+0.6	6.3	0	0	23	6	3	3	1	2	2	1	5	8	0
	1130	,,	1007.8	1007.1	..	29.5	25.6	23.9	29.7	73	..	5.3	..	8.8	0	0	27	5	1	2	9	1	2	4	3	4	0
	1730		1006.0	1005.2	..	28.0	25.4	24.3	30.4	82	..	5.0	..	4.5	0	0	18	3	1	1	2	1	4	0	6	13	0
	2330	,,	1007.8	1007.0	..	25.6	24.5	24.0	29.8	92	..	3.6	..	2.6	0	0	12	0	0	1	1	4	2	1	3	19	0
Calcutta (Dum Dum)	0230	6	1006.1	1005.4	..	25.3	24.5	24.1	30.0	93	..	3.8	..	2.4	0	0	17	3	1	3	2	4	0	2	2	14	0
	0530	,,	1006.8	1006.1	..	24.9	24.2	23.9	29.7	94	..	5.3	..	2.2	0	0	20	2	1	4	3	3	1	2	4	11	0
	0830	,,	1008.6	1007.9	−2.6	27.9	25.4	24.3	30.4	81	+4	5.3	+1.4	4.6	0	0	26	4	5	2	4	5	0	1	5	5	0
	1130	,,	1007.4	1006.7	..	29.8	25.6	23.7	29.3	71	..	5.6	..	6.3	0	0	31	7	3	3	7	3	2	0	6	0	0
	1430	,,	1005.2	1004.5	..	30.1	25.5	23.5	28.9	68	..	5.7	..	6.5	0	0	31	4	4	1	6	5	3	2	6	0	0
	1730	,,	1005.5	1004.8	..	28.0	25.3	24.3	30.4	80	..	5.5	..	3.2	0	0	18	3	0	2	2	6	3	2	0	13	0
	2030	,,	1007.3	1006.6	..	26.4	25.1	24.5	30.7	89	..	3.7	..	2.3	0	0	17	0	1	2	3	6	1	1	3	14	0
	2330	,,	1007.2	1006.5	..	25.8	24.8	24.4	30.5	92	−5	3.8	..	2.3	0	0	15	1	0	1	3	3	2	3	2	16	0
Calcutta	0830	6	1008.5	1007.8	+2.9	28.3	25.2	23.9	29.5	77	..	4.5	+1.5	5.3	0	0	29	3	1	3	3	4	2	2	11	2	0
	1130	,,	1007.2	1006.5	..	30.3	25.5	23.3	28.6	67	..	4.9	..	6.6	0	0	31	2	2	3	5	4	3	1	11	0	0
	1730	,,	1005.4	1004.7	..	28.3	25.1	23.7	29.3	77	..	3.7	..	3.7	0	0	24	1	2	1	7	3	1	1	8	7	0
Midnapore	0830	45	1008.3	1003.2	−3.0	26.3	24.0	23.0	28.1	82	+7	3.5	+0.9	2.1	0	0	22	7	6	2	0	2	2	0	2	9	1
	1730	,,	1005.7	1000.6	..	28.2	24.9	23.4	28.8	76	..	3.6	..	0.8	0	0	9	0	2	0	1	4	2	0	0	22	0
Contai	0830	11	1008.6	1007.4	−1.6	27.5	25.2	24.1	30.0	82	0	3.3	−0.3	3.6	0	0	23	10	0	2	0	3	4	2	2	8	0
	1730	,,	1005.4	1004.2	..	28.1	25.7	24.7	31.1	82	..	3.0	..	3.0	0	0	15	1	1	0	1	7	4	1	0	16	0
Sagar Island	0830	3	1008.3	1007.9	−2.9	27.1	25.4	24.3	30.4	83	+5	4.5	+0.4	13.6	0	5	26	5	2	2	1	4	5	4	8	0	0
	1730	,,	1005.2	1004.9	..	29.9	25.4	24.0	30.1	81	..	4.8	..	11.1	0	5	25	4	3	1	1	6	8	3	4	1	0
Sandheads	0530	10	1006.5	1005.4	..	27.5	25.5	24.6	30.9	84	..	4.8	..	13.0	0	6	21	4	2	1	3	3	9	2	3	4	0
	0830	,,	1008.3	1007.2	−3.2	29.2	26.0	24.6	30.9	75	+3	4.7	+1.2	13.0	0	3	27	1	5	1	3	1	9	2	8	1	0
	1130	,,	1007.4	1006.3	..	31.2	26.9	25.1	31.9	71	..	4.9	..	11.5	0	6	23	5	2	4	3	2	7	1	5	2	0
	1730	,,	1005.6	1004.5	..	28.4	25.7	24.5	29.2	79	..	4.4	..	10.2	0	5	19	4	1	1	2	3	10	3	0	7	0
	2330	,,	1005.7	1005.7	..	28.1	25.6	4.5	30.7	81	..	0.8	..	11.2	0	8	20	2	3	1	4	3	10	2	3	3	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa																											
Baripada	0830	54	1009.7	1003.6	..	26.9	24.3	23.0	28.1	80	..	3.3	..	4.0	0	0	30	11	6	1	0	2	4	1	5	1	0
	1730	,,	1006.6	1000.5	..	27.5	24.8	23.5	28.9	79	..	4.5	..	1.4	0	0	14	3	1	0	3	3	2	1	1	17	0
Jharsuguda	0230	230	1006.9	980.9	..	23.5	22.3	21.7	25.9	89	..	3.0	..	1.5	0	0	6	2	0	2	0	1	0	1	0	25	0
	0530	,,	1007.5	981.3	..	22.7	21.7	21.2	25.2	92	..	3.7	..	2.6	0	0	9	2	2	4	0	0	1	0	0	22	0
	0830	,,	1009.2	983.4	−1.4	26.4	23.0	21.3	25.3	74	−3	3.7	−0.2	6.1	0	1	17	4	7	4	0	0	2	1	0	13	0
	1130	,,	1007.8	982.4	..	30.2	23.6	20.2	23.7	57	..	4.2	..	7.9	0	1	22	6	5	5	1	0	0	3	3	8	0
	1730	,,	1005.3	979.8	..	29.1	23.9	21.4	25.5	63	..	5.0	..	3.6	0	0	14	0	0	4	0	0	1	5	4	17	0
	2330	,,	1007.9	981.9	..	24.3	22.5	21.6	25.8	85	..	3.5	..	3.0	0	0	13	2	2	3	2	0	0	2	2	18	0
Keonjhargarh	0830	463	1006.9	955.7	..	25.5	22.4	20.9	24.7	76	..	3.3	..	1.9	0	0	28	8	1	2	0	3	1	2	11	3	0
	1730	,,	1002.8	952.0	..	26.8	23.1	21.5	25.6	73	..	3.2	..	1.9	0	0	29	7	4	0	2	4	2	7	3	2	0
Balasore	0830	20	1008.7	1006.4	−2.6	27.6	24.5	23.1	28.3	77	−1	4.9	+1.8	5.9	0	1	30	12	4	0	2	4	5	2	2	0	0
	1730	,,	1005.5	1003.3	..	28.0	25.1	23.8	29.5	79	..	5.7	..	2.1	0	0	20	3	2	0	5	8	0	1	1	11	0
Sambalpur	0830	148	1008.7	992.0	−2.9	27.7	24.3	22.7	27.6	74	−2	3.3	+0.6	4.3	0	1	27	2	7	2	4	7	3	1	2	3	0
	1730	,,	1005.5	988.9	..	28.4	24.8	23.1	28.9	74	..	3.5	..	1.3	0	0	8	1	1	0	1	3	2	0	0	23	0
Angul	0830	139	1009.1	993.4	−2.1	26.3	23.9	22.8	27.7	81	+4	5.3	+1.8	4.3	0	0	31	1	1	1	2	5	6	14	1	0	0
	1730	,,	1005.9	990.4	..	28.4	24.5	22.7	27.6	72	..	5.1	..	3.5	0	0	25	0	0	2	6	6	2	7	2	6	0
Cuttack	0830	27	1009.1	1006.1	−2.3	27.8	25.1	23.8	29.5	79	+1	3.7	+0.5	5.7	0	1	23	2	1	1	1	3	5	5	6	7	0
	1730	,,	1005.8	1002.8	..	29.7	25.8	24.1	30.0	73	..	4.5	..	5.2	0	1	20	0	2	1	1	8	6	1	2	10	0
Chandbali	0830	6	1009.3	1008.6	−1.9	27.9	25.5	24.4	30.5	81	0	3.3	−0.1	4.3	0	0	28	2	1	1	1	3	5	4	11	3	0
	1730	,,	1006.1	1005.4	..	28.1	25.4	24.3	30.4	80	..	4.5	..	3.8	0	0	25	4	6	1	10	3	0	0	1	6	0
Bolangir	0830	190	1009.3	987.8	..	26.9	23.9	22.4	27.1	77	..	3.3	..	3.6	0	0	27	5	4	1	5	6	2	1	3	4	0
	1730	,,	1005.6	984.3	..	28.9	24.4	22.3	26.9	68	..	4.9	..	4.6	0	0	31	9	7	1	2	4	3	2	3	0	0
Phulbani	0830	464	1007.6	955.9	..	24.0	22.4	21.7	25.9	86	..	3.0	..	0.4	0	0	2	0	0	0	1	0	1	0	0	29	0
	1730	,,	1003.8	952.8	..	26.3	23.[illegible]	21.7	25.9	75	..	3.9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Titlagarh	0830	211	1009.7	986.1	..	26.5	24.1	23.0	28.1	81	..	2.8	..	2.5	0	0	22	1	2	0	7	5	7	0	0	9	0
	1730	,,	1006.1	982.6	..	28.9	24.6	22.5	27.3	70	..	3.5	..	1.7	0	0	16	3	5	0	0	1	4	0	3	15	0
Bhubaneswar	0230	46	1006.8	1001.6	..	24.8	23.9	23.5	28.9	93	..	2.0	..	4.9	0	2	17	0	2	0	1	6	3	2	5	12	0
	0530	,,	1007.5	1002.2	..	24.1	23.5	23.2	28.4	95	..	3.2	..	6.1	0	1	23	3	1	1	0	3	5	4	7	7	0
	0830	,,	1009.4	1004.1	−1.3	27.9	25.2	24.0	29.8	80	0	3.8	−0.9	8.9	0	4	25	5	1	0	1	5	3	6	8	2	0
	1130	,,	1008.0	1002.9	..	30.2	25.1	22.7	27.6	65	..	4.5	..	11.7	0	6	25	5	1	5	1	4	7	1	7	9	0
	1430	,,	1005.6	1000.5	..	30.5	25.0	22.5	27.3	63	..	4.9	..	11.5	0	7	24	2	4	5	1	7	5	1	6	0	0
	1730	,,	1006.1	1000.9	..	28.1	25.2	23.9	29.7	78	..	4.7	..	8.0	0	2	27	0	3	3	3	11	6	0	3	2	0
	2330	,,	1008.0	1002.8	..	25.4	24.4	23.9	29.7	91	..	2.1	..	6.6	0	1	26	0	3	2	2	7	7	3	3	4	0
Puri	0830	6	1009.0	1008.3	−2.0	28.2	25.0	23.6	29.1	77	−0	4.3	+1.3	8.3	0	4	26	10	3	0	1	2	8	2	4	1	0
	1730	,,	1006.0	1005.3	..	28.5	25.3	23.9	29.7	75	..	5.6	..	11.0	0	6	22	2	4	0	4	10	7	1	0	3	0
Gopalpur	0530	17	1007.2	1005.3	..	24.8	22.8	23.3	28.6	92	..	4.3	..	6.7	0	3	19	5	0	0	0	1	5	2	9	9	0
	0830	,,	1009.3	1007.3	−1.7	27.3	24.8	23.7	29.3	80	+2	4.6	+1.8	10.6	0	3	23	9	0	0	0	1	5	0	11	5	0
	1130	,,	1008.2	1005.3	..	30.2	25.5	23.4	28.8	67	..	5.0	..	12.1	0	5	25	6	1	1	3	9	5	0	5	1	0
	1730	,,	1006.1	1004.3	..	28.4	25.1	23.7	29.3	76	..	5.3	..	11.4	0	6	20	4	1	4	2	9	5	1	0	5	0
	2330	,,	1007.8	1005.9	..	26.3	24.5	23.7	29.3	85	..	3.3	..	6.5	0	2	15	0	1	0	0	2	9	2	3	14	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1009.3	992.5	−2.4	26.2	23.9	22.9	27.9	82	+10	3.5	+1.4	4.6	0	0	22	0	2	1	9	0	3	2	5	9	0
	1730	,,	1005.7	989.0	..	27.5	25.2	24.1	30.0	82	..	3.1	..	2.6	0	0	14	1	2	5	2	1	1	1	1	17	0
Daltonganj	0830	221	1009.6	984.7	−2.1	26.0	23.0	21.5	25.6	75	−1	2.1	+0.3	2.6	0	0	26	0	5	1	5	1	6	2	6	5	0
	1730	,,	1005.2	980.3	..	28.3	23.3	20.8	24.6	63	..	2.0	..	3.3	0	0	30	6	12	0	0	1	4	3	4	1	0
Hazaribagh	0830	611	1009.2	941.6	−2.4	23.8	20.8	19.3	22.4	77	+12	3.2	+0.7	7.3	0	0	26	5	3	0	3	3	2	0	10	5	0
	1730	,,	1006.2	938.9	..	24.3	20.9	19.2	22.2	73	.	3.5	..	8.1	0	1	28	8	1	1	3	1	0	0	15	2	0
Dhanbad	0830	257	1008.6	979.7	..	25.1	22.7	21.5	25.6	80	..	2.7	..	2.3	0	0	18	0	4	1	7	0	0	2	3	13	1
	1730	,,	1005.6	976.9	..	27.3	23.3	21.3	25.3	71	..	2.6	..	1.1	0	0	7	1	3	0	2	0	0	0	1	24	0
Ranchi	0830	655	1007.7	935.7	−3.0	24.0	19.8	17.5	20.0	67	+1	3.3	+0.5	1.2	0	0	16	7	3	3	0	1	0	0	2	15	0
	1730	,,	1005.7	933.9	..	24.4	20.0	17.6	20.1	66	..	3.9	..	1.0	0	0	15	8	2	1	0	2	0	0	2	16	0
Ranchi (Aerodrome)	0530	652	1007.8	935.3	..	20.7	19.2	18.3	21.0	88	..	3.6	..	8.6	0	1	25	10	1	2	1	2	1	2	7	5	0
	0830	,,	1008.7	936.9	..	23.9	20.6	18.9	21.8	74	..	3.8	..	12.6	0	1	29	10	2	5	1	2	0	3	7	1	0
	1130	,,	1007.3	936.3	..	26.8	20.9	17.8	20.4	59	..	4.4	..	17.2	0	12	19	14	3	4	0	3	2	0	5	0	0
	1430	,,	1004.8	933.9	..	27.0	21.0	17.9	20.5	55	..	4.4	..	18.2	0	9	21	11	3	4	2	2	1	3	4	1	0
	1730	,,	1005.4	934.2	..	25.4	20.8	18.4	21.1	66	..	3.9	..	12.[illegible]	0	1	30	14	1	4	1	2	0	3	6	0	0

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(Contd.)																											
Jamshedpur	0830	129	1008.7	991.2	−2.8	26.9	23.3	22.0	26.4	81	+6	3.6	+0.5	2.8	0	0	19	3	1	2	1	0	1	4	7	12	0
	1730	,,	1005.3	990.8	..	28.2	24.3	22.5	27.3	71	..	3.7	..	1.9	0	0	10	1	2	4	2	0	0	1	0	21	0
Jamshedpur (P.B.O.)	0530	142	1007.5	991.4	..	23.0	22.0	21.5	25.6	91	..	3.9	..	2.3	0	0	13	0	2	0	0	0	1	6	4	18	0
	0830	,,	1009.3	993.2	..	26.2	23.4	21.9	26.3	77	..	3.7	..	5.1	0	0	27	0	2	0	1	2	4	10	8	4	0
	1130	,,	1007.8	992.0	..	29.4	24.0	21.4	25.5	63	..	4.5	..	6.5	0	0	27	0	0	2	0	2	2	4	16	4	1
	1430	,,	1005.1	989.3	..	30.1	24.0	20.9	24.7	59	..	4.6	..	6.1	0	0	27	2	6	0	1	2	0	3	13	4	0
	1730	,,	1005.5	989.7	..	28.0	23.8	21.8	26.1	70	..	4.7	..	3.2	0	0	15	2	6	3	0	1	0	2	1	16	0
	2330	,,	1007.8	991.7	..	24.1	22.8	22.1	26.6	89	..	3.1	..	0.9	0	0	5	0	1	1	0	1	1	0	1	26	0
Gharibasa	0830	226	1009.0	983.4	−2.4	26.1	23.0	21.1	25.6	76	0	3.8	+1.0	1.6	0	0	14	0	4	0	2	0	5	0	3	17	0
	1730	,,	1005.3	980.0	..	27.9	24.2	22.5	27.3	72	..	4.5	..	0.1	0	0	2	0	1	0	0	0	1	0	0	29	0
Bihar Plains																											
Motihari	0830	68	1009.6	1002.1	−1.8	27.5	24.5	23.11	28.3	78	+1	(a) 2.3	+0.8	(a) 1.5	0	0	18	1	5	9	0	0	0	3	0	12	0
	1730	,,	1006.0	998.5	..	27.7	25.2	24.1	30.0	81	..	1.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Forbesganj	1830	61	1009.7	1002.8	..	27.0	24.6	23.5	28.9	81	..	3.8	..	2.9	0	0	30	1	8	15	3	0	0	3	0	1	0
	1730	,,	1006.3	999.5	..	28.4	25.3	24.0	29.8	77	..	2.9	..	1.4	0	0	14	0	1	4	2	0	2	5	0	17	0
Darbhanga	0830	49	1010.1	1004.5	−1.5	28.1	25.0	23.7	29.3	77	+6	2.5	+0.6	0.8	0	0	10	0	4	5	1	0	0	0	0	21	0
	1730	,,	1006.8	1001.4	..	29.7	25.9	24.4	30.5	73	..	1.9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Chapra	0830	58	1009.5	1002.9	..	27.4	24.2	22.7	27.6	76	..	2.3	..	1.9	0	0	22	0	6	2	4	0	3	1	6	9	0
	1730	,,	1004.7	998.2	..	29.0	26.3	25.1	31.9	79	..	0.5	..	3.0	0	0	30	0	8	1	3	0	6	5	7	1	0
Purnea	0830	38	1009.5	1005.3	−2.2	27.5	25.1	24.0	29.8	82	+2	3.1	+0.9	2.2	0	0	24	3	3	12	1	0	3	1	0	7	0
	1730	,,	1006.0	1001.7	..	28.0	25.5	24.5	30.7	81	..	3.2	..	1.6	0	0	14	0	2	4	2	2	2	1	1	17	0
Patna	0830	53	1009.3	1003.3	−2.3	27.1	23.6	21.9	26.3	73	+4	2.2	+0.3	6.0	0	0	31	2	9	5	1	1	3	6	4	0	0
	1730	,,	1005.9	1000.0	..	29.4	24.3	21.8	26.1	64	..	2.7	..	3.7	0	0	24	1	4	7	0	2	5	3	2	7	0
Patna Aerodrome	0530	60	1007.1	1000.2	..	23.5	22.7	22.3	26.9	93	..	3.2	..	3.7	0	1	11	1	1	2	3	0	2	2	1	19	0
	0830	,,	1009.0	1002.2	..	26.9	24.0	22.7	27.6	77	..	2.8	..	7.7	0	1	24	1	4	4	4	1	1	3	7	6	0
	1130	,,	1008.1	1001.4	..	29.7	24.6	22.1	26.5	64	..	3.7	..	9.1	0	1	29	2	4	4	8	1	0	3	8	1	0
	1430	,,	1005.6	998.9	..	30.7	24.3	21.1	25.0	58	..	3.8	..	9.4	0	1	28	2	5	5	5	0	0	3	9	2	0
	1730	,,	1005.6	998.9	..	28.5	24.7	22.9	27.9	72	..	3.7	..	2.8	0	0	13	1	0	4	2	1	1	1	3	18	0
	2330	,,	1007.4	1000.6	..	24.8	23.5	22.9	27.9	89	..	1.9	..	2.4	0	0	13	0	0	4	1	1	1	4	2	18	0
Bhagalpur	0530	49	1007.8	1002.4	..	24.5	23.5	23.0	28.1	91	..	5.4	..	2.6	0	0	13	1	2	2	4	0	2	1	1	18	0
	0830	,,	1009.8	1004.3	−1.4	27.9	24.7	23.2	28.3	77	+2	4.7	+1.7	5.2	0	1	27	2	1	7	5	1	4	5	3	3	0
	1130	,,	1008.7	1003.2	..	30.1	25.1	22.7	28.0	65	..	5.4	..	7.0	0	1	28	1	2	11	4	0	2	5	4	2	0
	1730	,,	1006.3	1000.8	..	28.0	24.4	22.7	27.6	74	..	5.5	..	4.6	0	1	23	0	1	3	6	0	6	7	1	7	0
	2330	,,	1008.2	1002.7	..	25.4	23.8	23.0	28.1	86	..	3.5	..	4.1	0	1	23	0	1	3	8	1	10	1	0	7	0
Sabaur	0830	37	1009.6	1005.3	−2.2	27.3	25.0	23.9	29.7	82	+6	4.0	+1.4	5.0	0	0	30	2	2	7	5	0	2	7	5	1	0
	1730	,,	1005.9	1001.6	..	28.2	25.6	24.5	30.7	81	..	4.3	..	2.8	0	0	20	0	2	6	3	0	1	3	5	11	0
Jamui	0830	82	1009.4	1000.1	..	25.9	24.6	24.1	30.0	90	..	1.0	..	3.9	0	0	31	0	2	21	2	0	0	4	2	0	0
	1730	,,	1004.6	995.3	..	26.5	24.9	24.2	30.2	87	..	0.2	..	3.4	0	0	31	0	2	20	3	0	0	4	2	0	0
Dehri	0830	107	1009.2	997.1	..	26.9	23.4	21.7	25.9	73	..	2.0	..	2.9	0	0	30	3	0	0	6	5	3	10	3	1	0
	1730	,,	1005.6	993.5	..	29.0	23.9	21.3	25.3	63	..	2.5	..	3.5	0	0	31	6	3	1	0	0	1	16	4	0	0
Gaya	0230	116	1007.3	994.1	..	23.3	22.8	22.5	27.3	95	..	1.6	..	1.5	0	0	11	0	2	1	2	2	2	1	1	20	0
	0530	,,	1007.7	994.4	..	22.5	22.2	22.1	26.6	97	..	2.3	..	1.3	0	0	9	1	0	2	2	2	2	0	0	22	0
	0830	,,	1009.5	996.3	−1.9	26.2	23.8	22.7	27.6	81	+13	2.5	+0.6	3.7	0	0	22	0	1	3	3	3	5	4	3	9	0
	1130	,,	1008.6	995.7	..	29.6	24.5	22.1	26.6	65	..	3.1	..	6.0	0	0	30	4	3	7	2	1	1	4	8	1	0
	1730	,,	1006.2	993.2	..	28.3	24.5	22.7	27.6	72	..	3.2	..	1.9	0	0	17	1	6	3	1	0	0	0	6	14	0
	2330	,,	1008.1	994.9	..	24.0	23.3	22.9	27.9	93	..	1.7	..	1.4	0	0	17	1	1	3	1	4	4	2	1	14	0
Uttar Pradesh (East)																											
Kheri	0830	147	1008.8	992.0	−2.1	22.9	21.1	20.0	23.4	84	+6	0.4	−0.9	1.0	0	0	14	0	0	3	0	0	1	10	0	17	0
	1730	,,	1005.6	989.1	..	28.3	24.3	22.3	26.9	71	..	0.5	..	0.9	0	0	13	0	0	2	0	0	0	11	0	18	0
Bahraich	0830	124	1009.9	995.8	−1.2	25.2	22.6	20.9	24.7	76	+3	2.1	+1.1	2.8	0	0	16	0	0	5	0	0	0	7	4	15	0
	1730	,,	1006.4	992.5	..	28.6	23.6	21.1	25.0	64	..	1.7	..	0.8	0	0	9	0	0	0	0	0	0	6	3	22	0
Nautanwa	0830	99	1008.5	997.2	..	26.2	23.1	22.6	27.4	81	..	1.8	..	1.8	0	0	23	1	4	9	4	2	2	0	1	8	0
	1730	,,	1005.3	995.0	..	28.8	24.6	22.6	27.4	70	..	1.2	..	0.5	0	0	8	0	1	0	0	0	1	1	5	23	0
Hardoi	0830	142	..	..	..	24.6	20.7	18.5	21.3	69	−7	0.5	−0.9	3.5	0	0	29	7	1	2	1	0	1	13	4	2	0
	1730	,,	..	..	..	30.8	24.6	21.6	25.8	58	..	0.3	..	1.7	0	0	17	3	0	1	0	0	0	11	2	14	0

(a) = Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amoun (Oktas): Mean amount	Cloud amoun (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gonda . . .	0830	110	1009.6	997.2	..	26.8	23.3	21.5	25.6	73	−3	1.2	−0.2	1.5	0	0	16	1	0	6	0	0	1	2	6	15	0
	1730	,,	1005.2	993.4	..	29.0	25.4	23.8	29.5	74	..	0.9	..	0.1	0	0	2	0	0	1	0	0	0	0	1	29	0
Lucknow . .	0830	111	1008.9	996.3	−2.3	25.2	20.9	18.6	21.4	68	−1	0.8	−0.2	0.8	0	0	12	1	0	0	0	0	0	4	7	19	0
	1730	,,	1005.9	993.5	..	30.0	22.4	17.7	20.2	50	..	0.8	..	0.6	0	0	9	0	1	1	0	0	0	4	3	22	0
Lucknow (Amausi) .	0230	128	1007.2	992.7	..	21.1	19.4	18.2	20.9	84	..	0.6	..	2.0	0	0	14	0	1	1	0	0	0	7	3	19	0
	0530	,,	1007.7	993.1	..	20.0	19.0	18.0	20.6	85	..	0.8	..	2.6	0	0	12	1	1	0	0	0	0	8	2	19	0
	0830	,,	1009.4	994.7	−2.1	25.4	21.1	18.4	21.1	66	+10	0.9	−0.1	5.8	0	0	23	3	0	4	1	0	0	9	6	8	0
	1130	,,	1008.8	994.6	..	30.9	21.9	16.0	18.2	43	..	1.5	..	10.8	0	7	19	3	1	2	3	1	0	6	10	5	0
	1430	,,	1006.3	992.2	..	32.0	21.9	15.2	17.3	39	..	1.8	..	12.0	0	7	24	3	8	1	0	1	0	5	13	0	0
	1730	,,	1006.1	991.8	..	29.1	21.9	17.5	20.0	52	..	1.3	..	4.1	0	1	21	2	2	1	1	0	1	7	8	9	0
	2030	,,	1007.9	993.3	..	23.5	20.8	19.2	22.2	77	..	0.3	..	1.6	0	0	12	0	1	1	0	0	0	7	3	19	0
	2330	,,	1008.2	993.5	..	21.8	19.8	18.5	21.3	82	..	0.4	..	1.7	0	0	10	1	0	0	0	0	1	6	2	21	0
Faizabad . .	0830	102	1009.1	997.6	..	26.3	22.6	20.5	24.1	71	..	1.4	..	5.4	0	0	20	3	1	1	4	1	0	7	2	11	1
	1730	,,	1006.1	994.7	..	27.7	23.9	22.0	26.4	72	..	1.9	..	0.7	0	0	6	1	1	1	1	0	1	1	0	25	0
Gorakhpur .	0830	77	1008.3	999.5	−3.1	27.4	23.3	21.9	26.3	70	−5	1.6	+0.4	1.6	0	0	23	1	0	9	1	1	2	7	2	8	0
	1730	,,	1005.2	996.6	..	30.8	23.8	20.1	23.4	54	..	1.5	..	1.6	0	0	24	3	0	1	0	0	4	13	3	7	0
Gorakhpur P.B.O.—	0230	78	1006.9	998.0	..	25.0	..	..	..	..	..	0.7	..	2.2	0	0	18	2	6	2	0	0	0	7	1	13	0
	0530	,,	1007.5	998.5	..	24.1	..	..	..	..	..	1.6	..	2.3	0	0	16	1	3	1	1	0	1	4	5	15	0
	1130	,,	1008.5	999.8	..	30.1	..	..	..	..	..	2.6	..	5.6	0	0	30	0	3	2	8	3	4	5	5	1	0
	1430	,,	1006.0	997.3	..	31.4	..	..	..	..	..	2.3	..	5.0	0	0	29	1	2	0	6	2	2	13	3	2	0
	2030	,,	1007.6	998.7	..	27.1	..	..	..	..	..	0.6	..	0.9	0	0	9	1	1	1	1	0	1	4	0	22	0
	2330	,,	1007.8	998.9	..	26.0	..	..	..	..	..	0.8	..	1.2	0	0	10	2	0	0	2	0	1	4	1	21	0
Kanpur . .	0830	126	1009.2	994.8	−2.2	24.8	20.7	18.1	20.7	67	−1	0.4	−0.3	5.0	0	0	27	8	1	4	0	0	0	13	1	4	0
	1730	,,	1006.2	991.8	..	31.0	22.2	16.7	19.0	44	..	0.5	..	6.2	0	0	29	13	0	1	0	0	0	15	0	2	0
Kanpur (Aerodrome)	0530	126	1007.8	993.4	..	21.2	18.9	17.5	20.0	81	..	1.4	..	5.0	0	0	21	4	0	2	1	0	3	9	2	10	0
	0830	,,	1009.7	995.4	..	25.5	20.9	17.9	20.5	62	..	0.9	..	9.0	0	0	29	6	0	3	3	0	1	13	3	2	0
	1130	,,	1009.2	995.2	..	31.6	22.0	16.1	18.3	41	..	1.5	..	14.0	0	0	31	10	2	5	2	0	0	5	7	0	0
	1730	,,	1006.3	992.3	..	30.5	21.8	16.9	19.2	44	..	1.3	..	9.0	0	0	30	9	2	3	0	0	0	3	13	1	0
	2330	,,	1008.2	994.2	..	23.3	20.1	18.1	20.8	73	..	0.6	..	4.0	0	0	19	2	1	2	0	1	0	8	5	12	0
Sultanpur . .	0830	97	1009.9	998.8	..	26.2	22.8	21.0	24.9	73	..	1.1	..	0.6	0	0	8	0	0	2	0	0	4	1	1	23	0
	1730	,,	1006.0	995.1	..	29.5	24.8	22.6	27.4	67	..	1.1	..	0.3	0	0	4	0	0	1	0	0	1	1	1	27	0
Azamgarh . .	0830	78	1009.4	1000.6	..	26.4	23.7	22.4	27.1	79	..	1.2	..	6.5	0	0	31	5	2	6	0	0	0	17	1	0	0
	1730	,,	1006.2	997.1	..	29.0	24.3	21.9	26.3	67	..	1.1	..	4.5	0	0	31	5	1	8	0	0	0	16	1	0	0
Fatehpur . .	0830	114	1009.9	996.9	..	25.9	21.4	18.7	21.6	65	−3	0.8	−0.5	3.9	0	0	27	5	3	1	1	0	3	8	6	4	0
	1730	,,	1006.8	993.6	..	29.9	22.7	18.6	21.4	52	..	0.8	..	2.1	0	0	18	2	4	2	0	0	0	2	8	13	0
Ballia . . .	0830	64	1010.6	1002.9	..	27.0	24.0	22.4	27.1	76	..	2.3	..	1.5	0	0	19	1	3	7	1	2	1	2	2	12	0
	1730	,,	1007.3	1000.2	..	29.4	25.2	23.2	28.4	70	..	3.0	..	0.4	0	0	5	0	0	3	1	0	0	1	0	26	0
Banda . . .	0830	121	1010.7	996.9	..	26.7	21.8	18.8	21.7	62	..	1.0	..	1.4	0	0	21	0	3	1	0	0	11	4	2	10	0
	1730	,,	1006.4	992.9	..	31.2	24.1	20.1	23.5	52	..	0.8	..	1.8	0	0	27	0	6	0	1	0	6	3	11	4	0
Allahabad (Bamhrauli)	0230	98	1007.4	996.2	..	22.6	20.5	19.2	23.0	82	..	0.8	..	0.3	0	0	4	0	0	0	0	0	2	2	0	27	0
	0530	,,	1007.9	996.6	..	21.6	20.1	19.1	22.7	85	..	1.4	..	0.6	0	0	7	0	1	1	0	2	1	2	0	24	0
	0830	,,	1009.7	998.6	−1.7	26.1	21.5	19.4	23.2	67	0	1.3	−0.4	2.0	0	0	27	12	1	1	1	0	1	8	3	4	0
	1130	,,	1009.0	998.2	..	31.6	23.0	17.9	21.5	46	..	1.6	..	3.7	0	0	28	3	8	1	0	1	1	9	5	3	0
	1430	,,	1006.3	995.5	..	32.4	23.1	17.4	20.9	44	..	2.3	..	4.9	0	0	30	6	8	2	0	0	0	6	8	1	0
	1730	,,	1006.2	995.2	..	30.2	23.2	19.1	22.6	53	..	1.6	..	1.1	0	0	15	4	6	0	0	0	0	2	5	16	0
	2030	,,	1007.8	996.7	..	25.6	21.8	19.7	13.5	70	..	1.1	..	0.2	0	0	3	0	1	0	1	0	0	0	1	28	0
	2330	,,	1008.2	997.0	..	23.7	20.9	19.1	22.9	76	..	0.7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Varanasi (Babalpur) .	0530	85	1008.5	998.6	..	23.8	21.8	20.2	23.7	83	..	1.8	..	2.0	0	0	9	0	1	1	1	0	4	2	10	22	0
	0830	,,	1010.4	1000.7	−1.2	26.1	23.0	21.4	25.5	76	+5	1.6	−0.5	6.7	0	0	26	2	1	3	3	0	7	10	0	5	0
	1130	,,	1009.6	999.9	..	30.6	23.4	19.4	22.5	53	..	2.1	..	10.1	0	0	28	2	0	5	3	0	2	10	4	3	2
	1730	,,	1006.9	997.2	..	29.3	23.5	20.2	23.7	60	..	2.3	..	6.6	0	0	25	2	1	4	4	0	1	10	3	6	0
	2330	,,	1008.7	998.9	..	25.8	22.4	20.4	24.0	73	..	1.1	..	2.0	0	0	10	0	1	3	0	0	1	5	0	21	0
Varanasi . .	0830	76	1009.3	1000.7	−2.1	26.3	22.9	21.1	25.0	74	+5	1.2	−0.5	2.2	0	0	31	0	3	3	2	2	5	12	4	0	0
	1730	,,	1006.1	998.9	..	30.5	23.9	21.0	24.9	58	..	2.3	..	1.5	0	0	23		2	1	2	2	0	12	1	8	0
Utter Pradesh (West)																											
Mukhim .	0830	76	..	..	..	17.9	13.2	9.8	12.1	61	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	17.6	12.6	8.8	11.3	56	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —(*Contd.*)																											
Tehri	0830	..	..	..	..	19·3	16·6	14·8	16·8	75	..	0·5	..	0·3	0	0	3	1	1	0	0	0	0	1	0	28	0
	1130	..	..	..	..	26·2	16·6	13·7	15·7	46	..	0·6	..	0·7	0	0	6	2	0	2	0	2	0	0	0	25	0
	1730	..	..	..	..	27·0	18·9	13·8	15·8	44	..	0·5	..	2·9	0	0	16	0	3	2	1	5	2	3	0	15	0
Debra Dun	0530	682	1009·4	932·6	..	17·5	15·1	13·3	15·3	77	..	0·5	..	1·0	0	0	12	5	7	0	0	0	0	0	0	19	0
	0830	,,	1009·7	934·0	—1·6	21·9	17·4	14·6	16·6	64	—4	0·2	—0·8	0·4	0	0	6	6	0	0	0	0	0	0	0	25	0
	1130	,,	1008·7	934·3	..	27·4	19·6	14·8	16·8	47	..	0·7	..	1·0	0	0	14	0	0	0	1	1	5	7	0	17	0
	1730	,,	1006·4	931·8	..	27·1	20·5	17·3	19·7	54	..	0·7	..	0·6	0	0	9	0	0	0	0	0	4	5	0	22	0
	2330	,,	1009·3	933·2	..	19·9	16·9	15·0	17·0	73	..	0·1	..	2·0	0	0	18	7	10	0	0	0	0	1	0	13	0
Mussoorie	0830	..	..	..	..	16·2	11·0	6·7	9·8	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·7	11·8	8·8	11·3	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1009·5	978·3	—2·1	21·7	18·9	17·1	19·5	75	+3	0·5	—0·1	0·2	0	0	4	0	0	0	3	0	0	0	1	27	0
	1730	,,	1006·5	976·1	..	28·5	21·6	17·4	19·9	50	..	0·5	..	0·6	0	0	10	0	0	0	0	0	0	0	10	21	0
Najibabad	0830	270	1010·4	979·6	..	21·5	19·2	17·8	20·4	80	..	0·2	..	1·2	0	0	14	1	3	6	0	0	0	1	3	17	0
	1730	,,	1007·3	977·4	..	29·6	22·2	17·9	20·5	50	..	0	..	2·8	0	0	25	0	0	3	0	0	2	9	11	6	0
Meerut	0830	222	1009·4	986·0	+0·1	25·3	19·4	15·2	17·3	55	—12	0	0·5	(b) 5·0	0	0	27	1	0	1	1	1	0	13	10	2	0
Bareilly	0830	173	1009·5	989·7	—1·8	22·3	20·1	18·7	21·6	81	+8	0·2	—0·7	3·4	0	0	28	10	8	2	1	1	0	1	5	3	0
	1730	,,	1006·0	986·7	..	28·6	22·6	19·5	22·7	59	..	0·5	..	2·6	0	0	27	3	2	0	0	0	1	4	17	4	0
Bareilly (P.B.O.)	0230	172	1007·8	987·7	..	22·1	19·2	17·3	19·4	72	..	0·1	..	2·0	0	0	16	0	1	1	0	0	0	12	2	15	0
	0530	,,	1007·5	988·0	..	21·6	18·7	17·1	19·5	76	..	0·1	..	1·6	0	0	17	0	0	1	0	0	1	13	2	14	0
	1130	,,	1008·9	989·6	..	28·7	21·2	19·6	22·8	51	..	0·6	..	3·5	0	0	26	0	0	3	1	1	1	8	12	5	0
	1430	,,	1006·5	987·3	..	31·6	21·5	16·2	18·4	41	..	0·8	..	5·6	0	0	29	3	1	0	3	0	0	13	9	2	0
	2030	,,	1007·6	988·0	..	25·5	20·5	17·8	21·7	63	..	0	..	1·7	0	0	14	0	1	0	0	0	1	12	0	17	0
	2330	,,	1008·1	988·4	..	23·8	19·7	17·4	19·9	68	..	0	..	1·7	0	0	14	0	0	1	0	0	0	13	0	17	0
Aligarh	0830	187	1010·3	988·7	..	24·6	19·3	15·8	17·9	58	+7	0·5	0	2·7	0	0	29	4	2	1	0	0	1	17	4	2	0
	1730	,,	1006·5	985·2	..	30·5	21·1	15·1	17·1	40	..	0·7	..	2·5	0	0	29	6	0	0	0	1	0	8	14	2	0
Mainpuri	0830	157	1009·8	991·6	—1·6	24·9	20·5	17·8	20·4	65	+3	0·4	—0·6	2·4	0	0	25	0	1	0	4	0	5	1	14	6	0
	1730	,,	1006·5	988·8	..	29·6	22·7	18·8	21·7	53	..	0·1	..	1·9	0	0	21	0	0	0	1	0	6		12	10	0
Agra	0830	169	1010·6	991·4	—0·8	24·5	19·3	15·6	17·7	58	+6	0	—0·8	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1007·2	988·4	..	30·1	21·7	16·1	18·3	45	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra (Aerodrome)	0230	(R)169	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0530	,,	1008·9	989·3	..	18·2	17·0	16·0	18·2	87	..	0·4	..	4·0	0	0	17	3	1	0	0	0	0	2	11	14	0
	0830	,,	1010·2	991·0	..	23·7	20·0	17·5	20·0	69	..	0·4	..	6·8	0	0	23	4	2	1	0	0	0	4	12	8	0
	1130	,,	1009·9	991·1	..	30·9	21·8	16·4	18·6	43	..	0·7	..	9·4	0	0	27	14	2	1	0	1	0	0	9	4	0
	1730	,,	1006·8	988·2	..	28·9	21·7	17·4	19·9	50	..	0·8	..	5·6	0	0	23	14	5	1	0	0	0	0	3	8	0
	2330	,,	1009·1	991·9	..	21·8	18·7	17·1	19·5	76	..	0·3	..	3·0	0	0	13	6	3	0	0	0	0	2	2	18	0
Orai (R)	0830	141	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jhansi	0830	251	1010·9	982.5	—1·0	25.1	19.1	15.3	17.4	56	+1	0.2	—0·8	1.1	0	0	21	9	1	3	0	0	1	2	5	10	0
	1730	,,	1006·7	979.0	..	30.2	21.2	14.2	16·1	36	..	0.3	..	1.1	0	0	19	9	0	6	0	1	0	1	2	12	0
Punjab (India) (Including Delhi)																					0	0	1				0
Pathankot	0530	312	1009·2	973.6	..	17.2	15.4	14.1	16.2	82	..	0.1	..	0.8	0	0	5	3	2	0	0	0	1	0	0	26	0
	0830	,,	1010·4	975.0	—0·5	22·5	17.6	14.2	16·2	60	0	0.3	—0·9	3.4	0	0	16	4	4	7	0	0	1	0	0	15	0
	1130	,,	1010·0	975.4	..	29·5	19.9	13.9	15.9	39	..	0.5	..	5.0	0	0	25	0	1	2	0	0	8	2	1	6	2
	1730	,,	1007·2	972.5	..	29·6	19.5	12.2	14·2	35	..	0.7	..	3.6	0	0	18	2	0	0		0	3	12	1	13	0
	2330	,,	1009·8	974.0	..	18·8	16.4	14.6	16.6	77	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Amritsar (Rajasansi)	0530	234	1009·3	982.0	..	15.8	14.6	13.5	15.7	86	..	0	..	1.7	0	0	8	0	2	4	1	0	1	0	0	23	0
	0830	,,	1010·6	983.9	—0·4	21.3	17.7	15.2	17.4	68	—6	0.1	—0·6	1.6	0	0	8	0	0	2		2	1	1	1	23	0
	1130	,,	1010·4	984.3	..	29.6	19.5	12.2	14.4	35	..	0.1	..	5.0	0	0	21	0	3	1	2	2	2	7	4	10	0
	1430	,,	1008·0	982.2	..	32.0	19.3	9.6	11.9	26	.	0.2	..	8.8	0	1	25	2	0	1	2	0	2	6	13	5	0
	1730	,,	1007·4	981.4	..	29.5	19.5	12·4	14.5	35	..	0.1	..	6.5	0	0	22	0	0	0	0	0	0	4	18	9	0
	2030	,,	1009·1	982.3	..	21.4	17.4	14.6	16·6	66	..	0	..	2.8	0	0	8	0	0	0	0	0	0	4	4	23	0
Adampur (Aerodrome)	0830	249	1010·5	982.0	..	20.4	18.1	16.5	18.8	79	..	0.1	..	2.0	0	0	8	1	3	1	2	0	0	0	1	23	0
	1730	,,	1007·9	979.9	..	26.4	20.2	16.2	18.4	54	..	0.6	..	6.0	0	0	23	0	0	0	0	0	0	2	21	8	0
Ludhiana	0830	247	1010·1	981.9	—1·3	22.4	17.6	14.1	16.2	61	0	0·1	—0·5	1·2	0	0	18	0	4	1	2	2	1	4	4	13	0
	1730	,,	1007·2	979·7	..	28·9	20.7	15·5	17·7	45	..	0	..	1.6	0	0	25	1	4	0	0	0	4	5	11	6	0
Ferozepur	0830	200	1010·9	988·1	..	23.1	18.1	14·5	16.0	59	..	0	..	0.4	0	0	6	1	0	0	0	0	2	0	3	25	0
	1730	,,	1008·3	985.6	..	28.1	22.3	18.7	21.6	59	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

(b) Mean of 29 days.

(R) Register not recevied

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)— *(Contd.)*																											
Halwara (Aerodrome)	0830	242	1011.5	983.0	..	21.5	18.2	15.8	18.0	71	..	0.2	..	2.8	0	0	12	1	0	2	1	2	1	0	5	19	0
	1730	,,	1007.6	980.9	..	28.4	19.1	12.3	14.3	37	..	0.2	..	7.2	0	0	30	4	2	1	0	0	1	2	20	1	0
Chandigarh . .	0830	347	1009.6	970.1	−1.4	24.5	18.8	14.4	16.4	54	−8	0	−1.0	1.2	0	0	12	0	0	0	2	0	0	0	10	19	0
	1730	,,	1006.7	967.7	..	29.8	20.2	12.1	14.1	38	..	0	..	0.9	0	0	13	0	0	0	11	0	0	0	2	18	0
Ambala . . .	0830	272	1009.2	978.5	−1.8	23.1	17.6	13.4	15.4	55	−5	0.1	−0.6	0.4	0	0	5	1	1	0	0	0	0	1	2	26	0
	1730	,,	1006.6	976.5	..	29.9	20.3	13.8	15.8	38	..	0	..	2.5	0	0	22	0	3	0	8	0	1	2	8	9	0
Ambala *(P.B.O.) .	0230	278	..	..	..	..	..	..	..	..	..	0	..	5.0	0	0	19	1	0	0	1	0	0	3	14	12	0
	0530	,,	..	..	..	..	..	..	..	..	..	0.1	..	3.9	0	0	16	2	0	1	1	0	0	3	9	15	0
	1130	,,	..	..	..	..	..	..	..	..	..	0.2	..	7.5	0	2	22	2	1	0	2	0	1	3	15	7	0
	1430	,,	..	..	..	..	..	..	..	..	..	0.3	..	9.8	0	2	26	1	0	0	0	0	0	3	24	3	0
	2030	,,	..	..	..	..	..	..	..	..	..	0	..	6.0	0	0	27	0	0	0	0	0	0	7	20	4	0
	2330	,,	..	..	..	..	..	..	..	..		0	..	5.7	0	0	21	0	0	0	0	0	0	1	20	10	0
Ambala (Aerodrome)	0530	274	1008.5	976.7	..	16.3	15.7	15.0	17.0	93	..	0.1	..	5.2	0	0	15	0	0	1	2	0	0	0	11	16	0
	0830	,,	1010.1	978.4	..	21.4	18.8	17.1	19.5	77	..	0.2	..	6.0	0	0	16	3	0	0	4	0	0	0	9	15	0
	1130	,,	1008.8	978.0	..	29.4	21.6	16.1	18.3	47	..	0.3	..	15.0	0	0	28	1	0	0	2	0	2	4	18	3	1
	1730	,,	1006.7	975.9	..	27.4	20.4	15.2	17.3	51	..	0.2	..	13.0	0	0	29	0	0	0	0	1	1	5	22	2	0
	2330	,,	1007.1	977.5	..	18.3	16.7	15.4	17.5	81	..	0	..	5.0	0	0	16	0	0	0	0	0	0	0	16	15	0
Patiala . . .	0830	251	1010.4	981.9	..	22.4	18.5	15.7	17.8	67	..	0.4	..	4.7	0	0	21	0	0	0	3	0	0	0	18	10	0
	1730	,,	1007.2	979.2	..	27.9	20.1	14.7	16.7	46	..	0.2	..	2.4	0	0	8	0	0	0	0	0	0	0	8	23	0
Bhatinda . .	0830	211	1010.2	986.6	..	26.0	20.3	16.8	19.1	56	..	0.1	..	0.5	0	0	5	0	0	0	2	0	2	0	1	26	0
	1730	,,	1008.7	985.3	..	31.3	23.9	18.6	21.4	48	..	0.1	..	0.9	0	0	10	0	0	0	3	0	3	0	4	21	0
Karnal . . .	0830	249	1010.2	981.9	..	23.5	18.7	15.2	17.3	61	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1006.5	978.9	..	28.8	21.0	15.9	18.5	48	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Hissar . . .	0530	221	1009.6	983.9	..	17.5	16.1	15.1	17.1	86	..	0.4	..	2.7	0	0	28	2	2	0	1	2	3	8	10	3	0
	0830	,,	1011.3	985.7	−0.6	21.2	18.5	16.8	19.1	77	+23	0.3	−0.3	2.2	0	0	23	2	1	0	1	4	10	4	1	8	0
	1130	,,	1010.4	985.9	..	31.5	24.8	21.5	25.6	56	..	0.1	..	3.6	0	0	31	3	3		2	2	0	8	11	0	0
	1730	,,	1007.5	983.0	..	31.1	25.0	22.1	26.6	60	..	0.7	..	4.0	0	0	23	0	0	0	0	0	0	6	11	8	0
	2330	,,	1009.6	984.3	..	21.0	18.4	16.7	19.0	77	..	0.5	..	2.2	0	0	26	5	4	2	1	0	0	3	11	5	0
New Delhi (Safdarjung)	0230	216	1008.5	983.7	..	21.3	17.6	14.8	16.8	67	..	0.2	..	3.2	0	0	21	2	2	0	0	0	6	8	3	10	0
	0530	,,	1008.8	983.9	..	20.0	16.9	14.6	16.6	77	..	0.1	..	4.0	0	0	23	1	0	0	0	0	10	11	1	8	0
	0830	,,	1010.4	985.7	−1.0	23.1	18.1	14.4	16.4	59	+1	0.4	−0.5	7.5	0	0	31	0	0	1	1	0	8	15	6	0	0
	1130	,,	1010.0	985.8	..	29.8	19.9	13.0	15.0	36	..	0.4	..	10.1	0	3	26	0	1	2	0	0	1	7	18	2	0
	1430	,,	1007.4	983.5	..	32.0	20.2	11.7	13.7	30	..	0.3	..	13.2	0	3	27	1	1	1	0	0	0	3	24	1	0
	1730	,,	1007.0	983.0	..	30.2	20.1	13.1	15.1	36	..	0.5	..	4.6	0	0	28	2	1	0	0	0	0	5	20	3	0
	2030	,,	1008.5	984.0	..	24.6	19.2	15.5	17.6	57	..	0.3	..	2.3	0	0	16	0	0	0	0	0	0	6	10	15	0
	2330	,,	1009.1	984.4	..	22.3	18.1	15.1	17.1	64	..	0.2	..	2.5	0	0	16	1	0	0	0	1	1	8	5	15	0
Palam (Aerodrome) .	0230	(R) 233																									
	0530	,,	1008.0	982.1	..	18.2	15.9	14.1	16.1	77	..	0.1	..	3.9	0	0	19	1	0	0	0	1	12	4	1	12	0
	0830	,,	1010.0	984.0	..	22.4	18.3	15.2	17.3	65	..	0.4	..	4.2	0	0	26	0	0	1	0	0	11	9	5	5	0
	1130	,,	1010.2	984.2	..	29.5	20.8	15.2	17.3	41	..	0.2	..	8.2	0	0	30	3	0	2	1	1	0	6	16	1	1
	1430	(R) ,,																									
	1730	,,	1007.1	981.4	..	30.2	20.2	13.5	15.5	37	..	0.7	..	6.4	0	0	31	15	2	1	0	0	0	2	11	0	0
	2030	,,	1008.8	981.6	..	19.4	16.8	14.7	16.3	75	..	0.2	..	3.5	0	0	20	1	0	1	1	2	13	0	2	11	0
	2330	,,	1009.4	982.8	..	21.6	17.7	15.3	17.4	66	..	0.2	..	3.0	0	0	19	2	1	1	3	1	7	3	1	12	0
Himachal Pradesh																											
Mandi . . .	0830	761	1013.6	927.8	+0.3	16.9	14.8	13.4	15.4	80	−1.9	0	−19	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1007.0	924.6	..	25.2	19.5	16.2	18.4	59	..	0.5	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Bilaspur . .	0830	587	1010.7	943.9	..	17.6	15.8	14.8	16.8	88	..	0	..	0.1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1007.2	943.1	..	29.3	22.1	18.5	21.3	53	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgar (R)	0830	..																									
(R)	1730	..																									
Gilgit (R)	0830	..																									
(R)	1730	..																									
Sakardu (R)	0830	..																									
(R)	1730	..																									

*(Pressure Temperature) Date not recorded

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir —(*Contd.*)																											
Leh	0530	3514	3139·3	668·3	..	−1·9	−4·9	−11·1	2·3	48	..	0	..	5·5	0	0	30	11	18	0	0	1	0	0	0	1	0
	0830	,,	3140·6	669·5	+0.4	8·7	2·8	−4·8	4·0	41	−5	0	−2·2	1.4	0	0	11	0	0	0	0	10	1	0	0	20	0
	1730	,,	3130.3	669.5	..	14.9	5.2	−8.8	2.9	22	..	0.2	..	4.8	0	0	30	0	0	0	1	3	15	6	5	1	0
Srinagar	0830	1587	1519.3	843.3	−1.3	9.5	8.0	6.5	9.7	82	−4	0.5	−1.4	1.9	0	0	19	0	1	1	13	1	0	2	1	12	0
	1130	,,	1516.0	843.2	..	19.2	12.6	7.3	10.4	46	..	0.6	..	1.9	0	0	17	4	0	0	0	2	1	4	6	14	0
	1430	,,	1489·9	840.7	..	23.2	14.3	6.9	10.1	35	..	1·0	..	2.3	0	0	15	2	0	0	0	1	1	5	6	16	0
	1730	,,	1483·6	840·0	..	19·2	12·9	8·1	10·8	49	..	1·1	..	2·1	0	0	17	5	0	0	0	2	2	3	5	14	0
	2030	,,	1493·5	840·8	..	13.1	10·6	8·6	11·1	73	..	0·8	..	1·9	0	0	13	3	2	0	0	2	2	5	1	18	0
Srinagar (Aerodrome)	0530	1666	1499·1	833·5	..	8·2	5·6	2·8	7·5	68	..	0·3	..	0·6	0	0	5	0	0	1	0	0	0	1	3	26	0
	0830	,,	1510·9	834·8	..	12·0	7·8	3·4	7·8	56	..	0·8	..	3·0	0	0	18	2	1	5	2	2	0	1	5	13	0
	1130	,,	1508.2	835·0	..	18·3	11·1	4·6	8·5	41	..	0·9	..	3·7	0	0	20	10	1	3	0	1	0	1	4	11	0
	1730	,,	1473·0	832·9	..	20·9	11·5	2·9	7·5	31	..	1.6	..	3·6	0	0	16	3	2	0	1	0	0	2	8	15	0
	2330	,,	1495·9	833·3	..	11·6	7·4	2·9	7·5	56	..	0·3	..	0·3	0	0	2	0	0	0	0	1	0	1	0	29	0
Gulmerg	0830	2655	Closed during winter months																								
	1730	,,																									
Quazigund	0830	..	..	..	..	11·8	8·3	4·9	8·7	63	..	0·6	..	0·5	0	0	7	0	0	0	5	3	0	1	1	24	0
	1730	.	..	..	..	19·1	12·0	5·9	9·3	42	..	1·3	..	6·5	0	2	24	0	1	0	3	3	16	3	0	5	0
Banihal	0330	..	..	..	..	11·6	9·1	6·8	10·0	73	..	0·5	..	1·1	0	0	5	2	0	1	0	0	0	1	1	26	0
	1730	,,	..	..	..	20·1	13·2	7·8	10·6	46	..	0·8	..	4·4	0	0	19	1	0	2	4	6	0	2	4	12	0
Jammu	0830	..	..	..	..	20·8	16·2	12·5	14·7	60	+7	0	−0·9	9·6	0	0	31	3	16	0	0	0	0	0	0	0	12
	1730	,,	..	..	..	27·9	19·8	14·1	16·5	43	..	0	..	0·3	0	0	4	0	0	0	0	1	0	3	0	27	0
Jammu (Aerodrome)	0530	292	1009·1	975·4	..	18·9	15·3	12·2	14·2	65	..	0·1	..	6·0	0	0	23	1	19	2	0	1	0	0	0	8	0
	0830	,,	1010·4	976·9	..	21·3	16·7	13·1	15·1	60	..	0·2	..	6·1	0	0	26	2	22	1	0	1	0	0	0	5	0
	1130	,,	1010·3	977·6	..	27·7	19·8	14·5	16·5	44	..	0·5	..	2·9	0	0	16	0	5	2	0	3	4	2	0	15	0
	1730	,,	1007·3	974·7	..	28·9	20·3	14·6	16·6	43	..	0·4	..	2·4	0	0	16	0	2	0	0	1	4	8	1	15	0
	2330	,,	1009·5	976·5	..	20·7	16·2	12·6	14·6	60	..	0	..	5·0	0	0	22	0	19	3	0	0	0	0	0	9	0
Rajasthan (West)																											
Ganganagar	0530	177	1009·0	988·4	..	17·9	14·8	12·3	14·3	70	..	0	..	1·0	0	0	8	2	1	1	1	2	1	0	0	23	0
	0830	,,	1010·7	990·2	−0·3	20·5	16·0	12.5	14·4	60	0	0	−0·7	1·3	0	0	12	0	0	0	6	0	6	0	0	19	0
	1130	,,	1010·3	990·6	..	31.4	19·8	11·3	13·3	29	..	0·1	..	4.2	0	0	25	2	1	1	5	1	7	5	3	6	0
	1730	,,	1007·1	987·7	..	31·8	20.1	12·0	14·0	30	..	0·3	..	1·4	0	0	13	1	1	1	0	0	2	3	5	18	0
	2330	,,	1009·2	988·9	..	21·3	16·3	12·6	14·5	58	..	0	..	1·3	0	0	10	1	5	1	2	0	1	0	0	21	0
Anupgarh (R)	0830	,,																									
(R)	1730	,,												(a)													
Mahajan	0830	187	1008·9	987·7	..	23·3	19·4	16·4	18·6	66	..	0·2	..	3·5	0	0	21	0	0	2	7	2	7	3	0	9	0
	1730	,,	1005·8	985·3	..	32·9	23·4	17·3	19·7	43	..	0·2	..	3·7	0	0	25	1	2	0	3	2	8	4	5	6	0
Churu	0830	291	1011·2	978·0	..	22·2	14·4	7·6	10·4	40	..	0·2	..	3·0	0	0	21	0	0	1	2	6	5	6	1	10	0
	1730	,,	1007·2	975·2	..	32·2	17·5	3·6	7·9	17	..	0·6	..	6·4	0	0	31	18	0	2	1	0	1	2	7	0	0
Bikaner	0830	224	1010·8	985·0	−0·8	21·9	14·3	6·3	10·2	38	−9	0	−0·6	2·3	0	0	19	1	1	1	8	1	1	4	2	12	0
	1730	,,	1006·8	982·3	..	33·7	18·6	5·0	9·1	18	..	0·2	..	3·1	0	0	25	7	5	0	0	0	2	4	7	6	0
Bikaner PBO	0530	224	1009·4	983·3	..	17·5	12·5	7·5	10·4	52	..	0·2	..	1·4	0	0	7	0	0	0	0	0	5	2	0	24	0
	1130	,,	1010·1	985·4	..	32·6	19·1	8·0	11·1	23	..	0·3	..	3·6	0	0	22	1	1	1	4	4	3	8	0	9	0
	2330	,,	1009·6	983·9	..	22·1	14·9	8·7	11·2	43	..	0·4	..	9·0	0	0	5	0	2	0	0	0	3	0	0	26	0
Nagaur	0830	298	1010·5	977·0	..	26·9	20·0	15·9	17·3	50	..	0·2	..	4·4	0	0	31	2	3	6	5	4	3	7	1	0	0
	1730	,,	1007·0	974·2	..	31·9	23·6	19·1	22·1	47	..	0·7	..	4·0	0	0	31	4	5	2	2	1	4	7	6	0	0
Phalodi	0830	234	1010·6	984·1	..	22·8	16·6	11·3	13·4	50	..	0·2	..	6·0	0	0	29	4	1	3	4	6	4	5	2	2	0
	1730	,,	1007·9	982·2	..	33·8	21·7	13·3	15·3	31	..	0·7	..	7·0	0	0	31	7	6	2	1	4	4	5	2	0	0
Jaisalmer	0830	242	1010·0	982·5	..	23·5	18·4	15·0	17·0	58	..	0·3	..	6·8	0	2	16	3	1	1	0	7	6	0	0	13	0
	1730	,,	1006·4	979·7	..	34·2	27·6	24·8	31·3	60	..	0·8	..	13·5	0	6	21	8	3	0	1	6	5	3	1	4	0
Jodhpur	0230	224	1008·7	983·2	..	22·1	15·0	7·7	10·5	40	..	0·1	..	4·8	0	0	22	4	9	0	0	1	0	7	1	9	0
	0530	,,	1009·0	983·2	..	21·6	14·5	8.0	10.7	42	..	0·2	..	4·1	0	0	22	8	10	0	0	0	1	3	0	9	0
	0830	,,	1010·8	985·2	+0.3	23.3	15.2	7.9	10.7	39	−12	0.7	−0.3	3.1	0	1	18	1	12	1	0	0	4	0	0	13	0
	1130	,,	1010.3	985.4	..	32.0	18.7	7.0	10.8	22	..	0.5	..	5.5	0	0	23	1	5	7	2	1	5	1	1	8	0
	1430	,,	1007.5	982.9	..	35.2	19.3	5.2	8.8	17	..	0.9	..	7.4	0	1	28	5	5	3	0	4	6	5	1	2	0
	1730	,,	1006.8	982.2	..	34.3	19.5	7.5	10.4	20	..	0.8	..	6.5	0	2	23	7	5	0	0	3	6	3	1	6	0
	2030	,,	1008.6	983.5	..	27.9	17.3	7.9	11.4	29	..	0.5	..	4.8	0	0	23	6	7	0	1	1	1	6	1	8	0
	2330	,,	1009.3	983.9	..	25.1	15.9	7.2	10·1	33	..	0.4	..	6.0	0	1	22	5	9	0	0	1	2	5	1	8	0

(R) Register not received.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)																											
Barmer . . .	0530	194	1007.9	985.8	..	23.3	18.7	15.5	18.1	62	..	0.1	..	2.5	0	0	23	1	0	0	1	1	0	7	13	8	0
	0830	,,	1010.1	988.0	—1.2	24.8	19.9	16.9	19.7	63	+7	0.5	—0.2	2.9	0	0	18	4	0	0	1	0	2	2	9	13	0
	1130	,,	1010.0	988.4	..	32.9	25.2	21.4	25.8	52	..	0.6	..	3.5	0	0	23	5	4	3	3	1	3	1	3	8	0
	1730	,,	1006.6	985.2	..	34.4	25.9	21.9	26.4	49	..	1.1	..	4.6	0	0	17	3	2	0	2	2	5	0	3	14	0
	2330	,,	1008.7	986.8		27.1	21.0	17.4	20.3	56	..	0.3	..	2.6	0	0	24	1	0	0	0	0	3	8	12	7	0
Erinpura (Jawai Dam)	0830	295	1010.5	976.9	..	22.3	18.7	16.2	18.4	69	..	0.3	..	1.7	0	0	2	0	0	0	0	2	0	0	0	29	0
	1730	,,	1007.0	974.6	..	27.7	22.6	19.2	22.2	58	..	1.0	..	0.4	0	0	5	3	1	0	0	0	0	1	0	26	0
Munabao . (R)	0830	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..
Rajasthan (East)																											
Pilani . . (R)	0830	301	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sikar . . .	0830	433	1010.7	962.4	..	24.7	16.8	10.3	12.5	40	..	0.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1004.5	957.6	..	31.7	20.1	11.7	13.7	31	..	0.6	..	1.0	0	0	15	2	0	3	0	0	0	6	4	16	0
Alwar . . .	0830	271	1009.4	978.7	..	24.1	20.1	17.6	20.1	67	..	0.3	..	0.9	0	0	11	1	4	0	1	2	3	0	0	20	0
	1730	,,	1006.6	976.7	..	30.3	23.8	20.7	24.4	57	..	0.8	..	0.8	0	0	8	3	1	1	0	0	0	0	3	23	0
Jaipur (Sanganer) . . .	0230	390	1008.8	964.4	..	20.4	14.9	10.9	12.4	53	..	0.2	..	2.2	0	0	15	8	2	3	0	0	0	0	2	16	0
	0530	,,	1009.2	964.7	..	19.2	14.5	10.3	12.5	57	..	0.3	..	2.1	0	0	14	7	1	4	0	0	0	0	2	17	0
	0830	,,	1010.2	966.5	—1.8	25.1	17.5	11.7	13.7	44	—3	0.5	—0.5	2.2	0	0	10	2	2	2	0	0	0	0	4	21	0
	1130	,,	1009.4	966.6	..	31.4	19.3	10.2	12.4	27	..	0.7	..	7.3	0	0	26	2	2	3	4	1	0	3	11	5	0
	1430	,,	1006.7	964.2	..	33.0	19.5	9.2	11.6	24	..	1.1	..	8.1	0	0	30	5	1	4	0	1	2	6	11	1	0
	1730	,,	1006.3	963.6	..	31.1	18.9	9.2	11.6	26	..	1.1	..	3.1	0	0	19	4	2	1	0	0	1	1	10	12	0
	2030	,,	1008.8	965.0	..	24.2	16.7	10.5	12.7	43	..	0.9	..	2.6	0	0	17	10	2	2	0	0	0	0	3	14	0
	2330	,,	1009.4	965.3	..	22.3	15.8	10.2	12.4	47	..	0.5	..	2.0	0	0	17	9	4	3	0	0	0	0	1	14	0
Dholpur . . .	0830	176	1010.0	990.0	..	24.1	20.1	17.6	20.1	68	..	0.4	..	1.3	0	0	11	1	0	0	1	0	1	6	2	20	0
	1730	,,	1006.4	986.8	..	29.6	22.5	18.3	21.0	51	..	0	..	0.3	0	0	4	1	1	0	0	0	1	1	0	27	0
Ajmer . . .	0830	486	1011.2	956.7	—1.2	22.8	16.7	12.3	14.3	52	+5	0.5	—0.4	1.7	0	0	7	0	2	0	1	0	2	2	0	24	0
	1730	,,	1007.0	954.2	..	30.9	18.5	8.9	11.4	27	..	0.9	..	3.7	0	0	16	4	1	0	1	0	2	3	5	15	0
Tonk . . .	0830	272	1010.0	979.1	..	22.7	18.7	16.1	18.3	66	..	1.0	..	3.6	0	0	31	4	2	2	4	1	1	6	11	0	0
	1730	,,	1005.6	975.8	..	30.7	22.4	17.6	20.1	47	..	1.0	..	2.6	0	0	30	8	1	2	1	0	0	3	15	1	0
Bhilwara . .	0830	425	1010.7	963.2	..	24.3	16.8	10.3	12.5	40	..	2.0	..	2.5	0	0	14	3	1	0	2	0	0	2	6	17	0
	1730	,,	1006.4	960.0	..	31.0	19.1	9.7	12.0	28	..	2.5	..	3.7	0	0	20	8	5	0	2	0	0	0	5	11	0
Kota (Aerodrome) .	0530	274	1008.9	977.7	..	21.4	15.7	10.9	13.0	52	..	0.9	..	2.9	0	0	23	1	0	1	0	0	7	14	0	8	0
	0830	,,	1010.7	979.9	..	26.5	17.6	10.6	12.8	39	..	1.3	..	3.2	0	1	16	1	0	1	1	1	1	8	4	14	0
	1130	,,	1009.9	979.7	..	31.6	19.2	9.7	12.0	26	..	0.9	..	6.3	0	1	27	3	7	7	3	0	0	3	5	3	0
	1730	,,	1006.8	976.7	..	32.6	19.1	8.3	10.9	23	..	1.4	..	4.9	0	0	24	15	7	0	0	0	0	0	2	7	0
	2330	,,	1009.4	978.4	..	24.6	16.8	10.6	12.8	41	..	0.5	..	3.2	0	0	17	1	0	2	0	1	4	9	0	14	0
Kota . . .	0830	257	1010.6	981.6	—1.2	25.6	18.9	14.3	16.3	50	+1	0.9	—0.4	1.5	0	0	8	0	0	2	1	0	0	2	3	23	0
	1730	,,	1006.5	978.3	..	32.2	21.1	13.8	15.8	34	..	1.5	..	1.7	0	0	9	1	2	2	0	0	0	1	3	22	0
Chambal (Rawat Bhatta Dam)	0830	351	1010.9	971.2	..	23.0	18.0	14.4	16.4	59	..	0.8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1006.2	967.8	..	32.2	19.6	10.3	12.5	27	..	1.0	..	0.4	0	0	28	5	10	3	1	0	3	0	6	3	0
Udaipur . . .	0230	582	1010.5	944.7	..	18.4	15.6	13.6	15.6	74	..	0.1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1010.5	944.7	..	17.4	14.7	12.9	14.9	74	..	0.5	..	0.4	0	0	2	1	0	0	0	0	0	0	1	29	0
	0830	,,	1011.5	946.5	—1.1	23.2	17.4	13.5	15.5	54	—3	0.7	—0.1	0.2	0	0	3	0	1	0	0	2	0	0	0	28	0
	1130	,,	1009.5	946.5	..	31.0	19.5	11.9	13.9	31	..	0.8	..	3.2	0	0	24	3	5	5	2	5	1	0	3	7	0
	1730	,,	1006.3	943.8	..	29.5	19.7	13.4	15.4	36	..	2.0	..	2.4	0	0	16	3	1	0	0	2	4	3	3	15	0
	2330	,,	1010.8	945.6	..	20.2	16.4	13.9	15.8	67	..	0.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jhalawar . .	0830	321	1010.0	973.9	—1.8	24.2	18.6	14.6	16.6	56	—5	0.7	—0.7	1.1	0	0	12	2	4	2	0	0	0	1	3	19	0
	1730	,,	1006.0	970.9	..	32.2	20.0	11.7	13.7	30	..	0.9	..	2.8	0	0	23	8	10	0	0	0	0	1	4	8	0
Madhya Pradesh (West)—																											
Gwalior . . .	0230	207	1008.5	984.6	..	18.2	16.7	15.6	17.8	85	..	0.1	..	1.2	0	0	9	0	1	1	0	0	2	2	3	22	0
	0530	,,	1008.9	984.9	..	17.4	15.9	14.7	16.8	85	..	0.4	..	1.7	0	0	16	1	1	1	4	3	5	0	1	15	0
	0830	,,	1010.2	986.8	—1.5	25.2	19.6	15.8	18.3	57	—2	0.4	—0.4	1.5	0	0	13	2	0	0	2	3	3	2	1	18	0
	1130	,,	1009.7	986.7	..	30.8	20.7	13.7	16.1	37	..	0.6	..	7.0	0	0	31	8	5	2	2	1	1	3	9	0	0
	1430	,,	1007.1	984.2	..	32.0	20.7	12.8	15.1	32	..	0.9	..	8.1	0	0	29	12	4	0	1	0	0	0	12	2	0
	1730	,,	1006.9	983.9	..	29.5	2..8	17.1	19.7	48	..	0.7	..	2.8	0	0	17	7	2	1	0	0	0	0	7	14	0

(R) Register not received

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Gwalior	2030	207	1008·8	985·2	..	22·0	18·9	16·9	19.2	73	..	0.5	..	0·5	0	0	6	2	1	1	0	1	0	1	0	25	0
	2330	,,	1009·2	985·4	..	19·5	17·6	16·3	18.5	81	..	0·2	..	0·8	0	0	9	0	0	1	1	2	3	1	1	22	0
Sheopur	0830	235	1010.8	984·1	—0·4	23·6	19·4	16·8	19.1	65	—2	0·9	—1·1	2·1	0	0	23	2	2	2	6	6	3	0	2	8	0
	1730	,,	1006·8	980·8	..	30·7	22·4	17·6	20.2	46	..	1·6	..	0·1	0	0	30	14	10	2	0	0	0	0	4	1	0
Shivpuri	0830	464	1010·2	958·7	..	25·3	18·3	13·6	15·9	49	..	0·4	..	3·1	0	0	19	2	3	2	3	2	2	3	2	12	0
	1730	,,	1006·7	955·8	..	28·8	19·4	13·5	15·7	40	..	1·2	..	4·0	0	0	28	4	9	2	1	0	0	2	10	3	0
Nowgong	0830	229	1010·4	984·4	—1·4	23·7	20·4	18·3	21·1	72	+3	1·3	—0·4	2.1	0	0	18	0	1	0	0	4	7	2	4	13	0
	1730	,,	1006·8	981·4	..	30·2	22·5	18·1	20·9	49	..	0·7	..	0·1	0	0	2	1	0	0	0	0	0	0	1	29	0
Guna	0530	478	1009·7	955·0	..	17·0	15·1	13·8	15·8	81	..	1·4	..	3·1	0	0	18	0	3	3	9	0	0	0	3	13	0
	0830	,,	1010·0	956·8	—1·7	24·7	18·6	14·9	16·9	52	—10	1·3	+0·1	3·0	0	0	27	3	2	13	5	1	0	3	0	4	0
	1130	,,	1008·6	956·5	..	31·4	20·4	13·5	15·5	35	..	1·1	..	8·0	0	1	30	6	8	4	2	0	0	2	6	0	3
	1730	,,	1006·1	953·8	..	29·7	20·3	14·7	16·9	41	..	1·3	..	5·4	0	0	31	14	5	3	2	0	0	0	7	0	0
	2330	,,	1009·8	955·7	..	20·1	17·0	15·0	17·1	73	..	0·4	..	2·1	0	0	18	1	5	3	5	1	1	1	1	13	0
Nimach	0830	496	1011·1	955·8	—1.1	24·6	16·7	10·9	13·2	43	—12	1·4	+0·2	4·8	0	0	27	3	9	5	3	1	0	0	5	4	1
	1730	,,	1006·8	953·0	..	31·4	18·7	9·7	12·3	27	..	2·1	..	7·1	0	0	28	0	16	3	0	0	3	1	4	3	1
Rajgarh	0830	382	1010·9	967·8	..	22·9	18·8	16·1	18·3	65	..	1·1	..	2·2	0	0	22	7	4	4	5	2	0	0	0	9	0
	1730	,,	1006·6	964·9	..	31·3	20·9	14·0	16·1	35	..	0·5	..	6·1	0	0	31	18	2	2	0	0	1	0	8	0	0
Sagar	0830	551	1009·8	948·9	—1.4	25·4	19·6	15·7	18·5	55	0	0·9	—0·9	1·4	0	0	16	1	2	2	0	0	0	8	3	15	0
	1730	,,	1006·5	946·3	..	28·4	19·2	13·5	15·5	40	..	1·3	..	2·3	0	0	28	11	13	0	0	0	0	1	3	3	0
Ratlam	0830	486	1010·4	956·3	—0·6	25·6	18·2	13·0	15·5	48	—15	1·3	—1·3	7·2	0	1	28	3	8	7	2	1	0	6	2	2	0
	1730	,,	1006·4	953·5	..	31·3	20·0	12·6	15·1	33	..	3·6	..	7·4	0	0	29	7	9	2	0	0	1	4	6	2	0
Bhopal (Bairagarh)	0230	523	1008·4	949·8	..	21·5	16·7	13·4	15·5	60	..	1·9	..	2·6	0	0	19	6	3	2	2	2	0	1	3	12	0
	0530	,,	1009·3	950·3	..	20·0	16·3	13·8	15·8	68	..	2·7	..	2·8	0	0	18	9	3	2	1	1	1	0	1	13	0
	0830	,,	1010·1	952·2	—1·5	25·5	18·8	14·4	16·7	51	—11	2·4	+0.6	4·1	0	0	18	2	7	1	3	0	1	1	3	13	0
	1130	,,	1008·7	951·7	..	30·5	19·6	12·3	14·8	34	..	2·5	..	8·4	0	0	30	7	6	7	5	1	0	2	2	1	0
	1430	,,	1005·8	949·2	..	31·7	19·7	12·0	14·1	31	..	3·6	..	9·7	0	2	29	14	8	1	1	1	1	1	4	0	0
	1730	,,	1006·1	949.1	..	29·6	19·3	12·5	14·9	35	..	3·8	..	6·9	0	0	28	17	4	2	0	0	0	0	5	3	0
	2030	,,	1008·8	950·8	..	25·1	18·2	13·7	15·9	50	..	3·0	..	3·9	0	0	23	16	4	2	0	0	0	0	1	8	0
	2330	,,	1009·3	950·9	..	23·1	17·3	13·4	15·5	55	..	2·3	..	3·6	0	0	21	8	5	5	0	1	1	1	0	10	0
Ujjain	0830	489	1010·4	955·7	..	23·8	18·7	15·6	17·8	61	..	2·5	..	4·1	0	0	21	1	2	3	5	1	0	2	5	10	2
	1730	,,	1006·4	953·4	..	30·4	21·0	15·6	17·9	42	..	3·0	..	6·1	0	0	27	8	8	1	0	0	0	1	9	4	0
Narsinghpur	0830	356	1010·2	970.1	..	23·3	20·7	18·8	22·2	75	..	1·2	..	2·2	0	0	30	4	5	6	4	3	0	5	3	1	0
	1730	,,	1005·9	966·7	..	29·9	21·6	16.9	19·0	47	..	2·1	..	3·6	0	0	25	10	8	2	0	2	0	0	3	6	0
Hoshangabad	0830	302	1010·2	976·1	—2.3	24·4	20·8	18·7	21·7	71	+3	1·5	- 0.3	2·8	0	0	30	3	4	3	1	5	5	7	2	1	0
	1730	,,	1005·5	972·3	..	31·6	23·0	17·8	21·0	45	..	1·7	..	2·7	0	0	29	2	6	1	1	3	7	3	6	2	0
Indore	0530	567	1009·3	945·5	..	19·6	16·3	14·0	16·1	71	..	1·2	..	4·3	0	0	23	2	4	3	1	1	6	2	4	8	0
	0830	,,	1010.4	947·5	—1.1	24·2	18·4	14·5	16·9	55	0	1·1	—0.5	4·0	0	0	19	1	2	8	0	1	2	2	3	12	0
	1130	,,	1008·6	947·0	..	30·1	20.0	13·8	16·0	38	..	0·7	..	6·8	0	0	26	4	10	9	1	1	0	0	1	5	0
	1730	,,	1006·0	944·4	..	29·3	19·5	13·1	15·5	38	..	2·6	..	8·6	0	0	28	5	14	4	0	2	2	1	0	3	0
	2330	,,	1009·4	946·2	..	22·6	17·2	14·0	15·9	59	..	1·7	..	6·7	0	0	26	7	4	5	0	1	5	1	3	5	0
Rajpur (Jhabua)	0830	293	1010·7	977·6	..	24·0	20·1	17·8	20·4	70	..	1·6	..	3·0	0	0	14	0	0	3	0	0	3	7	1	17	0
	1730	,,	1006·4	974·4	..	32·4	21·7	14·7	17·1	36	..	1·9	..	5·1	0	0	28	0	0	0	0	0	1	23	4	3	0
Chhindwara	0830	685	1009·8	934·3	—0·8	23·4	19·5	17·1	18·5	68	—2	2·2	—0.7	2·3	0	0	16	2	6	3	1	0	0	3	1	15	0
	1730	,,	1005·6	931·3	..	27·4	19·8	15·0	17·5	48	..	3·8	..	5·3	0	0	29	10	7	5	1	0	0	1	5	2	0
Seoni	0830	619	1009·6	941·4	—1.6	24·6	20.5	18·3	21·0	68	+7	3·2	+0.3	5·3	0	0	24	7	10	1	1	0	3	1	1	7	0
	1730	,,	1006·2	938·6	..	27·8	21·3	17·6	20·5	57	..	3·4	..	9·0	0	1	30	7	8	6	6	1	1	1	1	0	0
Betul	0830	653	1010·3	938·0	—0·9	23·3	19·4	17·0	19·6	69	0	2·8	—0·2	1·9	0	0	20	0	4	4	5	1	3	2	1	11	0
	1730	,,	1006·4	935·3	..	27·3	20.5	16·4	19·1	53	..	3·9	..	3·3	0	0	30	10	10	1	0	1	0	4	4	1	0
Khandwa	0830	318	1010·4	974·6	—1·4	24.9	20·0	16·7	19·3	61	—1	1·0	—0·8	2·3	0	0	26	1	4	3	1	3	1	7	6	5	0
	1730	,,	1006·2	971·3	..	32·2	21·2	13·9	16·2	34	..	2·2	..	3·3	0	0	31	1	12	0	4	0	1	1	12	0	0
Madhya Pradesh (East)—																											
Satna	0530	317	1008·3	972·1	..	20.8	20·0	19·4	22·7	92	..	1·3	..	1·6	0	0	22	3	2	2	2	4	2	7	0	9	0
	0830	,,	1009·9	974·3	—1.4	25·1	21·4	19·3	22·4	71	+4	1·3	—0.5	0·9	0	0	14	1	1	0	0	0	0	10	2	17	
	1130	,,	1009·2	974·0	..	29·4	22·1	17·8	20·6	53	..	1·6	..	1·7	0	0	19	0	2	3	2	1	2	8	0	12	1
	1730	,,	1006·4	971·3	..	28·3	22·1	18·5	21·6	56	..	1.2	..	1·2	0	0	18	9	0	1	0	1	0	6	1	13	0
	2330	,,	1008·6	972.8	..	23·4	20·7	19·1	22·1	77	..	1·5	..	1·4	0	0	18	2	2	1	1	5	1	6	0	13	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	W	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Sidhi*	0830	272	1008·3	977·7	..	24·9	21·5	19·6	22·9	73	..	1·2	..	1·8	0	0	28	1	0	3	0	4	8	12	0	3	0
	1730	,,	1006·1	976·0	..	28·6	22·1	18·2	21·3	55	..	1·7	..	1·8	0	0	2	2	3	6	0	0	0	7	0	3	0
Umaria	0830	459	1010·3	958·9	..	24·0	20·8	19·2	22·2	75	+8	2·4	0	2·0	0	0	15	4	1	2	3	0	1	4	0	16	0
	1730	,,	1005·4	955·0	..	28·2	22·8	20·3	23·8	63	..	3·1	..	2·3	0	0	23	12	3	1	1	0	0	3	3	8	0
Jabalpur	0530	393	1008·9	964·4	..	20·8	19·9	19·4	22·5	91	..	1·9	..	0	0	0	20	0	0	0	0	0	0	0	0	31	0
	0830	,,	1010·3	966·3	−1·2	25·0	21·7	19·9	23·2	73	+2	1·8	+0·1	1·2	0	0	16	3	2	1	2	5	0	2	1	15	0
	1130	,,	1008·9	965·6	..	29·5	22·5	18·3	21·6	52	..	2·2	..	3·7	0	0	24	13	3	2	1	1	1	1	2	7	0
	1430	,,	1006·0	963·1	..	31·1	22·3	17·2	19·7	44	..	2·7	..	4·6	0	0	30	16	5	3	0	0	0	2	4	1	0
	1730	,,	1006·3	963·1	..	28·8	22·2	18·4	21·4	54	..	3·3	..	2·6	0	0	23	12	4	3	1	0	0	0	3	8	0
	2330	,,	1009·1	964·9	..	22·6	20·8	19·8	23·1	84	..	0·9	..	0·5	0	0	5	1	0	1	2	1	0	0	0	26	0
Ambikapur	0830	611	1009·8	942·2	−1·	23·3	20·7	19·4	22·5	79	+2	2·5	+0·1	2·0	0	0	9	3	3	2	0	0	1	0	0	22	0
	1730	,,	1006·1	939·2	..	25·7	21·3	19·0	22·1	67	..	3·0	..	5·5	0	0	28	16	8	3	0	0	0	0	1	3	0
Pendra	0530	625	1008·7	938·9	..	20·2	18·3	17·1	19·7	83	..	2·4	..	2·5	0	1	11	5	1	0	0	0	1	1	4	19	0
	0830	,,	1010·0	940·9	−1·8	23·2	20·3	18·6	21·6	72	+5	2·5	+0·1	3·9	0	1	18	7	1	0	0	1	2	2	6	12	0
	1130	,,	1008·5	940·3	..	26·9	21·2	18·0	21·0	60	..	3·0	..	5·2	0	0	29	14	5	2	1	0	2	0	5	2	0
	1430	,,	1005·8	937·9	..	28·0	21·3	17·6	20·4	55	..	3·5	..	5·9	0	1	24	14	5	0	0	0	1	0	5	6	0
	1730	,,	1006·2	937·9	..	25·8	21·3	19·0	22·0	67	..	3·3	..	3·1	0	0	16	8	2	0	0	1	2	0	3	15	0
	2330	,,	1009·3	939·7	..	21·4	19·2	17·8	20·6	81	..	1·8	..	2·1	0	0	11	4	0	0	0	0	1	0	6	20	0
Mandla	0830	443	1010·3	960·7	−1·0	23·2	21·0	19·8	23·1	81	−1	1·8	−1·8	0·8	0	0	5	2	0	0	0	1	0	0	2	26	0
	1730	,,	1006·3	957·4	..	27·0	22·0	19·2	22·4	63	..	2·6	..	0·3	0	0	2	1	0	0	0	0	0	0	1	29	0
Champa	0830	245	1009·6	982·0	−1·5	24·9	22·7	21·5	25·8	81	−2	3·4	+0·1	3·2	0	0	25	15	0	4	0	0	0	2	4	6	0
	1730	,,	1006·0	978·7	..	28·6	24·0	21·7	26·1	67	..	3·6	..	3·1	0	0	28	12	5	2	1	0	1	5	2	3	0
Raigarh	0830	220	1009·2	984·5	−1·3	26·8	22·9	20·9	24·7	71	−3	3·0	−0·7	3·1	0	0	30	1	13	2	5	2	3	1	3	1	0
	1730	,,	1005·2	980·7	..	29·0	23·6	20·9	24·7	63	..	3·7	..	0·7	0	0	6	0	4	1	0	0	1	0	0	25	0
Raipur	0530	298	1007·9	974·2	..	23·0	22·1	21·6	25·8	92	..	2·9	..	2·6	0	0	16	4	2	0	1	1	1	4	3	15	0
	0830	,,	1009·7	976·3	−1·6	26·0	22·8	21·2	25·2	75	+4	3·2	+0·9	5·4	0	0	28	6	6	3	4	1	1	3	4	3	0
	1130	,,	1008·6	975·5	..	29·0	23·4	20·5	24·1	62	..	3·4	..	5·0	0	0	27	7	8	2	1	0	2	1	6	1	1
	1430	,,	1005·8	973·0	..	30·2	23·2	19·3	22·4	54	..	4·4	..	6·6	0	0	28	9	8	4	1	2	0	1	2	3	0
	1730	,,	1006·1	973·1	..	28·2	23·3	20·7	24·7	65	..	4·5	..	4·5	0	0	22	6	9	2	2	0	1	1	1	9	0
	2330	,,	1008·4	974·8	..	24·5	22·4	21·4	25·5	83	..	2·4	..	3·6	0	0	19	2	1	2	2	5	2	3	2	12	0
Kanker	0830	402	1009·7	965·0	−1·3	25·6	22·9	21·5	25·6	79	0	2·7	−0·6	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1006·1	961·8	..	27·2	23·6	21·9	26·1	70	..	4·0	..	1·1	0	0	11	0	5	0	0	0	4	2	0	20	0
Jagdalpur	0530	553	1007·6	946·1	..	21·4	20·6	20·2	23·7	93	..	4·0	..	1·3	0	0	6	1	0	0	0	1	1	0	3	25	0
	0830	,,	1009·1	948·0	−1·5	24·3	21·8	20·5	24·4	80	+1	4·0	+0·8	2·6	0	0	11	2	2	0	0	3	2	0	2	20	0
	1130	,,	1007·4	947·1	..	28·0	22·8	20·2	25·5	63	..	4·5	..	5·9	0	0	27	5	8	5	1	1	2	1	4	4	0
	1730	,,	1005·4	944·9	..	26·3	22·4	20·6	24·3	72	..	5·5	..	3·0	0	0	19	3	7	0	0	3	3	1	2	12	0
	2330	,,	1008·3	946·9	..	22·7	21·3	20·6	24·3	88	..	3·5	..	1·0	0	0	7	0	0	1	0	2	0	1	3	24	0
Gujarat Region																											
Deesa	0830	136	1010·8	995·3	−1·1	23·9	17·6	12·7	15·1	47	..	0·6	..	5·9	0	0	29	1	19	0	2	0	0	0	7	2	0
	1730	,,	1007·1	992·0	..	33·3	21·6	12·8	16·3	33	..	0·4	..	5·1	0	0	30	0	2	1	3	3	4	3	14	1	0
Radhanpur	0830	30	1010·6	1007·1	.	24·5	20·1	17·2	19·9	64	..	0	..	2·9	0	0	29	4	5	3	3	0	8	0	6	2	0
	1730	,,	1008·2	1004·9	..	33·8	24·2	18·8	22·4	43	..	0	..	4·2	0	0	30	1	3	1	1	0	10	0	14	1	0
Idar	0830	219	1010·1	985·5	..	26·6	18·6	12·5	15·0	43	..	0·5	..	4·0	0	0	20	14	4	1	1	0	0	0	0	11	0
	1730	,,	1006·6	982·5	..	32·8	20·9	12·5	15·1	31	..	0·8	..	2·2	0	0	24	6	2	1	1	1	1	11	1	7	0
Ahmedabad	0230	55	1008·3	1002·0	..	23·2	19·1	16·4	18·8	66	..	0·8	..	3·4	0	0	14	3	0	0	0	0	2	2	7	17	0
	0530	,,	1008·5	1002·1	..	21·2	18·0	15·7	18·1	71	..	0·3	..	2·9	0	0	10	0	1	1	0	0	1	0	7	21	0
	0830	,,	1010·4	1004·1	−1·6	25·0	19·6	16·0	18·4	59	−5	1·6	+0·3	7·0	0	0	19	2	1	7	1	0	0	0	8	12	0
	1130	,,	1010·3	1004·1	..	32·5	22·4	16·3	18·8	39	..	1·1	..	9·0	0	1	27	3	3	8	4	2	0	1	7	3	0
	1430	,,	1007·7	1001·6	..	35·3	22·8	14·9	17·6	31	..	1·6	..	7·5	0	1	24	5	1	5	3	2	1	2	6	6	0
	1730	,,	1007·1	1000·9	..	34·2	22·8	15·7	18·4	35	..	1·5	..	5·6	0	0	23	3	1	1	1	2	3	5	7	8	0
	2030	,,	1008·7	1002·4	..	27·0	21·4	18·2	20·9	58	..	0·9	..	0·8	0	0	5	1	0	0	0	0	1	1	2	26	0
	2330	,,	1009·2	1002·9	..	24·6	20·0	16·9	19·6	64	..	0·7	..	2·5	0	0	8	1	0	0	0	0	1	1	5	23	0
Dohad	0830	333	1010·3	972·9	−1·5	25·1	19·6	15·9	18·3	58	−12	1·0	−0·9	5·8	0	2	23	0	2	8	3	2	2	6	2	6	0
	1730	,,	1006·6	970·2	..	32·9	21·3	13·4	15·9	33	..	0·9	..	6·3	0	0	29	3	5	0	0	0	12	8	1	2	0
Vallabh Vidyanagar	0830	44	1010·1	1005·1	..	22·9	20·2	18·5	21·6	77	..	1·4	..	3·7	0	0	27	4	7	3	1	1	2	6	3	4	0
	1730	,,	1007·0	1002·2	..	32·8	23·5	18·1	21·3	44	..	0·6	..	4·3	0	0	28	8	4	0	0	0	0	10	6	3	0

*Height Calculated provisionally

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1964 (ASVINA 9,—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I.S.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat Region—*Contd.*																											
Baroda (Aerodrome)	0830	38	1010·5	1006·2	..	25·6	21·1	18·6	21·3	65	..	1·8	..	4·5	0	0	19	1	2	3	5	2	3	1	2	12	0
	1130	,,	1010·2	1006·0	..	32·3	22·8	17·0	20·0	43	..	1·4	..	9·0	0	0	25	4	2	2	3	1	1	4	8	6	0
	1730	,,	1007·0	1002·8	..	33·1	22·7	16·7	19·0	39	..	1·6	..	8·0	0	0	29	1	2	1	0	0	0	9	16	2	0
Baroda . . .	0530	34	1008·6	1004·6	..	21·7	19·8	18·5	21·6	82	..	0·1	..	0·0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1010·6	1006·5	—1·0	24·2	21·1	19·2	22·4	74	0	1·2	—0·3	0·1	0	0	2	0	0	0	0	0	1	1	0	29	0
	1130	,,	1010·3	1006·4	..	32·7	23·5	18·3	21·4	44	..	0·5	..	0·5	0	0	7	0	1	1	0	0	0	5	0	24	1
	1730	,,	1007·2	1003·3	..	34·3	23·8	17·9	20·9	39	..	0·5	..	1·1	0	0	14	2	1	0	0	0	1	6	4	17	0
	2330	,,	1009·2	1005·2	..	25·0	21·2	18·9	22·1	69	..	0·3	..	0·4	0	0	5	0	0	0	1	0	1	3	0	26	0
Broach . . .	0830	17	1009·9	1007·9	—0·6	24·2	21·1	19·4	22·4	75	+1	2·2	+0·3	4·5	0	0	31	3	7	1	2	3	9	1	5	0	0
	1730	,,	1006·3	1004·4	..	35·0	22·9	15·5	18·1	33	..	1·3	..	4·4	0	0	31	1	6	1	3	0	10	2	8	0	0
Surat . . .	0530	12	1008·7	1007·3	..	23·6	21·5	20·3	23·8	82	..	1·4	..	7·9	0	0	30	4	9	0	11	1	2	1	2	1	0
	0830	,,	1010·6	1009·2	—0·9	26·0	22·5	20·4	24·4	73	+5	3·0	+0·8	5·1	0	0	27	0	9	0	11	2	2	0	3	4	0
	1130	,,	1010·5	1009·2	..	31·7	23·5	19·0	22·2	49	..	2·4	..	8·0	0	0	31	3	9	0	2	0	6	2	9	0	0
	1730	,,	1007·3	1006·0	..	32·3	24·0	19·2	22·9	48	..	2·4	..	8·3	0	0	31	0	4	0	0	1	16	2	8	0	0
	2330	,,	1009·6	1008·3	..	26·2	22·5	20·2	24·1	72	..	0·7	..	7·5	0	0	30	3	6	0	1	2	12	1	5	1	0
Saurashtra and Kutch																											
Naliya . . .	0830	21	1010·6	1008·1	..	22·4	20·1	18·5	21·6	80	..	1·2	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1007·9	1005·5	..	31·8	23·3	18·8	21·7	50	..	1·4	..	6·7	0	0	29	0	4	0	0	0	17	6	2	2	0
Bhuj (Rudramata) .	0230	80	1009·0	999·8	..	22·4	17·2	12·5	15·4	58	..	0	..	3·1	0	0	11	0	0	0	0	0	3	5	3	20	0
	0530	,,	1009·1	999·8	..	20·7	16·6	12·8	15·6	64	..	0·1	..	2·6	0	0	8	0	0	0	0	0	3	3	2	23	0
	0830	,,	1010·8	1001·6	—0·8	24·6	18·6	13·4	16·5	55	—2	0·6	—0·5	3·7	0	1	12	2	0	0	0	0	2	5	4	18	0
	1130	,,	1010·7	1001·8	..	31·9	19·2	7·9	11·9	26	..	1·1	..	11·3	0	4	20	6	7	1	0	0	3	5	2	7	0
	1430	,,	1008·0	999·1	..	35·0	19·4	4·7	9·8	18	..	1·7	..	11·1	0	2	23	4	4	1	1	0	5	3	7	6	0
	1730	,,	1007·5	998·6	..	34·1	19·2	5·3	10·1	20	..	1·5	..	11·7	0	4	24	9	8	0	0	0	3	7	1	3	0
	2030	,,	1009·3	1000·3	..	28·4	18·4	9·7	13·0	35	..	0·4	..	8·8	0	1	20	2	0	0	0	0	3	5	3	20	0
	2330	,,	1010·0	1000·8	..	24·3	17·7	11·7	14·9	48	..	0·2	..	4·9	0	0	16	0	0	0	0	0	4	10	2	15	0
Kandla (Aerodrome)	0830	35	1011·0	1007·0	..	25·6	18·5	12·5	15·6	49	..	0·8	..	15·4	0	8	22	4	0	1	0	0	1	6	18	1	0
	1130	,,	1011·0	1007·1	..	32·8	19·9	9·2	12·7	27	..	0·9	..	19·0	0	9	19	8	6	1	0	1	4	1	7	3	0
	1730	,,	1007·8	1003·9	..	34·1	20·4	9·4	12·8	25	..	1·2	..	17·7	0	11	19	4	1	5	2	3	9	3	3	1	0
New Kandla . .	0830	14	1011·1	1009·4	..	25·0	19·2	14·7	17·5	56	..	1·4	..	10·1	0	0	31	11	3	0	0	1	0	7	9	0	0
	1730	,,	1008·1	1006·5	..	32·5	21·9	14·7	17·6	37	..	1·6	..	15·9	0	9	22	2	2	1	1	0	8	11	6	0	0
Mandvi . . .	0830	9	1010·8	1009·7	—0·2	24·4	19·4	15·2	18·4	61	—16	1·5	—0·3	13·7	0	6	25	10	9	2	0	0	1	1	8	0	0
	1730	,,	1008·5	1007·4	..	29·6	24·4	21·9	26·3	64	..	1·8	..	26·7	0	26	5	0	0	0	0	0	4	23	1	0	3
Surendranagar .	0830	74	1010·6	1002·2	—0·6	25·8	20·6	17·1	20·0	60	—7	1·1	—0·6	8·3	0	0	23	8	0	0	0	0	0	6	14	3	0
	1730	,,	1006·9	998·7	..	34·7	22·7	15·3	17·8	32	..	2·1	..	7·0	0	0	27	6	0	0	0	1	0	10	10	4	0
Okha . . .	0530	7	1009·3	1008·5	..	24·5	22·6	21·7	25·9	85	..	0	..	14·5	0	10	18	5	0	0	0	0	2	4	14	6	0
	0830	,,	1011·2	1010·4	..	25·4	23·0	21·7	26·1	80	..	1·6	..	11·0	0	4	23	5	2	0	0	2	2	1	15	4	0
	1130	,,	1011·8	1011·0	..	27·0	23·5	21·6	25·9	73	..	1·5	..	11·7	0	3	28	4	3	1	0	0	0	5	18	0	0
	1730	,,	1005·8	1005·0	..	26·9	24·0	22·6	27·6	78	..	1·5	..	17·0	0	7	24	0	0	0	0	0	0	15	16	0	0
	2330	,,	1010·6	1009·8	..	24·6	23·2	22·4	27·3	87	..	0·4	..	12·4	0	5	24	1	0	0	0	0	4	14	10	2	0
Jamnagar (Aerodrome)	0530	23	1008·9	1006·3	..	20·6	19·3	18·5	21·3	88	..	0·7	..	6·6	0	2	15	0	1	0	0	0	0	14	2	14	0
	0830	,,	1010·8	1008·2	—0·9	24·4	21·3	19·5	22·8	75	—4	2·1	+0·6	6·1	0	3	13	1	0	0	0	0	1	8	6	15	0
	1130	,,	1011·0	1008·5	..	30·7	21·9	16·1	19·0	44	..	1·9	..	16·2	0	8	22	7	8	0	0	0	0	6	9	1	0
	1730	,,	1008·0	1005·5	..	30·8	21·9	18·6	19·0	44	..	2·0	..	21·8	0	19	12	8	3	0	0	0	0	9	11	0	0
	2330	,,	1010·1	1007·5	..	23·6	21·4	20·0	23·7	81	..	0·7	..	10·9	0	4	20	1	1	0	0	0	0	15	7	7	0
Dwarka . . .	0830	11	1010·8	1009·5	—1·1	25·2	22·7	21·4	25·5	81	+2	1·0	—0·9	7·2	0	0	2	19	0	0	0	1	0	3	4	4	0
	1730	,,	1008·7	1007·4	..	27·3	24·1	22·5	27·4	75	..	1·2	..	12·3	0	2	29		0	0	0	0	1	17	5	0	0
Rajkot . . .	0530	138	1009·1	993·2	..	20·7	18·9	17·5	20·4	84	..	0·6	..	4·2	0	0	16	1	0	0	0	1	3	8	2	15	1
	0830	,,	1010·7	995·1	—0·5	24·7	21·0	18·6	21·8	71	—2	0·5	—1·2	6·7	0	1	17	0	0	0	0	0	2	7	9	13	0
	1130	,,	1010·3	9 5·0	..	32·0	23·1	17·7	21·0	46	..	0·4	..	15·3	0	8	22	8	4	0	0	0	2	3	13	1	0
	1730	,,	1007·0	991·9	..	34·0	23·7	17·3	20·9	41	.	1·1	..	15·2	0	11	19	6	1	0	0	0	1	4	17	1	1
Bhavnagar (Aerodrome)	0830	11	1010·6	1009·4	—1·0	26·3	19·6	14·8	17·4	52	—3	1·7	—0·5	12·2	0	3	27	6	1	0	0	0	2	8	12	1	1
	1130	,,	1010·5	1009·3	..	32·5	21·6	14·3	16·9	35	..	1·4	..	16·7	0	9	22	8	16	3	1		1	1	1	0	0
	1730	,,	1007·3	1006·1	..	33·7	21·5	13·0	15·7	31	..	2·0	..	20·1	0	17	14	0	7	7	8	8	0	1	0	0	0
Porbander (Aerodrome)	0830	7	1010·8	1010·0	—0·1	24·6	21·9	20·3	24·1	78	—2	1·6	—0·2	8·4	0	1	26	6	3	3	3	0	0	0	12	4	0
	1130	,,	1010·8	1010·0	..	31·4	23·0	18·1	21·1	48	..	1·4	..	12·6	0	5	26	8	4	2	2	0	5	3	7	0	0
	1730	,,	1008·2	1007·4	..	29·0	23·5	20·6	24·4	62	..	1·7	..	19·4	0	15	16	1	0	0	0	0	3	23	4	0	0

Sub-Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Keshod	0830	51	1010·8	1004·9	..	23·2	20·1	17·8	21·0	74	..	0·8	..	7·1	0	0	27	5	13	4	0	0	0	0	2	4	3
	1130	,,	1010·8	1005·0	..	31·2	21·5	14·9	17.7	41	..	0·8	..	13·7	0	5	26	15	5	0	0	0	0	2	5	0	4
	1730	,,	1007.7	1002 1	..	32.7	22.0	15.0	17.7	38	..	0.7	..	22.6	0	25	6	1	2	0	0	0	4	18	5	0	1
Mahuva	0830	9	1010.1	1009.1	..	24.6	20.6	18.2	21.0	67	..	2.7	..	2.5	0	0	20	5	6	0	0	0	1	0	8	11	0
	1730	,,	1006.9	1005.9	..	30.6	24.0	20.6	24.4	56	..	3.0	..	5.0	0	0	30	1	1	1	6	7	12	2	0	1	0
Veraval	0230	8	1008.6	1007.7	..	22.5	20.9	19.9	23.4	86	..	0.9	..	10.8	0	3	28	17	6	0	0	0	0	0	8	0	0
	0530	,,	1008.5	1007.6	..	21.6	19.9	18.6	21.8	34	..	1.5	..	10.7	0	2	27	18	3	0	0	0	0	0	8	2	0
	0830	,,	1010.5	1009.6	—1.1	24.3	21.3	19.4	22.9	76	+10	1.9	+0.1	11.1	0	5	24	12	7	0	0	0	0	0	10	2	0
	1130	,,	1010 5	1009.6	..	30.8	24.3	20.7	25.0	55	..	1.9	..	15.0	0	11	20	5	2	1	0	1	3	7	10	0	2
	1430	,,	1008.3	1007.4	..	29.8	25·5	23.5	28.9	69	..	1.7	..	20.0	0	17	14	0	0	0	0	0	7	14	10	0	0
	1730	,,	1008.1	1007.2	..	28.0	25.1	23.7	29.5	78	..	1.9	..	17.4	0	13	18	1	0	0	0	0	6	12	12	0	0
	2030	,,	1009.6	1008.7	..	26.3	23.9	22.7	27.7	81	..	0.9	..	13.8	0	8	21	3	1	0	1	0	0	7	17	2	0
	2330	,,	1009.9	1009 0	..	23.9	22.3	21.4	25.6	86	..	1.1	..	3.6	0	0	30	11	4	1	0	1	0	1	12	1	0
Konkan																											
Dahanu	0830	5	1009.9	1009.4	—0 7	26.3	24.7	23.9	29.8	87	+8	1.8	—1.2	7.7	0	0	28	0	1	8	18	0	0	0	0	3	1
	1730	,,	1007.2	1006.6	..	29.7	27.4	26.4	34.6	83	..	1.4	..	14.5	0	6	25	7	0	1	1	0	2	6	14	0	0
Bombay (Santa Cruz)	0230	14	1008.3	1006.6	..	24.4	23.0	22.3	26.9	88	..	2.7	..	2.4	0	0	10	1	2	3	0	0	1	0	3	21	0
	0530	,,	1008 4	1006.7	..	23.7	22.7	22.1	26.7	91	..	2.6	..	2.6	0	1	14	1	5	7	2	0	0	0	0	16	0
	0830	,,	1010.3	1008.7	—1.0	26.7	24 0	22.6	27.6	79	—3	3.9	+0.8	3.2	0	0	18	1	5	5	5	1	0	0	0	13	1
	1130	,,	1010.1	1008 5	..	30.9	24.8	21.7	26.3	60	..	3 2	..	8.6	0	0	28	4	2	2	2	0	3	9	6	3	0
	1430	,,	1007.6	1006 0	..	31.1	25.2	22.3	27.3	61	..	3.1	..	15.7	0	3	28	1	2	0	0	0	1	11	13	0	0
	1730	,,	1007.4	1005.8	..	29.1	24.6	22.4	27.3	68	..	3.5	..	11.5	0	3	28	4	0	0	0	0	1	5	21	0	0
	2030	,,	1009 3	1007.7	..	26.7	24.3	23.1	28.4	81	..	2.7	..	7·4	0	1	24	6	2	1	0	0	3	2	11	6	0
	2330	,,	1009.5	1007.9	..	25.2	23.5	22.6	27.6	85	..	2 8	..	3·2	0	1	13	1	3	3	1	1	1	1	3	17	0
Bombay	0830	11	1010.3	1009.1	—1·0	26.7	24.6	23.7	29.3	84	+3	3.9	+0.8	4.8	0	0	29	2	4	8	9	1	0	1	2	2	2
	1130	,,	1010.2	1009.0	..	29.9	25.5	23.5	28.9	69	..	3.0	..	7.2	0	0	31	4	1	4	6	4	1	2	8	0	1
	1730	,,	1007.5	1006.3	..	28.7	25.2	23.6	29.3	74	..	3.0	..	12.0	0	3	28	6	0	0	0	0	2	7	16	0	0
Alibag	0330	7	1010.3	1009.5	—0.8	26.4	24.1	23.0	28.3	82	+6	2.6	—1·3	3·7	0	1	21	7	2	2	4	2	0	1	4	9	0
Bhira	0830	96	1009.7	998.8	..	24.9	22.8	21.4	25.9	84	..	2.9	..	0.6	0	0	6	0	2	0	2	1	1	0	0	25	0
	1730	,,	1006.3	995 7	..	29.8	25.5	23.5	28.9	70	..	4.6	..	1.9	0	0	24	0	2	0	4	5	8	3	2	7	0
Harnai	0830	20	1010.4	1007.7	—0.3	26.4	24.0	22.7	27.9	81	+6	4.4	+0·1	6.9	0	3	18	3	5	7	2	1	0	2	1	10	0
	1730	,,	1007.0	1005.1	..	27.9	25.4	24.3	30.4	81	..	4.1	..	17.5	0	13	18	0	1	0	0	0	1	19	10	0	0
Ratnagiri	0330	35	1010.1	1006.1	—0.9	25.5	23.9	23.2	28.3	87	..	4.5	..	4.2	0	0	28	4	3	2	13	3	0	1	2	3	0
	1730	,,	1007.6	1003 6	..	27.9	25.2	24.0	29.7	80	..	4.5	..	8.6	0	0	31	4	0	0	0	0	3	7	17	0	0
Devgarh	0830	36	1010 2	1006 1	—0·5	25.5	24.2	23.5	29.3	89	+5	4.5	—0.1	6.7	0	1	23	4	2	11	1	3	1	0	2	7	0
	1730	,,	1007.4	1003.4	..	28.2	25.7	24.5	31.1	82	..	4.4	..	16.1	0	8	23	1	0	1	0	0	5	1	23	0	0
Vengurla	0230	9	1008.5	1007.5	..	24.2	23.7	23.4	28.9	95	..	3.5	..	..	..	..	..	3	1	0	0	0	0	2	1	24	0
	0530	,,	1008.7	1007.7	..	23.8	23.4	23.2	28.4	96	+8	3.7	..	..	..	..	..	4	1	0	1	0	0	1	1	23	0
	0830	,,	1010.6	1009.6	—0.1	25.1	24.3	23.9	29.7	93	..	4 1	—0.4	..	..	..	..	1	2	1	2	0	0	2	3	20	0
	1130	,,	1010.3	1009.3	..	28.4	25.3	24.0	29.7	77	..	3.8	..	..	..	..	..	4	0	0	1	3	6	8	6	3	0
	1730	,,	1007.8	1006.8	..	27·5	25.2	24.1	30.0	82	..	5.2	..	..	..	..	..	3	0	0	1	3	4	13	3	4	0
	2330	,,	1010.0	1009.0	..	24.9	24.2	23 9	29.7	94	..	3.3	..	..	..	..	..	1	0	0	0	0	0	1	4	25	0
Panjim	0530	63	1008.6	1001.7	..	24.2	23.5	23.1	28.3	93	..	4.7	..	5·4	0	0	23	4	2	6	4	1	2	0	4	8	0
	0830	,,	1010.5	1003.7	..	25.0	23.9	23.4	28.6	91	..	5.3	..	3.4	0	0	19	4	2	6	2	2	0	1	2	12	0
	1130	,,	1010.3	1003 5	..	28.6	25.1	23.6	28 9	75	..	4.8	..	8.8	0	1	27	1	0	0	0	1	4	18	4	2	0
	1430	,,	1007.7	1001.0	..	28.9	25.4	23.8	29.7	74	..	4·1	..	15.4	0	6	25	0	0	0	0	1	7	16	7	0	0
	1730	,,	1007.7	1000.9	..	27.4	24.8	23.7	29.1	81	..	5 0	..	12.0	0	3	28	2	0	0	0	0	3	12	14	0	0
	2030	,,	1009 7	1002.9	..	25.7	24.2	23.5	28.9	88	..	4.9	..	7.6	0	0	25	5	2	2	2	0	1	3	10	6	0
	2330	,,	1009 9	1003 1	..	25.2	24.0	23.5	28.8	90	..	4.6	..	6.1	0	1	23	6	3	4	2	0	2	1	6	7	0
Mormugao	0530	62	1008 1	1001.1	..	24 6	23 9	23.4	28.9	93	..	5.3	..	10.3	0	4	25	5	3	5	5	5	1	2	3	2	0
	0830	,,	1009.9	1003.0	..	25 8	24.4	23.8	29.5	89	..	5.5	..	8.8	0	3	24	3	4	3	5	6	1	2	3	4	0
	1130	,,	1009 7	1002.8	..	27.3	24 9	23.8	29.5	81	..	4.6	..	14.3	0	7	24	2	0	0	1	4	9	9	6	0	0
	1730	,,	1007 3	1000.4	..	27.1	25.1	24.2	30.2	85	..	5.3	..	15.9	0	7	23	3	1	0	0	1	7	8	10	1	0
Madhya Maharashtra																											
Nandurbar	0830	206	1010.5	987.3	..	26 5	21.7	18.7	22.1	64	..	1.5	..	3.5	0	0	24	1	0	3	0	0	2	18	0	7	0
	1730	,,	1006.6	983 9	..	33.2	23.0	16.8	19.7	40	..	1.6	..	2·7	0	0	24	2	0	3	0	0	0	19	0	7	0
Jalgaon	0830	201	1010.6	987.9	—0·8	24.5	20.8	18.7	21.6	72	+2	2.7	+0·4	8.4	0	3	21	0	1	7	2	1	2	8	3	7	0
	1730	,,	1006 0	993 9	..	32.9	22 3	15 9	18 3	37	..	2 6	..	8·8	0	0	28	9	7	5	1	0	0	3	3	3	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1964 (ASVINA 9—KARTIKA 9, 1886 SAKA)

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speeds Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—(Contd).																											
Malegaon	0830	437	1010.5	961.5	—1.6	23.	19.7	17.1	19.6	67	+4	2.8	+0.2	5.0	0	0	30	2	3	1	0	0	5	9	10	1	0
	1730	,,	1006.0	958.4	..	31	21.4	14.2	17.3	39	..	4.0	..	9.8	0	3	28	7	10	7	1	1	1	0	4	0	0
Deolali (Aerodrome)	0830	571	1011.6	947.9	..	22.	20.1	18.8	21.7	79	..	3.1	..	4.2	0	0	21	3	2	0	1	3	6	3	3	10	0
	1730	,,	1007.4	945.1	..	28.1	21.0	16.7	19.7	51	..	4.4	..	8.6	0	0	28	2	2	2	0	2	3	7	10	3	0
Ahmadnagar	0830	657	1010.0	937.5	—1.7	23.7	19.4	16.8	19.4	67	+3	2.2	—0.3	3.2	0	0	22	9	1	0	0	0	1	1	10	9	0
	1730	,,	1004.8	934.2	..	30.8	20.5	14.2	16.5	38	..	4.5	..	8.6	0	1	30	5	14	0	5	0	0	0	7	0	0
Poona (Aerodrome)	0230	593	1009.0	942.7	..	21.1	20.0	19.3	22.7	89	..	2.7	..	6.1	0	0	19	0	0	0	0	0	0	19	0	12	0
	0530	,,	1009.3	942.8	..	23.3	19.4	19.0	21.8	93	..	2.1	..	2.5	0	0	7	0	0	0	0	0	0	7	0	24	0
	0830	,,	1010.6	944.7	..	23.1	20.6	19.5	22.4	79	..	3.3	..	5.5	0	1	13	0	0	1	0	0	1	12	0	17	0
	1130	,,	1008.9	944.3	..	29.1	21.3	16.7	19.6	49	..	2.6	..	13.1	0	7	19	0	8	8	1	0	0	8	1	5	0
	1730	,,	1005.8	941.3	..	29.0	21.4	16.9	19.9	52	..	4.2	..	16.6	0	15	15	2	4	5	0	0	1	14	4	1	0
	2330	,,	1010.0	943.9	..	22.4	20.8	19.9	23.4	86	..	3.1	..	9.1	0	0	25	0	0	0	0	0	3	21	1	6	0
Poona	0530	559	1009.4	946.5	..	19.5	18.7	18.2	21.0	92	..	1.8	..	0.2	0	0	1	0	0	0	0	0	0	1	0	30	0
	0830	,,	1010.7	948.4	—1.2	23.4	20.9	19.6	22.9	79	+5	2.4	—0.8	0.6	0	0	5	0	0	0	0	0	0	4	1	26	0
	1130	,,	1008.8	947.8	..	29.1	21.4	17.1	19.7	50	..	2.6	..	2.4	0	0	17	0	1	7	0	0	1	8	0	14	0
	1430	,,	1005.5	945.1	..	30.9	21.6	16.3	19.0	43	..	3.9	..	3.0	0	0	18	0	1	5	1	1	0	8	2	13	0
	1730	,,	1005.8	945.0	..	28.6	21.7	17.9	20.9	55	..	4.7	..	3.0	0	0	16	0	0	0	0	0	0	16	0	15	0
	2030	,,	1009.3	947.4	..	24.4	21.2	19.5	22.8	75	..	3.4	..	2.3	0	0	15	0	0	0	0	0	1	13	1	16	0
	2330	,,	1009.9	947.6	..	24.4	20.5	19.4	22.7	84	..	2.5	..	0.6	0	0	3	0	0	0	0	0	0	3	0	28	0
Jeur	0830	521	1009.7	951.8	—0.8	23.7	20.5	18.6	21.8	74	+3	3.7	+0.2	6.5	0	0	26	8	3	4	0	1	0	6	4	5	0
	1730	,,	1004.6	948.2	..	30.6	21.2	15.7	18.3	42	..	4.6	..	7.7	0	1	30	10	5	8	0	1	1	1	5	0	0
Baramati	0830	551	1010.2	949.0	—0.6	23.4	20.5	18.8	22.1	76	+4	2.6	—0.9	7.4	0	0	28	5	2	0	0	1	0	9	11	3	0
	1730	,,	1005.1	945.6	..	30.2	21.3	16.2	18.8	45	..	3.9	..	9.9	0	2	28	6	5	8	1	2	2	1	2	1	0
Sholapur	0530	479	1008.6	955.1	..	21.7	19.4	18.0	20.8	84	..	2.6	..	4.9	0	0	25	8	8	3	0	0	1	3	2	6	0
	0830	,,	1010.0	956.9	—1.2	25.7	21.9	19.9	23.4	69	+5	2.7	—0.4	7.2	0	0	31	6	10	3	2	0	2	0	8	0	0
	1130	,,	1008.4	956.1	..	30.1	22.3	18.2	21.1	51	..	3.3	..	10.9	0	0	30	6	5	6	4	1	2	4	2	1	0
	1730	,,	1004.9	952.9	..	30.7	22.4	18.2	21.0	49	..	3.9	..	9.6	0	0	30	11	11	4	2	0	0	0	2	1	0
	2330	,,	1008.9	955.7	..	25.0	20.7	18.2	21.3	68	..	4.0	..	8.5	0	0	28	2	5	8	4	3	3	3	0	3	0
Miraj	0830	554	1010.7	949.1	—0.8	23.0	21.1	20.2	23.5	85	+13	5.0	+1.0	..	..	..	..	0	0	0	2	0	1	3	1	24	0
	1730	,,	1005.9	945.7	..	28.7	22.1	18.5	21.8	58	..	5.3	..	..	..	..	..	1	0	1	2	0	0	6	1	20	0
Kolhapur	0530	570	1008.7	945.0	..	20.9	20.3	19.9	23.4	94	..	3.6	..	3.6	0	0	13	0	1	2	0	0	2	7	1	18	0
	0830	,,	1010.2	946.9	—1.0	23.3	21.4	20.4	24.1	84	+1	3.0	—0.3	1.9	0	0	9	0	4	2	0	0	0	3	0	22	0
	1130	,,	1008.7	946.5	..	28.6	22.5	19.4	22.7	59	..	3.0	..	3.7	0	0	17	1	0	9	1	1	0	5	0	14	0
	1730	,,	1006.0	943.8	..	27.7	21.9	19.0	22.1	62	..	4.1	..	6.7	0	1	24	0	3	3	0	0	1	16	2	6	0
	2330	..	1009.7	946.3	..	22.6	21.4	20.8	24.4	90	..	3.2	..	9.7	0	5	19	0	0	1	0	1	2	17	3	7	0
Marathwada																											
Aurangabad	0830	581	1010.4	946.3	—1.3	25.7	19.7	16.0	18.5	56	—2	2.4	—0.6	2.3	0	0	14	5	2	4	0	0	1	0	2	17	0
	1730	,,	1005.9	943.0	..	29.8	20.0	13.9	16.2	40	..	4.4	..	7.9	0	0	27	9	5	2	0	1	0	3	7	4	0
Aurangabad (Chikalthan)	0230	579	1009.0	944.0	..	20.0	16.8	14.4	16.8	71	..	1.7	..	0.3	0	0	2	0	0	0	0	0	0	2	0	29	0
	0530	,,	1009.5	944.1	..	18.6	16.1	14.3	16.5	77	..	1.7	..	0.8	0	0	4	0	0	0	0	0	0	2	2	27	0
	0830	,,	1009.6	945.8	..	25.7	19.3	15.2	17.7	54	..	2.7	..	3.5	0	0	10	4	0	0	0	0	0	2	4	21	0
	1130	,,	1008.2	945.4	..	30.6	19.9	13.1	15.4	36	..	2.7	..	10.7	0	1	26	6	4	7	8	0	0	0	2	4	0
	1430	,,	1005.0	942.7	..	31.9	20.3	12.8	15.3	33	..	4.1	..	9.9	0	2	25	8	10	4	1	1	0	0	3	4	0
	1730	,,	1005.4	942.6	..	29.9	19.6	12.8	15.3	37	..	5.0	..	10.1	0	2	23	11	6	2	1	0	0	2	3	6	0
	2030	,,	1008.8	944.8	..	24.4	18.5	14.9	16.9	56	..	3.2	..	1.2	0	0	4	2	1	1	0	0	0	0	0	27	0
	2330	,,	1009.8	945.1	..	21.6	17.4	14.1	16.8	65	..	2.6	..	2.3	0	0	7	2	0	1	0	0	0	1	3	24	0
Parbhani	0830	423	1010.4	963.2	—0.3	25.0	20.0	16.8	19.4	62	—5	2.4	—0.7	3.9	0	0	26	4	7	2	0	0	0	3	10	5	0
	1730	,,	1005.8	959.6	..	30.8	21.1	14.7	17.1	39	..	4.2	..	9.2	0	1	30	7	15	7	0	0	0	0	2	0	0
Nander	0830	358	1009.8	969.7	..	26.1	21.9	19.5	22.8	68	..	1.2	..	2.6	0	0	16	2	2	1	1	0	3	6	1	15	0
	1730	,,	1006.4	967.0	..	30.6	22.5	17.7	20.6	48	..	1.5	..	4.5	0	0	23	5	4	3	0	0	1	8	2	8	0
Bir	0830	519	1010.7	953.0	..	24.2	20.4	18.3	21.1	70	..	2.8	..	7.0	0	2	25	1	4	1	0	4	1	0	16	4	0
	1730	,,	1006.4	950.2	..	30.9	21.0	15.1	17.6	40	..	3.3	..	8.8	0	5	23	0	18	3	1	0	0	1	5	3	0
Vidarbha																											
Gondia	0830	313	1010.1	974.9	—1.1	25.0	22.3	20.8	24.7	78	+2	3.7	+0.8	1.0	0	0	16	2	4	0	0	0	3	0	7	15	0
	1730	,,	1006.2	971.7	..	28.9	23.0	19.8	23.2	60	..	3.5	..	0.9	0	0	13	5	0	3	0	0	1	1	3	18	0
Nagpur (Sonegaon)	0230	310	1007.7	972.6	..	22.6	20.7	19.5	22.8	83	..	2.5	..	3.6	0	0	24	8	1	0	0	0	1	1	13	7	0
	0530	,,	1008.2	973.1	..	21.7	20.2	19.3	22.4	87	..	3.3	..	3.4	0	0	22	7	1	0	0	0	0	1	13	9	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha (*Contd.*)																											
Nagpur (Sonegoan)	0830	310	1009.9	975.0	−1.8	25.4	21.8	19.7	23.2	71	+3	3.3	+0.9	4.1	0	0	24	6	3	4	0	0	1	0	10	7	0
	1130	,,	1008.3	974.1	..	30.3	23.3	19.4	22.8	53	..	3.7	..	5.9	0	0	26	5	5	9	2	1	1	0	3	5	0
	1430	,,	1005.4	971.4	..	31.2	23.0	18.3	21.0	48	..	4.6	..	8.1	0	0	30	6	10	5	2	1	2	0	4	1	0
	1730	,,	1005.9	971.6	..	29.0	22.5	18.8	22.0	56	..	4.5	..	4.8	0	0	28	4	11	6	3	1	1	0	2	3	0
	2030	,,	1008.6	973.8	..	25.2	21.8	19.9	23.4	74	..	3.6	..	2.6	0	0	19	4	5	3	1	0	3	0	3	12	0
	2330	,,	1008.8	973.8	..	23.6	21.2	19.8	23.2	79	..	2.9	..	3.7	0	0	27	7	3	0	0	0	1	3	13	4	0
Amraoti	0830	,,	1010.4	969.1	−1.1	25.8	20.8	17.7	20.5	62	+4	1.9	−0.5	3.2	0	0	31	7	13	4	0	4	3	0	0	0	0
	1730	370	1006.0	965.5	..	30.7	21.5	15.5	18.1	43	..	3.9	..	4.0	0	0	31	7	9	5	5	0	2	2	1	0	0
Akola Aerodrome	053	309	1007.9	972.7	..	20.8	18.7	17.2	20.2	80	..	2.5	..	8.1	0	0	29	2	3	3	2	1	4	8	6	2	0
	0830	,,	1009.5	971.7	..	24.9	20.3	17.3	20.5	64	..	2.5	..	8.3	0	0	31	2	5	3	2	1	2	8	8	0	0
	1130	,,	1008.3	974.2	..	30.5	21.9	16.6	19.5	45	..	2.3	..	3.9	0	0	31	3	4	6	2	0	1	7	8	0	0
	1730	,,	1005.1	971.2	..	31.3	21.5	15.2	17.9	40	..	4.1	.	9.0	0	0	31	4	5	1	5	0	1	3	12	0	0
	2330	,,	1008.2	973.4	..	23.9	19.7	16.8	19.9	66	..	2.2	..	9.5	0	1	30	5	3	6	3	2	3	4	5	0	0
Akola	0830	282	1010.0	978.3	−1.6	25.4	20.9	18.1	21.0	65	+4	1.6	−0.8	0.5	0	0	7	0	0	0	0	0	0	6	1	24	0
	1730	,,	1005.5	974.6	..	31.9	22.4	16.6	19.3	42	..	3.8	..	1.0	0	0	16	3	2	1	1	0	0	4	5	15	0
Bramhapuri	0830	229	1010.1	984.2	..	25.3	23.1	22.0	24.9	82	..	3.7	..	1.7	0	0	24	7	4	1	3	2	2	3	2	7	0
	1730	,,	1006.1	980.7	..	29.4	24.3	21.6	24.7	64	..	4.3	..	2.8	0	0	27	12	5	6	2	1	0	0	1	4	0
Buldana	0830	650	1009.8	938.1	−0.6	24.3	18.9	15.3	17.8	59	−8	2.2	−1.2	3.0	0	0	25	3	9	1	0	0	1	1	10	6	0
	1730	,,	1005.6	935.4	..	29.3	19.9	14.1	16.3	41	..	2.5	..	4.1	0	0	28	8	7	0	1	0	0	0	12	3	0
Yeotmal	0830	451	1009.5	969.3	−1.0	25.6	21.1	18.4	21.2	67	0	2.5	−0.9	6.8	0	0	30	8	5	7	0	1	1	6	2	1	0
	1730	,,	1005.7	956.4	..	29.5	21.5	16.7	19.1	48	..	3.4	..	6.2	0	0	31	8	5	11	2	1	0	2	2	0	0
Chanda	0830	193	1009.7	987.8	−2.0	25.1	22.8	21.6	25.8	81	+8	3.3	+1.0	3.6	0	0	25	6	4	1	0	2	2	2	8	6	0
	1730	,,	1006.0	984.5	..	29.2	24.2	21.8	26.1	66	..	3.9	..	4.1	0	0	31	4	12	12	1	1	0	0	1	0	0
Pusad	0830	334	1009.9	972.3	..	24.5	21.2	19.1	22.4	73	..	2.1	..	4.3	0	0	26	2	1	1	1	0	0	9	12	5	0
	1730	,,	1006.5	969.8	..	30.8	22.7	18.0	21.0	49	..	3.7	..	7.9	0	0	31	10	6	9	3	0	0	0	3	0	0
Sironcha	0830	123	1010.0	996.1	−0.6	26.3	23.7	22.4	27.3	79	−2	3.2	−0.7	2.9	0	0	31	3	8	0	12	0	3	0	5	0	0
	1730	,,	1006.3	992.5	..	29.8	24.4	21.7	26.1	63	..	5.0	..	4.4	0	0	28	1	15	3	5	0	2	1	1	3	0
Coastal Andhra Pradesh																											
Kalinga Patam	0830	6	1009.3	1008.7	−1.5	27.2	25.1	24.2	30.0	84	+3	3.2	−0.2	7.5	0	3	26	2	3	0	0	1	3	5	7	2	8
	1730	,,	1006.4	1005.8	..	28.5	25.7	24.5	30.7	79	..	3.5	..	.6	0	1	29	2	2	2	3	7	5	3	1	1	5
	0230	3	1007.6	1006.6	..	25.4	24.0	23.3	28.6	88	..	2.3	..	0.7	0	0	4	1	0	0	0	0	0	0	3	27	0
Vishakapatanam	0530	,,	1007.5	1007.1	..	24.9	23.7	23.0	28.3	89	..	3.8	..	0.9	0	0	6	2	0	0	0	0	0	1	3	25	0
	0830	,,	1009.4	1009.0	−1.5	27.7	24.3	22.6	27.6	74	−3	4.1	−0.2	3.9	0	0	17	1	1	1	1	0	2	2	8	14	1
	1130	,,	1008.5	1008.1	..	30.2	25.0	22.5	27.4	65	..	5.0	..	8.3	0	0	28	0	2	5	6	3	7	4	1	3	0
	1430	,,	1005.8	1005.4	..	30.2	25.0	22.6	27.4	65	..	4.3	..	11.9	0	4	22	0	0	6	10	3	5	1	1	5	0
	1730	,,	1006.3	1005.9	..	28.1	24.5	22.8	27.7	73	..	4.3	..	7.4	0	0	26	0	0	5	9	2	6	1	3	5	0
	2030	,,	1008.3	1007.9	..	26.8	24.6	23.6	29.1	83	..	3.1	..	0.9	0	0	6	0	0	4	0	1	1	0	0	25	0
	2330	,,	1008.4	1008.0	..	26.1	24.4	23.7	29.3	87	..	2.0	..	0.2	0	0	2	0	0	0	0	0	0	0	2	29	0
Kakinada	0830	8	1009.2	1008.3	−1.6	27.9	25.6	24.6	30.9	82	+5	4.1	0	8.0	0	0	31	0	13	1	2	0	4	0	11	0	0
	1730	,,	1006.0	1005.1	..	29.2	25.1	23.1	28.3	71	..	4.1	..	10.2	0	0	31	0	6	3	15	0	4	0	3	0	0
Nidadavale	0830	12	1009.0	1007.6	..	25.9	24.5	23.9	29.7	89	..	4.8	..	4.7	0	0	24	5	6	3	0	0	1	3	6	7	0
	1730	,,	1005.1	1003.7	..	29.5	25.5	23.7	29.3	71	..	6.5	..	5.9	0	0	30	3	8	2	2	0	2	2	11	1	0
Rewtichintala	0830	106	1009.5	997.5	..	27.1	24.2	22.7	27.9	77	+3	3.8	−1.3	0.8	0	0	11	1	0	2	0	0	3	5	0	20	0
	1730	,,	1005.7	993.9	..	29.8	24.0	21.1	25.0	62	..	5.0	..	1.3	0	0	16	4	0	5	0	0	0	7	0	15	0
Gannavarany	0230	24	1006.9	1004.1	..	25.4	24.5	24.0	30.0	92	..	3.1	..	3.0	0	0	12	1	1	1	0	2	1	4	2	19	0
	0530	,,	1007.3	1004.5	..	24.9	24.1	23.7	29.3	93	..	3.9	..	3.3	0	0	16	4	1	2	0	1	0	5	3	15	0
	0830	,,	1009.3	1006.6	−0.7	27.3	25.0	24.0	29.7	83	+3	4.2	−0.2	8.4	0	2	27	8	2	5	0	5	2	3	4	2	0
	1130	,,	1008.3	1005.6	..	29.9	25.4	23.3	28.6	69	..	5.3	..	10.7	0	2	28	3	4	8	2	2	5	5	1	1	0
	1430	,,	1005.6	1002.9	..	30.8	25.3	22.7	27.6	63	..	5.3	..	11.9	0	5	25	4	3	8	5	3	3	3	1	1	0
	1730	,,	1006.0	1003.3	..	28.7	25.4	23.9	29.7	76	.	4.6	..	5.9	0	0	25	1	1	6	12	2	1	1	1	6	0
	2030	,,	1008.2	1005.5	..	26.5	24.9	24.2	30.2	87	..	3.3	..	4.0	0	0	19	5	1	4	4	3	1	0	1	12	0
	2330	,,	1008.3	1005.6	..	25.9	24.7	24.2	30.2	90	..	3.3	..	3.0	0	0	17	2	1	9	0	1	2	1	1	14	0
Nagarjuna Konola (R)	0830	126																									
	1730	,,																									
Masulipatam (R)	0830	3	1009.1	1008.8	−1.7	27.3	25.2	24.3	30.4	84	+4	4.8	+1.9	2.8	0	0	29	7	2	2	0	5	2	5	4	2	2
	1730	,,	1006.0	1005.7	..	29.2	25.4	23.7	29.3	73	..	5.7	..	2.8	0	0	28	1	1	11	4	4	0	2	2	3	3
Ongole	0830	12	1009.1	1007.8	..	28.3	25.1	23.6	29.3	75	..	4.4	..	1.4	0	0	16	1	2	1	0	0	0	9	3	15	0
	730	,,	1005.7	1004.4	..	29.8	25.2	23.1	28.3	68	..	3.5	..	2.5	0	0	29	2	1	10	0	0	0	16	0	2	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	SE	E	S	SW	W	NW	Calm	Variabel
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd.*)																											
Nellore	0530	20	1007.4	1005.2	..	25.2	24.3	23.9	29.7	92	..	6.1	..	0.5	0	0	7	1	0	0	1	1	0	1	3	24	0
	0830	,,	1009.2	1007.0	−1.3	28.0	25.3	24.1	30.0	80	+1	5.5	+0.5	2.2	0	0	20	0	0	0	3	0	3	9	5	11	0
	1130	,,	1008.3	1006.1	..	31.0	25.5	23.0	28.3	64	..	6.0	..	3.8	0	0	28	2	1	3	3	0	1	7	11	3	0
	1730	,,	1005.5	1003.3	..	30.2	25.6	23.6	29.1	68	..	6.2	..	6.8	0	0	29	0	20	0	2	0	0	0	7	2	0
	2330	,,	1008.5	1006.3	..	26.7	25.1	24.4	30.5	87	..	5.6	..	0.5	0	0	7	0	1	2	2	0	0	0	2	24	0
Telangana																											
Ramagundam	0830	156	1009.3	991.7	−1.1	26.1	23.5	22.1	26.7	79	+4	3.3	−0.5	2.5	0	0	25	7	8	2	0	2	1	2	3	6	0
	1730	,,	1005.6	988.2	..	30.7	24.2	20.9	24.7	57	..	3.7	..	3.4	0	0	24	10	12	0	0	0	0	1	1	7	0
Nizamabad	0830	381	1009.6	967.1	−1.6	26.7	23.1	21.4	25.3	73	+3	2.4	−0.2	0.7	0	0	7	0	3	4	0	0	0	0	0	24	0
	1730	,,	1005.5	963.8	..	30.0	27.5	26.7	34.6	81	..	4.3	..	5.8	0	0	21	0	17	0	0	0	2	0	2	10	0
Hanmakonda	0830	269	1009.4	979.2	−1.9	25.6	23.1	22.1	26.3	80	+7	2.0	−1.3	1.8	0	0	28	11	0	3	1	8	0	3	2	3	0
	1730	,,	1006.7	977.1	..	28.9	23.6	20.7	24.7	63	..	3.2	..	1.9	0	0	30	16	1	5	3	1	0	3	1	1	0
Hakimpet (Aerodrome)	0530	613	1008.1	940.0	..	21.5	20.5	19.9	23.4	91	..	4.0	..	5.6	0	0	19	0	2	2	4	3	1	5	2	12	0
	0830	,,	1008.8	941.1	..	25.1	21.9	20.5	24.1	76	..	4.0	..	9.0	0	1	27	3	5	2	8	1	1	6	4	3	0
	1130	,,	1007.9	941.5	..	28.5	22.4	19.4	22.5	59	..	5.2	..	13.5	0	1	30	7	7	5	6	0	0	3	3	0	0
	1730	,,	1005.8	938.9	..	27.1	22.0	19.4	22.7	64	..	5.7	..	10.4	0	3	24	9	7	5	4	0	0	1	1	4	0
	2330	,,	1008.5	941.1	..	23.1	20.7	19.6	22.8	82	..	3.6	..	5.9	0	0	23	6	5	5	3	2	0	2	0	8	0
Bhadrachalam	0830	111	1009.1	996.1	−1.8	26.9	24.5	23.3	28.7	81	−2	3.9	−1.1	2.8	0	0	28	2	23	0	1	0	2	0	0	3	0
	1730	,,	1005.0	992.6	..	29.2	25.2	23.6	28.7	77	..	4.3	..	2.1	0	0	22	5	12	0	1	0	4	0	0	9	0
Hyderabad (Begumpet)	0230	545	1007.7	946.9	..	21.5	20.4	19.8	23.2	90	..	3.1	..	2.1	0	0	12	0	1	3	4	0	0	2	2	18	0
	0530	,,	1008.3	947.3	..	20.5	19.9	19.5	22.8	94	..	2.6	..	2.3	0	0	13	2	0	3	1	0	0	0	7	18	0
	0830	,,	1009.5	949.3	−1.1	24.5	21.6	20.0	23.7	77	+6	3.7	+0.3	4.4	0	0	22	2	3	2	5	1	0	4	5	9	0
	1130	,,	1008.1	948.6	..	28.6	22.4	19.2	22.5	58	..	5.0	..	9.2	0	0	29	5	8	4	2	3	0	1	6	2	0
	1730	,,	1005.7	946.2	..	27.3	21.6	18.7	21.6	61	..	5.8	..	8.4	0	0	27	10	8	4	3	0	1	0	1	4	0
	2330	,,	1009.0	948.4	..	22.5	20.9	20.0	23.5	87	..	3.1	..	2.4	0	0	16	5	3	3	3	1	0	0	1	15	0
Khammam	0830	112	1008.9	996.5	..	26.5	24.4	23.4	28.8	83	..	4.9	..	1.6	0	0	13	3	0	3	3	2	0	1	1	18	0
	1730	,,	1005.5	993.0	..	29.5	24.2	21.6	25.8	63	..	6.1	..	1.4	0	0	14	4	1	7	1	1	0	0	0	17	0
Mahbubnagar	0830	505	1009.1	953.2	..	25.4	21.9	20.2	23.8	74	..	3.5	..	6.4	0	0	28	2	8	9	3	1	1	3	1	3	0
	1730	,,	1005.2	949.9	..	27.9	22.5	19.8	23.2	63	..	5.5	..	4.8	0	0	28	5	12	7	0	2	0	0	2	3	0
Rayalaseema																											
Kurnool	0830	281	1009.7	978.3	−1.0	25.7	22.4	20.6	24.4	74	+2	3.2	−0.5	7.2	0	0	28	0	0	0	1	0	7	0	20	3	0
	1730	,,	1005.1	974.1	..	30.2	22.9	13.8	22.0	53	..	4.1	..	5.7	0	0	28	0	1	0	1	0	3	1	22	3	0
Nandyal (R)	0830	..																									
(R)	1730																										
Anantapur	0530	350	1007.9	96 .5	..	22.8	21.4	20.6	24.4	87	..	3.9	..	3.2	0	0	9	0	1	0	0	0	1	7	0	22	0
	0830	,,	1009.5	970.4	−0.7	25.9	22.7	21.9	25.0	73	−2	4.2	−0.3	6.5	0	2	17	0	3	1	0	0	3	11	1	12	0
	1130	,,	1008.2	969.6	..	29.4	23.7	20.8	24.7	61	..	4.1	..	9.0	0	3	21	1	7	3	0	0	2	9	2	7	0
	1430	,,	1004.8	966.6	..	31.2	23.7	19.6	23.2	51	..	4.7	..	9.0	0	2	22	1	8	3	1	0	1	6	4	7	0
	1730	,,	1004.9	966.6	..	29.9	23.4	19.9	23.5	57	..	4.7	..	8.4	0	3	21	3	9	3	0	0	3	3	3	7	0
	2030	,,	1007.8	969.0	..	27.3	23.0	20.7	24.7	69	..	4.1	..	5.6	0	0	17	0	4	6	0	1	0	4	2	14	0
	2330	,,	1008.6	969.6	..	25.7	22.6	20.9	25.0	76	..	3.5	..	8.8	0	2	22	0	3	8	1	2	2	6	2	7	0
Cuddapah	0830	130	1009.6	995.0	−1.3	27.5	24.1	22.4	27.3	74	+1	3.4	−0.8	0.1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	,,	1005.5	991.0	..	30.2	25.3	23.0	28.3	66	..	4.1	..	0.9	0	0	7	0	0	5	0	0	0	0	2	24	0
Arogyavaram	0830	701	1009.4	932.6	..	24.1	21.3	19.8	23.2	77	..	5.5	..	5.9	0	0	27	1	1	2	6	3	3	6	5	4	0
	1730	,,	1005.1	929.3	..	26.8	21.0	17.9	20.6	59	..	5.1	..	5.9	0	0	29	14	5	5	1	0	0	2	2	2	0
Madras State																											
Madras	0830	6	1009.5	1008.8	..	27.9	24.9	23.6	28.9	78	..	4.4	..	5.4	0	0	25	3	0	0	0	0	9	10	2	6	1
Madras (Minambakkam)	0230	16	1007.3	1005.6	..	26.0	24.5	23.8	29.7	88	..	4.6	..	3.0	0	0	11	0	0	1	0	4	3	3	0	20	0
	0530	,,	1007.7	1005.9	..	25.3	24.1	23.5	28.9	90	..	4.0	..	4.7	0	0	19	0	0	1	1	3	4	8	2	12	0
	0830	,,	1009.5	1007.8	−1.1	27.8	24.7	23.2	28.6	77	−3	4.9	+0.3	7.5	0	1	28	2	0	0	1	2	8	11	5	2	0
	1130	,,	1008.4	1006.7	..	31.0	25.0	22.1	26.7	60	..	5.4	..	10.8	0	5	23	3	0	3	1	5	4	9	3	3	0
	1430	,,	1005.7	1004.0	..	31.6	25.6	22.8	27.9	61	..	5.9	..	9.7	0	1	30	2	4	11	3	1	4	2	4	0	0
	1730	,,	1006.0	1004.3	..	29.5	25.5	23.7	29.1	72	..	5.7	..	7.5	0	0	28	1	1	15	7	3	0	1	0	3	0
	2030	,,	1008.5	1006.8	..	27.8	25.5	24.5	30.7	82	..	4.0	..	5.2	0	0	23	0	3	6	7	6	0	1	0	8	0
	2330	,,	1008.9	1007.2	..	26.7	25.1	24.3	30.5	87	..	4.6	..	3.9	0	0	17	1	0	2	3	6	2	2	1	14	0

(R) Register not received.

Sub-Division and Station	Hour of observation I. S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Vellore . . .	0530	214	1008·1	983·8	..	23·9	22·5	21·7	26·1	89	..	4·9	..	0·5	0	0	4	0	0	0	0	1	0	3	0	27	0
	0830	,,	1009·6	985·5	—0·8	25·8	23·4	22·1	26·7	81	+1	5·9	+2·1	2·5	0	0	16	0	0	0	1	2	1	9	3	15	0
	1130	,,	1008·6	984·9	..	29·8	24·4	21·7	26·1	61	..	6·1	..	3·5	0	0	26	5	0	2	0	0	3	9	7	5	0
	1730	,,	1005·4	981·7	..	29·9	24·2	21·3	25·6	61	..	6·9	..	3·8	0	0	21	1	3	4	4	3	3	3	0	10	0
	2330	,,	1009·2	985·1	..	26·0	23·8	22·7	27·7	82	..	4·8	..	1·6	0	0	13	1	0	4	0	2	1	5	0	18	0
Tambaram (Aerodrome)	0830	29	1009·0	1005·8	..	28·1	26·0	25·3	31·9	84	..	5·4	..	11·8	0	0	28	1	0	0	0	1	14	9	3	3	0
	1730	,,	1005·8	1002·6	..	29·5	27·0	26·0	33·6	82	..	6·0	..	20·0	0	14	17	3	5	4	12	3	2	1	1	0	0
Tiruppattur . .	0830	390	1010·2	966·7	..	24·1	22·6	21·9	26·3	88	..	8·0	..	2·5	0	0	29	25	0	0	0	4	0	0	0	2	0
	1730	,,	1005·5	962·7	..	28·8	23·7	21·2	25·2	64	..	8·0	..	5·2	0	0	30	17	2	5	0	3	2	1	0	1	0
Mettur Dam R.S.	0830	,,	..	..	..	26·2	24·2	23·4	28·6	84	..	6·0	..	3·3	0	0	27	0	4	0	9	0	9	0	5	4	0
	1730	,,	..	..	..	28·7	25·6	24·2	30·3	77	..	6·2	..	5·5	0	0	30	0	1	0	6	0	17	0	6	1	0
Cuddalore	0530	12	1007·4	1006·1	..	24·9	23·5	22·8	27·7	88	..	5·8	..	2·8	0	0	16	1	0	0	5	2	7	0	1	15	0
	0830	,,	1009·5	1008·2	—1·1	27·2	24·4	23·2	28·3	80	—1	6·5	+1·9	5·5	0	0	30	4	0	0	1	2	18	4	1	1	0
	1130	,,	1008·4	1007·1	..	30·7	25·4	22·9	27·9	64	..	6·7	..	7·3	0	0	31	1	1	0	6	1	13	4	5	0	0
	1730	,,	1005·7	1004·7	..	29·1	26·0	21·1	30·9	73	..	5·7	..	9·3	0	3	27	0	0	4	23	1	1	0	1	1	0
	2330	,,	1008·6	1007·3	..	26·7	24·8	23·9	29·7	85	..	5·8	..	6·0	0	0	28	2	1	0	14	3	6	0	2	3	0
Kallakkuri Chchi .	0830	127	1009·4	995·1	..	26·5	24·0	22·7	27·9	80	..	5·0	..	4·5	0	0	30	2	4	1	2	3	13	0	5	1	0
	1730	,,	1005·3	991·2	..	30·1	25·1	22·8	27·9	66	..	5·3	..	5·0	0	0	29	0	10	3	8	1	4	1	2	2	0
Salem . . .	0530	278	1008·2	976·8	..	23·3	21·7	20·9	24·7	87	..	6·2	..	1·8	0	0	8	0	0	0	0	0	3	4	1	23	0
	0830	,,	1010·0	978·7	—1·1	25·3	22·7	21·4	25·5	80	+2	6·8	+2·2	1·3	0	0	10	0	0	0	0	2	1	6	1	21	0
	1130	,,	1008·5	977·7	..	28·9	23·8	21·3	25·3	64	..	5·8	..	6·3	0	0	30	1	0	1	0	1	4	21	2	1	0
	1730	,,	1005·	974·4	..	29·1	23·8	20·9	24·7	64	..	6·6	..	2·2	0	0	15	1	1	6	0	0	4	3	0	16	0
	2330	,,	1009·3	978·0	..	24·7	22·3	21·0	25·0	81	..	6·7	..	5·4	0	1	17	0	1	2	0	0	7	6	2	13	0
Coimbatore (Pilamedu) . .	0530	399	1008·8	963·0	..	21·8	21·3	21·0	25·0	95	..	4·7	..	10·3	0	4	18	0	0	0	0	11	7	1	0	9	3
	0830	,,	1010·4	965·7	..	24·0	22·3	21·4	25·6	86	..	5·1	..	14·1	0	10	15	0	0	0	0	15	9	0	0	6	1
	1130	,,	1008·7	964·8	..	28·4	23·4	20·8	24·7	64	..	4·7	..	13·9	0	8	17	0	2	2	4	8	7	0	0	6	2
	1730	,,	1006·3	962·2	..	26·2	22·8	21·0	24·9	74	..	6·4	..	20·0	0	15	15	1	0	1	0	9	14	3	1	1	1
	2330	,,	1009·8	965·0	..	22·7	22·1	21·8	26·1	94	..	5·6	..	15·4	0		18	0	1	1	0	14	10	0	0	5	0
Coimbatore . .	0830	409	1010·4	964·7	—0·7	24·5	22·3	21·2	25·2	83	+2	6·7	+2·4	22·3	0	28	3	0	10	11	5	5	0	0	0	0	0
Nagapattinam .	0830	9	1010·1	1009·0	—0·6	27·4	24·2	22·7	27·6	76	—3	5·9	+0·9	8·6	0	1	29	0	0	0	2	0	6	17	5	1	0
	1730	,,	1006·2	1005·1	..	29·6	25·2	23·2	28·4	69	..	5·5	..	12·8	0	7	23	1	0	8	8	9	2	2	0	1	0
Tiruchchirappalli .	0230	88	1007·5	997·5	..	24·6	23·2	22·6	27·3	89	..	5·3	..	10·	0	5	16	0	1	0	0	2	1	14	3	10	0
	0530	,,	1007·7	997·7	..	24·2	22·9	22·3	26·9	89	..	5·5	..	9·3	0	5	14	0	0	0	0	0	0	16	3	12	0
	0830	,,	1009·6	999·6	—1·4	26·3	23·8	22·6	27·4	81	+2	5·4	+0·9	16·7	0	9	20	0	0	0	0	0	2	23	4	2	0
	1130	,,	1008·5	998·7	..	30·0	25·2	22·9	28·1	66	..	5·1	.	15·0	0	8	22	2	0	1	0	0	2	21	4	1	0
	1430	,,	1005·2	995·5	..	31·8	25·5	22·6	27·4	59	..	5·6	..	11·4	0	5	18	0	2	2	2	1	2	11	3	8	0
	1730	,,	1005·2	995·4	..	30·4	25·1	22·6	27·4	64	..	6·0	..	9·7	0	4	17	2	1	3	4	2	1	2	6	10	0
	2030	,,	1008·3	998·4	..	27·4	24·5	23·2	28·3	79	..	4·9	..	12·0	0	2	27	0	2	3	8	6	5	5	0	2	0
	2330	,,	1009·0	999·0	..	25·3	23·5	22·6	27·4	86	..	5·6	..	11·6	0	6	17	0	0	0	2	6	4	10	1	8	0
Vedaranniyam .	0830	4	1010·0	1009·5	..	27·6	24·7	23·3	28·6	78	..	3·7	..	4·2	0	0	31	1	2	0	0	7	17	0	4	0	0
	1730	,,	1006·5	1006·0	..	29·1	25·2	23·5	28·9	73	..	3·0	..	4·0	0	0	31	0	2	0	6	11	11	0	1	0	0
Atirampattinam .	0830	6	1009·7	1009·0	..	27·4	24·2	22·7	27·6	76	..	4·5	..	6·6	0	0	28	1	0	0	0	8	1	0	18	3	0
	1730	,,	1006·0	1005·3	..	29·0	25·3	23·7	29·3	74	..	4·9	..	13·2	0	6	23	0	1	0	2	22	1	0	3	2	0
Madurai . . .	0830	133	1010·3	995·3	—0·6	26·8	23·2	21·2	25·6	70	—4	3·4	—1·7	3·5	0	0	29	2	4	1	2	0	0	5	15	2	0
Madurai Aerodrome.	0530	131	1008·2	993·3	..	24·2	22·3	21·2	25·3	84	..	4·6	..	6·4	0	0	28	9	6	0	0	0	1	5	7	3	0
	0830	,,	1010·1	995·3	..	27·1	23·3	21·2	25·3	72	..	4·7	..	7·6	0	0	29	8	4	0	0	0	2	5	10	2	0
	1130	,,	1008·8	994·1	..	30·4	24·0	20·6	24·6	57	..	4·6	..	7·0	0	1	27	6	3	0	2	2	5	4	6	3	0
	1730	,,	1006·0	991·4	..	29·5	23·9	21·0	25·0	63	..	6·4	..	14·0	0	9	21	0	7	3	5	8	2	3	2	1	0
Tondi . . .	0830	5	1010·1	1009·5	..	27·7	24·3	22·6	27·6	74	..	4·2	..	6·0	0	0	24	2	2	1	2	5	7	1	4	7	0
	1730	,,	1006·4	1005·8	..	29·0	25·8	24·5	30·5	77	..	5·3	..	22·3	0	21	9	0	0	2	14	14	0	0	0	1	0
Pamban . .	0830	11	1010·0	1008·7	—0·6	28·1	25·7	24·8	31·3	83	+3	3·6	0	6·9	0	2	19	1	0	0	4	5	3	7	1	10	0
	1730	,,	1006·6	1005·3	..	28·2	26·3	25·5	32·6	85	..	3·6	..	9·2	0	2	27	1	1	1	2	18	6	0	0	2	0
Tuticorin . .	0830	4	1010·3	1009·9	—0·2	28·2	23·8	21·6	25·8	68	—1	3·5	—0·3	7·3	0	0	31	2	2	0	4	2	3	14	4	0	0
	1730	,,	1006·6	1006·2	..	29·3	24·7	22·3	27·3	68	..	5·2	..	17·0	0	0	31	2	0	0	6	14	2	6	1	0	0
Palayankottai . .	0830	51	1009·9	1004·2	—0·4	28·9	23·5	20·8	24·6	62	—7	4·9	+0·5	5·5	0	1	22	3	0	0	0	1	1	16	2	8	0
	1730	,,	1006·4	1000·7	..	29·3	23·7	20·9	24·7	62	..	6·3	..	13·5	0	7	23	2	0	1	3	3	2	14	4	1	1

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—(*Contd.*)																											
Kanniyakumari	0830	37	1010·3	1006·2	..	27·1	23·6	21·9	26·3	73	..	4·8	..	16·7	0	13	18	3	0	0	0	0	1	25	2	0	0
	1730	,,	1007·4	1003·3	..	27·5	24·4	23·0	28·1	77	..	5·2	..	17·0	0	14	17	0	0	0	0	0	2	26	3	0	0
Coastal Mysore																											
Karwar	0830	4	1010·6	1010.1	0	25·4	24·2	23·7	29·3	90	+3	5·2	—0·1	6·4	0	1	29	0	2	7	4	0	0	0	8	1	9
	1730	,,	1007·9	1007·4	..	27·5	25·3	24·4	30·6	83	..	5·7	..	14·3	0	9	22	1	1	0	1	2	1	1	21	0	3
Honavar	0830	26	1010·5	1007·5	−1·1	25·3	23·9	23·3	28·4	88	+4	5·5	+0·6	3·0	0	0	23	1	3	14	0	1	2	2	0	8	0
	1730	,,	1007·7	1004·8	..	27·2	24·9	23·8	29·7	81	..	6·0	..	7·1	0	0	30	0	0	0	1	3	3	16	7	1	0
Mangalore (Bajpe)	0230	102	1008·5	997·0	..	24·0	23·5	23·1	28·6	95	..	6·3	..	3·8	0	0	20	0	3	7	0	1	3	4	2	11	0
	0530	,,	1008·7	997·1	..	23·6	23·2	22·9	28·1	96	..	5·4	..	3·8	0	0	22	2	1	13	0	1	1	3	1	9	0
	0830	,,	1010·6	999·1	..	25·4	24·0	23·3	28·6	88	..	5·8	..	4·6	0	0	26	1	3	14	2	0	0	4	2	5	0
	1130	,,	1010·0	998·6	..	28·4	25·0	23·4	28·8	75	..	6·4	..	7·6	0	0	29	1	0	2	3	1	2	10	9	2	1
	1430	,,	1007·3	996·0	..	28·8	25·1	23·4	28·9	73	..	5·7	..	13·4	0	2	29	0	0	0	0	1	2	18	10	0	0
	1730	,,	1007·5	996·1	..	26·6	24·6	23·6	29·3	84	..	6·8	..	11·2	0	0	31	0	0	0	0	1	2	17	11	0	0
	2030	,,	1009·9	998·3	..	25·3	24·3	23·8	29·7	91	..	6·8	..	4·6	0	0	24	1	1	1	0	1	1	12	7	7	0
	2330	,,	1010·2	998·6	..	24·6	23·9	23·5	28·9	94	..	6·2	..	4·0	0	0	21	2	1	4	1	2	1	1	9	10	0
Mangalore	0830	22	1010·5	1008.1	−0·6	26·3	24·4	23·5	28·9	85	+1	6·0	+1·2	3·8	0	0	27	6	4	9	3	0	2	2	0	4	1
	1730	,,	1007·6	1005·1	..	27·9	25·4	24·4	30·4	82	..	6·7	..	7·3	0	0	31	0	0	0	0	2	1	13	12	0	3
Interior Mysore North																											
Bidar (R)	0830	664	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gulbarga	0830	458	1009·6	958·4	−1·8	25·6	21·3	19·1	22·1	70	+4	3·3	+0·7	3·0	0	0	11	1	1	4	0	2	0	3	0	20	0
	1730	,,	1007·7	955·0	..	30·2	21·4	16·5	19·0	47	..	4·5	..	9·6	0	0	30	5	8	7	2	0	1	2	5	1	0
Bijapur	0830	594	1010·1	944·3	−1·2	23·4	21·0	19·7	23·1	81	+13	4·3	+1·4	1·6	0	0	18	7	0	1	1	0	2	2	5	13	0
	1730	,,	1005·9	941·7	..	29·2	21·9	18·1	20·9	55	..	6·5	..	2·3	0	0	29	9	1	1	2	1	2	6	7	2	0
Raichur	0830	400	1009·5	965·0	−1·5	25·5	22·4	20·5	24·4	74	+4	4·0	+1·3	1·2	0	0	14	1	0	0	2	0	10	1	0	17	0
	1730	,,	1005·0	961·4	..	29·8	22·3	17·8	20·8	52	..	5·4	..	7·4	0	0	31	0	16	0	6	0	3	0	6	0	0
Belgaum	0830	753	1009·6	926·7	−1·8	21·5	20·6	20·1	23·5	92	+15	4·1	+1·2	1·9	0	0	12	1	0	1	0	0	0	8	2	19	0
	1730	,,	1006·0	924·5	..	25·8	22·0	19·9	23·7	73	..	5·7	..	4·8	0	0	31	1	1	0	0	0	0	18	11	0	0
Belgaum (Sambra)	0530	747	1008·9	926·1	..	19·9	19·5	19·0	22·4	95	..	4·7	..	2·3	0	0	14	0	4	2	2	0	2	4	0	17	0
	0830	,,	1010·2	927·9	..	21·9	20·4	19·6	22·9	87	..	5.2	..	4·2	0	0	22	1	6	3	1	0	1	9	1	9	0
	1130	,,	1008·8	927·7	..	26·4	21·1	18·2	21·0	62	..	5.0	..	7·3	0	0	29	2	9	3	4	0	2	8	1	2	0
	1430	,,	1005·7	925·2	..	27·9	21·3	17·6	20·5	56	..	5.6	..	8·1	0	3	28	9	6	1	4	0	4	5	2	0	0
	1730	,,	1005·9	925·1	..	26·3	21·1	18·3	21·1	64	..	5.9	..	6·9	0	1	28	4	6	1	2	0	3	10	3	2	0
	2030	,,	1009·2	927·1	..	22·9	21·2	20·6	24·1	89	..	4.5	..	7·0	0	0	27	1	1	0	0	0	2	22	1	4	0
Gadag	0530	650	1009·1	936·6	..	21·0	20·3	19·9	23.2	93	..	4.8	..	4·1	0	0	23	0	1	1	0	1	2	18	0	8	0
	0830	,,	1010·1	938·2	−1·1	22.9	20·9	19·9	23·2	84	+9	3.9	—0.2	3·4	0	0	26	0	1	1	0	0	6	13	5	5	0
	1130	,,	1008·7	938·1	..	27·6	22·4	19·8	23·3	64	..	4.5	..	5·4	0	0	28	1	6	4	0	0	3	8	4	5	0
	1430	,,	1005·3	935·3	..	29·7	22·9	19·4	22·9	56	..	4.7	..	5·6	0	0	28	0	8	7	0	1	2	9	1	3	0
	1730	,,	1005·6	935·2	..	27·7	21·9	18·9	22·0	61	..	5·2	..	4·0	0	0	26	0	9	1	2	0	2	10	2	5	0
	2030	,,	1008·6	937.2	..	24·3	21.4	19.9	23·2	78	..	4.1	..	6·4		0	29	2	1	2	6	1	8	9	0	2	0
	2330	5	1009·7	937·8	..	22·7	21.0	20·1	23.5	86	..	4·3	..	6·6	0	0	27	0	2	0	2	1	7	13	2	4	0
Interior Mysore South																											
Bellary	0830	449	1009.4	959.4	−1·6	24.7	21.8	20.3	23.8	77	+8	4·5	+0·4	6.3	0	0	23	0	0	0	0	0	0	0	23	8	0
	1730	,,	1005.0	955·9	..	29.3	22.6	19.3	21.8	56	..	6·0	..	7.8	0	0	29	0	1	0	1	0	0	0	27	2	0
Chitradurga	0830	733	1010.0	929.3	−1·0	22.3	20.4	19·3	22.7	83	+8	5·0	+0·4	5.0	0	0	26	1	0	4	0	0	6	15	0	5	0
	1730	,,	1005.0	925.9	..	27.1	21.1	17.8	20.5	57	..	5·7	..	3.5	0	0	22	0	4	5	0	0	3	9	1	9	0
Shimoga	0830	571	1010.3	947.0	−0·2	22.9	21.1	20.3	23·7	85	−1	6·5	+0·5	3.5	0	0	31	3	0	5	2	3	6	5	7	0	0
	1730	,,	1005.6	943.3	..	26.9	22.6	20.5	24.1	69	..	5·5	..	4.2	0	0	26	4	1	3	0	2	7	5	4	5	0
Agumbe	0830	..	..	..	..	21.8	20.9	20.5	24.1	93	..	..	..	3.3	0	0	31	1	6	7	7	2	5	2	1	0	0
Balehonnur	0830	..	..	..	..	20.5	19.6	19.2	22.1	93	+1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1503.1	905.6	..	20.2	19.5	19.1	22.1	93	+13	6.2	+1·3	3.3	0	0	30	4	0	2	0	0	4	20	0	1	0
	1730	,,	1472.0	902.8	..	23.8	20.2	18.2	21.0	72	..	6.8	..	2.1	0	0	27	3	3	1	0	0	4	11	5	4	0
Bangalore	0230	921	1484.6	907.7	..	20.2	19.4	19.0	22.0	93	..	5.1	..	3.3	0	0	14	0	2	3	0	0	5	2	2	17	0
	0830	,,	1504.9	909.6	—0·9	21.3	19.9	19.1	22.2	87	+6	6.3	+1·0	6.7	0	1	25	2	1	2	4	0	5	9	3	5	0
	1130	,,	1506.3	908.9	..	25.7	20.9	18.3	21.2	64	..	6.3	..	6.6	0	0	26	2	3	1	2	0	5	6	7	5	0
	1430	,,	1487.3	996.6	..	26.7	20.9	17.9	20.5	59	..	6.5	..	6.9	0	5	24	1	7	3	2	0	2	4	0	2	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore South—*Contd.*																											
Bahgalore—*Contd.*	1730	21	1483·5	906·6	..	25·2	20·3	17·6	20·2	64	..	6·4	..	6·6	0	0	27	6	5	2	1	1	1	3	8	4	0
	2030	,,	1497·9	908·7	..	22·3	19·8	18·4	21·3	79	..	4·9	..	3·8	0	0	18	4	3	3	0	1	3	2	2	13	0
Bangalore Aerodrome	0530	897	1483·5	910·3	..	19·7	19·3	19·0	22·2	96	..	6·0	..	5·7	0	0	16	0	0	0	1	0	6	9	0	15	0
	0830	,,	1504·6	912·2	..	21·5	20·0	19·2	22·4	87	..	6·2	..	8·1	0	1	22	1	1	2	1	2	2	14	0	8	0
	1130	,,	1504·5	911·4	..	25·3	20·6	18·1	20·8	65	..	6·3	..	9·2	0	2	21	1	3	3	0	1	3	9	3	8	0
	1730	,,	1480·9	908·9	..	25·8	20·3	17·2	19·7	61	..	6·3	..	7·0	0	1	20	7	2	1	1	0	2	4	4	10	0
	2330	,,	1498.2	911.5	..	21.5	19.9	19.2	22.4	87	..	5.0	..	4.0	0	0	15	1	1	2	1	0	1	7	2	16	0
Mysore . . .	0830	767	1010.9	926.2	—0.7	21.5	19.9	19.0	22.1	85	+4	4.3	—1.1	4.5	0	0	29	2	1	1	3	5	8	5	4	2	0
	1730	,,	1006.3	923.1	..	25.4	21.1	18.9	21.8	69	..	5.7	..	7.0	0	0	30	0	2	6	1	0	5	10	6	1	0
Kerala																											
Calicut . . .	0530	5	1009.5	1008.9	..	24.2	23.6	23.3	28.6	94	..	4.4	—0.2	4.7	0	2	11	2	2	5	0	0	0	2	2	13	0
	0830	,,	1010.9	1010.3	—0.4	25.8	24.3	23.6	29.3	88	+2	5.0	..	3.7	0	0	21	2	0	11	2	0	1	2	3	10	0
	1130	,,	1010.8	1010.2	..	28.4	25.5	24.2	30.4	79	..	4·6	..	10.0	0	0	30	0	0	0	0	4	10	9	7	1	0
	1730	,,	1008.2	1007.6	..	27.4	25.4	24.5	30.7	84	..	6.6	..	10.1	0	0	30	0	0	0	0	1	3	13	13	1	0
	2330	,,	1010.8	1010.2	..	25.2	24.4	24.0	29.8	93	..	5.2	..	(a) 6.7	0	2	15	3	2	2	1	0	1	2	6	13	0
Palghat .	0830	97	1010.9	999.9	..	25.5	23.8	23.0	27.9	86	..	5.5	..	8.3	0	0	27	0	0	0	0	0	2	25	0	4	0
	1730	,,	1006.9	996.0	..	26.7	23.9	22.6	27.4	79	..	6.7	..	11.5	0	0	31	1	0	0	0	0	2	26	2	0	0
Port Cochin . .	0830	3	1011.1	1010.8	—0.6	26.2	24.4	23.4	29.1	86	+4	6.8	+2.0	4.1	0	0	24	0	18	0	0	0	1	3	2	7	0
	1730	,,	1008.1	1007.8	..	27.0	24.9	23.9	29.7	83	..	7·1	..	8.3	0	0	28	1	0	0	0	1	3	8	15	3	0
Cochin (Naval Air Station)	0230	3	1009·3	1009.0	..	24·5	23.8	23.4	28.8	93	..	6.2	..	1.5	0	0	3	1	0	0	0	0	0	0	2	28	0
	0530	,,	1009.4	1009.1	..	24.0	23.4	23.1	28.3	95	..	6.0	..	0.7	0	0	2	1	0	0	0	0	0	0	1	29	0
	0830	,,	1011.2	1010.9	..	26.3	24.3	23.4	28.8	84	..	5.5	..	1.1	0	0	4	0	0	0	0	0	0	1	1	27	2
	1130	,,	1010.8	1010.5	..	28.5	25·0	23.4	28.8	74	..	5.8	..	8.0	0	0	21	0	0	0	0	0	4	7	10	10	0
	1730	,,	1008.2	1007.9	..	27.3	24·6	23.3	28.6	79	..	6.8	..	9.5	0	0	23	0	0	0	0	0	2	16	11	8	0
	2330	,,	1010.9	1010.6	..	25.3	24.2	23.7	29.4	91	..	6.7	..	1.1	0	0	3	1	0	0	0	0	0	1	1	28	0
Alleppey . .	0830	4	1011.2	1010.8	+0.1	25.6	24.5	24.0	29.8	91	+6	6.2	+0.1	5.8	0	0	28	3	8	4	3	0	1	1	8	3	0
	1730	,,	1008.3	1007.9	..	27.6	25.1	24.0	29.7	81	..	6.5	..	17.9	0	12	18	0	0	0	0	0	1	8	21	1	0
Punalur . .	0830	34	1011.2	1007.3	..	24.1	23.4	23.1	28.3	91	..	6.4	..	0	0	0	0	0	0	0	0	0	0	6	0	31	0
	1730	,,	1008.4	1004.6	..	25.9	24.0	23.9	30.0	89	..	7.6	..	4.1	0	0	30	0	0	0	0	6	14	9	1	1	0
Trivandrum . .	0230	64	1009.1	1001.7	..	23.6	23.0	22.7	27.6	95	..	4.3	..	4.3	0	0	10	1	1	0	0	0	0	1	7	21	0
	0530	,,	1009.4	1002.0	..	23.3	22.8	22.6	27.3	96	..	5.0	..	4·3	0	0	21	11	1	0	0	0	0	0	9	10	0
	0830	,,	1011.3	1003.9	—0.3	25.4	23.8	23.0	28.1	87	+2	5.4	—0.1	5.9	0	0	28	11	2	0	0	0	1	2	12	3	0
	1130	,,	1010.3	1003.0	..	28.6	24.8	23.0	28.3	72	..	5.6	..	10.4	0	4	25	4	0	0	0	0	1	8	16	2	0
	1430	,,	1007.7	1000.5	..	28.2	24.6	22.9	28.6	74	..	5.6	..	13.0	0	3	27	1	0	0	0	0	2	14	13	1	0
	1730	,,	1008.3	1001.0	..	26.5	24.1	23.0	28.1	82	..	6.2	..	9·2	0	3	24	0	2	0	0	0	0	6	19	4	0
	2030	,,	1010.6	1003.3	..	25.2	23.9	23.4	28.6	90	..	5·6	..	5.5	0	0	20	1	1	0	0	0	0	1	17	11	0
	2330	,,	1010.8	1003.4	..	24.3	23.6	23.2	28.6	94	..	5·4	..	7.2	0	1	26	12	2	0	0	0	0	1	12	4	0
Trivandrum (Aerodrome)	0830	8	1011.5	1010.6	..	26.4	23.8	22.6	27.4	80	..	5.9	..	16.1	0	13	13	17	1	0	0	0	1	0	7	5	0
Arabian Sea Islands																											
Amini* . .	0530	4																									
	0830																										
	1130	,,																									
	1730	,,																									
	2330	,,																									
Minicoy* . .	0530	2																									
	0830	,,																									
	1130	,,																									
	1430	,,																									
	1730	,,																									
	2030	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dathousie . .	0830	1959	1447.3	800.7	—0.1	15.6	10.9	6.5	10.0	57	—7	0.3	—0.8	2.1	0	0	22	2	8	3	7	0	2	0	0	9	9
	1730	,,	1436.4	800.1	..	18.1	14.3	11.6	13.7	67	..	0.1	..	0.7	0	0	7	0	0	0	4	0	1	1	1	24	0
Dharmsala . .	0830	1211	1506.3	880.1	—4.2	19.4	14·3	10.3	12.5	57	+8	0.4	—0.8	1.1	0	0	17	2	8	2	0	0	0	1	4	14	0
	1730	,,	1503.8	879.5	..	22.9	16.3	11.5	13.6	49	..	1.5	..	2.1	0	0	31	0	0	0	0	0	22	9	0	0	0

* Data given as addenda in December, 1964 issue.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir (*Contd.*)																											
Simla	0830	2202	1495·5	783·3	−0·5	16·6	9·9	3·5	7·9	45	+1	0·2	−0·9	1·5	0	0	23	1	5	0	7	8	1	0	1	8	0
	1730	,,	1485·7	782·2	..	15·9	12·7	10·2	12·6	70	..	0·6	..	1·1	0	0	17	0	6	0	3	1	6	0	1	14	0
Lokpal	0830	..	..	..	..	−0·5	−3·1	−6·8	3·4	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	..	13·9	9·6	4·9	8·7	56	..	0·4	..	6·1	0	0	29	0	4	17	6	0	0	0	0	2	2
	1730	..	..	..	..	18·9	12·3	7·9	10·7	50	..	1·5	..	2·6	0	0	26	1	2	5	6	5	6	1	0	5	0
Mussoorie	0830	2042	..	..	..	17·0	11·4	6·0	9·3	49	−15	0·4	−1·2	1·5	0	0	16	2	1	0	4	5	2	0	2	15	0
	1730	,,	..	..	..	16·6	13·8	12·0	14.1	75	..	1.3	..	3.5	0	0	25	4	3	0	6	8	3	0	1	6	0
Mukteswar (Kumaun)	0830	2311	3159·3	774·4	−0·4	15·9	9·8	3·6	7·9	48	−9	0·5	−0·9	7·7	0	0	28	1	6	8	2	1	1	4	5	3	0
	1730	,,	3141·9	772·8	..	15·7	11·9	8·6	11·2	65	..	1·2	..	10 1	0	1	28	0	0	1	1	1	7	14	5	2	0
Nainital	0830	1953	1480·3	806·3	−0.1	17·0	11·0	4·7	8·5	46	−13	0·2	−1.7	4·7	0	0	14	0	1	6	3	0	0	2	2	17	0
	1730	,,	1473·4	803·7	..	15·5	11·7	8·2	10·9	62	..	0·8	..	6·3	0	0	31	0	0	0	1	1	1	28	0	0	0
Kalimpong	0830	1209	..	..	..	24·0	22·2	21·4	25·5	85	+6	2·9	−0·1	2·6	0	0	31	1	0	0	2	0	0	0	28	0	0
	1730	,,	..	..	..	24·9	22·9	21·9	26·3	84	..	3·1	..	2·5	0	0	30	0	0	1	28	1	0	0	0	1	0
Darjeeling	0830	2128	1530 8	793.1	+2.0	16·1	14·7	13·8	15·8	86	+13	5.6	+0·7	0·5	0	0	5	4	0	0	0	0	1	0	0	26	0
	1730	..	1502.8	790.5	..	15·7	14·8	14·3	16·3	90	..	6·6	..	0·6	0	0	6	1	0	0	1	1	2	1	0	25	0
Kohima	0830	1406	1537.2	863.2	..	19·2	17·9	17·1	19·5	91	..	4·7	..	2·0	0	0	29	0	2	1	11	0	1	0	14	2	0
	1730	,,	1458·4	855·4	..	19·6	18·5	17·9	20·2	92	..	6·3	..	2·0	0	0	29	4	1	0	0	0	2	1	21	2	0
Shillong	0830	1500	1511·8	851·3	−0·8	20·5	17·8	16·2	18·4	79	+7	5·6	+2·2	0·8	0	0	9	0	2	4	1	1	0	0	1	22	0
	1730	,,	1489.9	849·1	..	19.2	18.2	17.6	20·1	90	..	6·9	..	0.3	0	0	3	0	0	1	1	1	0	0	0	28	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1502.9	880.8	−2.4	21·6	14.3	8.4	11.0	44	−4	0·2	−0·9	0.3	0	0	3	1	0	0	0	0	0	0	2	28	0
	1730	,,	1501·2	880·6	..	24·7	15·7	8·4	11·0	37	..	0·1	..	0·7	0	0	8	3	0	0	0	0	0	0	5	23	0
Aijal	0830	,,	..	..	..	21·3	20·3	19·8	23·1	90	..	6·0	..	2·2	0	0	30	2	0	16	0	5	1	6	0	1	0
	1730	,,	..	..	..	21.9	21.0	20.5	24.1	91	..	6·3	..	2.3	0	0	30	4	1	5	0	2	0	18	0	1	0
Pachmarhi	0830	1075	1517·3	894·5	−1.0	23.0	17.9	14.3	16.7	60	0	2·5	+0·3	1.7	0	0	20	0	7	9	1	1	0	0	2	11	0
	1730	,,	1496·3	892.1	..	24·5	18·2	13·9	16·3	53	..	3·5	..	2·0	0	0	23	0	13	1	0	1	0	1	7	8	0
Mahabaleshwar	0830	1382	1508·0	862.7	−0.9	19·3	16·1	13·9	16·0	75	−2	2·9	−0·9	9·6	0	0	31	3	18	3	1	0	0	0	6	0	0
	1730	,,	1487·1	860.6	..	21·8	19·1	17·5	20·1	77	..	4·6	..	9·5	0	0	31	2	11	1	0	0	0	1	16	0	0
Mercara	0830	1152	1504.3	885.8	−0.1	18·9	18·1	17·6	20·2	92	+5	4·7	−0.7	7·3	0	0	27	10	1	5	0	1	0	9	1	4	0
	1730	,,	1482·7	883.5	.	20·6	19·5	18·8	21·8	89	..	6·6	..	6·7		0	31	2	2	1	1	0	1	15	8	0	1
Cotacamund (R)	0830	2249																									
	1730	,,																									
Coonoor (R)	0830	,,																									
Kodaikanal	0830	2343	3149·6	771.2	0	13·8	12·5	11·4	13·7	87	+7	5·5	+0.7	5·2	0	1	23	7	1	2	2	1	0	1	10	7	0
	1130	,,	3152.9	770·9	.	16·3	14·0	12·5	14.5	79	..	6·5	..	6.7	0	1	25	7	4	2	3	2	0	0	8	5	0
	1730	,,	3126·5	769·1	.	13·7	13·0	12·5	14·5	93	..	7·3	..	4·0	0	0	23	8	1	0	3	1	0	0	10	8	0
Nepal																											
Katmandu	0830	1324	1508·1	868·5		19·3	17·7	16·8	19·2	86	..	3·7	..	0·2	0	0	2	1	0	0	0	0	0	0	1	29	0
	1130	,,	1499·3	867·3	..	24·9	19·4	16·2	18·5	59	..	3·2	..	1·1	0	0	11	4	1	3	0	0	0	1	2	20	0
	1730	,,	1480·4	865·6	..	21·7	19·0	17·5	20·1	77	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	,,	..	..	..	15·6	11·3	7·9	10·7	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar Catchment																											
Tilaiya	0830	,,	..	..	..	25·5	22·3	20·6	24·3	74	..	2·8	..	7·0	0	0	29	2	1	2	8	0	1	12	3	2	0
	1730	,,	..	..	..	27·0	22·6	20·2	23·7	67	..	4.1	..	3·7	0	0	29	7	2	2	4	1	1	3	9	2	0
Hazaribagh	0830	615	1008.6	940·6	..	23·9	21·3	19·9	23·2	79	..	2·9	..	3·6	0	0	24	3	0	5	3	1	1	3	8	7	0
	1730	,,	1005·6	937·8	..	23·6	21·4	20·2	23·7	82	..	3·4	..	1·3	0	0	10	3	0	2	1	0	1	1	2	21	0
Konar	0830	,,	..	..	..	25·8	22·6	20·8	24·6	74	..	3·8	..	5·2	0	0	30	3	2	3	5	0	0	11	6	1	0
	1730	,,	..	..	..	27·0	23.1	21·1	25·0	71	..	2·9	..	7·6	0	0	31	1	0	7	1	0	0	10	12	0	0
Bokaro	0830	242	1008.3	981.3	..	25·4	22·8	21·5	25·6	79	..	3·2	..	2·5	0	0	22	2	1	2	5	1	2	5	4	9	0
	1730	,,	1005·8	978·8	..	26·7	23·6	22·1	26·6	76	..	2·8	..	2·5	0	0	18	1	1	4	3	0	1	4	4	13	0
Maithon	0830	,,	..	..	..	27·5	24·1	22·5	27·3	75	..	4·0	..	3·8	0	0	31	4	2	1	4	3	7	6	4	0	0
	1730	,,	..	..	..	28·2	24·8	23·2	28·4	75	..	3·7	..	3·0	0	0	31	3	6	0	6	1	4	6	5	0	0
Ramgarh	0830	,,	..	..	..	25·2	23·8	23·1	28·3	88	..	4·2	..	1·7	0	0	18	0	2	4	3	1	6	2	0	15	0
	1730	,,	..	..	..	26·3	25·5	25·3	32·2	94	..	4·0	..	0·9	0	0	9	0	1	2	3	1	2	0	0	22	0

(R) Register not received

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of *nearest standard in basic level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry Bulb	Mean temperature in °C: Wet Bulb	Mean temperature in °C: Dew Point	Vapour pressure in mbs.	Relative Humidity%	Departure from normal	Cloud amount (Oktas): Mean Amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories Damodar Catchmant —(*Contd*).																											
Panchet Hills	0830	242	..	..	..	26.4	23.9	22.7	27.6	80	..	3.8	..	5.0	0	0	20	0	4	0	5	0	4	0	7	11	0
	1730	,,	..	..	..	27.3	24.1	22.5	27.3	76	..	2.5	..	1.6	0	0	7	0	2	0	3	0	0	0	2	24	0
Durgapur	0830	,,	..	..	..	26.5	24.2	23.1	28.3	81	..	4.0	..	7.4	0	0	30	2	4	2	3	3	3	0	13	1	0
	1730	,,	..	..	..	27.8	24.5	22.9	27.9	75	..	4.2	..	6.1	0	0	28	7	4	4	2	2	2	2	5	3	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	24.7	21.5	19.6	22.9	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1009.1	991.2	..	27.8	24.3	22.7	27.6	74	..	2.5	..	2.9	0	0	26	10	1	2	2	4	1	5	1	5	0
	1130	,,	1007.8	990.1	..	30.5	24.8	22.1	26.6	62	..	2.7	..	3.0	0	0	27	4	2	2	2	0	7	3	7	4	0
	1730	..	1005.4	987.7	..	29.4	24.4	22.0	26.4	65	..	2.9	..	1.0	0	0	14	2	0	2	3	0	1	1	5	17	0
Bhimkund	0830	..	..	..	..	25.0	22.9	21.9	26.3	82	..	4.8	..	3.5	0	0	18	2	0	0	1	0	0	5	10	13	0
	1730	..	..	..	..	27.5	23.7	21.9	26.3	69	..	5.0	..	2.1	0	0	14	3	1	0	2	4	2	0	2	17	0
Sonepur	0830	..	..	..	..	27.1	25.0	24.1	30.0	85	..	..	..	4.8	0	1	30	5	0	5	1	5	5	10	0	0	0
Khijrawan	0830	..	..	..	..	24.6	22.4	21.7	25.9	85	..	2.2	..	1.5	0	0	19	1	2	0	5	0	8	3	0	12	0
	1730	..	..	..	..	27.5	24.6	23.2	28.6	78	..	2.5	..	1.8	0	0	21	3	2	1	0	1	8	2	4	10	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	24.7	20.8	18.4	21.2	69	..	1.3	..	6.6	0	0	26	1	5	3	1	1	12	3	0	5	0
	1730	..	..	..	..	29.5	22.3	17.8	21.0	52	..	3.3	..	3.0 (c)	0	0	15	1	2	4	3	2	2	1	0	16	0
Punasa	0830	..	..	..	..	25.4	20.0	16.8	19.0	58	..	..	..	4.2 (c)	0	1	21	0	5	2	1	1	6	4	3	4	0
	1730	..	..	..	..	32.7	23.1	18.0	20.4	41	..	..	..	1.4	0	0	14	3	7	1	0	0	2	0	1	12	0
Thikri	0830	..	..	..	..	25.3	21.0	18.3	21.3	66	..	1.2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	24.3	19.8	16.7	19.4	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	31.8	22.5	16.9	19.6	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	,,	..	..	..	16.0	10.3	6.3	9.6	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	14.2	10.9	8.5	11.1	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kindi Bazar	0830	,,	..	..	..	22.6	18.5	16.3	19.3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	25.0	21.8	20.6	24.3	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	,,	..	..	..	14.2	12.1	10.5	12.9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	19.0	16.3	14.7	16.8	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	,,	..	..	..	22.6	19.9	18.3	21.2	77	..	3.6	..	0.8	0.	0	8	3	0	0	1	2	2	0	0	23	0
	1130	,,	..	..	..	25.9	21.3	19.1	22.2	66	..	3.3	..	2.7	0	0	26	0	0	0	19	6	1	0	0	5	0
	1730	,,	..	..	..	24.1	21.5	20.2	23.8	79	..	4.2	..	0.2	0	0	2	0	0	0	0	1	0	0	1	29	0
Gorkha	0830	,,	..	..	..	21.1	19.7	19.0	22.0	88	..	3.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	24.3	21.2	19.6	22.9	75	..	3.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22.7	20.0	18.4	21.2	79	..	1.8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	,,	..	..	..	23.0	20.9	19.9	23.3	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	24.2	20.7	18.8	21.8	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh	0830	,,	..	..	..	21.4	19.9	19.0	22.2	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	22.5	21.2	20.5	24.3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhura	0830	,,	..	..	..	17.5	13.7	10.9	13.3	66	..	0.6	..	2.1	0	0	23	1	0	10	9	2	0	0	1	8	0
	1130	,,	..	..	..	20.0	15.1	11.7	14.1	60	..	1.2	..	2.8	0	0	29	20	0	1	1	0	0	0	7	2	0
	1730	,,	..	..	..	17.4	14.1	11.9	14.1	71	..	1.2	..	3.9	0	0	29	1	0	0	0	0	4	3	21	2	0
Sallyana (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	,,	..	..	..	26.9	23.0	21.0	25.0	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	27.9	24.7	23.2	28.5	75		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Date included under Nepal (R) Register not received. (c) Mean of 26 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or hight in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Reletive humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories —(*Contd.*)																											
Kosi Catchment																											
Chautara	0830	,,	..	..	..	19.2	17.6	16.7	19.1	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	21.7	18.1	16.2	18.5	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	,,	..	..	..	15.3	13.5	12.1	14.3	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	16.0	14.6	13.9	16.0	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	,,	..	..	..	11.8	9.0	6.5	10.0	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	9.7	8.9	8.3	10.9	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Teplethok	0830	,,	..	..	..	20.8	17.5	15.5	17.7	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	21.1	18.1	16.3	18.6	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	,,	..	..	..	20.1	17.7	16.5	18.9	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	18.1	17.3	16.8	19.1	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Teplejung	0830	,,	..	..	..	18.1	16.0	14.8	16.9	81	..	3.9	..	0.2	0	0	2	1	0	0	0	0	0	0	1	29	0
	1130	,,	..	..	..	21.1	18.1	16.6	18.9	76	..	4.5	..	3.0	0	0	25	4	0	0	0	1	7	5	8	6	0
	1730	,,	..	..	..	18.7	16.2	14.8	16.6	79	..	5.5	..	4.6	0	0	20	1	0	0	1	17	1	0	0	11	0
Okhaldhunga	0830	,,	..	..	..	17.9	16.2	15.2	17.3	85	..	3.2	..	0.4	0	0	4	0	0	2	1	0	0	0	1	27	0
	1130	,,	..	..	..	20.3	17.4	15.8	18.0	76	..	3.5	..	0.8	0	0	8	0	0	0	0	1	1	5	1	23	0
	1730	,,	..	..	..	17.1	16.0	15.4	17.5	89	..	4.6	..	3.1	0	0	21	1	0	1	1	1	2	14	1	10	0
Chainpur	0830	,,	..	..	..	20.2	18.8	18.0	20.7	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	21.5	19.8	18.9	21.8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	,,	..	..	..	22.7	19.7	17.9	20.8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	23.2	19.8	17.7	20.5	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1010.1	993.5	..	24.7	22.7	21.7	26.1	84	..	3.5	..	2.9	0	0	21	1	0	2	3	2	2	2	9	10	0
	1130	,,	1008.3	992.0	..	28.9	24.7	22.7	27.6	69	..	4.5	..	4.3	0	0	26	0	0	1	0	0	17	8	0	5	0
	1730	,,	1006.2	989.7	..	25.9	24.2	23.4	28.8	86	..	4.0	..	1.7	0	0	14	0	1	7	6	0	0	0	0	17	0
Tista catchment																											
Gangtok	0830	1812	1506.0	820.4	..	17.2	15.6	14.6	16.7	85	..	4.8	..	0.6	0	0	8	2	5	0	0	1	0	0	0	23	0
	1130	,,	1493.7	819.6	..	20.5	17.7	16.1	18.4	77	..	4.9	..	2.4	0	0	19	0	0	0	1	7	10	1	0	12	0
	1730	,,	1479.3	817.9	..	18.2	16.3	15.2	17.3	83	..	6.1	..	0.8	0	0	7	0	1	0	3	2	1	0	0	24	0
Gezing	0830	,,	..	..	..	19.9	18.2	17.4	19.9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	19.5	17.8	16.9	19.3	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°03′	88°16′	2115	1st June, 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	28th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944.	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijayawada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radio wind ascents.

@Radiosonde ascents followed by optical theodolite.

†Naval Meteorological Office.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9,—Kartika 9, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	1·5	135	31	1·2	0·7	138	31	1·3	1·1	130	31	1·0	0·9	316	31	2·2	1·0	025	31	1·2	0·8	317
0·15 a.g. .	26	4·1	1·8	134	30	3·8	1·5	166	28	4·1	2·6	151	31	5·3	3·5	353	31	3·5	1·6	034	31	3·2	1·5	313
0·3 a.m.s.l. .	26	4·1	1·7	146	30	4·0	1·7	183	28	4·3	2·7	177	31	5·1	3·5	351	31	3·7	1·8	025	31	3·1	1·4	316
0·6 ,, .	26	4·3	1·6	156	30	3·7	2·2	186	28	4·8	3·1	186	31	4·8	3·3	352	31	3·5	1·8	022	31	3·1	1·7	324
0·9 ,, .	26	4·7	2·1	149	30	3·7	2·8	195	26	3·7	2·2	202	31	4·1	2·5	003	31	3·5	1·9	021	31	2·9	1·6	328
1·5 ,, .	26	4·1	1·9	169	27	4·2	2·4	198	25	3·8	2·4	204	31	3·6	0·8	002	31	3·5	0·3	238	31	3·6	2·4	327
2·1 ,, .	26	4·9	2·6	170	27	5·1	3·1	213	24	4·0	2·5	192	31	4·8	0·7	318	31	4·5	0·8	209	31	4·4	1·5	319
3·0 ,, .	26	6·1	2·8	200	26	5·7	2·8	232	21	4·6	2·5	219	31	5·7	0·1	199	31	5·3	1·3	159	31	6·3	1·2	284
3·6 ,, .	18	5·7	2·0	254	19	5·8	3·3	261	3	2·3	1·6	070	30	6·2	0·8	266	31	6·0	0·7	146	31	6·3	1·6	274
4·5 ,, .	15	6·3	2·8	273	16	5·8	2·9	260	2	2·0	1·1	112	30	5·9	1·1	265	30	5·6	1·7	229	31	6·7	1·5	262
5·4 ,, .	14	6·3	2·5	291	12	4·8	3·0	308	2	1·5	1·1	287	30	6·0	1·7	249	30	5.5	2·3	233	30	6·3	1·6	244
6·0 ,, .	13	5·8	3·3	268	11	4·9	2·9	298	2	4·0	3·9	270	30	5·5	2·0	259	29	5·3	2.4	233	30	5·7	2·3	245
7·2 ,, .	3	4·5	4·0	244	3	5·3	5·1	290					30	6·2	3·3	242	25	5·0	3·0	217	30	5·5	2·7	222
9·0 ,, .	2	8·0	7·9	293	1	3·5	3·5	175					27	7·4	4·9	233	7	7·9	6·7	250	30	6·5	5·1	249

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·5	0·4	294	31	0·1	0·0	270	31	0·7	0·4	326	31	0·5	0·4	313	31	Calm			31	1·0	0·7	318
0·15 a.g. .	31	4·6	2·8	300	31	4·3	2·1	325	31	3·2	1·8	329	31	4·5	3·3	334	31	4·4	2·1	355	31	7·0	6·1	333
0·3 a.m.s.l. .	31	4·3	2·8	304	31	4·3	2·1	325	31	3·4	1·9	332	31	4·5	3·3	334	31	4·7	2·4	340	31	2·7	1.9	332
0·6 ,, .	31	3·9	2·7	328	31	4·7	2·7	350	31	3·5	1·7	329	31	4·7	3·0	332	31	4·6	2·5	339	31	7·3	6·7	328
0·9 ,, .	31	4·0	2·7	342	31	5·2	3·3	345	31	4·3	2·3	333	31	4·9	3·6	325	31	4·8	2·8	331	31	7·5	6·9	323
1·5 ,, .	31	3·9	1·6	360	31	6·4	4·3	332	28	6·0	3·6	330	31	5·1	3·6	312	31	5·9	3·7	325	31	6·5	5·3	314
2·1 ,, .	31	4·5	1·0	025	31	7·4	5·0	322	27	6·5	2·9	334	31	6·1	3·0	332	31	6·4	3·6	325	31	6·2	3·1	299
3·0 ,, .	31	6·0	1·0	090	30	6·8	3·1	331	24	5·8	3·3	317	30	6·2	3·2	325	25	4·7	2·3	339	28	4·3	0·6	257
3·6 ,, .	15	6·2	1·9	013	30	5·7	2·8	310	23	5·3	2·5	311	28	5·6	3·5	311	3	3·0	1·5	275	11	5·1	1·0	275
4·5 ,, .	3	7·5	6·7	075	30	6·1	1·9	283	23	5·3	3·0	284	28	6·2	4·1	300								
5·4 ,, .	1	2·5	2·5	360	29	6·0	4·4	273	22	6·0	4·2	272	28	6·8	5·2	290								
6·0 ,, .	1	5·0	5·0	015	28	6·8	3·2	265	22	6·5	4·9	264	28	7·2	6·1	281								
7·2 ,, .					28	7·7	6·1	256	21	7·2	5·9	258	28	8·1	6·9	267								
9·0 ,, .					28	10·0	8·1	245	18	9·3	7·8	244	27	9·8	8·2	250								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

Octocer, 1964 (Asvina 9,—Kartika 9, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·7	1·4	307	31	2·0	1·9	312	31	1·5	1·5	314	31	1·2	0·6	271	31	3·1	1·5	027	31	2·4	0·2	043
0·15 a.g. .	30	4·3	3·7	324	31	5·7	5·5	308	31	8·9	8·6	328	31	5·0	1·8	256	31	6·0	2·8	009	31	5·8	0·5	060
0·3 a.m.s.l. .	30	2·2	1·6	311	31	2·7	2·6	308	31	3·5	3·3	324												
0·6 ,, .	30	5·5	4·7	321	31	6·8	6·6	311	31	9·0	8·9	327	31	5·4	2·1	251	31	5·6	2·4	007	31	6·2	0·9	041
0·9 ,, .	30	6·4	5·7	322	31	7·2	6·9	313	31	8·2	8·0	325	31	6·0	1·5	287	31	5·1	2·5	354	31	6·5	1·4	015
1·5 ,, .	30	6·7	5·5	321	31	7·0	6·2	314	31	5·7	4·9	314	29	6·1	3·1	009	29	5·7	3·0	358	31	6·2	3·4	004
2·1 ,, .	31	5·6	2·9	311	31	5·8	3·9	306	31	5·7	3·1	300	26	6·5	4·8	019	28	5·6	3·6	006	28	6·2	4·3	013
3·0 ,, .	31	4·7	0·7	283	31	5·2	1·6	289	29	4·9	1·3	257	23	7·5	5·5	026	20	5·6	4·7	023	24	6·1	4·6	026
3·6 ,, .	30	4·9	1·8	247	31	4·0	1·8	289	7	4·0	0·4	203	21	6·8	5·6	047	16	5·2	3·5	046	20	5·7	3·9	046
4·5 ,, .	30	6·5	3·8	249	31	5·8	3·2	277	2	6·0	5·7	235	19	5·3	4·0	073	11	3·9	2·5	076	7	4·9	4·1	056
5·4 ,, .	29	9·0	6·3	265	31	8·5	6·4	271					17	6·0	5.3	083	9	4·6	3·6	085	4	2·7	1·9	058
6·0 ,, .	29	12·1	9·0	263	31	10·8	8·5	273					16	6.3	4·7	083	9	4·9	3·8	100	2	2·7	2·7	072
7·2 ,, .	19	18.2	14.9	257	6	20·5	19·0	266					15	7·0	5·8	081	6	7·3	6·8	094				
9·0 ,, .	4	35.9	35.7	258									14	7.5	6.9	098	3	7·2	6·1	124				

Station	ASANSOL												AURANGABAD/ CHIKALTHAN											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·8	0·2	307	31	0·9	0·4	017	31	0·7	0·2	336	31	0·5	0·5	305	31	3·2	2·6	006	31	1·0	0·6	302
0·15 a.g. .	26	4·9	2·8	341	30	3·7	1·6	020	31	5·3	1·7	349	31	4·8	2·4	016	31	5·2	1·2	152	31	5·9	2·9	028
0·3 a.m.s.l. .	26	5·0	2·8	346	30	4·0	1·7	020	31	5·7	1·6	349												
0·6 ,, .	26	5·3	3·2	356	30	5·0	1·8	012	31	6·3	1·3	355												
0·9 ,, .	26	5·5	3·3	359	30	5·6	1·9	004	31	6·0	1·7	341	31	5·9	3·3	039	31	5·7	4·6	016	31	7·6	4·5	032
1·5 ,, .	25	6·6	3·4	360	30	5·5	1·5	357	29	5·1	1·2	342	30	6·1	4·9	048	31	5·2	4·3	026	31	7·3	5·2	037
2·1 ,, .	24	6·2	2·2	350	27	5·7	1·7	360	27	5·3	1·7	342	28	6·4	5·4	042	22	4·5	3·4	023	22	5·8	4·0	016
3.0 ,, .	23	5·7	1·3	345	25	6·1	2·7	351	25	5·7	1·3	330	24	5·6	3·9	030	11	4·5	3·5	015	21	4·8	2·7	006
3.6 ,, .	20	5·2	1·5	302	22	6·2	3·0	331	21	5·9	1·7	327	3	5·8	1·1	282	10	7·0	5·6	003	10	4·7	2·9	046
4·5 ,, .	18	4·4	1·7	291	17	5·5	3·1	292	13	4·5	2·5	316	1	2·0	2·0	350	8	5·3	3·4	037	1	6·0	6·0	080
5·4 ,, .	13	3·6	1·5	291	14	5·9	2·9	293	8	3·0	1·4	280					8	4·2	2·7	030				
6·0 ,, .	13	3·2	1·6	329	13	5·1	3·3	278	6	2·7	1·1	282					7	5·4	3·0	060				
7·2 ,, .	10	2·7	0·0	315	9	4·8	2·3	259	4	2·6	1·2	190					1	3·0	3·0	360				
9,0 ,, .	5	4·4	3·2	221	2	2·7	2·5	201																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9, —Kartika 9, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I.S.T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·3	292	31	0·7	0·4	280	31	0·7	0·6	285	31	2·2	0·9	258	31	2·2	0·8	280	31	2·6	1·2	342
0·15 a. g. .	31	4·1	2·0	322	31	2·5	0·9	282	30	4·1	3·7	298	15	4·6	0·7	257	28	4·0	1·4	319	30	5·0	3·0	343
0·3 a.m.s.l. .	31	4.1	2.0	310	31	2·5	0·8	285	30	4·1	3·4	295												
0·6 ,, .	31	5·0	2·7	310	31	3·4	1·5	296	30	4·4	3·7	299												
0·9 ,, .	31	5·3	3·0	307	31	4·4	2·2	302	30	4·8	4·0	301												
1·5 ,, .	31	6·1	3·4	310	27	5·9	2·4	322	30	5·5	4·1	304	15	5·6	1·9	001	29	4·2	1·9	337	30	5·5	3·0	343
2·1 ,, .	31	6·7	3·0	317	24	6·4	2·1	332	30	5·9	2·6	305	15	5·3	3·3	006	24	4·9	2·2	360	28	5·3	3·1	354
3·0 ,, .	31	5·6	2·2	301	22	6·0	1·5	284	30	5·9	2·6	324	13	4·1	2·9	035	14	4·8	1·5	040	27	4·6	2·6	358
3·6 ,, .	31	4·7	1·8	310	22	1·3	3·1	298	29	5·7	3·6	318	12	4·1	2·6	076	12	3·5	1·3	074	27	4·2	1·6	017
4·5 ,, .	27	6·4	3·8	293	19	7·1	6·2	280	28	6·6	5·1	285	10	5·9	5·5	085	5	2·9	2·0	073	24	4·2	2·1	067
5·4 ,, .	27	7·7	5·7	273	19	8·7	8·2	273	27	8·2	7·4	279	10	6·6	4·6	092	3	4·7	2·8	056	23	5·0	3·2	085
6·0 ,, .	26	8·7	7·6	266	19	9·3	8·9	266	27	9·2	8·3	279	9	7·4	7·1	093	1	3·5	3·5	245	23	5·5	3·8	078
7·2 ,, .	19	6·6	5·3	260	19	12·6	12·0	263	22	11·0	9·0	260	8	7·6	7·2	102	1	4·0	4·0	260	23	5·1	3·6	080
9.0 ,, .	10	11·3	7·8	251	15	17·5	17·0	249	11	14·7	10·7	248	5	8·0	7·4	119					14	6·5	5·9	111

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·5	0·5	274	31	0·6	0·4	280	31	0·7	0·7	272	31	0·8	0·3	336	31	2·2	1·3	011	31	1·0	0·5	057
0·15 a.g. .	30	6·0	0·5	343	31	4·6	3·6	318	30	3·5	2·5	302	29	4·2	1·0	027	30	4·8	3·4	038	31	5·5	4·1	060
0·3 a.m.s.l. .					31	4·4	3·6	316	30	3·5	3·1	294												
0·6 ,, .					31	6.1	4·9	320	30	4·7	4·5	296	29	3·0	0·7	005	30	4·6	3·2	036	31	3·8	2·6	066
0·9 ,, .					31	6·6	5.6	313	31	5·2	5·0	297	29	4·9	2·6	017	30	4·9	3·5	036	31	5·7	4·6	055
1·5 ,, .	30	7·0	2·4	348	31	7·1	4·9	311	31	6·1	5·2	303	28	5·9	4·8	030	30	4·7	3·7	027	31	5·8	4·7	040
2·1 ,, .	28	6·1	3·6	360	31	7·4	4·1	310	31	6·4	4·1	303	28	6·6	5·4	032	30	5·1	4·1	023	31	6·7	5·2	029
3·0 ,, .	21	5·0	2·8	343	28	5·7	0·5	248	31	5·3	2·5	296	28	6·6	5·1	034	26	6·2	4·6	041	25	6·6	4·8	032
3·6 ,, .	21	4·0	2·4	003	27	5·4	1·6	302	31	5·6	2·7	314	25	5·6	3·6	037	22	5·5	3·7	031	10	6·6	4·9	019
4·5 ,, .	17	4·3	2·9	059	23	5·6	2·6	292	30	7·1	4·0	300	17	5·5	4·3	062	17	5·0	2·9	037	1	4·5	4·5	090
5·4 ,, .	9	5·4	4·7	090	23	7·5	4·8	273	28	5·9	7·1	284	12	6·6	5·7	083	14	5·7	3·2	039				
6·0 ,, .	8	4·8	3·0	116	23	8·8	6·0	271	26	9·7	7·8	274	10	6·3	5·5	082	13	5·9	3·4	041				
7·2 ,, .	4	5·6	4·1	103	16	12·0	9·1	264	20	13·8	11·9	268	5	9.1	7·9	082	11	7·7	6·6	069				
9·0 ,, .	1	1·0	1·0	110	7	16·1	13·1	256	10	17·9	13·9	263	2	6·0	5·9	129	3	8·7	7·7	090				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I.S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·3	080	31	1·5	0·2	331	31	0·8	0·5	068	31	1·8	1·5	004	31	1·3	1·1	022	31	2·1	0·7	290
0·15 a.g.	29	3·7	0·7	100	29	4·2	0·5	270	31	4·5	2·5	073	31	4·8	4·2	360	31	6·5	5·5	042	30	3·9	2·0	276
0·3 a.m.s.l.	29	3·7	1·0	081	29	4·2	0·4	291													30	5·0	1·6	277
0·6 ,,	28	4·2	1·3	068	29	4·4	0.5	295	31	3·9	2·1	072	31	4·3	3·7	358	31	5·8	4·7	039	30	5·6	1·1	280
0·9 ,,	28	4·4	1·5	055	29	4·3	0·2	245	31	4·9	3·3	055	31	5·3	4·7	360	31	6·7	5·6	041	29	5·8	1·0	330
1·5 ,,	27	4·9	1·8	033	29	4·7	0·9	121	31	4·5	3·2	020	31	5·0	4·1	008	31	5·2	4·1	024	27	6·1	1·2	357
2·1 ,,	25	5.2	2·4	071	25	4·6	0·6	057	31	5·3	4·0	003	31	4·7	3·4	006	31	4·9	3·1	006	24	5·1	1·3	010
3·0 ,,	21	4·5	0·9	069	18	5·1	0·7	310	30	5·6	3·0	349	29	5·4	3·0	347	30	5·7	2·3	337	22	4·3	0·7	205
3·6 ,,	16	5·0	1·9	280	11	5·9	1·9	291	28	4·5	1·8	345	27	5·8	3.7	329	14	6·0	4·1	277	20	4·0	0·6	117
4·5 ,,	14	5·4	3·7	280	4	6·7	3·9	277	27	5·5	0·9	288	22	5·9	2·7	310					18	4·2	2·0	112
5·4 ,,	10	5·1	3·4	288	4	5·0	3·5	291	25	4·8	0·6	251	13	3·9	1·1	317					14	4·4	2·7	085
6·0 ,,	7	6·4	5·6	291	3	5·0	4·4	277	24	4·7	1·0	235	13	4·0	1.4	336					13	4·1	2·7	095
7·2 ,,	5	4·6	3·2	244					16	5·0	3·2	221	9	5·2	1·9	258					10	4·4	2·7	085
9·0 ,,	1	5·0	5·0	170					5	9·4	8·9	226	3	6·7	6·3	225					4	6·0	2·5	102

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	0·8	170	31	2·0	0·9	203	31	1·4	1·2	301	31	2·2	1·2	286	31	2·4	2·0	289	31	0·4	0·4	253
0·15 a.g.	30	5·0	2·2	190	31	4·4	2·4	200	31	4·8	3·7	314	31	4·4	2·1	279	31	6·3	4·3	287	31	5·8	0·9	207
0·3 a.m.s.l.	30	4·6	1.6	191	31	5·5	2·8	201	31	6·1	4·0	321	31	4·6	2·1	275	31	7·2	5·1	304	31	5·0	1·0	093
0·6 ,,	30	4·6	1·0	291	31	5·5	1·6	203	31	6·1	3·0	321	31	4·0	1·6	289	31	6·1	3·7	315	31	6·1	0·8	264
0·9 ,,	30	4·8	0·8	287	31	5·2	0·6	317	31	4·6	1·6	321	31	3·5	1·2	295	31	4·9	2·0	323	31	4·9	1·7	271
1·5 ,,	29	5·8	2·0	350	29	4·9	2·6	003	31	4·8	1·5	188	31	3·1	1·1	306	31	5·0	0·7	080	31	4·7	2·7	282
2·1 ,,	27	5·6	1·9	357	28	4·4	2·0	020	31	5·9	2·8	185	31	4·4	1·4	307	31	6·2	1·8	132	31	5·1	2·9	275
3·0 ,,	19	5·7	2·0	016	23	4·2	1·5	010	31	6·2	2·2	178	30	6·1	2·2	224	31	6·8	1·8	178	31	5·9	2·7	275
3·6 ,,	16	4·2	2·2	045	5	4·3	2·6	065	31	7·0	1·7	184	29	6·1	1·9	218	10	6·0	2·2	221	31	6·5	2·3	274
4·5 ,,	14	6·5	2·0	060	1	6·0	6·0	025	31	7·0	1·2	235	29	7·1	1·3	256	1	5·0	5·0	360	29	8·7	3·5	258
5·4 ,,	14	5·1	3·6	038	1	8·5	8·5	010	31	7·1	1·9	219	27	7·4	2·4	253					28	11·6	6·2	265
6·0 ,,	11	4·8	3·6	080					31	6·8	1·9	238	27	7·9	3·2	241					28	12·6	7·8	268
7·2 ,,	5	5·3	4·4	082					25	7·2	3·2	233	13	7·8	5·0	251					20	14·3	10·5	260
9·0 ,,									8	6·4	2·6	270									4	13·0	10·7	255

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I. S. T.	*1730				2330				*0530				1130				*1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·2	255	31	0·3	0·1	225	31	0·3	0·3	074	31	0·9	0·5	298	31	3·6	3·2	304	31	0·9	0·6	329
0·15 a.g. .	31	3·1	1·4	300	31	4·6	1·6	023	31	3·4	2·5	351	31	2·9	1·0	322	31	5·0	4·5	301	31	4·2	3·2	332
0·3 a.m.s.l. .	31	2·8	1·2	315	31	4·3	0·7	011	31	3·5	2·5	357	31	2·9	0·7	010	31	4·4	4·0	305	31	4·5	3·4	340
0·6 ,, .	31	3·6	1·9	302	31	4·3	1·2	354	31	3·7	2·5	001	31	3·3	1·6	043	31	3·8	3·0	320	31	4·5	3·5	357
0·9 ,, .	31	4·0	1·9	299	31	4·4	1·1	322	31	3·9	3·2	013	30	4·0	2·7	063	31	3·0	2·0	350	31	4·5	3·6	007
1·5 ,, .	31	4·1	2·2	289	31	3·7	1·9	278	31	4·5	3·5	033	27	4·4	3·0	076	31	3·5	2·0	049	29	4·4	3·5	022
2·1 ,, .	31	4·2	2·5	278	30	3·8	2·7	266	31	4·7	3·4	054	24	3·7	2·2	083	31	4·4	2·5	052	28	5·8	3·9	065
3·0 ,, .	29	5·1	3·4	270	29	4·9	2·7	278	31	4·1	1·8	065	22	4·7	2·4	076	31	4·6	2·3	054	27	5·2	3·7	083
3·6 ,, .	28	6·8	4·2	274	3	7·0	4·0	308	31	4·4	1·4	050	21	4·3	2·6	073	31	4·2	2·0	055	20	4·3	3·1	088
4·5 ,, .	26	9·6	5·6	275					31	4·4	1·8	088	20	4·5	3·7	093	30	4·1	1·9	079	14	4·1	2·4	113
5·4 ,, .	26	10·8	6·9	272					31	3·8	1·9	099	19	4·6	4·1	096	30	3·9	2·3	095	8	3·9	2·9	115
6·0 ,, .	26	12·3	8·2	268					31	3·9	2·3	094	19	4·7	4·4	099	30	4·0	2·4	106	7	4·4	3·7	114
7·2 ,, .	13	16.9	12.0	270					30	3·8	2·0	083	19	4·6	3·8	113	30	4·2	3·3	098	1	3·0	3·0	150
9·0 ,, .									27	4·4	3·1	111	14	4·8	3·5	117	28	4·7	3·3	094				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·6	0·2	327	31	1·7	0·1	175	31	0·6	0·1	204	31	0·7	0·3	191	31	1·1	0·6	009	31	3·6	3·1	286
0·15 a.g. . .	31	4·5	0·9	308	30	4·6	0·2	359	31	4·1	0·8	261	29	4·8	1·3	222	30	3·5	2·0	354	29	5·8	5·1	284
0·3 a.m.s.l. .	31	5·0	1·0	305	30	5·1	0·2	179	31	4·2	0·9	273	29	5·3	1·3	220	30	4·0	3·1	325	29	6·7	5·9	289
0·6 ,, .	31	5·9	1·0	315	30	5·3	0·2	020	31	4·4	0·7	288	27	5·7	1·0	226	30	4·9	4·3	308	29	6·9	6·2	292
0·9 ,, .	31	5·9	0·6	338	26	5·7	0·3	062	31	4·4	0·8	283	26	5·3	0·9	249	29	5·0	4·5	305	29	6·5	5·7	296
1·5 ,, .	31	5·1	0·4	352	20	5·5	1·3	189	31	4·5	1·0	286	24	5·0	1·3	252	29	5·3	3·6	305	27	4·6	3·6	307
2·1 ,, .	31	5·0	0·8	168	16	5·9	2·4	150	31	5·4	1·6	286	22	4·6	0·7	218	26	6·6	3·1	313	24	5·1	2·7	319
3·0 ,, .	31	5·6	1·6	215	10	7·3	1·5	109	30	6·4	1·9	273	13	4·7	2·0	219	17	6·5	3·7	323	15	4·8	1·9	113
3·6 ,, .	29	5·6	1·6	257	6	5·4	1·3	015	29	6·0	1·7	273	10	4·5	1·6	236	13	3·7	2·3	020	8	3·6	0·6	296
4·5 ,, .	29	5·9	2·3	247	1	1·5	1·5	110	29	5·4	2·2	280	3	3·7	3·1	258	6	5·1	3·7	052	6	2·7	0·4	237
5·4 ,, .	29	4·9	1·3	268	1	2·5	2·5	135	29	5·3	1·8	297					3	4·2	3·9	074	3	2·7	1·6	165
6·0 ,, .	29	5·2	1·1	267	1	1·5	1·5	110	29	5·7	1·8	293					1	4·5	4·5	020	3	6·5	4·6	147
7·2 ,, .	29	4·1	0·7	223	1	2·5	2·5	120	29	4·9	0·8	271												
9·0 ,, .	29	4·9	1·2	150					29	5·0	1·2	165												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRADUN								DIBRUGARH/MOHANBARI											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·5	283	31	0·5	0·5	025	31	0·5	0·4	260	31	0·6	0·6	052	31	0·4	0·2	085	31	0·3	2·6	051
0·15 a. g.	24	3·3	1·1	275	31	1·1	0·8	055	31	2·6	2·3	272	26	3·4	2·8	053	29	1·5	0.5	062	29	2·1	1·0	089
0·3 a.m.s.l.	24	3·5	2·4	283									26	3·5	2·9	054	29	1·5	0·4	075	29	2·1	1.0	091
0·6 ,,	23	5·1	4·6	295									26	2·9	2·0	046	29	2·0	0·7	079	29	1·9	0·9	066
0·9 ,,	23	5·4	4·7	298	31	1·1	0·4	064	31	2·8	2·3	270	26	2·8	1·0	057	27	2·4	1·1	070	29	2·5	0·5	100
1·5 ,,	21	5·5	3·9	302	31	2·0	0·1	065	31	2·2	1·6	290	24	2·8	0·7	125	23	3·4	0·9	120	28	3·2	1·2	244
2·1 ,,	16	6·8	4·3	315	31	3·3	0·3	010	31	2·6	1·2	270	20	2·9	1·1	171	21	3·6	1·6	148	27	3·4	2·4	204
3·0 ,,	5	9·4	6·8	321	29	3·4	0·8	092	31	4·2	0·5	199	18	3·5	1·5	172	17	3·9	2·3	184	25	3·6	2·6	238
3·6 ,,	3	4·0	3·6	021	24	3·5	0·7	243	31	4·8	0·6	095	14	4·0	2·0	163	7	4·3	2·8	180	14	4·5	2·8	197
4·5 ,,					13	5·1	2·6	280	26	4·8	1.5	279	9	5·6	1·4	246	3	4·5	0·3	235	8	4·9	2·3	235
5·4 ,,					8	6·3	3.3	268	25	7·9	5·5	270	5	5·3	2·3	262	2	6·5	1·5	283	6	5·1	4·6	253
6·0 ,,					5	9·6	3·6	302	21	9·0	6·9	264	2	7·5	6·3	250	2	6.5	2·5	204	4	4·8	4·2	252
7·2 ,,					3	11.0	8·4	270	12	13.5	10.8	267	2	6·7	5·7	270					2	4·5	4·5	233
9·0 ,,					2	6·3	6·3	303	1	10·5	10·5	030												

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·3	055	31	2·8	1·2	262	31	3·5	0·3	336	31	3·5	2·5	250	31	0·3	0·3	009	31	0·4	0·2	117
0·15 a. g.	26	2·5	1·6	030	29	5·4	2·1	277	31	5·6	1·4	318	30	6·4	3·9	261	10	1·4	1·3	355	7	2·0	1·2	172
0·3 a.m.s.l.	26	2.2	1.3	030																				
0·6 ,,	26	2.2	0·9	065																				
0·9 ,,	26	2·3	0·7	102	29	6·0	2·2	319	31	5·9	1·5	325	30	6·7	3·2	282								
1·5 ,,	26	3·0	1·4	207	27	6·2	4·1	032	30	5·1	2·3	023	27	5·3	3·0	029								
2·1 ,,	23	3·2	1·9	209	25	6·0	5·0	054	29	5·0	3·3	028	27	6·6	5·5	036	10	0.8	0·5	335	7	1·9	1·1	184
3·0 ,,	22	3·7	3·1	215	22	6·7	6·0	052	27	6·0	4·7	0.0	26	6·6	5·8	045	10	1·2	0·3	188	7	1·3	0·8	246
3·6 ,,	12	4·6	2·8	208	22	6·4	5·4	050	26	5·6	4·1	048	21	6·0	5·0	066	9	1·6	0·5	118	5	0·8	0·7	247
4·5 ,,					20	5·5	3·9	064	22	6·3	4·9	068	11	5·1	4·0	100	8	2·2	0·7	115	3	1·3	1·2	246
5·4 ,,					20	6·0	3·9	069	19	6·0	5·3	081	6	4·8	3·1	085	8	6·4	3.3	270	2	1·7	1·5	305
6·0 ,,					18	6·2	4·1	074	17	6·1	5·4	092	5	5·6	4·9	108	6	8.5	5·4	265	1	3·0	3·0	300
7·2 ,,					14	6·5	4·9	086	11	7·3	6·4	092	3	6·8	6·2	116	5	9·9	9.2	258	1	9·5	9·5	240
9·0 ,,					12	7·0	6·0	093	10	6·7	6·6	096	1	12·0	12.0	215	5	14·2	13.4	254				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9,—Kartika 9, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·7	062	31	1·3	1·1	033	31	0·6	0·4	042	31	0·7	0·3	153	31	0·6	0·2	082	31	1·1	0·6	011
0·15 a.g. .	31	2·5	1·6	071	28	2·6	1·8	032	31	2·9	1·1	057	29	2·2	1·0	194	29	4·0	0·7	275	31	3·8	2·1	350
0·3 a.m.s.l. .	31	2·7	1·6	072	28	2·5	1·5	046	31	3·1	1·0	075	29	2·4	6·6	233	29	4·1	0·7	305	31	3·9	2·2	354
0·6 ,, .	31	3·5	1·8	088	28	3·3	1·7	080	31	3·7	1·6	066	29	3·5	0·5	282	29	4·7	2·0	355	31	4·6	2·2	351
0·9 ,, .	31	4·0	1·7	098	28	4·0	1·7	108	31	3·9	1·0	098	29	4·1	1·1	262	29	5·3	2·9	357	30	4·8	2·1	340
1·5 ,, .	31	4·7	1·2	117	25	4·3	1·4	160	31	4·4	1·2	211	27	4·1	1·5	233	28	6·9	3·5	344	29	5·9	3·0	333
2·1 ,, .	31	4·6	0·9	161	21	4·8	1·5	169	31	4·6	1·9	202	26	4·5	1·6	229	26	6·4	3·0	342	29	6·9	3·3	335
3·0 ,, .	31	4·8	0·7	154	14	5·0	1·7	142	31	4·6	1·4	216	24	5·2	1·2	219	24	6·0	3·3	336	29	6·1	2·9	338
3·6 ,, .	31	4·5	0·9	196	14	4·5	0·6	200	31	5·1	0·9	250	12	5·1	1·9	087	20	5·0	3·3	312	28	5·9	3·3	316
4·5 ,, .	31	5·8	3·2	245	10	4·7	2·2	267	31	5·7	2·6	271	1	4·5	4·5	270	19	5·0	3·5	292	24	5·5	3·8	308
5·4 ,, .	30	7·4	4·9	260	7	6·4	5·3	280	31	6·3	4·1	268					18	5·4	3·9	295	20	5·0	3·6	301
6·0 ,, .	29	7·7	6·3	264	7	6·7	5·6	270	31	6·6	4·9	271					18	5·3	3·9	297	20	5·2	3·1	292
7·2 ,, .	29	7·1	5·3	266	4	7·4	6·2	276	30	6·6	5·9	257					9	6·7	5·8	286	14	4·8	4·0	268
9·0 ,, .	24	7·4	6·2	256	1	4·0	4·0	325	27	8·6	7·5	255					3	6·8	6·6	270	4	6·7	5·6	257

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0.2	192	31	1·4	0·9	262	31	3·0	1·9	196	31	2·0	1·6	215	31	0·7	0·2	357	31	0·8	0·5	287
0·15 a. g. .	30	4·2	0·9	284	28	4·8	2·5	279	29	5·4	2·3	180	30	4·7	3·1	208	31	4·6	1·0	333	31	4·1	2·5	297
0·3 a.m.s.l. .	30	4·5	1·0	302	28	4·9	1·6	256	29	4·9	2·1	144	30	4·6	2·7	210	31	4·7	0·7	343	31	4·2	2·5	294
0·6 ,, .	29	5·6	1·9	334	28	5·0	1·3	280	29	4·5	0·4	192	30	4·2	1·1	218	30	4·8	1·7	314	31	4·6	2·6	288
0·9 ,, .	28	6·3	3·5	326	28	5·1	1·4	338	29	4·2	1·0	344	30	4·5	0·9	345	30	5·2	2·2	323	31	4·6	2·7	290
1·5 ,, .	28	6·8	4·0	331	28	5·6	1·8	005	28	5·4	2·6	359	29	5·2	2·6	010	30	5·4	2·3	334	29	4·7	2·3	308
2·1 ,, .	25	6·3	3·1	353	28	5·3	1·7	027	28	6·3	3·1	360	25	3·7	2·8	038	29	5·7	1·9	334	29	5·9	2·4	321
3·0 ,, .	19	6·0	3·1	345	24	4·1	0·8	037	28	5·7	1·8	001	21	3·5	1·3	043	26	6·6	2·1	323	29	5·6	2·5	331
3·6 ,, .	5	4·3	1.9	360	22	3·8	0·5	017	28	4·9	0·9	028					20	6·6	2·7	302	25	6·3	3·8	319
4·5 ,, .					20	4·1	1·6	083	26	5·6	1·8	079					11	5·4	2·9	301	23	6·5	4·5	308
5·4 ,, .					18	4·7	3·2	075	25	5·9	2·4	081					8	7·1	5·4	281	19	8·1	7·6	295
6.0 ,, .					18	5·4	3·8	084	24	6·6	2·7	081					6	6·3	5·3	260	17	8·9	8·4	287
7·2 ,, .					10	5·9	4·4	095	17	6·0	4·6	077					3	7·5	6·6	252	8	8·4	7·9	270
9.0 ,, .					4	8·3	7·1	075	12	7·3	5·3	106					2	10·3	10·1	270	1	13·0	13·0	260

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I. S. T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·3	303	31	1·2	0·7	340	31	1·3	1·1	339	31	0·3	0·2	245	31	0·4	0·3	108	31	1·1	0·2	169
0·15 a. g. .	31	3·2	1·9	338	31	2·2	1·5	340	31	3·4	3·1	347	31	3·3	1·8	030	20	1·8	1·3	058	29	1·8	0·7	158
0·3 a.m.s.l. .	31	2·9	1·8	308	31	2·2	1·5	340	31	3·3	3·0	347	31	2·7	1·1	038								
0·6 ,, .	31	4·1	2·8	357	31	3·0	2·1	340	31	4·3	3·9	345	31	3·6	2·1	006								
0·9 ,, .	31	4·3	3·1	350	31	3·8	2·9	340	31	4·7	4·1	337	31	3·9	2·8	341	20	1·7	1·3	051	29	1·7	0·6	167
1·5 ,, .	31	5·5	4·3	334	31	5·7	3·8	330	31	5·2	4·5	324	31	5·4	4·2	325	20	3·0	1·1	072	28	2·8	1·1	170
2·1 ,, .	31	6·1	4·3	326	31	5·9	3·6	320	31	5·8	4·3	315	31	5·6	3·6	320	17	4·7	1·9	173	23	3·9	1·4	191
3·0 ,, .	31	6·2	3·1	305	31	5·7	2·6	295	31	6·1	4·2	310	30	5·4	3·3	310	7	5·7	3·9	221	15	4·4	2·4	223
3·6 ,, .	31	5·9	3·4	291	31	5·9	2·7	280	30	6·4	4·5	295	6	4·4	2·2	270	5	6·0	4·4	229	12	6·5	3·4	249
4·5 ,, .	27	6·1	3·6	293	29	6·6	4·4	270	29	6·9	5·1	285	2	2·5	2·3	285	2	3·5	3·1	233	7	8·1	6·5	286
5·4 ,, .	25	6·4	3·4	276	29	7·5	5·7	262	28	7·8	6·0	270									3	9·0	7·4	284
6·0 ,, .	25	7·6	5·2	264	28	8·5	6·7	258	27	8·0	6·3	266									1	6·5	6·5	150
7·2 ,, .	19	9·5	7·7	258	24	11·0	9·7	265	25	9·1	7·7	265												
9·0 ,, .	8	9·4	7·3	245	13	11·5	10·7	250	17	9·8	7·3	256												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·7	0·7	262	15	1·5	0·5	330	31	0·6	0·1	148	31	1·1	1·0	003	31	0·2	0·1	066	31	0·2	0·1	205
0·15 a. g. .	28	3·3	1·6	264	12	4·3	1·3	360	31	2·9	1·2	052	31	4·2	4·0	002	31	4·1	3·2	040	24	3·3	1·2	012
0·3 a. m. s. l. .																								
0·6 ,, .									31	3·5	1·6	032	31	4·3	4·0	004	31	4·4	3·6	036	24	1·6	0·5	020
0·9 ,, .	28	3·2	1·5	270	12	4·4	1·6	005	31	4·6	3·6	024	31	4·7	4·6	005	31	4·8	4·3	030	24	4·5	2·0	029
1·5 ,, .	28	3·6	1·1	218	12	5·9	1·4	231	31	5·2	4·4	012	31	4·8	4·3	360	31	4·6	4·0	012	20	6·3	3·1	062
2·1 ,, .	27	3·9	1·5	208	12	8·1	4·3	213	31	5·5	4·2	355	30	5·3	4·0	350	31	5·4	3·8	350	17	6·9	5·1	032
3·0 ,, .	20	3·9	1·7	241	5	12·6	7·3	182	30	5·3	2·9	349	26	5·0	3·8	336	28	4·5	3·2	339	15	5·3	3·7	034
3·6 ,, .	16	5·8	3·5	249	4	9·4	3·5	216	25	4·7	2·2	355	23	4·3	3·2	320	12	4·2	3·3	334	12	4·5	3·9	058
4·5 ,, .	8	7·4	6·6	274	1	5·5	5·5	245	23	4·3	0·5	342	21	4·1	2·3	300	4	2·3	1·1	180	10	4·7	4·5	068
5·4 ,, .	3	4·0	0·8	315					23	4·0	0·7	327	18	4·1	2·0	270	2	2·7	2·7	195	8	5.0	4.1	090
6·0 ,, .	2	3·7	3·7	175					22	3·0	0·6	263	16	3.9	2.1	250	2	2·5	1·9	218	8	5.9	5.3	094
7·2 ,, .									17	4·1	3·0	205	11	4.3	3.6	242					8	7.6	7.0	100
9.0 ,, .									6	7·0	4·8	224	3	5.0	4.4	249					5	8.7	8.2	098

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·2	017	31	0·2	0·1	255	31	0·7	0·5	360	31	1·1	0·9	318	31	0·6	0·5	018	31	0·9	0·5	308
0·15 a.g.	29	4·2	2·3	016	28	4·8	2·4	046	31	4·9	2·5	360	31	4·3	3·4	324	31	5·4	3·5	010	30	3·6	2·3	316
0·3 a.m.s.l.																					30	3·6	2·1	322
																					30	5·0	2·8	346
0·6 ,,	29	2·9	1·7	016	28	3·4	1·4	043	31	5·1	2·5	358	31	4·4	3·7	325	31	5·5	3·5	007	30	6·0	3·5	353
0·9 ,,	29	4·8	3·1	017	28	5·2	3·1	043	31	5·0	2·4	355	31	4·7	4·0	326	31	5·1	3·1	358	27	7·0	3·5	350
1·5 ,,	29	4·9	3·3	019	28	5·4	3·4	036	31	5·1	3·5	338	31	4·3	3·8	329	31	4·5	3·1	328				
2·1 ,,	24	6·8	4·6	032	28	5·8	3·4	030	31	5·7	4·2	333	31	4·5	3·6	333	31	4·7	3·2	322	24	6·7	2·6	340
																					20	6·5	2·1	355
3·0 ,,	20	5·8	3·7	046	23	4·9	2·8	012	31	5·6	3·5	320	30	5·3	3·7	324	26	5·7	3·5	311	17	4·9	0·6	356
3·6 ,,	19	4·6	2·6	058	10	3·7	1·8	062	31	6·3	2·8	305	28	6·7	4·3	304	12	5·1	2·4	312	12	4·7	0·3	309
4·5 ,,	15	5·2	2·5	083	1	3·0	3·0	270	30	7·9	4·0	290	27	8·6	5·1	289								
5·4 ,,	12	5·3	3·8	075	1	0·5	0·5	270	29	8·9	4·4	265	24	10·7	5·9	278					8	4·1	1·7	337
																					6	3·2	1·2	319
6·0 ,,	11	5·5	4·4	084					27	9·4	5·8	258	22	9·5	6·6	278					2	2·3	1·2	329
7·2 ,,	9	6·4	5.2	092					18	10·6	8·4	255	12	12·0	10·3	259								
9·0 ,,	6	7·7	7·1	120					4	10·0	5·2	275	1	21·5	21·5	240								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·7	043	31	1·4	0·7	030	31	1·1	0·5	280	31	1·4	0·8	005	31	1·1	0·7	025	31	1·2	0·2	066
0·15 a.g.	29	3·3	1·7	021	30	3·7	2·4	033	31	3·3	1·0	318	31	4·1	1·2	016	30	5·9	2·8	357	31	2·9	0·4	357
0·3 a.m.s.l.	29	3·4	1·7	021	30	3·3	2·0	031	31	3·0	1·0	299	31	3·5	1·3	013	30	6·0	2·9	356	31	2 6	0·5	334
0·6 ,,	29	3·6	1·8	354	30	5·1	3·2	039	31	3·6	1·0	335	31	4·3	1·4	008	30	5·5	2·0	193	31	3·1	0 3	098
0·9 ,,	29	4·6	2·3	339	30	5·4	3·3	042	31	3·8	1·2	357	31	4·2	1·5	019	30	4·7	1·5	315	31	3·1	0·1	249
1·5 ,,	28	5·4	3·0	337	30	6·4	4·1	036	31	5·6	3·2	017	31	4·6	2·3	027	30	3·8	0·9	250	31	3·4	0 6	272
2·1 ,,	25	5·9	3·1	332	26	5·9	4·6	011	29	6·4	4·9	022	31	5·9	2·3	011	30	5·3	2·5	222	31	4·7	1·2	236
3·0 ,,	15	6·0	3·1	338	24	5·3	3·2	011	26	5·7	3·8	014	27	5·6	2·7	026	30	5·3	1·8	250	31	5·9	1·9	229
3·6 ,,	11	5·6	2·6	312	21	4·3	2·2	015	21	4·7	2·4	005	4	3·7	0·3	013	27	6·2	1·3	290	31	7·1	2·5	243
4·5 ,,	10	4·6	2·7	309	19	4·1	1·6	078	18	3·5	1·8	004					27	8·5	2·3	273	31	7·3	4·2	238
5·4 ,,	5	4·7	2·6	349	19	3·6	1·7	067	18	3·6	1·3	005					27	9·8	4·2	260	31	9·3	5·4	251
6·0 ,,	2	2·0	1·7	360	17	3·1	1·0	073	16	3·4	1·3	020					26	10·2	6 0	267	29	10·1	6·9	251
7·2 ,,					14	3·6	1·6	079	12	3·8	2·1	055					26	11·9	9·4	255	29	11·8	9·2	253
9·0 ,,					4	6·5	3·2	096	4	2·9	0·4	214					25	13·3	10·7	250	23	14·0	11·2	249

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·3	320	31	1·9	0·7	008	31	0·4	0·4	262	31	1·8	0·9	311	31	0·6	0·5	284	31	2·0	1·1	238
0·15 a.g.	31	4·0	2·0	350	31	7·0	1·9	006	31	4·1	2·8	326	31	4·7	2·7	323	31	4·0	3·5	320	31	4·5	2·3	250
0·3 a.m.s.l.	31	4·0	2·0	350	31	6·1	1·3	360	31	4·3	3·0	329	31	4·8	2·6	321	31	4·8	3·5	321	31	4·7	2·5	250
0·6 ,,	31	3·4	1·3	337	31	6·7	1·9	004	31	4·7	3·2	321	31	5·2	3·7	315	31	5·2	3·7	320	31	4·7	2·0	251
0·9 ,,	31	3·2	1·1	330	31	5·5	1·8	336	31	5·1	3·4	320	31	5·3	3·9	312	31	5·4	3·8	313	31	4·4	1·6	273
1·5 ,,	31	3·5	1·5	310	31	4·5	1·0	295	30	7·0	4·4	314	30	6·0	4·1	316	31	5·8	3·9	313	31	4·7	2·6	338
2·1 ,,	31	3·9	1·6	283	31	4·3	0·9	228	30	6·9	3·8	316	30	6·5	4·1	313	29	5·9	2·9	317	31	5·6	3·0	347
3·0 ,,	31	5·8	2·5	262	31	5·4	1·9	233	28	5·9	2·9	312	30	6·6	4·4	315	23	4·0	0·4	245	31	5·7	2·4	172
3·6 ,,	31	7·1	4·0	255	9	6·6	4·4	190	28	5·8	3·1	302	28	6·5	5·2	304	6	3·7	0·2	079	31	4·9	1·6	034
4·5 ,,	31	7·7	4·1	263	3	5·8	2·2	184	26	6·3	4·2	289	26	7·6	7.0	287	1	4·0	4·0	090	31	5·0	2·9	080
5·4 ,,	31	9·9	5·3	255	1	11·5	11·5	075	23	7·0	5·1	277	25	7.9	7.0	283					31	6·3	4·9	089
6·0 ,,	31	11·1	6·1	247					22	8·2	6·3	266	24	9.1	8.3	277					31	6·4	5·1	087
7·2 ,,	31	12·7	9·0	255					21	10·4	8·3	262	20	11.7	10.8	263					31	6·6	5·5	097
9·0 ,,	27	14·1	13.0	243					15	13.3	11.5	257	12	15.5	15·1	250					29	7·4	7·2	105

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	1·0	277	31	3·4	1·8	102	31	1·8	1·2	176	31	1·1	0·3	031	31	3·4	2·9	279	31	1·2	0·5	335
0·15 a. g.	30	3·7	1·7	271	31	5·1	3·6	107	29	4·6	2·9	157	30	4·7	1·3	001	31	6·2	5·5	284	30	4·6	2·8	328
0·3 a. m. s. l.	30	3·7	1·8	270	31	4·8	3·1	108	29	4·7	2·9	154	30	5·1	1·9	338	31	6·3	5·6	288	30	4·9	3·3	325
0·6 ,,	29	4·0	2·3	275	31	3·8	1·5	100	29	4·2	1·8	145	30	5·5	3·2	318	31	6·0	5·1	296	30	5·8	4·8	320
0·9 ,,	28	4·4	2·6	292	31	4·0	1·0	350	29	3·7	0·3	092	29	5·1	2·9	326	30	4·9	3·9	301	30	5·1	4·3	317
1·5 ,,	26	5·1	3·2	320	31	5·6	3·6	336	29	4·2	2·6	338	27	4·9	2·3	018	25	4·2	2·5	349	25	4·4	2·5	348
2·1 ,,	25	5·8	3·5	325	31	6·9	4·6	326	27	5·4	3·4	333	25	6·1	4·0	052	20	5·0	2·3	033	24	5·5	3·7	048
3·0 ,,	19	4·9	1·8	300	31	5·6	2·4	332	20	4·2	1·8	351	19	5·8	4·6	057	16	4·1	2·9	042	22	4·9	3·4	051
3·6 ,,	17	4·5	1·2	356	31	4·6	1·4	038	11	5·8	3·2	047	18	4·9	3·4	047	15	4·1	2·7	043	19	4·0	2·1	073
4·5 ,,	13	4·7	0·8	120	31	4·7	2·5	087	6	4·8	3·3	099	14	5·4	3·2	071	11	3.7	2.2	081	10	3·3	1·7	042
5·4 ,,	10	4·3	2·3	138	31	6·0	4.2	084	2	6·0	2·9	042	9	6·2	3·9	062	11	4.4	2.7	087	7	2·6	1·3	067
6·0 ,,	9	3·8	2·2	128	31	6.0	4.0	090	2	7·5	3·3	022	9	6·4	4·5	076	10	5.3	3.6	095	7	2·8	1·4	090
7·2 ,,	8	5·3	3·4	124	31	5.6	3.8	097					8	6·1	4·1	087	9	5.9	4.8	095	4	4·9	4·1	120
9·0 ,,	5	8·4	7·7	098	31	7.2	6.5	102					4	8·6	8·5	082	7	5.1	3.9	106				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9,—Kartika 9, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I. S. T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·1	2·8	292	31	3·0	2·7	295	31	4·5	4·4	275	31	3·7	3·3	293	31	0·9	0·9	016	31	1·4	1·0	023
0·15 a. g. .	29	6·6	6·2	293	29	6·1	5·6	293	31	7·8	7·6	283	31	6·2	5·8	290	31	3·7	2·9	023	31	3·0	2·3	026
0·3 a. m.s.l.	29	6·6	6·3	296	29	6·4	5·9	293	31	7·6	7·5	287	31	6 5	6·1	293								
0·6 ,, .	29	6·9	6·6	299	28	6·9	6·2	294	31	7·4	7·2	293	31	7·1	6·7	298	31	3·5	3·0	029	31	3·1	2·5	040
0·9 ,, .	28	6·4	6·4	301	28	6·8	6·1	300	31	7·5	7·3	295	28	6·6	6·1	303	31	3·5	2·9	045	31	3·1	2·7	041
1·5 ,, .	28	6·2	5·6	300	24	6·1	5·5	297	31	6·7	6·1	293	27	6·0	5·4	304	31	4·3	3·4	031	29	4·4	3·7	040
2·1 ,, .	26	6·2	5·2	298	19	5·8	4·6	304	31	6·3	5·4	296	24	5·5	4·4	308	31	5·2	3·9	021	26	5·3	4·3	035
3·0 ,, .	21	5·5	4·0	302	10	4·8	1·9	340	31	5·8	4·3	299	19	3·6	2·5	330	31	4·6	3·1	027	22	4·7	3·7	043
3·6 ,, .	15	5·4	3·3	309	9	3·9	2·2	310	31	5·6	4·1	303	11	3·8	2·4	339	31	4·2	2·8	030	21	4·1	2·3	042
4·5 ,, .	15	4·7	2·3	352	8	4·3	1·3	330	30	4·7	2·1	327	3	1·3	1·0	160	31	4·0	1·9	062	19	4·4	1·5	038
5·4 ,, .	12	4·5	2·1	007	6	4·1	2·3	017	30	4·0	1·5	012	2	3·0	2·9	115	31	3·3	1·5	090	17	4·7	2·3	045
6·0 ,, .	12	3·8	1·8	016	6	4·4	1·7	021	30	4·2	2·1	042					31	3·1	1·5	097	17	4·9	2·4	056
7·2 ,, .	8	4·6	1·8	065	4	9·3	7·1	020	29	5·0	2·8	088					31	3·3	1·6	115	16	4·8	1·7	100
9·0 ,, .	3	6·8	6·6	098	1	7·0	7·0	090	28	8·0	6·5	092					29	3·4	1·8	102	13	6·1	4·4	160

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	1·1	0·9	040	31	0·8	0·5	007	31	2·1	1·9	327	31	3·9	3·5	303	31	2·1	1·9	328	31	0·8	0·6	289
0·15 a.g. .	31	3·5	2·5	039	31	3·7	2·5	044	30	6·3	5·0	331	31	4·2	3·6	310	31	6·1	5·5	332	31	5·8	4·9	335
0·3 a.m.s.l. .									30	4·8	3·9	328	31	4·2	3·7	320	31	2·9	2·7	326	31	4·6	3·8	330
0·6 ,, .	31	3·4	2·8	039	31	3·9	3·2	052	30	6·5	5·3	332	31	4·7	4·1	315	31	6·0	5·5	332	31	5·9	5·4	333
0·9 ,, .	31	3·5	2·8	036	31	4·6	4·0	018	30	6·8	5·6	330	31	5·7	4·8	320	31	6·3	5·8	330	31	6·7	6·0	326
1·5 ,, .	31	3·9	3·2	026	30	5·4	4·6	026	30	8·5	7·1	320	31	6·8	5·4	318	31	6·8	6·3	323	31	7·8	7·0	311
2·1 ,, .	31	5·0	4·3	015	30	5·6	4·1	025	30	8·8	7.0	315	31	7·1	5·0	320	31	7·7	6·5	322	30	7·2	5·9	307
3·0 ,, .	31	4·6	3·7	018	27	4·7	3·0	021	30	7·5	5·5	317	30	5·3	2·8	287	31	6·6	5·0	316	28	6·5	4·5	299
3·6 ,, .	31	4·6	3·0	007	21	4·0	2·1	021	30	6·9	4·1	320	30	6·0	0·7	305	31	6·2	4·3	309	5	3·6	2·3	294
4·5 ,, .	31	3·6	1·4	360	8	2·7	0·9	277	30	8·7	5·3	296	28	7·9	6·1	273	31	7·7	5·5	295				
5·4 ,, .	31	3·4	0·8	055	4	2·9	1·9	248	30	11·2	7·5	288	28	10·1	8·2	270	31	11·4	8·4	285				
6·0 ,, .	31	3·4	0·8	080	3	3·0	2·4	203	30	13·4	10·0	282	28	10·7	8·2	265	31	12·7	10·0	280				
7·2 ,, .	30	3·8	1·4	097					30	15·9	12.6	273	26	14·7	13·2	263	31	15·5	12·7	273				
9·0 ,, .	27	4·5	2·7	167					30	22·3	19·8	265	17	20.7	17.1	258	31	21·2	18·3	268				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	270	31	1·0	0·9	281	31	0·3	0·3	241	31	1·6	0·8	235	31	3·0	1·2	222	31	2·5	1·2	237
0·15 a.g.	31	3·2	0·8	293	31	4·5	2·1	303	31	3·8	3·5	282	31	5·5	3·3	232	31	5·7	1·9	231	31	5·7	3·0	238
0·3 a.m.s.l.													31	5·6	3·3	238	31	6·1	2·6	233	31	6·0	3·2	234
0·6 ,,	31	1·7	1·3	235	31	2·9	1·6	304	31	2·1	1·9	250	31	6·5	3·5	236	30	6·1	2·6	243	31	6·3	3·1	245
0·9 ,,	31	4·8	1·7	011	31	4·4	2·3	310	31	4·8	4·2	310	31	6·6	3·0	229	28	6·3	2·4	236	31	6·5	2·6	243
1·5 ,,	31	5·6	4·8	069	30	3·6	1·8	358	30	5·8	4·2	025	31	6·2	2·0	212	17	3·9	0·7	166	31	5·2	1·5	188
2·1 ,,	29	5·1	4·3	073	28	4·2	3·1	018	28	5·6	4·9	064	31	5·9	1·2	185	13	4·8	1·4	114	31	4·7	1·0	166
3·0 ,,	24	5·3	3·3	070	25	5·0	3·5	069	23	5·4	4·7	076	31	5·7	1·5	117	8	4·5	2·8	130	31	5·1	1·9	130
3·6 ,,	18	5·6	3·4	061	24	4·7	3·3	075	13	4·3	3·5	054	31	6·1	2·3	112	7	6·3	5·1	116	31	5·7	2·8	098
4·5 ,,	10	4·7	2·3	090	20	4·0	2·5	075	3	3·8	3·6	069	31	6·6	2·6	102	2	5·3	3·3	124	31	6·3	3·6	094
5·4 ,,	6	3·2	2·6	116	14	4·8	2·4	075					31	6·2	3·4	100	2	6·3	6·2	145	31	6·2	3·5	093
6·0 ,,	5	4·0	3·7	091	13	4·9	3·3	083					31	6·2	4·1	098	2	5·7	4·4	113	31	7·0	4·0	098
7·2 ,,	5	4·8	4·4	108	10	4·4	3·1	096					31	6·2	4·2	092	2	5·0	5·0	102	30	6·7	4·3	104
9·0 ,,	5	5·6	4·8	118	5	5·9	4·9	100					28	8·0	6·7	104	1	4·0	4·0	130	27	7·2	6.2	094

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	0·9	247	31	1·0	0·4	334	31	1·3	0·7	028	31	1·2	0·2	354	31	1·1	0·9	090	31	0·7	0·3	256
0·15 a.g.	30	5·3	2·5	231	30	3·7	2·2	013	30	3·5	2·4	033	29	3·8	1·5	035	31	3·7	2·7	102	31	2·9	1·2	243
0·3 a.m.s.l.	30	5·6	2·5	229													31	3·6	2·4	103	31	2·9	1·2	250
0·6 ,,	30	5·3	2·7	231	30	4·0	3·0	031	30	3·7	2·6	018	29	4·2	2·0	037	31	3·3	1·6	117	31	2·8	1·4	248
0·9 ,,	28	5·5	2·7	227	30	4·1	3·4	033	30	4·0	2·8	018	29	4·4	3·2	022	29	3·3	1·2	112	31	2·5	1·1	261
1·5 ,,	28	5·0	2·1	210	30	4·5	3.8	032	30	5·2	4·1	018	29	5·1	4·0	024	28	3·5	0·7	059	31	2·9	0·4	060
2·1 ,,	25	4·6	0·9	163	30	5·5	4·1	015	28	6·1	4·4	012	29	5·3	3·9	018	26	3·9	1·3	074	31	3·1	1·1	062
3·0 ,,	23	4·5	2·8	110	29	6·1	3·9	014	25	5·5	4·0	005	27	4·4	2·7	012	20	4·8	1·3	090	30	4·3	1·1	344
3·6 ,,	11	5·5	3·8	106	28	4·9	2·5	028	22	4·5	2·5	008	22	3·5	1·4	360	11	5·9	2·7	316	24	6·1	3·7	307
4·5 ,,	8	6·3	3·5	117	23	3·4	1·4	098	18	3·7	1·4	038	6	2·4	1·8	290	6	5·8	4·8	287	15	6·1	5·1	291
5·4 ,,	5	6·3	5.0	107	21	3·5	1·6	078	15	3·4	2·0	070	3	3·7	2·5	139	3	6·8	5·3	287	7	7·8	5·3	291
6·0 ,,	4	8·0	7·1	082	18	3·8	2·1	114	15	3·5	1·8	060					2	5·0	4·9	260	3	6·8	4·4	292
7·2 ,,					15	4·2	3·0	108	14	3·6	1·1	130					1	1·5	1·5	305	1	6·0	6·0	330
9·0 ,,					11	4·1	2·2	142	7	4·8	3·2	162					1	5·5	5·5	255	1	4·0	4·0	360

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I. S. T.	0530				1730				2330				0530				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·6	056	31	1·2	0·3	168	31	1.3	0·9	028	24	0·7	0·6	128	27	0·9	0·7	298	31	3·6	3·2	278
0·15 a. g.	28	3·2	1·4	058	31	2·8	1·2	187	30	2·5	0·7	056	24	1·7	1·3	124	27	1·7	1·3	288	31	6·8	6·3	281
0·3 a. m. s. l.	28	3·2	2·4	078	31	2·8	1·2	188	30	2·5	0·4	045									31	7·4	6·8	282
0·6 ,,	28	3·1	2·3	082	31	2·9	0·9	180	30	2·4	0·4	111									31	8·0	7·0	285
0·9 ,,	26	3·5	2·7	090	30	2·9	0·8	180	29	2·8	0·5	117									31	6·5	4.6	286
1·5 ,,	22	3·1	2·5	077	27	2·5	0·4	139	27	3·3	1·4	090									30	5·0	2·0	316
2·1 ,,	19	3·5	2·7	090	24	2·5	0·3	051	23	3·5	1·9	096	24	1·7	0·5	107	27	1·9	0·7	290	30	4·6	2·7	354
3·0 ,,	16	3·4	1·9	103	22	3·3	0·3	036	13	2·3	1·2	090	24	1·8	0·6	141	27	3·4	2·5	154	25	3·9	2·0	328
3·6 ,,	15	3·7	1·2	120	20	4·1	0·7	044					24	4·3	3·2	136	26	4·7	3·6	167	25	3·7	1·3	042
4·5 ,,	11	5·6	3.5	252	17	6·7	4·5	280					23	5·4	3·2	174	26	5·5	3·3	181	21	4·4	1·4	042
5·4 ,,	8	7·0	6·8	273	13	6·2	4·8	282					23	8·5	5·4	240	26	8·2	6·0	228	16	4·5	2·7	068
6·0 ,,	7	6·7	5·9	260	11	5·5	4.8	272					22	9·9	7·5	257	26	10.0	7.7	250	14	3·9	2·7	097
7·2 ,,	5	8.3	8·0	261	2	7·5	5·7	263					22	14·9	12·8	258	26	16·5	14·4	260	8	4·9	3.9	090
9·0 ,,	1	10·0	10·0	245	1	10.5	10.5	295					18	23·1	21·4	265	24	26·6	25·0	263	3	8·2	8·1	097

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·6	0·5	306	31	2·9	1·4	235	31	1·7	1·5	352	31	2·5	2·1	305	31	3·1	2·7	291	31	1·7	1·5	331
0·15 a. g.	30	3·6	0·7	292	27	5·8	3·0	227	29	6·3	6·1	334	31	4·5	4·2	303	30	6·4	6·2	297	27	5·3	4·9	323
0·3 a. m. s. l.	30	3.6	0.9	283	27	6·0	3·3	226	29	6.5	6.4	325	31	4·7	4·4	303	30	6·7	6·4	295	27	6·3	6·0	318
0·6 ,,	30	3·3	1·1	275	27	5·6	3·0	237	29	6·8	6·6	317	31	5·4	5·1	309	30	6·7	6·4	296	27	7·8	7·4	311
0·9 ,,	30	3·7	1·3	291	27	5·2	2·7	251	29	6·9	6·3	312	27	5·7	5·3	308	30	6·4	6·1	295	24	7·5	7·2	309
1·5 ,,	29	4·1	1·7	314	26	4·2	1·6	316	29	6·2	5·1	306	21	6·7	5·4	310	30	5·9	5·0	303	22	6·8	6·3	306
2·1 ,,	29	4·6	2·1	316	21	4·0	2·7	350	29	6·7	4·4	309	10	5·9	2·1	350	30	5·8	4·3	306	19	6·8	4·8	304
3·0 ,,	27	4·3	2·1	327	16	4·4	2·5	352	29	5·6	3·4	314	8	3·9	0·5	078	30	5·5	3·8	298	15	5·3	3·0	302
3·6 ,,	24	4·6	1·3	352	8	3·7	2·0	062	29	5·4	3·6	306	6	3·3	0·6	080	30	5·2	3·0	301	11	3·1	1·3	290
4·5 ,,	20	4·9	1·5	048	7	4·8	2.4	067	29	4·3	1·2	318	5	3·9	0·8	321	30	3·9	1·0	336	5	2·8	1·1	017
5·4 ,,	14	5·2	2·3	095	2	5·0	4·5	084	29	4.1	1.0	051	1	3·0	3·0	125	30	3·7	1·2	066	2	3·3	1·7	110
6.0 ,,	11	5·1	3·5	083					29	3.9	1·8	089	1	3·0	3·0	110	30	4·2	1·4	057	1	4·0	4·0	130
7·2 ,,	7	5·5	3·9	073					29	5·1	2.9	092	1	4·0	4·0	075	29	5·3	3·0	100				
9·0 ,,	2	4·5	4·5	120					28	6·9	5·7	093					28	7·4	6·3	093				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

October, 1964 (Asvina 9 —Kartika 9, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	C	A	L	31	0·6	0·3	245	31	C	A	L	31	0·4	0·3	328	31	2·4	1·7	275	31	0·5	0·4	332
0·15 a.g.	31	2·7	2·2	353	31	2·9	1·0	305	31	2·9	1·8	340	28	3·5	2·6	360	29	5·0	3·8	295	29	3·9	2·9	348
0·3 a.m.s.l.													28	4·2	3·3	349	29	5·2	4·3	298	29	4·9	4·4	337
0·6 ,,													27	5·1	4·2	349	29	5·1	4·3	308	28	4·8	4·5	338
0·9 ,,	31	4.0	2.5	020	31	3·1	0·8	335	31	3·7	2·2	352	23	5·4	4·4	007	22	3·7	2·6	336	27	4·2	3·8	344
1·5 ,,	31	3.6	1.9	052	31	2·9	1·0	337	31	3·2	1.4	027	23	5·2	3·9	051	18	4·2	3·2	010	25	4·7	3·8	036
2·1 ,,	31	4.4	0.2	343	31	3·1	1·0	005	31	3·5	1·2	053	20	4·9	4·2	072	14	4·8	3·8	063	22	6·4	5·6	067
3·0 ,,	30	6.1	0.9	320	31	4·2	1·0	003	31	4·1	0·2	340	14	4·6	3·6	074	9	5·9	4·6	074	18	5·1	4·1	083
3·6 ,,	30	6.3	1.1	280	30	5.0	1.4	281	27	5·0	2·1	283	1	0·5	0·5	125	8	6·3	5·8	087	5	4·7	4·3	087
4·5 ,,	30	7.2	0.6	179	28	6.1	2.3	278	14	5.4	4·5	260					7	5·3	3·7	086				
5·4 ,,	30	7.5	1.4	248	25	7.5	3.0	264	6	6·5	5·7	253					6	5·7	4·8	072				
6·0 ,,	29	8.6	3.2	242	25	7.7	4.3	270	1	6.0	6·0	225					6	6.8	5.9	078				
7·2 ,,	28	7.7	4.8	252	20	7.1	4.4	266	1	4·0	4.0	240					5	6.1	5.5	090				
9·0 ,,	25	9.0	6·3	250	3	11.7	11.6	246									2	8.3	7.3	120				

Station	VERAVAL												VIJAYAWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·7	339	31	4·9	4·4	286	31	2·4	2·0	328	31	1·7	0·7	331	31	2·4	0·7	104	31	1·7	0·7	126
0·15 a.g.	31	7·5	6·9	337	31	5·7	5·2	282	31	7·2	6·7	313	28	3·0	0·3	213	30	3·2	1·2	099	31	4·5	2·1	135
0·3 a.m.s.l.	31	7·7	6·6	337	31	5.2	4.4	284	31	7·5	6·9	314	28	3.3	0·7	198	30	3.5	1.3	083	31	4·9	1·9	118
0·6 ,,	31	6·8	5·1	344	31	4.0	2.4	303	31	6·5	5·4	317	28	3·4	0·4	120	30	3.9	1·5	036	31	5·0	1·9	072
0·9 ,,	31	5·4	3·4	360	31	3·4	2·1	323	31	4·4	3·1	322	27	3·8	1·0	068	30	4·2	2·1	014	31	4·6	2·3	040
1·5 ,,	31	4·6	2·1	055	31	3·8	1·9	009	30	4·1	2·3	037	25	5·0	3·7	045	30	4·7	3·2	019	31	4·9	3·4	033
2·1 ,,	30	5·6	2·2	124	31	4·8	1·1	034	30	4·9	2·9	050	25	5·8	3·9	043	30	4·5	3·0	026	31	5·7	3·9	035
3·0 ,,	30	6·1	3·0	163	30	5·5	0·6	166	30	6·1	2·0	135	23	5·7	3·1	061	30	5·0	2·2	049	28	6·0	3·3	049
3·6 ,,	5	6·0	4·7	134	30	5·4	0·8	166	14	6·7	5·0	173	22	5·6	3·7	068	29	4·6	1·8	074	21	5.5	2.4	065
4·5 ,,	1	5·5	5·5	025	29	5·7	1·4	193	6	7·3	4·6	190	21	5·3	3·7	078	25	5·9	2·9	082	20	5.6	3·9	085
5·4 ,,					29	5 6	1.9	171	4	7·9	5·1	198	20	7·1	5·8	081	25	6.6	4.0	082	16	6·8	5·8	079
6·0 ,,					28	4.5	1.6	147	4	6·5	3·6	220	19	7·5	6·4	085	25	7.1	4.0	090	12	6.2	5·9	090
7·2 ,,					27	3.9	1·8	157	1	5.5	5.5	040	15	7.4	6·5	097	18	6·4	4.7	099	6	8·4	7.7	109
9·0 ,,					13	4·1	2·7	190					13	7.8	7.6	112	12	6.8	5.8	111				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·1	2·1	328	31	1·7	0·7	167	31	3·5	1·8	341	31	0·8	0·3	229
0·15 a.g. .	31	5·0	3·6	338	29	3.4	1·2	137	30	5·3	3·0	349	31	3·2	0·7	234
0·3 a.m.s.l. .	31	4·8	2·9	341	29	3·3	0·9	134	30	5·0	2·4	003	31	3.5	0·7	200
0·6 ,, .	31	4·3	1·1	347	29	4·1	0·4	025	30	4·6	1·2	010	31	4·1	0·6	166
0·9 ,, .	31	4·3	0·8	012	27	4·9	1·2	027	30	4·9	1·7	004	31	4·3	1·0	039
1·5 ,, .	31	5·1	1·6	038	25	5·5	2·7	040	30	5·2	2·2	024	29	4·5	2·3	029
2·1 ,, .	31	5·0	2·3	046	21	5·2	3·3	045	30	4·9	2·9	027	26	5·0	3·1	046
3·0 ,, .	30	4·9	2·2	050	16	5·2	3·5	058	29	4·6	1·6	038	24	3·9	1·4	050
3·6 ,, .	29	5·1	1·7	069	13	5·8	4·0	078	27	5·6	0·9	075	14	4·9	1·0	123
4·5 ,, .	29	5·8	2·6	069	12	5·7	4·6	090	27	6·6	1·3	093	6	3·7	1·8	158
5·4 ,, .	27	6·7	3·8	070	12	6·4	5·8	090	27	7·0	3·2	078	3	4·3	3·4	180
6·0 , .	26	7·0	5·0	106	12	7·4	6·8	094	26	8·1	4·8	088	3	5·3	3·9	163
7·2 ,, .	22	8·3	7·1	093	12	8·5	7·5	096	26	7·7	5·5	097	2	4·7	4·7	117
9·0 ,, .	22	8·6	7 3	104	7	7·9	7·3	102	25	8·0	6·1	101				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

October, 1964 (Asvina 9 —Kartika 9 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD			
	0530 hr.*			
10·5	23	8·9	5·9	231
12·0	18	12·2	11·3	227
14·1	11	13·8	10·3	204
16·2	5	10·5	7·6	230
18·0	2	11·0	10·9	096
	1130 hr.			
10·5	2	7·7	7·7	233
	1730 hr.*			
10·5	26	8·9	8·3	232
12·0	23	11·2	10·1	220
14·1	17	12·6	10·6	191
16·2	10	8·5	4·4	180
18·0	5	8·6	7·4	170
21·0	1	17.0	17 0	245
24·0	1	18·0	18·0	050
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	19	11·8	10·6	240
12·0	12	12.4	10·3	250
14·1	5	12·0	9·0	243
16·2	2	4·3	4·3	068
18·0	1	5·5	4·5	075
	1130 hr.			
10·5	8	12·6	10·4	242
12·0	4	14·0	13·7	225
	1730 hr.*			
10·5	22	11·9	9·8	246
12·0	16	12·4	11·7	235
14·1	5	12.8	12·1	240
16·2	1	7·5	7·5	150
	ANANTAPUR			
	0530 hr.			
10·5	11	8·1	7·6	114
12·0	10	9·9	9·6	111
14·1	5	17·8	17·4	113
16·2	3	20·0	18·5	110
18·0	2	12·5	11·3	117
21·0	1	28·0	28·0	080
	1730 hr.			
10·5	1	8·0	8·0	090

Ht in Km	n	V	v	D
	ASANSOL			
	0530 hr.			
10·5	5	5·9	5·0	213
12·0	4	7·5	6·3	203
14·1	2	3·7	3·7	232
16·2	1	3·0	3·0	180
18·0	1	3·0	3·0	160
	1730 hr.			
10·5	2	9·7	9·7	210
12·0	1	4·0	4·0	275
	BAHRAICH			
	0530 hr.			
10·5	4	8·0	4·0	290
12·0	3	11·7	11·0	266
14·1	2	7·3	6·7	261
16·2	1	2·5	2·5	035
	1130 hr.			
10·5	5	20·9	20·8	248
12·0	3	22·0	22·7	250
	1730 hr.			
10·5	2	13·0	9·1	234
12·0	1	4·0	4·0	065
	BANGALORE			
	0530 hr.@			
10·5	2	9·5	9·3	124
12·0	2	12.5	12.1	115
14·1	2	13·7	13·7	138
16·2	2	13·3	12·5	114
18·0	2	12.0	11.9	115
21·0	1	4·5	4·5	055
	1730 hr.@			
10·5	10	10·4	10·4	106
12·0	8	16·4	15·9	102
14.1	8	24·0	22·9	107
16·2	4	16·6	10·6	089
18·0	4	6·0	4·7	063
21·0	1	2·0	2·0	080
24·0	1	8·0	8·0	115
	BAREILLY			
	0530 hr.			
10·5	1	4·0	4·0	245
12·0	1	3·0	3·0	350
14·1	1	5·0	5·0	345

Ht. in Km.	n	V	v	D
	1730 hr.			
10·5	4	13·4	10·7	270
12·0	3	10·5	8·9	309
14·1	1	9·5	9·5	055
	BEGAMPET			
	0530 hr.			
10·5	1	6·0	6·0	090
12·0	1	7·0	7·0	125
14·1	1	12·5	12·5	145
	1730 hr.			
10·5	1	7·5	7·5	130
	BHOPAL/ BAIRAGARH			
	0530 hr.			
10·5	4	11·0	10·8	223
	1730 hr.			
10·5	2	11·0	10·9	263
12·0	1	23·0	23·0	225
14·1	1	17·0	17·0	225
	BHUJ/ RUDRAMATA			
	0530 hr.			
10·5	4	9·5	4·8	240
12·0	2	5·3	4·3	093
14·1	2	5·7	5·4	068
16·2	1	8·0	8·0	090
	BOMBAY/ SANTACRUZ			
	0530 hr.*			
10·5	22	6·0	3·8	120
12·0	19	8·4	6·7	135
14·1	9	12·4	10·0	146
16·2	7	11·0	9·8	122
18·0	4	9·5	6·2	097
21·0	1	8·5	8·5	090
	1130 hr.			
10·5	12	6·5	5·1	144
12·0	10	11·1	8·9	155
14·1	7	10·2	10·1	162
16·2	7	11·1	9·6	125
18·0	4	13·5	12·7	109
21·0	1	6·0	6·0	125
	1730 hr.*			
10·5	26	6·7	5·3	111

Ht. in Km.	n	V	v	D
12·0	20	9·4	7·8	133
14·1	14	12·3	9·8	126
16·2	8	9·6	8·9	133
18·0	5	7·7	7·2	113
21·0	2	9·3	9·1	089
	CALCUTTA/ DUM DUM			
	0530 hr.*			
10·5	29	4·2	1·3	204
12·0	29	5·0	2·4	165
14.1	29	6·4	2·9	152
16·2	26	6·7	3·2	137
18·0	15	6·3	5·6	135
21·0	1	7·0	7·0	105
	1730 hr.*			
10·5	26	4·9	2·1	204
12·0	26	4·8	2·2	222
14·1	25	5·1	1·7	259
16·2	22	6·4	3·4	137
18·0	9	7·1	5·4	128
	GADAG			
	0530 hr.			
10·5	11	8·7	7·7	113
12·0	11	10·2	9·1	124
14·1	9	15·4	15·2	135
16·2	8	16·8	16·4	126
18·0	8	10·7	10·3	111
21·0	7	7·4	7·0	108
24·0	3	14·1	13·4	075
	1730 hr.			
10·5	9	8·3	8·1	114
12·0	8	9·4	8·7	114
14·1	6	17·4	16·9	116
16·2	6	20·3	19·0	113
18·0	6	12·5	11·7	090
21·0	5	6·7	5·1	090
24·0	3	19·0	18·7	102
	GAUHATI			
	0530 hr. *			
10·5	21	8·9	7·3	250
12·0	19	9·6	8·1	250
14·1	15	9·7	8·0	268
16·2	7	9·8	4·8	263
18·0	2	3·5	2·9	116

Ht. in Km.	n	V	v	D
	1130 hr.			
10·5	1	5·5	5·5	250
	1730 hr.*			
10·5	23	10·0	9·1	256
12·0	18	11·1	10·4	257
14·1	12	11·8	10·7	271
16·2	6	9·4	8·7	262
18·0	1	11·5	11·5	275
	GAYA			
	1730 hr.			
10·5	4	9·9	9·4	236
12·0	2	6·5	6·5	258
14·1	2	9·3	9·1	247
	GOPALPUR			
	0530 hr.			
10·5	3	7·9	7·7	100
12·0	2	9.5	8.9	097
	1730hr.			
10·5	9	7·3	5·4	134
12·0	8	7·0	5·1	134
14·1	5	11·1	9·6	105
16·2	1	13·5	13·5	120
	GORAKHPUR			
	0530 hr.			
10·5	1	18·5	18·5	260
	1730 hr.			
10·5	1	12·5	12·5	260
	GWALIOR			
	0530 hr.			
10·5	1	17·5	17·5	250
	1130 hr.			
10·5	4	13·9	9·7	243
	1730 hr.			
10·5	5	14·4	9·7	248
12·0	1	7.0	7·0	065
14·1	1	3·0	3·0	045
16·2	1	7·0	7·0	055
18·0	1	15·5	15·5	065
	JABALPUR			
	0530 hr.			
10·5	4	7·0	6·6	224
12·0	4	7·5	7·2	205
14·1	1	12·0	12·0	140

Table V—Monthly Mean Direction and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	JABALPUR			
	1730 hr.			
10·5	3	6·0	5·4	236
12·0	3	7·7	6·0	223
	JAGDALPUR			
	0530 hr.			
10·5	5	7·9	6·6	110
12.0	4	9·5	7·9	127
14·1	3	11·3	11·2	142
16·2	3	13·5	13·5	125
18·0	2	13·3	13·3	120
	1730 hr.			
10.5	4	9·0	7·0	132
	JAIPUR/SANGANER			
	1730 hr.			
10·5	1	17·5	17·5	240
	JHARSUGUDA			
	0530 hr.			
10·5	2	8·0	3·6	112
12·0	1	6·0	6·0	180
14·1	1	11·5	11·5	130
	1730 hr.			
10·5	3	6·2	5·0	186
12·0	2	9·3	9·3	168
14·1	1	14·5	14·5	165
16·2	1	17·0	17·0	170
18·0	1	8·0	8·0	135
	JODHPUR			
	0530 hr.*			
10·5	14	11·6	7·5	252
12·0	7	10·2	4·4	255
14·1	1	9·5	9·5	265
16·2	1	4·5	4·5	290
	1130 hr.			
10·5	9	15·7	15·1	250
12·0	9	15·5	12·3	243
14·1	7	21·9	19·6	241
16·2	3	22·2	21·7	249
18·0	1	38·0	38·0	230
	1730 hr.*			
10·5	19	13·8	12·1	238
12·0	10	22·1	21·3	237
14·1	1	5·0	5·0	135
16·2	1	4·5	4·5	110

Ht. in Km.	n	V	v	D
	LUCKNOW/AMAUSI			
	0530 hr.			
10·5	11	14·3	11·6	253
12·0	5	15·5	14·8	246
14·1	1	15·0	15·0	255
	1730 hr.			
10·5	6	20·6	20·2	241
12·0	4	21·4	20·9	243
14·1	1	30·0	30·0	210
	MADRAS/ MINAMBAKKAM			
	0530 hr.*			
10·5	24	8·6	8·0	102
12·0	24	13·5	12·0	112
14·1	22	20·9	20·0	110
16·2	19	16·8	14·8	100
18·0	12	9·4	9·0	089
21·0	3	6·7	5·2	100
	1130 hr.			
10·5	4	11·7	10·9	093
12·0	4	15·5	14·5	090
14·1	1	20·5	20·5	110
16·2	1	23·5	23·5	090
	1730 hr.*			
10·5	28	10·0	9·1	106
12·0	26	14·1	13·7	104
14·1	23	22·0	21·4	108
16·2	18	20·2	19·4	097
18·0	5	15·0	14·6	098
21.0	1	8·5	8·5	095
	MANGALORE/BAJPE			
	0530 hr.			
10·5	1	4·0	4·0	130
12·0	1	4·5	4·5	190
	1730 hr.			
10·5	3	7·3	6·6	096
12·0	2	11·7	11·7	090
14·1	2	21·3	20·3	109
16·2	1	7·0	7·0	105
18·0	1	9·0	9·0	100
21·0	1	28·0	28·0	090
24·0	1	30·5	30·5	095

Ht. in Km.	n	V	v	D
	MINICOY			
	0530 hr.			
10·5	2	9·5	9·5	109
12·0	2	10·7	10·5	098
	1130 hr.			
10·5	1	16·5	16·5	085
	1730 hr.*			
10·5	27	10·8	10·3	090
12·0	27	15·1	14·6	090
14·1	25	21·4	19·2	096
16·2	22	16·0	14·7	085
18·0	16	8·4	3·5	116
21·0	9	6·5	1·3	176
24·0	4	8·6	7·0	086
	NAGPUR/SONEGAON			
	0530 hr.*			
10·5	29	4·1	3.6	228
12·0	25	6·4	5·4	174
14·1	19	10·9	9·0	169
16·2	7	8·7	6·0	142
18·0	4	7·4	6·8	088
21·0	3	8·3	7·8	091
24·0	1	8·0	8·0	080
	1130 hr.			
10·5	8	8·6	7·4	173
12·0	7	12·1	10·7	169
14·1	3	11·3	10·9	159
16·2	1	18·5	18·5	175
18·0	1	7·5	7·5	170
	1730 hrs.*			
10·5	28	5·4	3·7	177
12·0	27	6·5	5·5	160
14·1	25	9·8	9·3	167
16·2	15	11·2	8·9	143
18·0	8	7·3	6·3	126
21·0	2	9·3	9·3	117
24·0	1	17·0	17·0	080
	NEW DELHI/ SAFDARJUNG			
	0530 hr.*			
10·5	29	26·3	23·9	262
12·0	27	25·8	24·1	255
14·1	23	24·4	22·7	252
16·2	15	14·7	11·8	262

Ht. in Km.	n	V	v	D
18·0	13	9·5	4·0	233
21·0	6	5·2	3·2	109
24·0	3	15·8	10·8	082
27·0	2	10·5	9·9	308
30·0	1	4·0	4·0	220
	1130 hr.			
10·5	7	11·4	8·1	262
12.0	7	19·3	15·7	256
	1730 hr.*			
10·5	30	23·5	21·8	260
12·0	30	26·8	24·7	259
14·1	24	24·3	24·2	252
16·2	19	16·8	14·4	254
18·0	16	7·8	3·5	236
21·0	13	6·4	3·8	106
24·0	8	7·5	5·6	105
27·0	4	4·1	0·7	161
	POONA			
	0530 hr.			
10·5	4	6·9	5·5	13[illegible]
12·0	3	10·3	8·1	116
14·1	1	10·5	10·5	125
	1730 hr.			
10.5	2	7·3	5·3	145
12.0	2	7·7	7·3	142
14·1	1	8·0	8·0	120
16·2	1	3·5	3·5	160
18·0	1	6·5	6·5	145
	PORTBLAIR			
	0530 hr.*			
10·5	26	11·1	10·6	092
12·0	25	16·0	15·0	093
14·1	19	22·4	21·7	096
16·2	13	22·4	21·7	095
18·0	7	14·4	12·9	093
21·0	3	9·8	9·5	087
	1730 hr.*			
10·5	26	11·4	11·0	094
12·0	25	16·2	14·8	094
14·1	21	22·2	21·4	086
16·2	10	24·9	24·6	097

Ht. in Km.	n	V	v	D
18·0	4	17·2	11·5	113
21·0	1	22·0	22·0	080
	RAIPUR			
	0530 hr.			
10·5	6	6·4	5·5	165
12·0	4	9·1	9·0	170
14·1	4	9·3	9·1	145
16·2	1	6·0	6·0	170
18·0	1	9·0	9·0	130
21.0	1	25·5	25·5	130
	1730 hr.			
10·5	3	5·5	4·4	180
	RAXAUL			
	1730 hr.			
10·5	1	4·5	4·5	360
	SRINAGAR			
	0530 hr.*			
10·5	15	30·3	28.4	265
12·0	10	32·7	31·7	270
14·1	4	30·3	28·7	270
	1730 hr.*			
10·5	20	34·9	32·7	262
12·0	14	34·0	31·7	265
14·1	3	41·0	37·1	268
	TRIVANDRAM			
	0530 hr.*			
10·5	28	10·7	9·6	093
12·0	28	14.4	13·9	088
14·1	25	23·0	22·1	100
16·2	22	13·8	12·3	091
18·0	14	8·4	2·9	112
21·0	6	5·4	2·8	271
24·0	3	20·5	19·8	081
	1730 hr.*			
10·5	28	11·1	10·6	089
12·0	28	17·0	16·8	086
14·1	27	21·1	20·0	096
16·2	21	15·0	13·8	081
18·0	14	9·4	6·3	078
21·0	4	7.9	5·9	291

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above Sea Level

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Ht. in Km.	n	V	v	D
		UDAIPUR		
		0530 hr.		
10·5	19	11·9	8·4	244
12·0	9	13·3	12·0	231
14·1	5	18·2	16·2	223
16·2	2	21·0	20·5	206
18·0	1	10·0	10·0	215
21·0	1	1·0	1·0	160
		1730 hr.		
10·5	2	10·7	10·1	241
12·0	1	7·0	7·0	220
		VERAVAL		
		1730 hr.		
10·5	3	6·5	5·7	215
12·0	2	9·5	9·2	197
		VIJAYAWADA/ GANNAVARAM		
		0530 hr.		
10·5	13	10·2	9·9	122
12·0	12	14·0	13·4	123
14·1	10	17·3	15·7	117
16·2	8	17·3	16·1	109
18·0	6	20·6	19·3	114
		1730 hr.		
10·5	9	10·4	9·6	117
12·0	8	14·9	13·9	117
		VISHAKHAPATNAM		
		0530 hr.*		
10·5	21	10·7	9·1	107
12·0	21	13·9	11·9	108
14·1	20	18·0	16·1	109
16·2	18	18·2	16·1	100
18·0	12	14·5	14·7	094
21·0	7	24·1	26·8	101
24·0	1	21·5	21·5	090
		1130 hr.		
10·5	2	9·0	8·9	108
12·0	1	10·5	10·5	115
		1730 hr.*		
10·5	24	11·7	9·8	111
12·0	21	14·1	13·6	110
14·1	17	17·5	16·6	113
16·2	13	17·6	16·4	111
18·0	6	15·4	15·3	092
21·0	4	16·4	15·0	120

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

List of Radiosonde stations in India

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July 1961	00 and 12	Fan type upto 24-2-1963.
2	Allahabad/Bamhrauli	Clock type	1st October 1941	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September 1954	00 and 12	Clock type upto 22-2-1963.
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1002 mb.)						ALLAHABAD/BAMHRAULI (997 mb.)						BANGALORE (909 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	295·0	300	289	290·5	31	098	294·7	299	287	292·1	31	921	293·5	294	291	292.0
1000	31	071	..	..	..	..	31	64	..	..	..	..	31	092	..	..	..	..
900	31	998	295·7	300	290	282·7	31	936	294·8	299	290	285·2	31	1003	292·6	294	291	291·3
850	31	1494	292·6	297	288	281·1	31	1480	291·2	295	284	282·7	31	1495	290·5	293	289	287·7
800	31	2013	288·1	295	283	279·4	31	1997	288·2	292	283	278·0	31	2013	288·4	292	286	284·4
700	31	3132	221.1	285	276	270·5	31	3116	282·4	286	278	270·8	31	3136	282·5	287	279	276·1
600	30	4390	274·7	279	269	261·3	31	4379	276·6	281	272	..	31	4021	276·0	280	274	268·4
500	30	5841	267·1	273	261	..	31	5837	268·3	272	264	..	31	5862	267·8	273	264	..
400	30	7554	256·3	263	249	..	31	7558	257·6	262	252	..	31	7577	256·5	262	250	..
300	27	9654	241·6	248	232	..	29	9669	243·5	248	238	..	27	9685	242·0	248	237	..
250	23	10929	232·4	238	228	..	29	10950	234·6	240	229	..	24	10959	232 9	239	228	..
200	22	12418	221·4	229	217	..	29	12445	223·3	231	218	..	21	12444	221·2	225	217	..
175	22	13270	215·0	223	211	..	29	13307	217·1	225	212	..	21	13282	214·6	219	207	..
150	19	14226	207·6	216	203	..	29	14263	210·8	210	204	..	21	14252	207·7	212	203	..
125	16	15286	199·1	206	195	..	26	15388	203·6	209	196	..	16	15333	201·3	205	196	..
100	12	16557	193·3	198	189	..	21	16684	198·0	205	193	..	16	16646	195·9	200	193	..
80	9	17852	195·3	201	184	..	13	18016	199·7	206	194	..	13	17998	198 5	205	193	..
70	7	18653	199·0	205	187	..	11	18778	202·2	209	197	..	13	18786	202·2	208	195	..
60	6	19615	203·8	210	191	..	8	19640	206·9	213	198	..	11	19719	205·6	211	195	..
50							5	20780	209·2	217	200	..	9	20799	209·2	214	204	..
40													5	22122	209·2	213	205	..
30																		
20																		
10																		

	BOMBAY/SANTACRUZ (1007 mb.)						CALCUTTA/DUM DUM (1006 mb.)						GAUHATI (1003 mb.)					
Surface	31	013	296·6	299	291	295·1	31	6	298·1	301	293	296·9	31	49	297·1	299	296	296·3
1000	31	72	..	..	..	..	31	58	..	..	..	..	31	74	..	..	..	..
900	31	997	295·8	299	292	286·5	31	985	294·2	299	291	291·2	31	995	294·5	300	290	290·6
850	31	1492	292·9	297	289	283·7	31	1479	291·6	295	282	288·6	31	1490	291·8	297	287	287·5
800	31	2013	289·1	291	287	281·4	31	1999	288·8	293	285	284·9	31	2009	288·8	294	284	284·6
700	31	3135	282·6	287	279	274·6	31	3129	283·7	287	282	277·6	31	3132	283·1	287	280	277·4
600	31	4400	276·1	282	271	266·0	30	4399	277·2	281	273	271·0	31	4401	276·8	280	274	268·8
500	31	5858	268·4	272	265	..	30	5862	268·9	272	266	..	29	5865	269·6	274	265	..
400	31	7583	257 2	262	253	..	30	7591	258·7	262	254	..	28	7601	260·7	264	256	..
300	27	9693	242·0	248	237	..	29	9721	245·4	249	240	..	23	9731	245·8	251	242	..
250	20	10962	232·3	239	229	..	29	10998	236·6	241	231	..	22	11021	236·4	243	232	..
200	20	12445	220·5	228	215	..	29	12504	224·4	233	221	..	18	12537	225·4	231	221	..
175	19	13298	213·9	222	207	..	29	13378	217·8	224	213	..	16	13391	219·1	225	213	..
150	17	14243	207·4	215	201	..	28	14349	210·7	218	201	..	13	14367	212·3	219	206	..
125	17	15335	200·9	207	195	..	27	15447	203·1	210	193	..	9	15495	207·2	215	203	..
100	14	16635	197·6	206	191	..	25	16769	197·6	204	193	..	5	16816	198.0	199	196	..
80	11	17963	200·5	208	193	..	16	18042	197·6	204	191	..						..
70	9	18796	203.3	211	196	..	14	18829	201.7	209	195	..						
60	8	19734	207·5	215	198	..	10	19726	207·4	216	199	..						
50	8	20853	211.6	219	201	..	7	20801	211·4	214	202	..						
40	5	22234	212·8	217	205	..												
30	5	24044	217·0	222	209	..												
20																		
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

October, 1964 (Asvina 9, —Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (982 mb.)						MADRAS/MINAMBAKKAM (1006 mb.)						NAGPUR/SONEGAON (978 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	296·9	301	288	281·8	31	15	298·4	300	297	296·7	31	311	294·6	299	286	292·3
1000	29	074	..	..	..	..	31	66	..	..	..	..	31	72	..	..	..	..
900	29	1003	296·3	303	289	275·0	31	990	294·6	297	292	289·7	31	987	295·3	299	291	289·3
850	29	1483	296·8	301	288	272·6	31	1484	291·7	294	288	287·3	31	1482	292·1	295	287	286·7
800	29	1990	287·2	295	284	271·5	31	2002	288·7	292	285	284·4	31	2002	288·6	293	285	283·8
700	29	3118	281·5	286	275	..	31	3124	282.6	287	279	277·7	31	3126	282·5	287	278	275·4
600	28	4376	275·2	281	268	..	31	4399	275·6	279	271	270·7	31	4393	276·1	280	271	265·7
500	27	5824	267·3	273	263	..	31	5844	267·6	271	263	..	31	5856	267·8	273	263	..
400	27	7559	256·4	262	252	..	31	7563	256·6	261	252	..	31	7568	257·4	265	252	..
300	22	9654	241·9	247	233	..	26	9660	241·7	247	237	..	31	9675	242·2	249	237	..
250	17	10937	235·6	238	225	..	25	10934	231·9	237	226	..	31	10940	232·8	241	227	..
200	13	12468	224·5	227	219	..	24	12417	220·0	227	216	..	31	12427	221·5	228	215	..
175	11	13369	219·1	222	214	..	23	13249	214·0	220	211	..	30	13278	215·3	221	208	..
150	11	14344	212·8	219	208	..	23	14214	207·2	213	202	..	29	14260	209·0	216	202	..
125	11	15461	205·4	214	201	..	22	15311	201·0	207	194	..	25	15325	201·7	208	195	..
100	10	16781	200·7	209	194	..	19	16608	195·3	201	192	..	25	16639	196·9	204	192	..
80	10	18072	197·5	210	193	..	10	17871	200·3	213	195	..	19	17937	200·3	209	189	..
70	8	18797	201·2	215	196	..	8	18706	202·1	206	199	..	16	18713	202 2	208	191	..
60	6	19877	207·7	217	201	..	8	19655	208·3	212	203	..	14	19640	205·8	213	193	..
50							5	20780	210·8	213	207	..	12	20729	209·9	217	200	..
40													8	22136	213·5	219	205	..
30																		
20																		
10																		

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (985 mb.)						PORT BLAIR (1000 mb.)						SRINAGAR (842 mb.)					
Surface	31	209	293·0	297	288	289·7	31	79	297·1	299	296	295·9	24	1588	278·7	285	274	278·4
1000	31	071	..	..	..	..	31	..	..	..	..	..	24	157	..	..	..	..
900	31	990	295·7	300	292	279·2	31	996	293·5	297	290	290·1	24	1038	..	..	..	..
850	31	1488	292·4	296	288	273·4	31	1489	290·8	295	289	287·0	24	1509	..	..	..	..
800	31	2003	289·7	293	285	269·9	31	2006	288·1	291	285	284·1	24	2005	282·4	286	277	275 1
700	31	3124	282·4	286	275	261·8	31	3128	282·4	285	279	278·7	24	3116	278·2	283	272	269·9
600	31	4386	275·3	282	269	258.1	31	4391	275·6	281	271	271·1	23	4357	270·4	277	263	259.8
500	31	5838	267·2	274	257	..	31	5844	267·4	274	262	..	22	5782	261·4	271	253	..
400	31	7553	257·1	263	249	..	31	7559	257·1	263	253	..	21	7463	250·9	258	244	..
300	31	9663	242·7	247	237	..	29	9662	241·8	251	236	..	20	9521	237·4	245	230	..
250	31	10998	234·1	244	228	..	27	10955	232·7	235	226	..	18	10776	231·1	239	226	..
200	31	12432	223·2	230	217	..	27	12386	219·4	225	214	..	18	12289	222.4	229	219	..
175	30	13292	217·1	223	210	..	25	13231	213·0	221	208	..	14	13114	217.5	221	214	..
150	30	14257	210·1	216	204	..	22	14176	206·2	213	200	..	13	14086	212.7	216	208	..
125	26	15368	203·7	209	195	..	17	15272	200·8	207	196	..	13	15207	207.5	212	203	..
100	26	16665	198·2	203	193	..	12	16563	197·0	203	194	..	12	16567	203.8	210	199	..
80	24	17970	199·8	206	193	..	9	17872	200·8	210	197	..	10	17895	207.3	214	203	.
70	24	18755	203·0	208	197	..	6	18652	203·7	209	199	..	8	18656	207.4	213	201	..
60	22	19676	208·9	215	202	..	6	19585	207·0	214	201	..	8	19605	212.1	218	203	..
50	20	20800	213·5	219	206	..							6	20845	216.7	221	208	..
40	15	22187	216·9	228	207	..							5	22272	222.2	224	220	..
30	9	24039	222·1	235	214	..												
20	6	26629	225·1	228	220	..												
10																		

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM Surf. Pr. (1002 mb.)						VISHAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	064	297·4	299	296	296·0	31	041	298·8	301	296	297·2
1000	30	80	..	..	..	..	31	065	..	..	..	..
900	30	1002	292·7	295	291	290·2	31	987	294·0	298	292	290·7
850	30	1494	290·1	292	288	287·9	31	1480	291·2	295	289	287·6
800	30	2012	287·7	290	285	284·0	31	1994	288·4	293	285	284·5
700	30	3134	282·0	285	279	277·2	30	3120	283·2	287	277	277·2
600	30	4397	274·8	279	270	269·6	30	4387	276·5	280	273	270·9
500	30	5848	267·4	270	263	..	30	5848	268·0	272	263	..
400	30	7564	256·7	261	253	..	29	7571	257·6	261	253	..
300	29	9670	241.5	246	236	..	28	9684	243·1	250	238	..
250	29	10936	231·4	236	227	..	28	10958	233·5	231	227	..
200	29	12409	218·6	223	213	..	28	12452	222·7	229	216	..
175	29	13248	212·5	217	207	..	26	13291	215·9	221	210	..
150	28	14203	205·8	211	200	..	26	14262	209·6	215	202	..
125	26	15269	199·1	204	193	..	25	15354	203·0	209	196	..
100	25	16583	197·7	203	191	..	22	16697	197·9	204	191	..
80	20	17982	203·6	209	196	..	20	18019	200·3	207	194	..
70	17	18707	206·2	213	194	..	16	18800	202·9	210	196	..
60	14	19666	210·7	223	204	..	15	19721	206·7	214	201	..
50	10	20810	213·7	222	209	..	15	20811	211·4	221	202	..
40	5	22153	213·8	221	208	..	8	22141	213.9	219	207	..
30							5	23870	216.4	227	210	..
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 hrs. G.M.T.

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1001 mb.)						ALLAHABAD/BAMHRAULI (992 mb.)						BANGALORE (907 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew pont			Mean	Max.	Min.	Dew point
Surface	31	055	308·3	311	306	292·7	31	098	303·9	306	299	292·7	31	921	298·8	301	295	291.2
1000	31	063	..	..	..	..	30	054	..	..	..	..	31	054	..	..	..	..
900	31	1007	299·7	304	295	284·3	30	988	296·9	299	295	286·5	31	94	298·2	301	295	290·4
850	31	1507	294·7	301	291	282·7	30	1487	292·8	295	290	283·4	31	1483	294·3	297	291	287·8
800	31	2029	290·2	293	284	280·9	30	2003	289·3	293	285	279·1	31	2005	289·7	293	287	285·1
700	31	3154	282·3	285	277	272·2	30	3125	283·4	287	278	272·9	31	3130	282·6	285	279	278·9
600	31	4419	276·2	282	271	..	30	4395	277·6	280	273	260·8	31	4397	276·2	281	272	..
500	30	5881	269·0	274	263	..	30	5858	269·5	273	264	..	31	5858	268·4	275	263	..
400	30	7607	258·2	263	253	..	30	7583	258·4	261	254	..	31	7578	256·8	264	251	..
300	29	9726	243·5	250	237	..	29	9703	244.1	249	240	..	24	9691	242·3	250	236	..
250	27	11001	233·7	242	229	..	29	10983	234·6	242	229	..	20	10952	232·6	239	227	..
200	24	12479	221·4	231	213	..	28	12484	223·7	228	214	..	20	12429	219·9	228	213	..
175	21	13334	214·5	218	208	..	27	13359	217·2	225	202	..	18	13276	214·2	221	209	..
150	21	14289	207·0	211	198	..	27	14326	210·9	221	202	..	17	14241	207·5	214	203	..
125	19	15395	200·0	205	195	..	27	15443	204·3	213	197	..	13	15297	201·4	205	197	..
100	19	16683	194·7	200	187	..	25	16759	199·1	207	191	..	8	16621	196·1	200	193	..
80	16	17970	197·7	206	190	..	16	18085	200·5	207	193	..	7	17935	199·3	203	194	..
70	14	18769	202·3	212	196	..	14	18859	203.6	211	195	..	7	18778	201·7	207	196	..
60	13	19667	206·2	216	200	..	12	19769	206·0	213	199	..	6	19686	204·5	209	199	
50	9	20793	210·1	217	203	..	9	20870	211·9	217	207	..	5	20774	207·2	211	202	
40							5	22264	215·8	222	209	..						
30																		
20																		
10																		

	BOMBAY/SANTACRUZ Surf. Pr. (1006 mb).						CALCUTTA/DUM DUM (1005 mb.)						GAUHATI (1000 mb.)					
Surface	31	013	302·7	305	301	295·8	31	6	301·3	304	297	297·2	31	049	300·3	303	297	297·5
1000	31	064	..	..	..	..	31	048	..	..	..	..	31	052	..	..	..	..
900	31	993	296·7	301	294	287·8	31	977	295·4	299	291	290·9	31	980	295·7	299	293	290·9
850	31	1490	293·6	298	290	283·7	31	1473	292·5	295	287	286·9	31	1478	293·0	297	290	287·9
800	31	2011	289·5	294	287	281·3	31	1993	289·1	292	283	283·4	31	1999	289·8	295	284	285·1
700	31	3134	282·8	288	279	273·8	31	3119	284·3	290	282	275·2	31	3127	283·7	288	279	278·0
600	31	4399	276·3	280	273	265·2	31	4394	277·6	280	275	267·7	31	4408	277·0	281	275	276·9
500	30	5859	268·8	273	265	..	31	5857	269·5	273	265	..	31	5867	270·1	273	266	..
400	30	7584	257·6	264	253	..	31	7586	258·7	263	254	..	28	7600	260·2	264	249	..
300	29	9697	242·4	246	238	..	31	9711	244·5	252	240	..	25	9719	245·2	248	242	..
250	27	10973	232·4	237	227	..	31	10994	234·8	244	231	..	24	11008	235·3	238	229	..
200	26	12453	220·1	226	215	..	30	12496	223·8	233	219	..	18	12531	224·4	228	220	..
175	26	13309	213·8	220	208	..	28	13358	216·8	222	212	..	17	13415	217·9	223	213	..
150	26	14257	207·0	214	201	..	28	14322	209·2	216	204	..	12	14404	211·3	217	207	..
125	21	15359	200·0	207	190	..	26	15423	201·4	210	193	..	8	15425	205·3	216	197	..
100	16	16649	197·7	203	192	..	23	16681	195·3	206	189	..	5	16789	198·3	200	194	..
80	11	17937	201·3	209	195	..	13	17962	196·1	202	191	..						
70	9	18734	206·2	215	201	..	9	18723	198·8	206	191	..						
60	6	19705	211.3	219	205	..	5	19616	205·2	209	200	..						
50												..						
40																		
30																		
20																		
10																		

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

October, 1964 (Asvina 9 —Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (983 mb.)						MADRAS/MINAMBAKKAM (1004 mb.)						MINICOY (1009 mb.)					
	No of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	307.3	312	304	284.3	31	15	302.3	306	299	297.1	31	002	299.5	301	298	296.2
1000	31	062	..	..	..	..	31	53	..	..	..	..	31	084	..	..	..	..
900	31	1001	299.3	306	290	276.9	31	983	296.2	299	293	291.7	31	1006	292.6	295	290	289.6
850	31	1501	295.3	301	290	273.2	31	1480	292.9	297	290	289.0	31	1494	289.8	293	288	286.5
800	31	2023	290.0	299	284	272.4	31	2001	289.8	294	287	284.9	31	2013	287.6	291	285	282.7
700	31	3142	282.3	291	276	261.9	31	3127	283.4	287	279	278.2	31	3132	282.0	286	280	276.2
600	31	4403	275.3	283	268	..	31	4397	276.5	280	272	..	30	4394	274.9	277	273	269.9
500	31	5857	267.7	275	261	..	31	5853	268.5	272	264	..	29	5843	266.9	271	263	..
400	30	7575	257.7	269	253	..	31	7576	257.5	261	254	..	29	7552	256.0	261	252	..
300	23	9685	243.5	256	239	..	29	9689	242.4	249	237	..	28	9641	240.0	244	236	..
250	22	10962	235.0	246	230	..	27	10965	232.9	240	226	..	27	10893	229.4	234	225	..
200	19	12457	224.6	230	218	..	24	12450	220.5	228	217	..	26	12354	217.8	224	212	..
175	15	13334	217.7	226	202	..	22	13287	213.7	221	209	..	25	13192	211.6	219	207	..
150	11	14318	211.7	217	205	..	22	14251	208.0	216	201	..	25	14135	204.7	213	199	..
125	9	15442	204.7	210	197	..	21	15318	200.4	207	194	..	23	15207	199.4	208	193	..
100	..	..	..	..	..	..	17	16671	195.2	201	190	..	20	16500	197.3	202	191	..
80	..	..	..	..	..	..	7	17935	198.9	201	196	..	15	17816	200.6	206	195	..
70	..	..	..	..	..	..	5	18653	202.8	205	201	..	13	18605	202.6	208	195	..
60	..	..	..	..	..	..	..	..	..	..	..	..	12	19522	204.9	209	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	12	20621	207.2	211	199	..
40	..	..	..	..	..	..	..	..	..	..	..	..	8	21975	208.6	211	203	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NAGPUR/SONEGAON (971 mb.)						NEW DELHI/SAFDARJUNG (983 mb.)						PORT BLAIR (998 mb.)					
Surface	31	311	302.6	305	298	292.4	31	209	303.0	305	300	293·1	31	79	299.1	300	297	296.7
1000	31	051	..	..	..	..	31	061	..	..	..	..	31	063	..	..	..	..
900	31	987	297.7	300	294	289.0	31	992	297.7	300	293	283.7	31	985	293.8	296	291	290.5
850	31	1485	293.6	297	290	287.5	31	1489	294.4	297	290	278.4	31	1477	290.8	293	287	287.2
800	31	2007	289.3	291	286	284.4	31	2007	290.6	294	286	274.3	31	1994	288.1	291	285	284.1
700	31	3133	282.6	286	279	272.3	31	3135	283.5	287	279	264.4	31	3114	282.5	285	279	278.5
600	31	4403	273.0	279	271	..	31	4400	276.0	281	269	..	31	4380	275.8	281	271	..
500	31	5858	268.3	272	261	..	31	5855	268.0	273	264	..	31	5834	267.3	272	263	..
400	31	7576	257.1	263	253	..	31	7574	257.2	263	250	..	31	7550	257.0	264	251	..
300	31	9683	241.9	248	239	..	31	9688	243.1	249	232	..	30	9653	242.0	249	236	..
250	31	10968	232.0	238	239	..	31	10967	234.7	243	229	..	29	10923	232.5	243	226	..
200	31	12434	220.5	227	217	..	31	12432	223.9	229	217	..	28	12399	220.6	231	212	..
175	31	13268	214.2	221	211	..	31	13331	217.6	223	213	..	27	13233	213.7	223	206	..
150	30	14239	207.7	216	202	..	29	14309	211.3	215	207	..	23	14189	206.8	215	200	..
125	30	15310	201.6	209	196	..	29	15419	204.8	209	199	..	14	15391	201.1	208	195	..
100	29	16635	195.5	201	191	..	28	16740	199.9	206	195	..	10	16605	196.5	205	190	..
80	27	17947	200.3	206	189	..	27	18054	201.0	210	195	..	5	18028	200.0	208	191	..
70	23	18719	197.8	210	193	..	25	18846	203.6	212	196	..	..	..	..	..	..	..
60	19	19600	203.0	212	197	..	22	19788	208.0	214	199	..	..	..	..	..	..	..
50	18	20683	207.2	216	198	..	21	20917	212.6	223	205	..	..	..	..	..	..	..
40	10	22048	209.4	217	203	..	18	22296	217.3	221	207	..	..	..	..	..	..	..
30	8	23852	215.0	221	208	..	12	24155	220·7	225	211	..	..	..	..	..	..	..
20	..	..	..	..	..	..	11	26787	224·8	230	219	..	..	..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(D) From Ascents at 12 Hours G.M.T.

October, 1964 (Asvina 9—Kartika 9, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (842 mb.)						TRIVANDRUM (1001 mb.)						VISHAKHAPATNAM (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	1588	294·9	299	292	280·9	31	064	300.1	302	298	297.2	31	041	302·0	304	296	297.9
1000	27	055	..	..	..	..	31	069	..	..	..	..	31	052	..	..	..	..
900	27	987	..	..	..	..	30	995	293.2	297	291	289.9	31	981	294.8	299	290	291.7
850	27	1485	..	..	..	..	30	1489	290.6	293	288	288.3	31	1477	291.8	296	288	288.5
800	27	2005	291·7	297	285	274·3	30	2006	288.1	293	285	284.6	31	1996	289.3	294	286	284.2
700	27	3135	289·8	290	279	264·1	30	3130	282.4	288	279	278.8	31	3121	284.1	289	281	277.7
600	27	4393	273·1	282	268	..	30	4396	275.9	281	271	..	31	4394	277.4	280	274	271·1
500	26	5828	262·2	271	258	..	30	5851	267.4	270	263	..	31	5855	268.9	273	265	..
400	26	7506	250·9	261	244	..	29	7569	256.5	261	253	..	31	7579	258.0	263	253	..
300	23	9579	238·6	249	230	..	28	9678	241.6	245	237	..	30	9682	243.3	250	240	..
250	21	10846	232·4	239	226	..	28	10946	231.6	235	228	..	29	10945	234.6	239	229	..
200	18	12353	224·3	230	220	..	28	12420	219.5	223	215	..	29	12473	222.0	231	216	..
175	16	13219	219·4	225	214	..	28	13258	213.6	221	208	..	28	13327	215.9	227	210	..
150	13	14227	215·0	221	206	..	28	14221	206 6	216	200	..	26	14294	209.1	222	203	..
125	10	15390	209·9	214	201	..	28	15292	200.4	209	195	..	24	15384	202.5	213	197	..
100	9	16758	206·4	209	198	..	24	16618	197.1	205	191	..	22	16685	196.3	203	189	..
80	8	18125	207·3	211	203	..	20	17918	200.4	209	195	..	15	18035	195.7	204	190	..
70	8	18951	208·9	212	203	..	13	18737	202.8	212	197	..	13	18656	202.2	210	193	..
60	6	19879	213·7	217	208	..	12	19681	206.9	216	201	..	10	19756	206.6	213	203	..
50						..	9	20775	209.1	215	205	..						
40																		
30																		
20																		
10																		

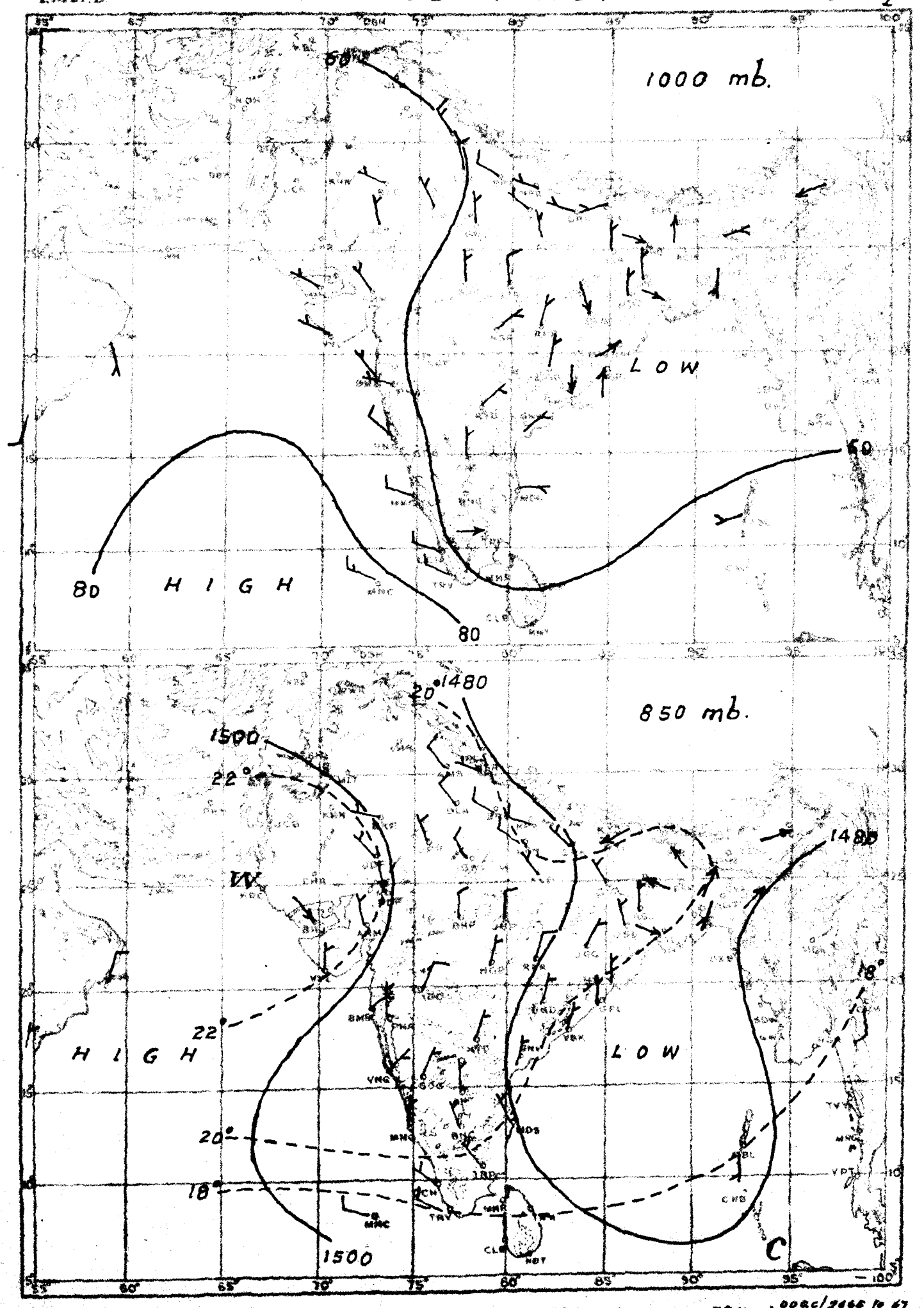
Note:—Number of observations refer to those of dynamic height. Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN—S1—I D.D.G. Obs. P/68—7-3-68—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D OCTOBER 1964 Plate I

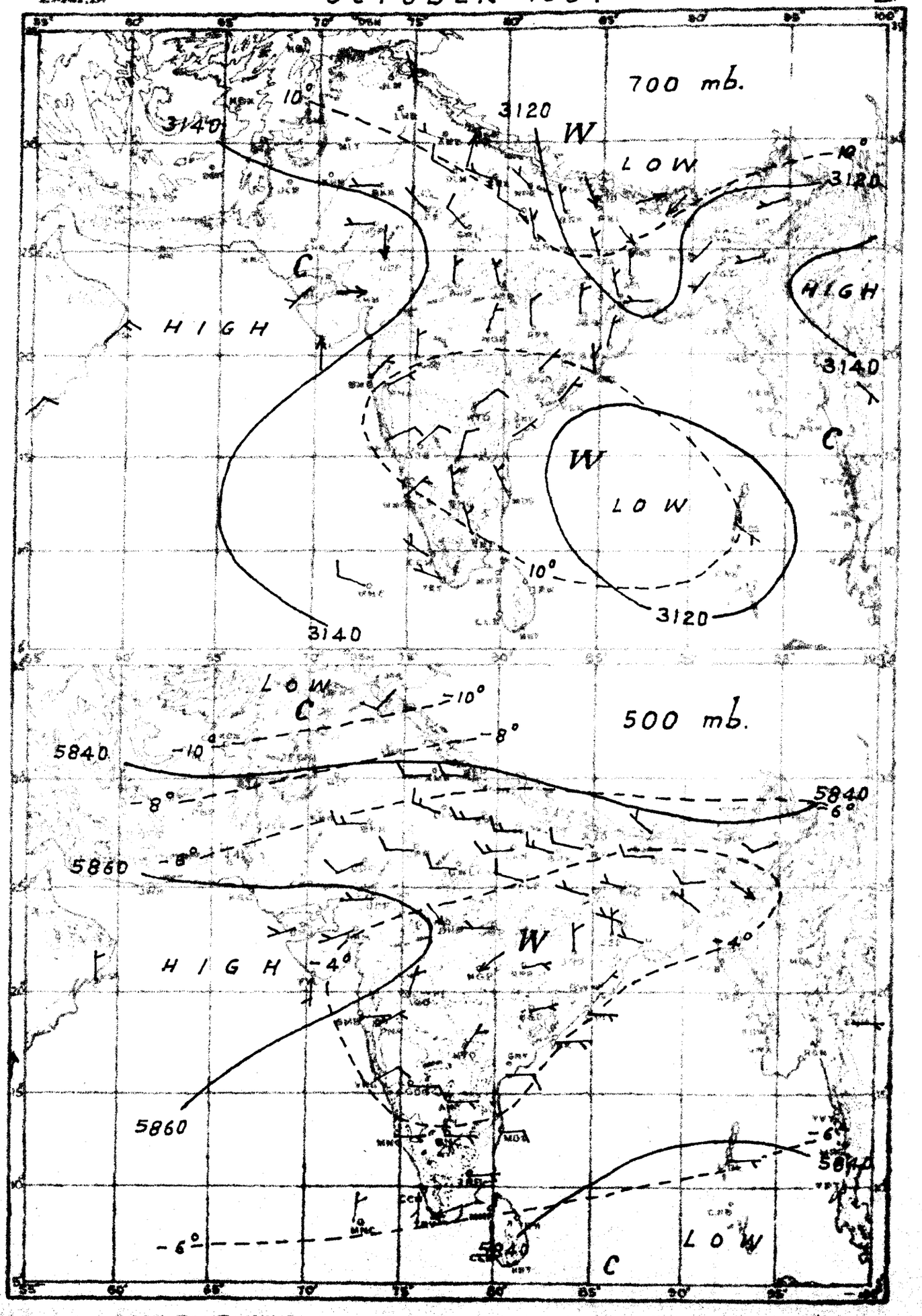


RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - - - Isotherms in degrees centigrade ——— Contours in geopotential metres

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. OCTOBER 1964 Plate II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

- - - - - Isotherms in degrees centigrade —— Contours in geopotential metres.

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

NOVEMBER

Published by authority of the Government of India

Chief features—

(i) Good rainfall activity in the Peninsula, particularly in the southern parts;

(ii) Development and movement of three cyclonic storms, one in the Arabian Sea and two in the Bay of Bengal; and

(iii) Feeble activity of western disturbances and consequent deficit precipitation in northwest India.

A low pressure area moving into the southeast Arabian Sea from the east across the Comorin area on the 1st intensified and concentrated into a depression with centre near Lat. 9·5°N and Long. 72·0°E on the morning of 2nd. Moving westwards it further intensified into a cyclonic storm by the evening of 4th when it lay centred near Lat. 10·5°N and Long. 66·0°E. It moved westnorthwestwards till 8th morning when it was centred near Lat. 12·0°N and Long. 59·0°E. Thereafter the storm could not be traced due to paucity of ships' observations from that area; but it is believed that it moved away in a southwesterly direction. In association with it, there was good rainfall in the south and northwestern parts of the Peninsula at the beginning of the month. Some of the noteworthy amounts of rainfall were : Madras 14 cm, Cuddalore 12 cm, Vellore 10 cm and Vedaranniyam and Coonoor 7 cm each on 1st and Calicut 8 cm on 4th.

Under the influence of a low pressure wave from the east a depression formed over the south Andaman Sea and south Bay Islands area on the evening of 3rd with centre near Lat. 8·0°N and Long. 95·0°E. Moving initially northwestwards and later westnorthwestwards, it intensified into a cyclonic storm by the evening of the 5th with centre near Lat. 13·0°N and Long. 87·5°E. Thereafter it moved westwards and further intensified into a severe cyclonic storm of small extent with a core of hurricane winds centred near Lat. 13·0°N and Long. 84·0°E by the next evening. It continued its westward movement till the morning of 7th and later took a westsouthwesterly course and began to weaken. It became a cyclonic storm by 7th evening and crossing coast just south of Madras the same night, it further weakened into a low pressure area by the evening of 8th. It emerged into the eastcentral Arabian Sea off the Mysore and south Maharashtra coasts on 9th. Later it shifted slightly northwards and became unimportant by 13th. Under its influence, there was well distributed rainfall in the south Peninsula with the rainfall belt extending to the northwestern parts of the Peninsula in the second week. Some of the heavy rainfalls reported were : Madras 10 cm on 7th, Bangalore 7 cm on 8th, Attirampattinam 11 cm on 10th, Hassan 10 cm and Mysore 7 cm on 12th and Vellore 7 cm on 13th. Later the rainfall decreased over the Peninsula. In association with the eastward movement of a low pressure area from the south Andaman Sea to the Maldive area between the 9th and 15th, the extreme south of the Peninsula experienced rainfall activity.

Another low pressure area moved from the east into the Andaman Sea on 12th. Moving westwards it intensified into a depression by the morning of 16th with centre near Lat. 13·5°N and Long. 85·5°E. Continuing to move westward it further intensified into a cyclonic storm of small extent by the morning of 18th with centre near Lat. 13·5°N and long. 82·5°E and into a severe cyclonic storm of small extent with a core of hurricane winds by the same evening with centre near Lat. 13·0°N and Long. 81·5°E. It moved upto the coast just south of Madras by 19th evening and recurving eastwards it weakened into a cyclonic storm by the evening of 20th. It began to move southeastwards from the morning of 21st till 23rd when it lay as a deep depression centered near Lat. 10·0°N and Long. 84.0°E. Thereafter it moved northeastwards till the evening of 25th when it was centred near Lat. 13·5°N and Long. 85·5°E. Later it moved eastwards into north Andaman Sea where it weakened into a low pressure area by 29th. It finally moved away eastwards across the Tenasserim coast by 30th. This disturbance caused a spell of good rains in the south Peninsula during the third week. Madras City experienced heavy rains for three consecutive days from 18th, the

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rainfalls recorded being 10 cm on 19th and 9 cm each on 20th and 21st. According to press reports over 5,000 huts were submerged and 30,000 people rendered homeless because of the heavy rains in Madras City. A few persons also lost their lives. The Bay Islands also received good rainfall during the period of the disturbance. Maya Bandar recorded 8 cm of rain on 22nd and Port Blair 7 cm on 24th. This disturbance also caused incursion of moist air into northeast India leading to a spell of rains in south Assam, Gangetic West Bengal and Orissa during the first half of the third week.

In the absence of any western disturbance, weather continued to be dry over northwest India during the first fortnight. A trough in the westerlies which appeared over northwest India on 18th moved away eastwards across Assam by 22nd. In association with it a few light showers occurred in the Punjab (I), east Madhya Pradesh, Bihar State and Assam. A feeble western disturbance which lay as a sea level low over Baluchistan and adjoining West Pakistan moved eastwards and was lying over west Rajasthan and adjoining Punjab (I) on 30th. It caused a few showers in west Rajasthan and Jammu and Kashmir towards the end of the month.

Night temperatures were generally below normal over northwest India upto 25th. Thereafter they began to rise and became appreciably above normal towards the end of the month over that area. Night temperatures were also below normal over the central parts of the country during the second half of the month except from 18th to 20th when they were appreciably to markedly above normal. Over Uttar Pradesh the night temperatures were below normal during the second week and again from 20th to 25th. Night temperatures over northeast India remained above normal during the first and third weeks. They were also above normal in Assam during the last week when night temperatures in the remaining parts of northeast India were below normal. Over the Peninsula they were above normal for the major parts of the second and third weeks, although on a few days they were below normal over the northern parts. They remained below normal over the entire Peninsula during the last week, being markedly so on a number of days.

The total rainfall during the month was in large excess in south Interior Mysore, in moderate excess in the Bay Islands and was normal in coastal Andhra Pradesh, Telangana, the Madras State and Kerala. It was in slight defect in Madhya Maharashtra, Rayalaseema, north Interior Mysore and the Arabian Sea Islands, in moderate defect in Assam, Gangetic West Bengal, Bihar Plateau, west Rajasthan, the Konkan and coastal Mysore and in large defect in Sub-Himalayan West Bengal, Orissa, Bihar Plains, the Punjab (I), Jammu and Kashmir, east Madhya Pradesh, Gujarat Region, Marathwada, and Vidarbha. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam, Sub-Himalayan West Bengal and Bihar Plains. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in Assam, below normal in east Uttar Pradesh, Punjab (I), west Rajasthan, west Madhya Pradesh and Saurashtra and Kutch. It was normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Bay Islands and coastal and north Interior Mysore and below normal in west Madhya Pradesh and Gujarat State. It was normal over the rest of the country outside Himachal Pradesh.

The Mean cloud amount in the morning was above normal in the Bay Islands, Saurashtra and Kutch, Madhya Maharashtra and north Interior Mysore and below normal in Bihar Plateau, Uttar Pradesh, the Punjab (I), Jammu and Kashmir and west Rajasthan. It was normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I.S.T. of the date noted in the succeeding column; similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I.S.T. of the date given in the succeeding column.

POONA-5,
The 20th September, 1965.

R. ANANTHAKRISHNAN,
for DIRECTOR GENERAL OF OBSERVATORIES

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	15·9	52	28·0	16·4	82	79	2·7	2·3
	−14·5		+1·1	+1·2	0		−0·1	
2. West Bengal	10·0	47	29·2	17·5	70	67	1·5	1·6
	−11·3		+0·6	+0·5	−2		−0·2	
3. Orissa	9·3	21	29·4	17·7	68	60	2.6	3·1
	−36·0		+0·4	−0·2	−4		+0·2	
4. Bihar	5·1	48	28·4	14·5	70	61	1·0	1·2
	−5·5		+0·7	−0·1	0		−0·3	
5. Uttar Pradesh	0	0	28·8	11·1	65	47	0·5	0·5
	−5·6		+0·5	−1·0	−2		−0·3	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	0·3	7	27·6	8·8	63	40	0·6	0·7
	−4·1		+0·2	−1·1	+2		−0·2	
7. Jammu and Kashmir.	0·7	5	17·5	0·4	62	47	0·9	1·2
	−13·5		+0·6	−0·7	−4		−1·0	
8. Rajasthan	0·5	11	30·0	11·5	52	37	0·8	1·0
	−4·0		0	−1·2	+1		0	
Sub-Division								
1. Bay Islands	394·3	148	29·5	22·5	83	88	5·8	6·1
	+127·1		+0·7	−0·6	+7		+1·2	
2. Assam (Including Manipur, Tripura).	15·9	52	28·0	16·4	82	79	2·7	2·3
	−14·5		+1·1	+1·2	0		−0·1	
3. Sub-Himalayan, West Bengal.	0·6	6	29·3	16·2	71	68	1·2	1·4
	−9·7		+1·2	+0·8	−3		0	
4. Gangetic, West Bengal	13·4	53	29·1	17·9	69	66	1·6	1·6
	−11·8		+0·5	+0·4	−1		−0·2	
5. Orissa	9·3	21	29·4	17·7	68	60	2·6	3·1
	−36·0		+0·4	−0·2	−4		+0·2	
6. Bihar Plateau	8·0	56	27·5	14·5	68	57	1·2	1·3
	−6·2		+0·1	+0·1	+1		−0·5	
7. Bihar Plains	3·5	40	29·2	14·6	71	65	0·9	1·1
	−5·2		+1·2	−0·3	−1		−0·1	
8. Uttar Pradesh (East).	0	0	29·2	11·5	65	48	0·5	0·5
	−6·2		+0·7	−1·1	−3		−0·2	
9. Uttar Pradesh (West).	0	0	28·1	10·3	64	46	0·3	0·5
	−4·8		+0·3	−1.0	+1		−0·4	
10. Punjab (India) Including (Delhi).	0·3	7	27·6	8·8	63	40	0·6	0·7
	−4·1		+0 2	−1·1	+2		−0·2	
11. Himachal Pradesh	1·2	..	28·3	8·5	79	58	0·2	0·5
	..		..	..	..		..	
12. Jammu and Kashmir.	0·7	5	17·5	0·4	62	47	0 9	1·2
	−13·5		+0·6	−0.7	−4		−1.0	
13. Rajasthan (West)	0·9	53	30·7	10·8	53	33	0·7	0·9
	−0·8		−0·1	−2·0	+3		−0·2	
14. Rajasthan (East)	0	0	29·6	12·0	52	29	0·9	1·2
	−7·1		+0·1	−0·6	0		+0·1	
15. Madhya Pradesh (West).	0	0	28·7	11·4	50	34	1·3	1·5
	−15·0		−0·1	−1·1	−6		0	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	1·5	11	28·2	12·2	59	42	1·5	1·8
	−11·8		−0·2	−0·7	−3		0	
10. Gujarat State	0·3	7	32·7	16·2	50	36	1·1	1·1
	−4·2		+0·2	−1·0	−8		0	
11. Maharashtra State	14·4	61	30·5	17·2	63	46	2·4	2·8
	−9·2		0	0	+1		+0·3	
12. Andhra Pradesh	68·5	90	29·7	19·5	75	62	3·5	3·6
	−7·3		−0·2	−0·1	+2		+0·1	
13. Madras State	226·4	99	29·7	22·0	81	71	5·0	5·1
	−1·2		−0·1	−0·4	0		+0·3	
14. Mysore	67·6	126	28·8	18·1	76	57	3·8	4·0
	+14·1		−0.6	−0·3	+5		+0·4	
15. Kerala	165·8	93	29·7	23·1	85	77	4·6	5·0
	−12·8		−0·5	−0·5	+4		0	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	3·4	31	27·6	13·1	69	53	1·7	2·1
	−7·7		−0·2	−0·1	+1		−0·2	
17. Gujarat Region	0.8	14	33·9	16 0	54	33	1·0	1·1
	−5·0		+0·5	−0·2	−6		−0·2	
18. Saurashtra and Kutch.	0	0	31·9	16·3	47	38	1·2	1·1
	−3·7		0	−1·5	−9		+0·2	
19. Konkan	14·7	59	31·6	21·7	72	67	2·3	2·4
	−10·3		−0·2	+0·3	+4		0	
20. Madhya Maharashtra	22·7	79	30·7	15·2	65	40	2·7	3·2
	−6·1		+0·2	−0·3	+3		+0·6	
21. Marathwada	6·1	22	30·5	14·9	51	35	2·5	3·1
	−21·3		+0·2	−0·3	−5		+0·2	
22. Vidarbha	5·7	38	29·5	15·8	57	40	2·2	2·6
	−9·2		−0·2	+0·1	−4		+0·1	
23. Coastal Andhra Pradesh.	112.5	90	29·5	21·2	77	69	4·2	4 2
	−12·2		−0·1	−0·1	+3		+0·5	
24. Telangana	20·0	107	30·0	17·4	72	56	2·3	2·8
	+1·3		+0·1	+0·3	+2		−0·5	
25. Rayalaseema	46·6	82	29·8	19·1	76	58	3·5	3·8
	−10·4		−0·9	+0·7	+3		+0·1	
26. Madras State	226·4	99	29·7	22·0	81	71	5·0	5·1
	−1.2		−0·1	−0·4	0		+0·3	
27. Coastal Mysore	37·7	62	31·2	21·9	80	71	3·2	4·0
	−23·0		−0·6	−0·1	+7		−0·3	
28. Interior Mysore (North)	28·5	82	29·5	17·5	70	45	3·7	3·9
	−6·3		−0·4	−0·3	+6		+1·1	
29. Interior Mysore. (South)	108·3	170	27·2	16·9	79	59	4·2	4·1
	+44·6		−0·7	−0·5	+2		+0·1	
30. Kerala	165·8	93	29·7	23·1	85	77	4·6	5·0
	−12·8		−0·5	−0·5	+4		0	
31. Arabian Sea Islands	90·9	84	30·3	23·7	77	72	3·7	3·9
	−17·1		+0·3	−0·2	+1		−0·3	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Lines Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar.	29.3	..	30·5	11,30	23.7	..	21·2	28	62.2	296.2	..	76.0	22	19	..	12·0	10.7	..	0	21	0	0	0	0	0	0	0	0	0
Long Island .	29.6	..	31.4	30	23.2	..	20.8	18	120.5	200.4	..	32.6	22	16	..	5·8	4.8	..	0	20	0	0	0	0	0	0	0	0	0
Port Blair .	29.5	+0.7	31.3	29	22.5	—0.6	20.5	19	143.3	394.3	−127.1	69.2	24	19	−5 4	9·7	8.1	−5.4	0	22	0	0	1	5	0	0	0	0	0
Car Nicobar .	29.0	..	30.7	16	22.2	..	15.3	21	119.3	347.9	..	48.0	14	17	..	4·3	2.3	..	0	18	0	0	0	0	0	0	0	0	0
Nancowry .	29.0	..	31.7	25	23.9	..	22.9	16	102.1	280.5	..	39·0	4	13	..	6.0	4.2	..	0	21	0	0	0	0	0	0	0	0	0
Koodul .	26·7	..	28.3	27	23.5	..	22.6	1,7	195.8	459.4	..	72.8	2	19	..	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Assam (including Manipur & Tripura)																													
Pasighat .	28.2	..	31.1	2	16.3	..	12 2	30	0	12.2	..	11 2	6	1	..	7.2	13.2	..	0	2	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari)	28.2	+2.7	31.4	2	13.4	—1·0	8.7	29	0.7	6·2	—27.3	5·5	20	1	−1·5	3.6	1.8	+0·2	0	2	0	0	0	0	0	0	0	0	0
Digboi	27.9	..	31.1	1	16.8	..	12.4	30	2.2	10.5	..	7.2	20	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
North Lakhimpur	28·5	+0·8	31.5	2	13.8	—0.1	9.3	27	0	0.5	−27.5	0.5	20	0	−2.1	3.4	1·9	..	0	1	0	0	0	1	0	0	0	0	0
Sibsagar .	28.0	+2.4	32·2	2	17.2	+1.8	13.1	29	0.3	9.2	—21.8	9·2	20	1	−1.3	2.8	1.8	0	0	1	0	0	0	20	0	0	0	0	0
Gohpur .	27.7	..	31.1	2,3	15.5	..	11.0	26	0	2.4	..	2.4	20	0	..	3.4	2.2	..	0	1	0	0	0	12	0	0	0	0	0
Majbat .	28.6	..	31·1	3,5	15·3	..	11·5	27	0	0	.	0	..	0	..	3.2	2.3	..	0	0	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome).	27·9	..	30·8	2	16.5	..	12.8	39	0.5	11.7	..	10.4	19	1	..	..	..	..	0	2	0	0	0	5	0	0	0	0	0
Tangla . .	28.7	..	32.3	4	15.2	..	10.6	18	0	0	..	0	..	0	..	1.9	1.2	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur . .	28.7	+1·5	31.7	3	17.4	+1·0	14.3	26	0	1.2	—21.7	1.2	20	0	−1.8	5.1	3.8	+1.4	0	1	0	0	0	0	0	0	0	0	0
Golaghat .	28.3	..	31.1	1,2	16·8	..	12·4	30	( ) 0	14·0	..	12·6	20	1	..	(b) 2·6	1.7	..	0	2	0	0	0	0	0	0	0	0	0
Rangia .	30.1	..	32·0	1,3,5	16.9	..	13·3	29	(d) 0	0	..	..	..	..	..	(d) 6·4	(d) 4·1	..	..	..	0	0	0	0	0	0	0	0	0
Chaparmukh	29.7		32.5	3	18.5	..	15.8	22, 27,29	(c) 0	9.8	..	8.4	26	1	..	(c) 8·0	3.8	..		2	0	0	0	0	0	0	0	0	0
Goalpara .	29·7	..	31.7	2	16·8	..	12.2	30	5.2	37.4	..	32·2	2	3	..	2·6	(b) 1·2	..	0	3	0	0	0	0	0	0	0	0	0
Gauhati. .	..	..	..	..	..	..	..	..	..	1.0	—13.0	1.0	20	0	—1.2	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor).	28.3	+0·9	30.8	3	17.1	+2.5	14.3	29,30	0.2	7.7	—6.3	6.8	3	1	−0·2	5.6	2.8	..	0	2	0	0	0	16	0	0	0	0	0
Dhubri (Rupsi).	28.2	..	30.7	1,4	16.2	..	12.9	27	0	23.0	..	21·4	4	1	..	5.2	4.1	..	0	3	0	0	0	1	0	0	0	0	0
Dhubri . .	27.2	+0·9	30.9	4	19.1	+1.3	15.6	3	0	0	—10·2	0	..	0	—0.7	12.5	8.2	+1.8	0	0	0	0	0	0	0	0	0	0	0
Lumding .	28·0	+1·8	31.5	1	18.8	+3.4	13.8	13	8.5	21.4	−7.8	17.0	21	2	+0.1	3.8	2.0	..	0	2	0	0	0	0	0	0	0	0	0
Tura . .	27.7	..	30·1	5	13.7	..	11.1	9,28,30	2.2	2.2	..	2.2	25	0	..	2.1	4.5	..	0	1	0	0	0	0	0	0	0	0	0
Haflong .	24.0	..	27·8	1	14.8	..	11.4	30	0	6.2	−54.3	5.1	27	1	−1.2	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Silchar (Kumbhirgram).	30·1	..	32.6	2	18·0	..	14.4	30	0	13.1	..	12·7	27	1	..	4.7	6.5	..	2	1	0	0	1	0	0	0	0	0	0
Silchar .	28.1	—1.3	30·4	6	19.0	+1·5	15.5	30	0	3.0	—41.5	1.2	24	0	−2.1	2.3	1.2	—0.4	0	3	0	0	1	0	0	0	0	0	0
Imphal (Tulihal).	25.9	+1.1	28·9	1	11.3	—1.2	6.2	30	14.5	31.8	+3 7	16.7	27	2	+0·5	4.4	2.9	—0.4	0	4	0	0	4	11	0	0	0	0	0
Kailashahar	29.7	..	31.6	1	17.9	..	13.9	30	1.0	81.4	..	37.0	16	4	..	2.9	1.7	..	0	5	0	0	1	15	0	0	0	0	0
Agartala	29.2	+0·4	32.2	13	16·8	−0·6	12.7	30	2.6	102.0	+53.3	58.8	16	4	+2.3	5.6	3.3	0	0	5	0	0	2	2	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra .	29.6	+1.1	31·4	1,2,3	14.0	—0.1	9.4	27	0	0	−6.0	0	..	0	−0.4	4.8	4.3	+1.5	0	0	0	0	0	0	0	0	0	6	0
Jalpaiguri .	29.2	+1.4	31.8	2	17.1	+1.1	13.6	28	0	1.6	−10.9	1.6	4	0	−0.8	4.0	3.0	+1.4	0	1	0	0	0	1	0	0	0	0	0
Cooch Behar .	28.7	..	31.8	3	15 5	..	11.6	8	0.8	0.8	−10.6	0 8	20	0	—0.8	5.1	2.2	..	0	1	0	0	0	9	0	0	0	0	0
Balurghat .	29·9	..	32.2	5	16.4	..	11.5	21	0	0	..	0	..	0	..	4.5	2.8	..	0	0	0	0	0	1	0	0	0	0	0
Malda . .	29.0	+1.1	31.2	4	17.5	+1.3	10.2	30	0	0	—11.4	0	..	0	−0.7	3.1	1.9	—2.0	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore .	29.4	+1.2	31.6	1	17.6	0	12.8	30	0	0	—16.5	0	..	0	—0.7	2.1	1.4	−0.2	0	0	0	0	0	0	0	0	0	0	0
Suri . .	28.9	..	31.3	3	17.5	..	11.2	30	..	0	..	0	..	0	..	..	4.7	..	0	0	0	0	0	0	0	0	0	0	0
Asansol .	29·8	+1.0	32·1	5	15.7	+0.1	10.8	30	0	0	—14·5	0	..	0	−1.0	7.8	4.8	−0.2	0	0	0	0	0	0	0	0	0	0	0
Shanti Niketan	28·6	..	31.5	4	16.7	..	12.4	21	0	0	..	0	..	0	..	6.6	5 5	..	0	0	0	0	0	0	0	0	0	0	0
Krishnanagar .	30·9	+1·8	33·3	1	17·5	+0·7	11·4	30	0	0	—24·9	0	..	0	—1·2	2·1	1·5	—0.4	0	0	0	0	0	0	0	0	0	0	0
Purulia .	27.6	—0.5	30.4	3	15.0	—1.6	11.6	29	0	0	—19.0	0	..	0	—1.1	5.6	3.9	+0·7	0	0	0	0	0	0	0	0	0	0	0
Bankura .	29·5	..	31.6	2,5	17·0	..	13·2	22	0	0	—16.5	0	..	0	—1.1	5.2	4.5	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan .	29·5	+0.7	33.0	4	..	..	..	..	0	0	—21.8	0	..	0	—1.0	6·1	3·5	+1·6	0	0	0	0	0	0	0	0	0	0	0

(b) Mean or total for 29 days. (c) Mean or total for 28 days. (d) Mean or total for 27 days.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—NOVEMBER, 1964 (KARTIKA 10—AGRAHAYANA 9, 1886 SAKA)

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy day (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a	20(b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*Contd.*)																													
Barrackpore (Aerodrome).	29·2	..	31·2	1,4	18·4	..	12·3	30	1·5	2·7	..	1·5	17	0	..	..	..	..	0	2	0	0	0	2	0	0	0	0	0
Calcutta (Dum Dum.)	29·2	+0·2	31·7	2	18·4	+0.7	13·8	3	14·3	48·0	+19·4	27·5	16	3	+1·9	5.8	3·0	−0·9	0	3	0	0	1	4	0	0	0	0	0
Calcutta .	29·8	+0·8	31·8	5	19·1	+1·5	13·9	30	5·6	27·7	+7·1	23·1	16	2	+0·9	7.5	4·1	+1·0	0	2	0	0	1	1	0	0	0	0	0
Midnapore .	28·3	−0·8	31·1	1	17·5	+0·1	13·1	29	1·2	2·2	−19·9	1·2	17	0	−1·1	6.7	4·2	+2·1	0	2	0	0	0	0	0	0	0	0	0
Contai . .	29·0	+0·1	31·4	1	18·7	−0·1	13·9	22	2·0	11·0	−49·0	9·0	16	1	−1·2	4·5	2·3	−0·7	0	2	0	0	0	0	0	0	0	0	0
Sagar Island	27·9	0	31·1	1	21·7	+2.0	17·6	29	42·1	58·2	+25·7	57·2	16	1	−0·3	14·5	10·8	+1·9	0	2	0	0	2	2	0	0	0	0	0
Sandheads .	29·1	..	33·0	2	23·7	..	21·1	16	14·6	50·5	−19·4	18·5	17	5	+2·5	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada .	29·5	..	32·3	3	16·2	..	11·7	30	1·8	1·8	..	1·8	17	0	..	5·2	2·6	..	0	1	0	0	0	0	0	0	0	0	0
Jharsuguda .	29·2	+0·1	32·0	2	15·4	+0·3	11·2	30	0	0	−6·5	0	..	0	−0·7	9·3	7·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Keonjhargarh.	26·4	..	29·6	1	..	..	..	..	3·1	7·1	..	4 0	16	2	..	4·5	3 4	..	0	2	0	0	0	0	0	0	0	0	0
Balasore .	28·9	−0·2	31·6	3	16·9	−0·4	12·5	30	3·8	5·1	−33·0	3·8	17	1	−0·5	8·0	4·9	+2·3	0	2	0	0	0	0	0	0	0	0	0
Sambalpur .	29·3	+0·5	32·0	4	15·1	−1·2	10·7	30	0	0	−20·6	0	..	0	−1·0	5·6	3·7	+0·3	0	0	0	0	0	0	0	0	0	0	0
Angul . .	28·8	0	31·3	2,10	17·7	+0·9	12·7	30	0	3·4	−24·8	3·4	18	1	−0 4	7·0	4·9	+0·1	0		0	0	0	0	0	0	0	0	0
Cuttack .	31·1	+1·7	33·9	1	19·4	+0·6	14·4	30	0	0·2	−40 9	0 2	16	0	−1·6	6·8	3·7	+1·8	1	0	0	0	0	0	0	0	0	0	0
Chandbali .	29·0	+0·1	31·9	1,3	17·4	−1·2	12·5	30	30·0	31·4	−10·5	31·4	17	1	−0·5	9·4	6·2	+1·1	0	1	0	0	0	0	0	0	0	0	0
Bolangir .	29·0	..	32·8	2	17·9	..	11·6	29	1·6	1·6	..	1·6	18	0	..	(b) 3·7	(b) 3·6	..	0	1	0	0	0	0	0	0	0	0	0
Phulbani .	27·2	..	30.2	1	14·1	..	6·8	30	0	3·2	..	3·2	18	1	..	1·5	0·7	..	0	1	0	0	0	9	0	0	0	0	0
Titlagarh .	29 0	..	32·3	2	17·4	..	12·0	30	4·0	4 0	..	4·0	19	1	..	4·5	2·9	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar .	29 6	+0·2	32 6	1	18·5	+0·5	13·4	30	2·4	2·4	−48·1	2·4	17	0	−1 6	14·1	10.2	+2·9	0	1	0	0	0	0	0	0	0	0	0
Puri .	29·6	+0·4	31·4	2,5	19·3	−1 4	15 4	23	0	4 2	−76 8	3·6	17	1	−1 4	12·2	8.8	−0 4	0	2	0	0	0	0	0	0	0	0	0
Gopalpur .	29·4	+0·5	31·8	1	19·7	+0·1	14·5	30	0·4	37 4	−62 4	37·4	17	1	−1·8	13·8	9·7	−0 3	0	1	0	0	0	0	0	0	0	0	0
Koraput (R)																													
Bihar Plateau																													
Dumka .	28·8	+0·8	31·4	1,5	15·5	+0·2	10·4	21	0	0	−13·7	0	..	0	−0 8	5·7	3·8	+2·0	0	0	0	0	0	0	0	0	0	0	0
Daltonganj .	27·8	−0·2	31·0	2	12·4	0	9·2	29	4·0	43·0	+28 8	39·0	19	2	+1·2	2·6	2·5	+0·1	0	2	0	0	0	0	0	0	0	0	0
Hazaribagh .	24·3	−1·0	27·8	3	11·7	−2·3	8·2	29	2·3	3·0	−11·2	2 3	20	0	−0·9	9·6	6·7	−0·2	0	2	0	0	0	0	0	0	0	0	0
Dhanbad .	27·9	..	30·5	3,5	17·1	..	14·0	21,29	0	0	..	0	..	0	..	5·1	2 7	..	0	0	0	0	0	0	0	0	0	0	0
Ranchi . .	26·7	+1·4	30·4	5	14 7	+0·7	10·3	20	0	0	−15·5	0	..	0	−1 0	3·3	2·6	−1·7	0	0	0	0	0	0	0	0	0	0	0
Ranchi (Aerodrome.)	24 7	..	29·2	2	13·5	..	10 1	29	0	0	..	0	..	0	..	13·4	9·2	..	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur .	29·3	−0·1	31·4	2,3	18 2	+3·2	12·7	22	0	0	−9·4	0	..	0	−0 7	5·5	3·2	+0 6	0	0	0	0	0	2	0	0	0	0	0
Jameshdpur (P.B.O.)	28·0	..	30·6	3	15·9	..	10·7	30	0	0	..	0	..	0	..	7·8	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Chaibasa .	28·1	−0·2	31·2	3	14·5	−0·9	10·3	29	1 8	1·8	−16·0	18	17	0	−0·1	3·7	2·4	+0·5	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari .	28·9	+1·0	31·4	2,3,5	13·0	−0·3	9·0	21	0	0	−6·1	0	..	0	−0·3	3·7	1·7	−0·9	0	0	0	0	0	0	0	0	0	0	0
Forbesganj .	29.6	..	32·1	3	14·6	..	9·4	30	0	0	..	0	..	0	..	4·5	2·2	..	0	0	0	0	0	1	0	0	0	0	0
Darbhanga .	29·8	+1·5	33·0	2	15·4	+0·1	11·4	29	0	0	−6·9	0	..	0	−0·4	2·1	1·4	0	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur .	..	..	..	..	..	..	..	..	..	0	−7·4	0	..	0	−0 5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra . .	28·8	..	31·4	4	16·0	..	12·5	30	0	0·8	−8·3	0·8	19	0	−0·5	1·3	1·3	..	0	1	0	0	0	0	0	0	0	0	0
Purnea . .	29·2	+1·2	31·9	3	13·8	−1·0	8·5	30	1·2	1·8	−6 8	1·2	20	0	−0·5	4·3	2·1	+0·5	0	2	0	0	0	0	0	0	0	0	0
Patna . .	29·7	+1·9	32·1	4	16·0	−0·1	11·6	29	0·6	1·0	−7·6	0·6	20	0	−0·5	4·4	4·2	+1·8	0	2	0	0	0	0	0	0	0	0	0
Patna Aerodrome.	28.4	..	30·9	4	13·3	..	9·7	30	0·6	1·2	..	0·6	19, 20	0	..	(o) 6·9	(p) 3·9	..	0	2	0	0	0	1	0	0	0	0	0
Arrah . .	..	..	..	..	..	..	..	..	..	0	−9·4	0	..	0	−0·6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur .	29·8	+0·7	32·5	2,4	17·1	+0·4	12·8	21	2·0	2·0	−3·0	2·0	20	0	−0·3	5·2	3·7	+0·3	0	1	0	0	0	0	0	0	0	0	0
Sabaur .	29·2	+1·3	32·0	2,4	13·3	−0·5	8·5	30	2·0	2·0	−7·7	2·0	20	0	−0·7	5·9	2·8	−1·2	0	1	0	0	0	1	0	0	0	0	0
Jamui . .	29·8	..	33·3	5	20·4	..	14·5	10	0	15·0	..	15·0	19	1	..	4·2	3·2	..	0	1	0	0	0	0	0	0	0	0	0
Dehri . .	28·0	..	31·1	4	15·2	..	12·2	23	0	14·4	+2·7	14·4	19	1	+0·3	4·2	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Gaya . .	28·0	+0·6	30·8	4	13·3	−0·6	10·2	21,29	8·4	16·2	+3·7	8·4	20	2	+1·3	5·5	3·7	−1·0	0	2	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri .	29·2	+0·7	32·4	3	12·4	−0·4	9·6	29	0	0	−1·1	0	..	0	−0·1	0·3	1·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bahraich .	29·7	+1·4	32·6	2,5	12·5	−0·9	8·7	22	0	0	−7·1	0	..	0	−0·5	4·4	2·3	+0·4	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 20 days (R) Register not received

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—(Contd.)																													
Nautanwa	30·6	..	33·0	2,3	10·9	..	7.2	20	0	0	..	0	..	0	..	1·0	1·5	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	28·9	−0·2	32·4	3	10·5	−1·7	7·5	23	0	0	−1·9	0	..	0	−0·2	3·1	2·9	−0·2	0	0	0	0	0	0	0	0	0	0	0
Gonda	29·2	+0·5	32·5	3	11·1	−1·6	7·3	22	0	0	−5·1	0	..	0	−0·5	3·3	3·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Lucknow	28·6	−0·2	32·0	6	10·9	−1·4	7·9	23	0	0	−5·6	0	..	0	−0·4	0.3	1·6	+0·2	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi).	28·8	+0·7	32·0	6	9·7	−0·7	6.8	23	0	0	−5·6	0	..	0	−0·4	6·0	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	29·7	..	32·6	3,7	12·0	..	8·4	22	0	0	..	0	..	0	..	0·1	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	30·0	+2·2	34·0	4	13·8	−0·3	9·9	20,21	0	0	−4·8	0	..	0	−0·3	..	..	..		0	0	0	0	0	0	0	0	0	0
Kanpur	28·9	+0·7	33·7	6	11·9	−0·3	7·7	22	0	0	−8·9	0	..	0	−0·4	8·5	4·4	+0·4		0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome).	29·0	..	33·3	6	11·3	..	7·8	22	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	29·5	..	32·5	3	11·1	..	7.9	23	0	0	..	0	..	0	..	2·4	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	30·4	..	33.9	3	13·1	..	9·6	23,24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	29·6	+0·2	33·5	6	10·5	−2·1	6.7	22	0	0	−2·3	0	..	0	−0·4	5·1	2·8	+0·4	0	0	0	0	0	0	0	0	0	0	0
Ballia	29·5	..	32·0	3,4,6	11·6	..	8·1	23	0	0	..	0	..	0	..	2·6	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Banda	30·0	..	33·0	3,5,6	11·9	..	8·4	24	0	0	..	0	..	0	..	1·6	0·9	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Banthrauli)	29·6	+1·0	33·0	6	12·3	−0·1	8·6	23	0	0	−7·9	0	..	0	−0·5	0·6	1·3	−0·9	0	0	0	0	0	0	0	0	0	0	0
Varanasi (Babatpur).	29·1	+0·7	32·5	2	11·6	−1·2	7·3	24	0	0	−14·9	0	..	0	−0·2	2·8	4·3	−0 8	0	0	0	0	0	0	0	0	0	0	0
Varanasi	29·1	+0·8	32·7	7	11·2	−2·1	7·2	23	0	0	−9·4	0	..	0	−0·6	4·2	2·3	−0·3	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Mukhim	18.4	..	24.5	1	7·5	..	4·8	20	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tehri	26.3	..	29.9	3	7.6	..	5.2	30	0	0	..	0	..	0	..	5.8	1.2	..	0	0	0	0	0	0	0	0	0	0	0
Dehra Dun	25·2	+1·1	29·2	2	8·7	−1·9	6·8	20 28, 29	0	0	−8·9	0	..	0	−0·7	3·0	2·5	−0·4	0	0	0	0	1	0	0	0	0	0	0
Mussiari	14.8	..	20 8	1	2.5	..	−1.0	20	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	27·2	+0·8	30·8	2	11·1	+1·3	9·6	28	0	0	−5·8	0	..	0	−0·5	3·4	1·8	+0·2	0	0	0	0	0	0	0	0	0	0	0
Najibabad	28·3	..	32·5	2	9.7	..	7·3	21,30	0	0	..	0	..	0	..	2·1	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Meerut	29·1	+1·5	33·0	5	8·7	−1·8	5·9	23	0	0	−3·3	0	..	0	−0·3	..	3·2	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	29·5	+1·6	34·0	2	11·8	−0·1	9·1	23	0	0	−4·6	0	..	0	−0·3	5·6	3·6	+2·3	0	0	0	0	0	5	0	0	0	0	0
Aligarh	26·7	−2·0	32·0	5	10·9	−1·4	8·2	23,24	0	0	−0·8	0	..	0	−0·1	6·3	4.4	−0·3	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	29·6	+0·4	34·0	6	..	..	..	..	0	0	−3·8	0	..	0	−0·3	0·7	..	..	0	0	0	0	0	0	0	0	0	0	0
Agra	28·8	−0·3	33·0	5	10·4	−0·7	6·9	23	0	0	−3·6	0	..	0	−0·3	2·0	1·9	−1·5	0	0	0	0	0	0	0	0	0	0	0
Agra (Aerodrome).	28·6	..	31·6	5	9·2	..	6·0	24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orai (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jhansi	29.1	−0·6	34·0	6	10·5	−2·2	7·5	23,24	0	0	−7·4	0	..	0	−0·5	3·3	3·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	25·9	0	28·4	1	7·1	−1·7	5·5	20,21, 26	0	0	−10.0	0	..	0	−0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Amritsar (Rajsausi)	27·0	+0·5	29·9	1	7·0	−1·3	5·1	23	1.1	0	−7·1	0·3	30	0	−0·6	5·1	4·4	−0·8	0	1	0	0	0	0	0	0	0	0	0
Adampur (Aerodrome.)	27·4	..	29·6	2	5·6	..	3·7	21	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ludhiana	27·8	+0·4	30·6	13	7·8	−2·8	5·7	21	0	0	−3·3	0	..	0	−0·4	2·2	1·8	+0·5	0	0	0	0	1	0	0	0	0	0	0
Ferozepore	26·8	..	30·8	13	7·9	..	6·0	21,24, 26	0	0	..	0	..	0	..	2.0	1·4	..	0	0	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome).	26·3	..	29·2	12	6·0	..	3·6	23,24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Chandigarh	27·1	+0·1	30·5	1	10·9	+0·6	8·4	21	0	0	−5·4	0	0	0	−0·4	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	28·9	+2.1	31·8	15	9·5	−0·4	7·4	28	0	0	−4·8	0	0	0	−0·4	8·6	7·2	+4·3	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome).	26.9	..	30·2	1	6·6	..	4·6	22	0	0	..	0	0	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	28·1	..	30·8	2	9·4	..	6·6	21	0	0	−0·3	0	0	0	0	6·5	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	27·7	..	32·4	12	6·5	..	4·0	21,23	0	0·2	..	0·2	30	0	..	0·7	3·5	..	1	0	0	0	0	0	0	0	0	0	0
Karnal	26·6	..	30·0	2	9·0	..	7·0	23,24	0	0	..	0	0	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	28·6	−0·5	32·0	13	8·5	−1·4	5·5	24	0	2·1	+0·6	2.1	30	0	−0·2	4.2	4·2	−0·1	0	0	1	0	0	0	0	0	0	0	0
New Delhi (Safdarjang)	27·7	−1·1	31·5	5	10·6	−0·8	8·6	21	0	0	−2·5	0	0	0	−0·3	8·6	3·7	−1·3	0	0	0	0	0	2	0	0	0	0	0
Palam (Aerodrome).	27·4	..	30·7	5	9·2	..	6·7	24	0	0	..	0	0	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Himachal Pradesh.																													
Mandi	25·4	+1·0	29·4	1	5·9	−0·9	4·4	2	0·2	2·4	−5·3	4	19	0	−0·4	0 1	1·0	−0·6	0	1	0	0	0	0	3	0	0	0	0
Bilaspur	31·2	..	34·8	20	11·1	..	8.9	1	0	0		0	0	0	..	0·6	1·5	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall in 24 hours	Dat	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0 2 mm.)	Precipitation (0.3 m m. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	0	—12·5	0	..	0	—1·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonamarg	..	..	..	..	..	..	..	..	..	0·2	—39·2	0·2	30	0	—2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	9·1	+0·9	17·3	1	—7·7	—1·3	—10·1	24	0	0	—1·0	0	..	0	—0·2	6·7	5·4	+2·3	0	0	0	0	0	0	0	0	0	0	0
Srinagar	16·1	—0·8	20·8	1	—2·1	—1·5	—3·7	24	5·8	3·1	—8·1	3·1	30	1	—0·1	3·9	3·5	+0·6	0	1	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome).	15·3	..	22·2	1	—0·4	..	—2·6	20	6·0	3·8	..	3·8	30	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Gulmarg	Closed during winter months																												
Qazigund	16 3	..	22 1	1	—0·9	..	—2·7	20	11·0	1·7	..	1·7	30	0	..	3·1	2·4	..	0	1	0	0	1	0	0	0	0	0	0
Banihal	19·2	..	24·5	1	0·9	..	—0·7	23	27·0	5·9	..	4·1	30	1	..	..	..	..	0	2	1	0	0	0	0	0	0	0	0
Jammu	27·4	+1.8	30·3	1	11·0	—2·4	9·1	20	0	0	—6·6	0	..	0	—0·6	9·0	8·6	..	0	0	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome).	25·9	..	28·9	1	11·4	..	9·4	28	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	29·1	—0·1	33·2		7·7	—3·5	5·6	21	0	4·5	+1·5	4·5	30	1	+0·8	2·9	1·5	—1·0	0	0	0	0	0	0	0	0	0	0	0
Anupgarh (R)																													
Mahajan	30·1	..	34·0	2	..	..	..	..	0	0	..	0	..	0	..	3·1	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Churu	29·1	..	33·2	2	7·8	..	5·1	24	0	0	..	0	..	0	..	6.1	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Bikaner	30·5	—0·4	34·8	1,12	7·4	—3.3	4·7	24	0	0	—1·3	0	..	0	—0·1	3·3	1·4	—2.6	0	0	0	0	0	0	0	0	0	0	0
Nagaur	30·4	..	34·9	1	11·8	..	8·1	7	0	0	..	0	..	0	..	4·7	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	30·5	..	34·6	2	9·9	..	7·6	19	0	0	—0·8	0	..	0	—0·1	6·5	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	30·7	..	34·5	12	9·9	..	6·0	21	0	0	..	0	..	0	..	8·6	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	31·4	+0·5	37·2	2	13·1	—0·1	10·1	7,21	0	0	—2·8	0	..	0	—0·2	5·5	5·1	—2·1	0	0	0	0	0	0	0		0	0	0
Barmer	31·6	—0·3	36·0	1	14·9	—1·2	11·5	12	0	0	—0·8	0	..	0	—0·2	3·3	4·6	—1·2	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	31·7	..	36·0	2	12·1	..	7·9	7,20	0		..	0	..	0	..	0·4	1·5	..	0	0	0		0	0	0	0	0	0	0
Munabao	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																													
Pilani (R)																													
Sikar	27·8	..	33·0	3	6·4	..	3·2	6,7	0	0	..	0	..	0	..	0·3	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	28·8	..	32·6	4	10·2	..	7·4	29,21	0	0	..	0	..	0	..	0·3	0·9	..	0	0	0	0	0	0	0	0	0	0	0
Jaipur (Sangner)	28·8	—0·5	33·0	1	11·0	—1·1	6·8	20	0	0	—3·6	0	..	0	—0·3	1·0	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	29·1	..	33·4	4	8·6	..	4·5	29	0	0	..	0	..	0	..	0·3	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Ajmer	29·5	+0·8	33·4	1	9.4	—2.1	6·3	21	0	0	—4·8	0	..	0	—0·4	1·1	2·2	+0·3	0	0	0	0	0	0	0	0	0	0	0
Tonk	30·0	..	34·2	1	11·5	..	8·4	7	0	0	..	0	..	0	..	4·1	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Bhilwara	29·3	..	34·2	2,4	10·4	..	7·3	5	0	0	..	0	..	0	..	2·3	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome).	29·9	..	35·2	5	12·8	..	9·4	21	0	0	..	0	..	0	..	6·2	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Kota	30·3	—0·1	35·1	5	13·8	—1·3	8·7	24	0	0	—5·8	0	..	0	—0·6	0·3	0·9	—0·7	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam).	29·9	..	34·9	2,4	11·4	..	8·5	26	0	0	..	0	..	0	..	2·6	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	29·3	—0·4	34·2	1	9·2	—3·1	6·4	24	0	0	—2·8	0	..	0	—0·3	1·1	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	29·9	+0·6	34·5	4.5	15·0	+2·9	13·8	14	0	0	—18·5	0	..	0	—1·1	2·9	2·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	28·6	—1.0	32·3	4,5	8·6	—2·0	5·1	24	0	0	—3·6	0	..	0	—0·4	6·1	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Sheopur	29·5	+0.1	34·5	4	9·5	—1·5	6·4	21,24, 26	0	0	—4·4	0	..	0	—0·4	6·1	4·6	+0·5	0	0	0	0	0	0	0	0	0	0	0
Shivpuri	27·9	..	33·0	5	7·1	..	3·5	24	0	0	..	0	..	0	..	4·3	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	28·7	+0·5	33·6	6	9·1	—2·5	5·4	22	0	0	—10·9	0	..	0	—0·7	4·3	1·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Guna	29·2	+0.4	33·8	5	8·0	—2·6	4·1	25	0	0	—22·1	0	..	0	—0·8	7·7	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Nimach	29·2	0	33·8	1,2	12·1	—0·7	9·0	25	0	0	—7·9	0	..	0	—0·4	6·5	4 9	—0·4	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	29·5	..	34·2	5	9·9	..	5·6	24,26	0	0	..	0	..	0	..	6·7	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	27·8	—0.3	31·2	6,8	15·4	+0·4	10·6	25	0	0	—16·0	0	..	0	—0·9	7·6	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Ratlam	30·4	+0·2	35·5	1	13·0	—1·3	8·2	27	0	0	—3·0	0	..	0	—0·3	9·5	7·6	+1·5	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	27·9	—0.5	32·2	1	12·0	—0·7	7·9	25	0	0	—25·7	0	..	0	—1·2	9·1	6·8	+0·8	0	0	0	0	0	0	0	0	0	0	0
Ujjain	29·4	..	34·0	1,4	8·7	..	5·0	27	0	0	..	0	..	0	..	8.6	4·8	..	0	0	0	0	0	2	0	0	0	0	0
Narsinghpur	28·6	..	32·4	1	8·7	..	4·0	23,24	0	0	..	0	..	0	..	4·3	2·3	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received.

†Data for less than 15 days Hence on Means.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2mm)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West)—(*Contd.*)																													
Hoshangabad.	29·0	−0·2	32·9	9,10	13·5	−1·2	8·0	26	0	0	−17·0	0	..	0	−0·9	5.6	4·1	+1·5	0	0	0	0	0	0	0	0	0	0	0
Indore . .	28·5	−0·6	32·8	1	11·7	−0·3	8·5	26	0	0	−15.5	0	..	0	−0·9	10.6	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua).	31·2	..	35·8	1	12·5	..	7·8	27	0	0	..	0	..	0	..	5.1	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara .	27·7	+0·1	31·4	2,3	11·6	0	6·6	23	0	0	−18·0	0	..	0	−0·3	5.3	3·1	−0·8	0	0	0	0	0	0	0	0	0	0	0
Seoni . .	27·2	−0·2	31·0	3	12·5	−0·4	7·8	24	0	0.2	−17·1	0.2	19	0	−1·0	9.0	5·2	+1·7	1	0	0	0	0	0	0	0	0	0	0
Betul . .	27·1	−0·4	30·5	1	10·8	−1·2	4·5	25	0	0	−28·9	0	..	0	−1·2	6.3	3·6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Khandwa .	31·2	+0·2	35·0	1	12·2	−1·4	6·0	25	0	0	−19·3	0	..	0	−1·0	7.7	4·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna . .	28·4	+0·7	31·4	2,4	11·3	−1·0	6·9	23	0	0	−8·9	0	..	0	−0·7	2.5	2·5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Sidhi . .	28·6	..	31·9	1	10·7	..	5·6	23	0	0	..	0	..	0	..	4.2	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Umaria .	27·0	−0·5	30·1	3	10·1	−1·1	5·9	23	0	0	−16·3	0	..	0	−0·7	4.9	2·6	+0·2	0	0	0	0	0	1	0	0	0	0	0
Jabalpur .	28.4	+0·5	31·7	6	11·0	−0·3	6·6	24	0	0	−10·9	0	..	0	−0·9	5.8	3·2	+1.3	0	0	0	0	0	1	0	0	0	0	0
Ambikapur .	25·4	−0·6	29·0	2	11·0	+0·5	7·8	23	9·2	13·0	+11·9	9·2	20	2	+1·9	9·2	5·2	−0·6	0	2	0	0	0	1	0	0	0	0	0
Pendra . .	24·9	−0·4	28·3	2	13·0	+0·1	9·2	22,24	7·6	18·0	−0·3	10·8	19	2	+0·7	5.9	4·2	..	0	3	0	0	0	1	0	0	0	0	0
Mandla .	27·5	−0·6	31·0	1	10·0	+0·1	5·3	23	1·6	2·6	−5·3	2·6	19	1	+0·8	4.4	2·4	+0·8	0	1	0	0	0	0	0	0	0	0	0
Champa .	28·7	−0·5	31·8	1	14·8	−1·5	11·1	29	1·2	2·8	−2·9	1·6	20	0	−0·6	5.1	5·1	−0·2	0	2	0	0	1	0	0	0	0	0	0
Raigarh .	29·4	−0·4	32·4	1	16·5	+0·1	11·8	30	0	0	−0·7	0	..	0	−0·1	5·4	4·2	+0·4	0	0	0	0	0	0	0	0	0	0	0
Raipur . .	28·1	−0·6	30·9	10	15·6	−0·3	11·6	23	0	0	−13·5	0	..	0	−1·1	7.2	4·8	+1·6	0	0	0	0	0	0	0	0	0	0	0
Kanker . .	27·6	−0·7	30·5	2	15·2	+1·3	10·0	23	0	0	−9·7	0	..	0	−0·8	3.7	2·7	−0·4	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur .	28·3	+0·6	31·2	2,3	15·8	+0·8	10·1	30	0·4	1·0	−28·0	0·6	17	0	−1·9	5.7	3·4	..	1	2	0	0	0	3	0	0	0	0	0
Gujarat Region																													
Deesa . .	35·1	..	38·4	2	..	..	..	..	0	0	..	0	..	0	..	7·8	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Radhaupur .	32·8	..	38·0	2	13·1	..	9·5	27	0	0	..	0	..	0	..	5·4	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Idar . .	32·2	..	36·8	2	16·8	..	10·0	27	0	0	..	0	..	0	..	6·7	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad .	33·2	−0·1	37·6	2	14·2	−1·9	10·0	27	0	0	−3·6	0	..	0	−0·4	8·3	4·3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Dohad . .	31·3	−0·2	35·5	2,3	14·5	−0·6	10.3	27	0	0	−11·1	0	..	0	−0·6	6·6	5·1	−1·7	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidya-Nagar	33·0	..	37·4	2	13·9	..	8·3	27	0	0	..	0	..	0	..	8·8	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	34·0	..	38.8	1	14·8	..	9·9	25	0	0	..	0	..	0	..	7·5	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Baroda . .	34·4	+1·0	38·6	1,2	15·4	+1·1	10·6	27	0	0	−5·2	0	..	0	−0·4	1·7	0·6	−2·0	0	0	0	0	0	0	0	0	0	0	0
Broach . .	35·2	+0·1	39·1	1	16·5	−0·7	11·7	26	0	4·0	+2·8	4·0	1	1	+0·9	4·2	3·3	−1·3	0	1	0	0	0	0	0	0	0	0	0
Surat . .	35·2	+1·9	38·6	1	19·5	+1·2	13·8	26	0	0	−8·1	0	..	0	−0·5	7·7	6·4	+1·9	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya . .	32·6	..	38·2	1	10·4	..	7·4	7	0	0	..	0	..	0	..	8·2	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	32·0	+0·1	36·5	2	12·9	−2·5	9·5	9	0	0	−2·0	0	..	0	−0·2	10·6	7·8	−0·2	0	0	0	0	0	0	0	0	0	0	0
Kandla (Aerodrome)	32·6	..	37·1	1	15·4	..	..	..	0	0	..	0	..	0	..	14·8	15·9	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla .	30·4	..	35·0	1	17·7	..	15·3	20,23	0	0	..	0	..	0	..	10·4	11·1	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi .	30·3	−0·2	36·0	2	17·5	−1·7	12·0	24	0	0	−1·8	0	..	0	−0·5	14·7	14·7	+0.9	0	0	0	0	0	2	0	0	0	0	0
Surendranagar	33·0	+0·2	37·9	2	17·1	−0·8	14·5	26	0	0	−1·1	0	..	0	−0·1	(b) 6·8	(c) 5·6	−1·1	0	0	0	0	0	0	0	0	0	0	0
Okha . .	27·6	..	29·9	15	21·9	..	19·0	29	0·3	0·3	..	0·3	30	0	..	12.3	15·1	..	0	1	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	31·0	−1·7	35·7	2	14·2	−0·9	10·4	24	0	0	−1·5	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka .	30·7	+0·1	34·3	14	18·4	−2·0	16·6	9	0	0	−2·0	0	..	0	−0·1	14·4	10·7	−1·0	0	0	0	0	0	0	0	0	0	0	0
Rajkot . .	32·9	+0·2	37·6	2	15·4	−0·8	11·6	25	0	0	−2·8	0	..	0	−0·3	14·3	10·3	−0·3	0	0	0	0	0	1	0	0	0	0	0
Bhavnagar (Aerodrome)	32·2	+0·6	37·4	3	17·3	−0.7	13·0	27	0	0	−6·6	0	..	0	−0·3	14·7	11·9	+2·2	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	33·5	+0·5	37·4	2	17·4	−2.6	12·7	23,25	0	0	−11·3	0	..	0	−0·3	14·4	11·1	..	0	0	0	0	0	0	0	0	0	0	0
Keshod .	34·0	.	37·8	2	15·7	..	11·4	28	0	0	..	0	..	0	..	13·9	12·1	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva .	34·0	..	37·4	5	17·5	..	15·0	28	0	0	..	0	..	0	..	7·8	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Veraval .	33·2	..	37·7	4	18·5	..	14·0	28	0	0	−4·3	0	..	0	−0·2	16·4	13·0	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu .	31·6	−0·1	35·2	2,3	20·2	+0·2	15·4	7,28	0	1.2	−29·5	1·2	11	0	−0·7	(c) 15·4	(c) 10·6	+0·5	0	1	0	0	0	0	0	0	0	0	0
Bombay (Santa-Cruz)	33·0	+0·7	36·7	14	19·9	+1·2	14·6	26	0	15·8	+1·0	13·8	11	1	+0·3	9·4	6·4	..	1	2	0	0	2	2	0	0	0	1	0
Bombay	32·4	+0·5	35.4	2	22·9	+0·4	18·3	30	0	1·4	−12·1	1·1	1	0	−0·8	9·3	7·7	−2·4	0	2	0	0	0	0	0	0	0	1	0
Alibag . .	31·2	−0·1	33·4	10	21·1	+0·2	15·9	27	..	0·6	−38·8	0·6	10	0	−1·4	..	7·5	+0·3	0	1	0	0	0	0	0	0	0	0	0
Bhira . .	34·6	..	37·0	4	18.6	..	12·1	27	30·4	64·4	..	38·8	13	3	..	3·4	2·0	..	0	3	0	0	2	2	0	0	0	0	0

(b) Mean of 29 days (c) Mean of 28 days.

Sub-Division and station	Air temperature in °C: Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, Kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Konkan—(contd.)																													
Harnai	30.9	+0.1	34.0	2	24.4	+0.5	21.0	28	0	0	−25.2	0	..	0	−1.5	12.3	10.4	−0.8	0	0	0	0	3	0	0	0	0	0	0
Ratnagiri	31.8	..	33.7	3	20.7	..	15.5	27	8.2	32.2	+36.5	35.8	2	2	+0.7	9.6	6.7	..	0	3	0	0	2	0	0	0	0	0	0
Devgarh	30.4	−1.5	32.9	4 days	22.7	0.0	18.6	26	0	12.2	−17.6	4.1	2	3	+1.1	12.7 (k)	9.6 (m)	−0.6	0	4	0	0	2	0	0	0	0	0	0
Vengurla	31.8	−0.9	33.4	17	20.5	−0.2	14.1	27	14.6	35.0	+3.6	14.3	2	2	+0.4	8.2	4.6	..	0	5	0	0	8	0	0	0	0	0	0
Panjim	32.0	..	33.7	23	20.6	..	15.3	26	6.9	37.6	..	7.4	23	3	..	9.4	7.6	..	1	4	0	0	7	0	0	0	0	0	0
Marmugao	30.7	..	33.4	3	22.5	..	13.3	26	0	17.9	..	10.9	23	2	..	11.1	9.1	..	0	3	0	0	6	0	0	0	0	0	0
Dabolim (R) Naval Air station																													
Madhya Maharashtra																													
Nandurbar	33.3	..	37.6	1	17.9	..	10.6	27	0	0	..	0	..	0	..	2.0	1.1	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	32.1	+0.1	35.3	1	14.4	−0.4	6.9	27,28	0	0	−18.8	0	..	0	−1.9	11.2	8.8	+1.7	0	0	0	0	0	0	0	0	0	0	0
Malegaon	31.7	+0.8	39.4	5	13.5	0.3	7.4	23	7.2	7.2	−11.9	7.2	11	1	−0.2	7.3	.2	+0.1	0	1	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	30.6	..	33.7	5	13.2	..	5.1	27	0.3	1.6	..	7.9	11	2	.	8.5	4.8	..	0	4	0	0	2	0	0	0	0	0	0
Ahmednagar	30.5	+1.0	34.4	1,2	..	..	..	..	29.0	51.0	+22.8	32.6	10	3	+0.6	9.0	5.5	−1.1	0	4	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	15.6	−5.7	15.6	13	1	−0.7	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	30.2	.	32.9	2	16.2	..	9.2	29	1.0	0.2	..	15.7	12	1	.	..	..	..	0	2	0	0	2	0	0	0	0	2	0
Poona	29.6	−0.1	32.5	1	15.3	−0.3	4.6	23	5.1	33.1	−7.0	16.2	12	2	+0.4	5.5	2.3	..	0	3	0	0	2	0	0	0	0	0	0
Jeur	30.6	−0.5	33.8	4,6	15.3	0.1	6.1	23	1.9	10.9	−11.9	9.0	12	1	−0.1	3.8	5.5	+0.2	0	2	0	0	2	0	0	0	0	0	0
Baramati	30.5	+0.7	33.4	5	16.1	−0.3	9.5	20	.	6.2	−36.3	6.8	12	1	−0.3	8.4	6.2	−0.5	0	1	0	0	1	0	0	0	0	0	0
Sholapur	30.1	+0.7	33.3	13	17.[illegible]	+0.[illegible]	10.[illegible]	23	2.6	13.0	−19.9	10.3	2	2	−0.3	11.2	8.0	−1.8	0	2	0	0	0	0	0	0	0	0	0
Miraj	30.1	+0.6	32.0	1,5,12	16.[illegible]	0.0	7.0	27	0	92.4	+46.2	41.2	13	3	+1.5	*	..	..	0	5	0	0	2	0	0	0	0	0	0
Kolhapur	30.1	+0.1	32.6	12	16.[illegible]	+0.1	9.7	27	0.5	11.5	−21.0	5.5	13	2	−0.6	11.3	7.9	−0.8	0	3	0	0	1	0	0	0	0	0	0
Marathwada																													
Aurangabad	30.9	+0.8	35.0	4	15.6	0.1	9.5	23	6.2	12.2	−11.9	8.4	12	2	+0.7	8.0	6.5	−0.9	0	2	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	30.2	..	33.7	4	14.4	..	4.5	23	14.0	21.1	..	8.7	11	3	..	8.7	4.2	..	1	4	0	0	2	0	0	0	0	0	0
Parbhani	30.0	−0.4	33.2	4	14.2	−0.4	9.6	23	0	0	−30.7	0	..	0	−1.6	9.6	5.1	+0.1	0	0	0	0	0	0	0	0	0	0	0
Nanded	31.5	..	34.2	4	15.5	..	7.5	26	0	0	..	0	..	0	..	(c) 6.4	(e) 4.5	..	0	0	0	0	0	0	0	0	0	0	0
Bir		..	..	..	14.4	..	7.5	26	0	6.5	..	4.5	9	2	..	6.5	3.6	..	0	2	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	28.7	−0.4	33.8	2	15.5	0.1	11.4	25,26	0.5	5.5	−14.5	5.2	18	1	−0.1	6.3	6.1	−2.5	0	2	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	29.1	−0.8	32.2	1	14.0	0.1	8.6	27	5.1	5.1	−14.5	5.1	19	1	−0.1	12.7	9.0	..	0	1	0	0	0	0	0	0	0	0	0
Amravati	30.6	+0.3	33.0	1	17.[illegible]	0.3	11.7	27	0	0	−16.8	0	..	0	−1.0	10.2	9.0	+3.7	0	0	0	0	0	0	0	0	0	0	0
Akola Aerodrome	30.6	..	34.1	1	14.3	..	8.4	25	0	.	..	0	..	0	.	10.9	8.1	..	0	0	0	0	0	0	0	0	0	0	0
Akola	30.8	−0.3	34.2	1	14.8	+0.1	8.2	25,27	0	0	−18.5	0	..	0	−1.0	5.5	4.1	−0.1	0	0	0	0	0	0	0	0	0	0	0
Bramhapuri	29.5	..	34.0	13	15.7	..	10.4	28	0	0	..	0	..	0	..	7.2	3.9	..	0	0	0	0	0	0	0	0	0	0	0
Buldana	28.5	+0.4	32.0	1,2,3	16.1	−0.2	12.0	25,26, 27	0	0	−22.0	0		0	−1.3	7.3	4.9	−1.0	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	28.9	−0.2	31.6	1	16.4	+0.2	10.9	26	0	0	−4.9	0	..	0	−0.3	11.7	8.7	+1.6	0	0	0	0	0	0	0	0	0	0	0
Chanda	28.8	−0.8	32.1	2	15.0	0	9.2	25	1.2	1.2	−4.4	11.2	18	1	−0.3	8.0	4.6	+2.3	0	2	0	0	0	0	0	0	0	0	0
Pusad	30.4	..	34.4	2	14.4	..	7.8	27	4.0	4.0	..	4.0	20	1	.	8.4	4.9	..	0	1	0	0	1	0	0	0	0	0	0
Sironcha	30.3	+0.1	33.8	1,2	18.1	+1.2	12.3	23,30	0	23.2	+10.3	24.2	18	1	+0.3	6.8	4.2	−1.0	0	1	0	0	0	0	0	0	0	0	
Coastal Andhra Pradesh																													
Kalingapatam	28.8	+0.2	30.6	1	20.9	+0.2	16.0	30	4.5	5.8	−32.3	34.2	17	3	+0.3	13.1	9.4	−0.3	0	5	0	0	1	0	0	0	0	0	0
Vishakhapatnam	29.3	−1.0	32.2	1	22.1	+0.5	17.0	30	39.2	13.9	+21.3	50.7	9	6	+2.1	15.8	10.5	+4.4	0	8	0	0	3	0	0	0	0	0	0
Kakinada	29.0	+0.6	33.2	4,5	21.5	−0.5	18.0	27,28	39.2	14.8	+2.8	42.8	19	8	+3.5	17.2	15.1	+3.8	0	9	0	0	0	0	0	0	0	0	0
Nidadavole	30.3	..	32.4	4	20.9	..	15.5	27	12.0	13.0	..	28.0	8	2	.	7.2	6.8	..	0	4	0	0	0	0	0	0	0	0	0
Rentachintala	30.7	+0.1	34.0	1,4	19.4	−0.4	14.0	26	0	2.0	−28.3	13.0	8	3	−0.6	5.1	3.1	−2.2	0	3	0	0	0	0	0	0	0	0	0
Gannavaram	30.2	−0.5	32.4	2,4	21.5	+0.4	16.3	28	1.6	2.8	−9.9	13.0	8	3	+0.6	16.0	11.6	+1.4	1	7	0	0	4	0	0	0	0	0	0
Nagarjna Konda (R)																													
Masulipatam	29.6	+0.3	31.7	1	21.2	−0.6	16.6	27	18.4	10.6	−44.2	42.2	8	5	+0.3	6.4	4.5	−2.3	0	5	0	0	4	0	0	0	0	0	0
Ongole	29.7	..	31.9	5,6	21.7	..	16.8	26	25.8	19.2	..	43.0	9	10	..	6.8	5.2	..	0	11	0	0	0	0	0	0	0	0	0
Nellore	29.2	−0.4	31.7	5	22.1	−0.1	17.9	27	122.6	30.7	+5.5	78.2	19	12	+3.2	10.2	7.2	+2.4	0	14	0	0	5	0	0	0	0	0	0
Telangana																													
Ramgundam	30.6	−0.1	34.8	3	18.6	+0.7	13.3	26	0	15.2	+4.5	15.2	18	1	+0.2	9.0	4.8	+0.3	0	1	0	0	1	0	0	0	0	0	0
Nizamabad	30.1	+0.3	33.7	3	16.9	+1.1	10.2	27	0	4.4	−3.1	4.4	10	1	−0.1	5.4	4.4	+0.9	0	1	0	0	0	0	0	0	0	0	0
Hanamkonda	29.8	+0.2	33.6	1	17.8	0	12.5	26	0	26.8	−1.1	16.6	1	2	+0.3	10.4	5.9	+1.2	0	3	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	27.9	..	30.7	2	16.9	..	12.2	24,25	0	3.6	..	3.3	8	1	..	..	..	..	0	2	0	0	2	1	0	0	0	0	0
Bhadrachalam	30.8	+0.3	34.6	3,4	19.2	+1.0	12.5	27	0	47.0	+38.4	41.0	9	2	+1.4	4.3	3.3	−1.2	0	2	0	0	0	0	0	0	0	0	0

(c) Mean of 28 days.
(e) Mean of 16 days.

(R) Register not received

(k) Mean of 20 days.
(m) Mean of 18 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telangana—(*Contd.*)																													
Hyderabad (Begampet)	28·5	−0·3	32·2	3	14·6	−1·5	7·4	26	0	6·6	−22·4	3·4	8	2	−0·1	13·5	8·7	+1·0	0	2	0	0	0	1	0	0	0	0	0
Khammam	30·4	..	33.6	4	19·7	..	14·4	29	1·0	8·4	..	4·4	12	2	..	4·4	2·5	..	0	3	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·5	..	32·0	4	17·7	..	11·3	26	0·4	14·8	..	4·8	18	3	..	12·5	9·6	..	0	6	0	0	1	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30·4	−0·7	32·6	1	18·0	−0·8	9·9	27	9·3	12·5	−17·7	7·5	2	1	−1·1	(f) 7·3	(f) 4·9	+1·0	1	4	0	0	0	0	0	0	0	0	0
Nandyal (R)																													
Anantapur	29·7	−0·3	33·0	1	18·9	−0·6	11·8	28	21·0	30·0	−21·1	16·8	2	3	−0·1	9·1	7·3	−1·2	2	7	0	0	1	0	0	0	0	0	0
Cuddapah	29·3	−1·6	32·8	1	20·4	−0·7	13·8	28	57·0	97·4	+7·7	34·6	2	8	+2·8	0·8	0·4	−5·1	0	12	0	0	0	0	0	0	0	0	0
Arogyavaram	25·5	..	28·4	1	16·2	..	10·5	27	45·0	146·5	..	40·5	8	8	..	9·0	5·9	..	0	8	0	0	0	5	0	0	0	0	0
Madras State																													
Madras	28·7	..	31·0	5,10, 15	21·9	..	17·9	28	..	735·0	..	142·8	10	16	..	..	7·4	..	2	17	0	0	5	0	0	0	0	0	0
Madras (Minambakkam)	28·4	−1·3	30·7	6	21·9	−0·3	18·4	23	156·5	723·8	+374.2	137·2	1	15	+3·9	11·7	9·4	−5·6	0	20	0	0	4	0	0	0	0	2	0
Vellore	28·5	−0·5	31·5	18	19·7	−0·9	14·7	28	77·9	382.9	+187·8	98·6	1	11	+2·5	6·4	4·4	+1·2	1	12	0	0	2	0	0	0	0	0	0
Tambaram (Aerodrome)	28·6	..	31·0	6	21·5	..	17·4	28	153·1	598·6	..	147·8	1	14	..	..	..	..	0	18	0	0	9	0	0	0	0	0	0
Tiruppattur	29·1	..	31·5	14	18·5	..	13·0	29	46·4	201·9	..	97·9	8	5	..	4·8	3·3	..	0	5	0	0	0	0	0	0	0	0	0
Mettur Dam R.S.	30·1	..	32·2	13	22·5	..	18·0	7	35·6	170·5	..	40·6	10	9	..	4·6	4·4	..	0	10	0	0	0	0	0	0	0	0	0
Coimbatore	28·6	−0·5	31·7	18	21·7	−0·9	17·3	7	35·6	325·4	−68·8	124·6	1	12	+0·4	9·9	7·6	+1·5	0	14	0	0	5	0	0	0	0	0	0
Kallakkurichchi	29·3	..	31·5	19	21·4	..	18·1	23	28·0	100·0	−73·0	32·6	1	7	−1·4	7·7	5·2	..	1	10	0	0	2	0	0	0	0	0	0
Salem	29·3	−1·3	31·7	15	20·7	0	16·6	29	73·9	293·1	+196·6	62·4	13	12	+5·8	4·5	3·9	−0·3	1	14	0	0	4	0	0	0	0	0	0
Coimbatore (Peelamedu)	29·2	..	30·7	13,27	19·3	..	14·1	27,28	6·9	47·9	..	15·3	12	6	..	8·3	7·7	..	0	10	0	0	7	9	0	0	0	0	0
Coimbatore	29·9	+0·2	31·2	8,13, 15	19·6	−1·0	15·5	27	..	91·3	−11·1	39·0	12	9	+2·2	..	4·6	−1·1	0	11	0	0	1	0	0	0	0	0	0
Nagapattinam	23·7	−0·6	31·7	18	22·9	−0·7	18·5	7	51·4	242·0	−203·5	50·0	1	11	−2·6	10·6	9·4	−0·4	0	16	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	29·9	−0·5	31·6	13,18	22·0	−0·2	18·3	8	17·9	76·6	−71·7	39·8	10	5	−3·5	9·9	7·6	+1·5	1	11	0	0	3	0	0	0	0	0	0
Vedaranniyam	30·4	..	32·4	18	22·5	..	17·0	8	76·9	268·1	..	71·2	1	12	..	6·2	4·4	..	0	13	0	0	0	0	0	0	0	0	0
Atirampattinam	29·9	..	32·0	17,19	22·6	..	19·4	8	36·6	193·6	..	108·0	10	7	..	8·2	5·4	..	0	11	0	0	3	0	0	0	0	0	0
Madurai	30·8	+0·4	33·5	20,21	22·8	0	20·1	29	..	68·6	−76·9	20·0	12	7	−1·0	..	3·5	−3·1	0	8	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	29·5	..	32·5	19	22·8	..	19·8	30	1·6	100·7	..	58·1	13	6	..	6·9	6·5	..	0	10	0	0	4	0	0	0	0	0	0
Tondi	29·9	..	33·0	..	23·5	..	21·0	30	13·8	82·8	..	28·6	2	6	..	12·1	8·8	..	0	9	0	0	3	0	0	0	0	0	0
Pamban	29·3	+0·3	31·8	13,22	24·4	−0·2	22·4	26	9·0	151·7	−146·0	46·7	1	9	−4·0	10·6	8·3	−6.0	0	10	0	0	0	0	0	0	0	0	0
Tuticorin	30·4	+1·3	33·9	20	23·5	−0·3	21·6	30	73·4	155·6	−38·9	46·0	3	7	−2·3	14·1	11·2	−2·6	0	8	0	0	4	0	0	0	0	0	0
Palayancottai	32·5	+1·8	35·0	21	23·3	−0·3	21·8	30	11·3	101·6	−83·2	31·8	1	5	−4·5	9·4	6·8	0	1	8	0	0	1	0	0	0	0	0	0
Kanniyakumari	30·2	..	32·9	24	23·5	..	22·3	5	29·2	72·1	..	20·8	15	8	..	85·3	12·7	..	0	10	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·5	−0·1	34·2	27	22·2	+1·3	17·1	27	2·4	19·0	−34·7	14·0	13	1	−1·8	9·7	6·3	..	0	4	0	0	3	0	0	0	0	0	0
Honavar	31·1	−1·6	33·9	21	21·0	−0·9	16·1	27	0·3	51·4	−4·7	18·3	13	4	+0·9	..	..	..	2	6	0	0	6	0	0	0	0	0	0
Mangalore (Bajpe)	30·7	..	33·4	23	21·3	..	16·1	28	2·2	50·2	..	25·0	1	4	..	8·7	6·2	..	0	8	0	0	4	0	0	0	0	0	0
Mangalore	31·0	0	33·6	24	22·5	−0·6	17·6	28	0·6	42·7	−29·7	15·4	1	4	−0·4	9·8	7·8	+1·4	0	8	0	0	2	0	0	0	0	0	0
Interior Mysore North																													
Bidar																													
Gulbarga (R)	30·4	−0·3	33·8	12	17·1	−0·2	10·4	27	4·2	31·0	+3·1	30·6	12	1	−0·7	(b) 14·0	(c) 9·4	−0·1	0	1	0	0	1	3	0	0	0	0	0
Bijapur	28·6	−1·2	31·9	5	17·8	+0·7	11·4	27	0·4	43·4	+11·1	43·0	12	1	−0·8	6·8	3·4	−0·5	2	1	0	0	0	0	0	0	0	0	0
Raichur	29·9	−0·4	32·6	12	19·1	−0·7	13·2	26	2·0	12·4	−17·1	8·0	12	1	−0·8	11·6	9·5	+0·8	0	3	0	0	0	0	0	0	0	0	0
Belgaum	28·8	−0·6	31·0	11	16·0	−0·8	9·3	28	36·8	37·6	−1·8	21·6	12	3	+0·6	4·1	2·3	−3·8	0	5	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	28·2	..	30·2	11	16·3	..	9·0	28	22·3	25·9	..	15·2	12	2	..	9·1	5·1	..	0	4	0	0	2	0	0	0	0	0	0
Gadag	30·0	+0·6	30·8	22	17·7	−0·5	12·3	27,28	6·9	18·3	−26·9	6·3	12	3	0	8·8	5·6	−1·3	0	4	0	0	0	3	0	0	0	0	0
Interior Mysore South																													
Bellary	29·2	−1·4	32·6	5	19·1	+0·1	11·4	28	10·0	58·0	+8·0	31·0	13	4	+0·9	2·7	2·1	−1·8	0	4	0	0	1	0	0	0	0	0	0
Chitradurga	27·2	−1·2	30·5	5	17·9	−0·4	13·2	27	1·4	35·8	−24·4	18·6	8	3	−0·4	7·1	4·5	−1·5	0	7	0	0	1	1	0	0	0	0	0
Shimoga	28·7	−0·4	31·1	5	16·0	−1·1	8·1	27	1·6	27·2	−22·4	10·2	9	4	+0·7	4·8	(b) 2·3	−1·8	1	5	0	0	0	18	0	0	0	0	0
Agumbe	26·5	..	30·0	19	16·4	..	9·0	27	..	5·8	..	1·4	10	0	..	..	3·7	..	3	7	0	0	0	0	0	0	0	0	0
Balehonnur	26·0	−0·1	29·6	5	15·9	−0·5	9·8	28	..	42·2	−29·9	12·4	5	5	−0·3	..	..	..	0	5	0	0	0	2	0	0	0	0	0

(R) Register not received. (f) Mean of 25 days. (b) Mean of 29 days. (c) Mean of 28 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm. and 0.2 mm.)	Precipitation (2.5 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Interior Mysore South—Contd.																														
Hassan	26·3	−0·8	27·9	5,27,30	15·5	−0·8	9·1	27	6·4	208·8	+131·8	102·4	12	6	+1·4	7·1	4·5	0	0	8	0	0	2	0	0	0	0	0	0
Bangalore	25·6	−0·7	28·3	6	16·6	+0·1	10·9	28	60·3	189·8	+122·0	66·0	8	8	+3·5	7·3	6·1	−1·0	2	10	0	0	1	2	0	0	0	1	0
Bangalore (Aerodrome)	25·3	..	27·3	6	16·2	..	11·2	26	55·9	155·3	..	50·5	8	9	..	..	..	..	0	11	0	0	1	0	0	0	0	0	0
Mysore	27·3	−0·6	29·0	6,16	17·2	−0·8	12·1	28	24·6	196·6	+127·0	71·4	12	9	+4·3	18·6	17·0	+9·0	0	9	0	0	3	0	0	0	0	0	0
Kerala																														
Calicut	30·0	−0·7	31·4	27	22·7	−0·6	18·9	29	42·3	196·0	+37·3	76·0	4	8	+1·8	11·8	9·3	+3·2	0	11	0	0	2	0	0	0	0	0	0
Palghat	30·6	..	33·0	23	22·1	..	18·8	30	21·8	147·6	..	41·0	1	10	..	6·9	4·7	..	0	13	0	0	1	0	0	0	0	0	0
Fort Cochin	29·1	−0·7	30·8	19	23·6	−0·5	21·4	29	13·2	100·9	−69·0	30·5	5	6	−2·4	13·0	9·0	+3·7	0	12	0	0	3	0	0	0	0	0	0
Cochin (Naval Air Station)	29·9	..	30·8	23	22·9	..	20·9	28	11·9	118·8	..	47·2	1	8	..	12·0	9·1	..	0	13	0	0	7	0	0	0	0	1	0
Alleppey	30·4	0	31·5	24	23·4	−0·5	21·1	9	21·0	208·0	−20·7	44·4	6	12	−1·0	14·1	10·7	+2·3	0	15	0	0	2	0	0	0	0	0	0
Punalur	28·8	..	32·9	14,17	21·7	..	19·	30	67·6	180·6	..	25·0	13	14	..	5·5	5·9	..	0	15	0	0	0	0	0	0	0	0	0
Trivandrum	29·4	−0·7	31·0	29	22·6	−0·5	21·0	23	6·6	158·4	−13·9	5·0	1	8	−1·5	12·6	8·2	+4·0	0	14	0	0	7	0	0	0	0	0	0
Trivandrum Aerodrome	29·4	..	30·2	17,19, 29	23·0	..	21·1	28	..	148·8	..	27·6	14	9	..	..	(c) 5·7	..	0	12	0	0	7	0	0	0	0	0	0
Arabian Sea Islands																														
Amini **																														
Minicoy **																														
Hill Stations Excluding Kashmir																														
Dalhousie	19·4	+0·9	22·0	3,10,11	6·5	−1·3	1·0	19	2·0	5·0	−19·1	5·4	19	1	−0·1	2·1	2·6	0	0	1	0	1	1	0	0	0	0	0	0
Dharmsala	20·4	−0·3	22·9	1,2	9·3	−2·1	7·0	22	0	3·2	−11·8	3·2	19	1	−0·2	5·5	4·1	+0·4	0	1	0	0	1	0	0	0	0	0	0
Simla	15·9	+1·3	21·4	3	..	..	..	..	0	0	−13·2	0	..	0	−1·1	3·3	2·2	+0·2	0	0	0	0	0	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	0	−8·1	0	..	0	−0·8	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Lokpal	3·5	..	7·0	9	−3·4	..	−5·7	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Badrinath									Closed	during	winter	months.																	
Joshimath	17·6	..	23·5	1	5·8	..	2·3	20	0	0	..	0	..	0	..	4·0	·1	..	0	0	0	0	0	0	0	0	0	0	0
Mussoorie	15·9	+0·6	24·8	1	6·8	−0·5	3·4	19	0	0	−1·3	0	..	0	−0·9	10·7	5·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Mukteshar (Kumaun)	16·7	+1·8	22·7	1	5·4	−0·7	1·1	19	0	0	−10·7	0	..	0	−0·7	8·3	5·4	+2·0	0	0	0	0	0	0	0	0	0	0	0
Nainital	15·2	−0·5	21·4	1	4·4	−1·2	2·0	4 days	0	0	−7·4	0	..	0	−0·5	6·0	3·4	−0·3	0	0	0	0	0	0	0	0	0	0	0
Kalimpong	25·3	+6·0	28·7	21	18·9	+7·0	15·2	21	0	0	−18·0	0	..	0	−1·4	6·3	5·2	−5·3	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	16·3	+1·9	19·5	1	6·9	−0·5	3·4	29	0	5·6	−15·0	3·8	3	1	−0·2	3·8	1·5	+0·1	0	2	0	0	0	2	0	0	0	0	0
Kohima	19·8	..	22·4	6	13·1	..	9·4	30	0	2·4	..	2·4	20	0	..	1·7	(b) 2·0	..	0	1	0	0	2	0	0	0	0	0	0
Shillong (R)																														
Cherrapunji (R)																														
Abu	24·9	+1·7	28·8	23	10·7	−3·6	6·2	21	0	0	−5·6	0	..	0	−0·4	5·0	4·5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Aijal	23·8	..	28·3	8	16·2	..	12·4	30	24·4	76·9	..	29·3	24	4	..	5·0	3·2	..	0	4	0	0	0	0	0	0	0	0	0
Pachmarhi	22·5	−1·1	26·0	2	7·8	−2.6	3·4	23,25	0	0	−18·8	0	..	0	−1·2	5·1	2.9	−0·2	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	24·2	+0·9	26·6	5	14·4	−0·5	10·2	27	14·4	37·7	−1·9	19·1	13	3	+0·6	10·0	10·7	−1·4	0	4	0	0	2	4	0	0	0	0	0
Mercara	23·8	−0·1	26·6	30	14·9	−0·9	9·4	28	38·0	39·0	+2·8	30·0	1	7	+1·7	8·5	8·0	+1·4	0	10	0	0	4	7	0	0	0	0	0
Ootacamund	18·5	+0·9	22·8	28	8·5	−0·4	2·6	27	70·0	220·6	+59·8	39·2	1	11	+0·5	(f) 5·2	(f) 3·4	−0·9	1	14	0	0	0	0	0	3	0	0	0
Coonoor (R)																														
Kodaikanal	16·7	+0·6	19·4	30	9·3	−0·4	5·7	8	16·7	97·3	−161·5	17·7	8	11	−1·8	11·0	12·7	+0·6	0	16	0	0	5	3	0	0	0	0	0
Nepal																														
Katmandu	23·1	..	26·5	1,2	6·9	..	3·0	28	1·8	2·0	..	2·0	27	0	..	0·1	0·3	..	0	1	0	0	2	22	0	0	0	0	0
Sikkim																														
Lachen	12·7	..	18·0	1	2.9	..	−2.0	21	..	4·0	..	1·0	2,4	0	..	..	..	..	1	6	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																														
Damodar Catchment																														
Tilaiya	25·9	..	29·6	2	13·4	..	10·7	21	2·7	15·0	..	11·8	19	2	..	5·8	3·6	..	0	2	0	0	0	0	0	0	0	0	0
Hazaribagh	24·2	..	27·5	3	11·1	..	7·8	29	2·3	2·3	..	2·3	20	0	..	4·7	2·4	.	0	1	0	0	0	0	0	0	0	0	0
Konar	26.3	..	30.1	3	14.7	..	11.6	29	0·7	0·7	..	0·7	20	0	..	10·2	7·9	..	0	1	0	0	0	0	0	0	0	0	0
Bokaro	28·7	..	31·4	3,4	9·9	..	5·7	29	0·8	0·8	..	0·8	20	0	..	4·3	2·8	..	0	1	0	0	0	0	0	0	0	0	0
Maithon	29·6	..	32·2	3	14·7	..	8·7	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0

** Data given as addenda in December 1964 issue. (b) Mean of 29 days. (R) Register not received. (c) Mean of 28 days. (f) Mean of 25 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean Maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from Normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories (*Contd.*)																													
Damodar Catchment (*Contd.*)																													
Ramgarh	27·9	..	31·1	5	11·7	..	8·0	29	0	0	..	0	..	0	..	1·9	0.8	..	0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	28·5	..	30·5	2,5	16.3	..	12·9	22	0	0	..	0	..	0	..	2·9	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Durgapur	29·0	..	31·6	1,2	17·2	..	11·9	21	0	0	..	0	..	0	..	7·9	6·4	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	28·3	..	33·1	30	11·8	..	5·9	21	..	2·2	..	2·2	18	0	..	..	..	..	0	1	0	0	0	4	0	0	0	0	0
Hirakud	29·6	..	32·4	5	18·3	..	12·7	29	0	0	..	0	..	0	..	5·7	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Bhimkund	27·9	..	31·2	1	15·2	..	10·2	30	0	0	..	0	..	0	..	5·4	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Sonepur	29·3	..	32·0	1,2,10	18·9	..	12·5	30	..	0	..	0	..	0	..	..	3·3	..	0	0	..	..	..	..	..	..	..	..	..
Khijrawan	28·5	..	32·6	2	14·6	..	10·1	5 days	0	0	..	0	..	0	..	5·8	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	28·9	..	32·5	1,5,6	11·3	..	6·0	23,25	0	0	..	0	..	0	..	4·4	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Punasa (R)																			0	0	0	0	0	0	0	0	0	0	0
Thikri	31·9	..	36·6	1	11·1	..	6·3	24	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	32·6	.	37.6	2	14·0	..	8·2	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	15·0	..	20.8	1	1·5	..	2·3	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Timure	20·0	..	24·7	1	(b) 5·9	..	3·0	21,22, 23	0	5·0	..	5·0	20	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Pokhara	23·9	..	27·5	2	11·9	..	9·0	20,23	9·6	9·7	..	9·6	20	1	..	2·3	1·7	..	1	1	0	1	1	0	0	0	0	0	0
Gorkha	22.8	..	26·2	2	12.9	..	9.1	20	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Nuwakot	24·9	..	28·5	2	13·1	..	9·7	20	14·2	14.2	..	14·2	27	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Regions)																													
Dailekl	21·5	..	23·7	12	12·6	..	9·1	28	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	16·1	..	19·8	3	7·9	..	4·8	20	0	0·1	..	0·1	19	0	..	6·2	5·0	..	1	0	..	..	..	..	..	..	..	..	..
Sallayana (R)						..																							
Butwal	28·7	..	30.9	3	16·9	..	13·4	20	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	22·2	..	26·1	1	10.7	..	7.5	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	6·0	36·8	..	11·2	4	4	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·4	..	14·9	9	(b) 0·5	..	—3·6	20	6·2	12·2	..	4·2	20	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Taplethok	21·8	..	26·6	2	10·8	..	8·0	27	0	16·0	..	10·4	2	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Bhojpur	19·9	..	21·9	1	11·7	..	8·8	30	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	18·3	..	22·5	1	8·8	..	5·5	30	0	9·4	..	7·0	2	1	..	5·1	2·9	..	0	3	0	0	0	1	0	0	0	0	0
Okhaldhunga	19.0	..	21·2	11	9.4	..	6.5	29	0	0·3	..	0·3	27	0	..	2.4	1.6	..	0	1	0	0	1	0	0	0	0	0	0
Chainpur	23.1	..	25.9	3	(b) 13·5	..	10·7	20	0	0	..	0	3	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Angbung	25·8	..	29·6	18	8.7		6·1	14	0	0		0	..	0		..	..		0	0	..	..	..	..	..	..	..	..	..
Barahakshetra	28·3	..	30·9	3	16·0	..	11.9	29	0	0	..	0	20	0	..	4·9	3·9	..	0	0	..	..	..	..	..	..	..	..	..
Tista Catchment																													
Gangtok	19·5	..	21·4	2,4	9·8	..	5·8	30	0·3	37·2	..	20·8	2	3	..	4·8	3·8	..	0	4	0	0	0	2	0	0	0	0	0
Gezing	22·5	..	25·7	1,2	9·8	..	6·8	29,31	2·2	10.7	..	8·5	2	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..

*Data included under 'Nepal'. (b) Mean of 29 days. (h) Mean of 23 days. (R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1010.8	1007.7	..	26.9	24.6	23.5	28.9	82	..	5.6	..	12.2	0	10	13	1	8	6	5	1	2	0	0	7	0
	1730	,,	1008.5	1005.3	..	26.0	24.1	23.3	28.6	86	..	5.9	..	15.1	0	8	14	0	11	6	5	0	0	0	0	8	0
Long Island	0830	25	1010.8	1008.1	..	27.7	25.2	24.1	30.0	81	..	5.6	..	3.5	0	0	24	0	1	5	11	2	2	2	1	6	0
	1730	,,	1008.6	1005.8	..	25.3	24.0	23.3	28.6	83	..	5.6	..	2.4	0	0	22	0	4	8	8	0	1	0	1	8	0
Port Blair	0530	79	1009.2	1000.2	..	24.0	23.1	22.7	27.6	91	..	5.3	..	8.1	0	2	21	0	2	5	5	4	3	2	2	7	0
	0830	,,	1010.8	1001.9	−1.2	27.5	24.8	23.5	28.9	83	+7	5.8	+1.2	11.4	0	5	23	0	4	9	5	3	2	2	3	2	0
	1130	,,	1009.1	1000.2	..	27.9	24.9	23.5	28.9	77	..	6.2	..	11.9	0	3	25	0	4	9	7	5	1	0	2	2	0
	1730	,,	1008.7	999.7	..	25.3	23.8	23.1	28.3	88	..	6.1	..	8.6	0	2	21	0	2	6	5	4	3	1	2	7	0
	2330	,,	1009.8	1000.3	..	24.5	23.4	22.9	27.9	91	..	5.0	..	7.3	0	1	19	0	1	4	6	2	4	2	1	10	0
Car Nicobar	0830	10	1010.9	1009.8	..	27.3	24.8	23.7	29.3	81	..	4.7	..	2.1	0	0	21	1	4	0	5	1	3	2	1	9	4
	1730	,,	1008.6	1007.3	..	25.9	24.5	23.9	29.7	89	..	4.9	..	0.8	0	0	6	0	0	0	0	1	4	1	0	24	0
Nancowry	0830	26	1011.0	1008.1	..	26.8	24.6	23.6	29.1	83	..	5.9	..	4.3	0	1	22	0	0	0	1	5	8	5	4	7	0
	1730	,,	1008.8	1005.9	..	25.9	24.2	23.5	28.9	87	..	5.5	..	4.7	0	1	16	1	0	0	0	0	10	4	2	13	0
Kondul	0830	8	.	..	..	26.3	24.6	23.9	29.7	87	..	6.3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	25.4	24.1	23.5	28.9	89	..	6.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1015.4	997.3	..	21.2	17.6	15.1	17.1	69	..	3.1	..	18.7	0	15	13	1	0	0	0	0	0	0	27	2	0
	1730	,,	1011.5	993.4	..	20.2	18.8	17.9	20.5	87	..	1.7	..	3.9	0	0	19	5	0	0	0	0	1	1	12	11	0
Dibrugarh (Mohanbari).	0230	111	1012.5	999.6	..	16.5	16.0	15.7	17.8	94	..	2.2	..	0.1	0	0	1	1	0	0	0	0	0	0	0	29	0
	0530	,,	1013.4	1000.4	..	15.5	15.1	14.8	16.8	95	..	2.6	..	0.3	0	0	2	0	1	1	0	0	0	0	0	28	0
	0830	,,	1015.2	1002.4	−1.5	21.5	18.8	17.1	19.5	76	−11	2.7	+0.1	4.4	0	0	26	0	8	17	1	0	0	0	0	4	0
	1130	,,	1012.6	1000.0	..	25.9	20.0	16.3	18.5	56	..	2.7	..	4.5	0	0	25	0	13	8	2	0	1	0	1	5	0
	1430	,,	1010.1	997.5	..	26.8	20.3	16.3	18.5	53	..	2.4	..	2.9	0	0	20	0	7	11	0	0	1	0	1	10	0
	1730	,,	1011.0	998.3	..	21.4	19.3	18.1	20.8	82	..	2.4	..	0.1	0	0	1	0	0	0	0	1	0	0	0	29	0
	2030	,,	1012.8	999.8	..	18.5	17.5	16.9	19.3	90	..	2.1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	2330	,,	1012.9	999.9	..	17.2	16.6	16.2	18.4	93	..	2.1	..	0.1	0	0	1	0	0	0	0	0	1	0	0	29	0
Digboi	0830	152	1016.4	998.8	..	21.3	19.5	18.4	21.1	84	..	2.7	..	3.6	0	0	29	3	2	4	1	7	1	6	5	1	0
	1730	,,	1012.1	994.6	..	23.1	21.0	20.0	23.4	82	..	1.1	..	2.1	0	0	23	5	3	3	4	0	1	3	4	7	0
North Lakhimpur	0830	102	1015.6	1003.8	−1.0	22.8	19.5	17.5	20.0	72	−4	2.3	−0.4	2.6	0	0	19	1	7	4	5	2	0	0	0	11	0
	1130	,,	1013.1	1001.5	..	26.4	20.7	17.3	19.7	59	..	2.5	..	3.3	0	0	24	2	9	8	5	0	0	0	0	6	0
	1430	,,	1010.7	999.2	..	27.3	21.1	17.5	20.0	55	..	2.7	..	1.7	0	0	17	2	4	4	4	1	1	1	0	13	0
	1730	,,	1011.6	999.8	..	21.6	20.1	19.3	22.4	85	..	1.9	..	0.9	0	0	5	1	2	0	0	0	2	0	0	25	0
Sibsagar	0830	97	1015.6	1004.5	−0.9	22.2	20.3	19.3	22.4	83	−6	3.3	−2.1	2.4	0	0	21	7	8	0	2	1	3	0	0	9	0
	1730	,,	1011.2	1000.2	..	24.9	21.5	19.7	22.9	72	..	2.7	..	0.4	0	0	4	3	0	0	0	1	0	0	0	26	0
Gohpur	0830	..	..	..	..	20.3	19.7	18.5	21.3	89	..	2·1	..	2.4	0	0	28	1	10	2	10	2	1	0	2	2	0
	1730	..	..	..	..	24.2	21.2	19.5	22.7	75	..	2·3	..	1.6	0	0	17	0	3	5	6	0	0	0	3	13	0
Majbat	0830	..	..	..	..	23·7	19.5	17·0	19.4	67	..	1.1	..	1.1	0	0	13	1	2	4	4	2	0	0	0	17	0
	1730	..	..	..	..	22.9	20·5	16·5	22.1	80	..	1.3	..	0.2	0	0	3	0	0	0	2	0	1	0	0	27	0
Jorhat (Aerodrome)	0530	90	1013.3	1002.7	..	16.9	16.7	18.3	18·8	99	..	3.8	..	0.7	0	0	2	0	2	0	0	0	0	0	0	28	0
	0830	,,	1015.1	1004·8	..	21.5	20.0	19.1	22.1	87	..	4.3	..	2.7	0	0	13	1	9	1	0	0	2	0	0	17	0
	1130	,,	1012.8	1002.6	..	25.9	21.5	18.9	21.8	65	..	3.0	..	7.7	0	0	26	0	22	3	0	0	0	0	1	4	0
	1730	,,	1010.8	1000.6	..	22.6	20.5	19.3	22.4	81	..	2.4	..	0.5	0	0	2	0	0	1	0	0	1	0	0	28	0
	2330	,,	1012.7	1002.3	..	18.3	18.1	18.0	20.6	97	..	1.3	..	0·3	0	0	1	0	0	0	0	0	1	0	0	29	0
Tangla	0830	78	1013.3	1004.3	..	22·9	19.5	17·8	19·9	71	..	0.4	..	1.0	0	0	10	0	0	0	10	0	0	0	0	20	0
	1730	,,	1011.2	1002.2	..	24.1	21.5	20.1	23.5	77	..	0	..	0.1	0	0	1	0	0	0	1	0	0	0	0	29	0
Tezpur	0830	79	1015.7	1006.2	−1·7	20.5	18.9	17.9	20.5	84	+3	2.2	−0·1	1.5	0	0	21	3	13	3	1	1	0	0	0	9	0
	1730	,,	1011.4	1002.4	..	23.4	20.5	18.9	21.8	75	..	1.2	..	0.4	0	0	3	1	1	1	0	0	0	0	0	27	0
Golaghat	0830	95	1014.6	1003.6	..	21.1	19.2	18.1	20.8	82	..	2.4 (b)	..	1.5 (b)	0	0	20	2	5	0	1	1	4	1	6	10	0
	1730	,,	1009.1	998.3	..	26.1	21.8	19·5	22.7	67	..	2.2 (c)	..	1·0 (c)	0	0	15	0	4	0	1	0	2	0	8	14	0
Rangia	0830	60	1015·5	1008·9	..	23·3	20·3	18·6	21·4	77	..	1·8	..	5·1 (d)	0	0	26	0	2	24	0	0	0	0	0	2	0
	1730	,,	1011·6	1004.7	..	24·2	21·8	20·2	24·1	79	..	0·8	..	0·7	0	0	6	0	3	3	0	0	0	0	0	21	0
Chaparmukh	0830	66	1015.3	1007.8	..	22.6	20.6	19.5	22.7	83	..	2.4 (c)	..	6·8	0	0	30	0	4	12	11	3	0	0	0	0	0
	1730	,,	1011.6	1004.1	..	25.2	22.1	20.5	24.1	75	..	0·8	..	2.7	0	0	18	1	3	6	6	2	0	0	0	10	0
Goalpara	0830	38	1015.7	1011.3	..	21.7	19.3	17.9	20.5	80	..	0.8	..	1.5	0	0	22	4	14	0	2	0	0	0	2	8	0
	1730	,,	1012.6	1008.2	..	25.4	22.9	21.7	25.9	81	..	0.3	..	0.7	0	0	9	0	3	2	2	0	0	0	2	21	0
Gauhati	0830	..	..	..	..	22.3	20.1	18.9	21.8	82	−4	0.2	−2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days.

Division and station	Hour of observation I. S. T.	Station elevation level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1002.1	1005.8	..	18.6	18.3	18.1	20.8	97	..	1.7	..	1.4	0	0	7	0	1	2	2	1	1	0	0	23	0
	0530	"	1002.9	1006.6	..	17.8	17.7	17.6	20.1	99	..	3.4	..	0.8	0	0	3	0	0	1	0	1	1	0	0	27	0
	0830	"	1014.9	1008.6	−1.2	21.9	20.3	19.4	22.5	86	+8	3.6	+1.0	2.5	0	0	15	0	11	2	0	2	0	0	0	15	0
	1130	"	1012.5	1006.3	..	26.4	22.8	20.1	23.5	68	..	2.7	..	7.3	0	0	28	5	17	2	0	0	0	1	3	2	0
	1430	"	1009.9	1003.8	..	27.7	22.0	18.9	21.8	59	..	2.5	..	7.7	0	0	28	6	18	2	0	0	0	0	2	2	0
	1730	"	1010.7	1004.5	..	23.3	21.5	20.5	24.1	84	..	2.9	..	0.9	0	0	5	0	2	1	0	2	0	0	0	25	0
	2030	"	1012.6	1006.3	..	20.5	19.9	19.6	28.8	95	..	1.7	..	1.2	0	0	6	0	2	0	0	1	2	0	1	24	0
	2330	"	1012.6	1006.3	..	19.3	18.8	18.5	21.3	95	..	4.1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dhubri (Rupsi)	0530	36	1012.7	1007.4	..	16.9	16.4	16.1	18.3	95	..	1.2	..	4.2	0	0	18	1	16	1	0	0	0	0	0	12	0
	0830	"	1014.6	1009.4	..	22.4	19.9	18.4	21.1	79	..	1.3	..	4.8	0	0	25	1	12	12	0	0	0	0	0	5	0
	1130	"	1012.7	1007.6	..	26.3	21.6	19.0	22.0	64	..	1.7	..	7.7	0	0	28	0	12	15	1	0	0	0	0	2	0
	1730	"	1010.6	1005.5	..	23.7	21.4	20.1	23.5	81	..	0.9	..	0.3	0	0	2	0	1	1	0	0	0	0	0	28	0
Dhubri	0830	35	1015.4	1011.3	−0.6	22.3	19.8	18.3	21.0	79	0	0.9	−0.8	8.5	0	0	27	1	21	4	0	0	0	0	1	3	0
	1730	"	1011.5	1067.4	..	24.5	21.4	19.7	22.9	74	..	0.5	..	0.2	0	0	2	1	1	0	0	0	0	0	0	28	0
Lumding	0830	149	1015.6	998.2	..	19.2	18.8	18.6	21.4	96	+7	2.5	..	0.6	0	0	8	0	2	2	2	0	0	0	2	22	0
	1730	"	1011.1	994.1	..	24.7	22.4	21.3	25.3	81	..	1.9	..	0.2	0	0	3	0	0	0	2	0	0	0	1	27	0
Tura	0830	370	1015.1	972.8	..	20.2	17.9	16.4	18.6	79	..	5.9	..	2.4	0	0	23	0	6	13	1	2	0	1	0	7	0
	1730	"	1010.8	969.4	..	25.4	21.1	18.7	21.6	66	..	4.6	..	2.2	0	0	26	1	4	3	4	1	2	8	3	4	0
Haflong	0830	682	1014.4	937.9	..	19.3	17.5	16.4	18.6	83	..	6.1	..	7.2	0	0	30	0	0	0	0	5	14	0	11	0	0
	1730	"	1009.7	934.0	..	21.2	18.5	16.9	19.3	79	..	3.5	..	5.0	0	0	30	0	0	0	1	4	14	0	11	0	0
Schar (Kumbhirgram)	0530	97	1011.2	999.9	..	18.4	17.4	16.7	19.0	89	..	2.7	..	7.8	0	0	28	0	0	27	1	0	0	0	0	2	0
	0830	"	1012.7	1001.6	..	22.9	19.7	17.8	20.4	73	..	2.5	..	8.4	0	0	30	0	3	24	3	0	0	0	0	0	0
	1130	"	1010.2	999.3	..	27.4	21.4	18.0	20.6	57	..	2.6	..	6.3	0	0	27	1	1	8	11	0	2	2	2	3	0
	1730	"	1008.9	997.9	..	24.2	21.3	19.7	22.9	76	..	2.2	..	4.4	0	0	30	3	5	3	2	0	2	5	0	10	0
Silchar	0830	29	1014.1	1010.7	−1.6	23.1	20.9	20.2	23.7	81	+1	3.2	+0.7	1.0	0	0	15	0	4	3	4	2	1	0	1	15	0
	1730	"	1010.1	1006.7	..	25.5	22.7	21.3	25.3	78	..	2.6	..	0.3	0	0	3	1	1	0	0	0	0	0	1	26	0
Imphal (Tulihal)	0530	781	1015.8	923.1	..	14.0	13.6	13.3	15.3	95	..	5.6	..	0.7	0	0	4	1	1	0	0	0	0	1	1	26	0
	0830	"	1016.1	928.5	−1.2	18.3	16.4	15.0	17.0	82	+4	5.8	+2.4	1.5	0	0	10	1	1	2	4	2	0	0	0	20	0
	1130	"	1012.0	926.3	..	23.4	18.3	15.2	17.3	61	..	4.7	..	4.7	0	0	23	1	0	0	1	5	8	6	2	7	0
	1430	"	1009.1	924.0	..	24.8	18.2	14.1	16.1	52	..	4.6	..	6.7	0	0	24	0	0	0	2	5	13	3	1	6	0
	1730	"	1011.4	924.8	..	19.8	17.2	15.4	17.5	77	..	4.2	..	4.2	0	0	17	0	0	0	1	6	3	3	4	13	0
	2030	"	1014.3	926.5	..	16.6	15.6	15.0	17.0	90	..	3.6	..	0.9	0	0	4	1	0	0	0	0	2	1	0	26	0
	2330	"	1014.9	926.5	..	15.1	14.5	14.1	16.1	93	..	4.4	..	0.5	0	0	3	0	2	0	0	0	0	0	1	27	0
Kailashahar	0530	29	1012.9	1009.5	..	18.5	18.2	18.1	20.8	97	..	3.7	..	0.3	0	0	3	2	0	0	0	0	0	1	0	27	0
	0830	"	1014.4	1011.1	..	22.9	21.2	20.3	23.8	86	..	2.9	..	2.2	0	0	17	4	3	1	1	5	2	0	1	13	0
	1130	"	1012.2	1008.9	..	27.1	22.9	20.9	24.7	66	..	3.4	..	3.2	0	0	24	6	2	7	0	2	1	3	3	6	0
	1730	"	1010.6	1007.3	..	25.1	22.7	21.4	25.5	81	..	2.5	..	0.6	0	0	5	1	0	0	0	1	0	3	0	25	0
Agartala	0230	16	1010.6	1008.7	..	19.3	18.8	18.5	21.3	96	..	2.1	..	0.9	0	0	4	0	2	1	1	0	0	0	0	26	0
	0530	"	1011.2	1009.4	..	18.5	18.2	18.0	20.6	97	..	2.9	..	2.2	0	0	11	1	2	4	2	0	1	0	1	19	0
	0830	"	1013.0	1011.2	−1.5	24.2	21.8	20.5	24.1	80	+3	2.9	+0.8	4.3	0	0	15	6	4	2	1	0	0	0	2	15	0
	1130	"	1011.2	1009.4	..	27.6	22.6	20.0	23.4	63	..	3.7	..	7.2	0	0	23	7	6	2	1	0	1	3	3	7	0
	1430	"	1009.1	1007.3	..	28.2	22.6	19.6	22.8	60	..	3.6	..	8.1	0	0	26	6	1	0	2	2	1	1	3	4	0
	1730	"	1009.7	1007.9	..	24.6	22.3	21.1	25.0	81	..	2.7	..	1.8	0	0	10	4	1	0	1	0	1	0	3	20	0
	2030	"	1011.5	1009.6	..	21.6	20.7	20.3	23.8	92	..	1.9	..	1.7	0	0	8	0	0	1	2	2	2	0	1	22	0
	2330	"	1011.4	1009.5	..	20.1	19.4	19.0	22.0	94	..	2.0	..	1.5	0	0	7	0	1	0	4	1	0	0	1	23	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1012.4	996.9	..	16.0	15.1	14.5	16.5	91	..	1.0	..	1.4	0	0	7	4	3	0	0	0	0	0	0	23	0
	0530	"	1013.0	997.5	..	14.9	14.1	13.5	15.5	90	..	2.1	..	1.8	0	0	10	7	3	0	0	0	0	0	0	20	0
	0830	"	1014.9	999.7	−0.8	22.8	18.8	16.2	18.4	67	−4	1.8	+0.1	1.9	0	0	9	0	8	1	0	0	0	0	0	21	0
	1130	"	1013.0	998.2	..	27.7	20.2	15.5	17.6	48	..	1.6	..	6.8	0	1	22	0	3	4	5	4	6	1	0	7	0
	1730	"	1011.0	995.9	..	21.8	19.3	17.8	20.4	78	..	2.2	..	0.7	0	0	4	1	0	0	0	0	2	1	0	26	0
	2330	"	1012.9	997.5	..	16.4	15.4	14.7	16.7	90	..	1.1	..	4.2	0	0	21	7	6	0	1	0	2	0	5	9	0
Jalpaiguri	0830	83	1014.8	1005.2	−1.1	20.2	17.9	16.4	18.6	79	−1	0.9	−0.2	4.0	0	0	28	12	6	1	0	0	0	1	8	2	0
	1730	"	1010.8	1001.3	..	24.9	20.4	17.7	20.2	65	..	0.5	..	0.7	0	0	6	0	1	0	0	0	3	2	0	24	0
Cooch Behar	0830	43	1014.9	1010.0	..	22.3	19.3	17.5	20.0	74	..	1.2	..	5.4	0	0	29	0	12	15	1	1	0	0	0	1	0

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—NOVEMBER, 1964 (KARTIKA 10—AGRAHAYANA 9, 1886 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Colud amount (Oktas): Mean amount	Colud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan West Bengal—(*contd.*)																											
Cooch Behar—(contd.)	130	43	1013·1	1008·3	..	26.8	21·2	18·0	20·6	58	..	1·7	..	8·7	0	0	28	0	5	19	0	0	0	1	0	2	3
	1730	,,	1011·1	1006·2	..	23.1	20·5	19·0	22·0	78	..	1·3	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Balurghat . .	0830	26	1013·5	1010·5	..	22.9	19·8	17·9	20·5	73	..	1·1	..	4·3	0	0	27	14	6	1	1	0	0	1	4	3	0
	1730	,,	1009·9	1006·9	..	23·6	20·6	18·9	21·8	75	..	1·5	..	0·5	0	0	6	2	0	0	1	0	2	0	1	24	0
Malda . . .	0830	31	1014·8	1011·1	—0·9	22·3	18·6	16·2	18.4	68	—4	0·9	+0·1	3·1	0	0	25	15	4	1	0	0	0	0	5	5	0
Gangetic West Bengal	1730	,,	1011·0	1007·4	..	25·0	20·1	17·1	19·5	62	..	1·7	..	1·3	0	0	11	4	0	0	0	0	0	1	6	19	0
Berhampore . .	0830	19	1014·4	1012·2	—1·2	22·8	19·4	17·3	19·7	71	—4	0·9	—0·9	0·9	0	0	13	2	0	1	0	5	1	4	0	17	0
	1730	,,	1010·7	1008.5	..	24·4	20·5	18·3	21·0	70	..	1·0	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Suri . . .	0830	..	..	..	..	22·9	18·2	15·1	17·1	62	..	0·7	..	3·4	0	0	30	13	0	4	0	0	0	8	5	0	0
Asansol . . .	0230	126	1012·6	997·9	..	17·2	15·5	14·2	16·2	83	..	0·9	..	2·2	0	0	13	0	0	0	0	0	0	1	12	17	0
	0530	,,	1013·4	998·6	..	16·5	15·1	14·0	16·0	86	..	1·7	..	3·6	0	0	19	2	0	0	0	0	0	2	15	11	0
	0830	,,	1015.5	1000·5	—0·5	21·9	17·7	14·8	16·8	65	—4	1·2	—0.9	6·1	0	0	29	6	2	0	0	0	0	6	15	1	0
	1130		1013·4	999·1	..	27·7	19·2	13·4	15·4	41	..	1·9	..	2·9	0	1	27	8	6	4	0	0	0	2	8	2	0
	1430	,,	1010·9	996·7	..	28·5	19·5	13·4	15·4	40	..	2·1	..	7·6	0	0	28	10	6	4	0	0	0	1	7	2	0
	1730	,,	1011.4	997·0	..	23·5	18·9	15·9	18·1	61	..	2·0	..	2·0	0	0	12	5	2	0	0	2	0	0	3	18	0
	2330	,,	1013·5	998.7	..	17·9	16.0	14.7	16.7	81	..	1.0	..	3·5	0	0	17	1	0	0	0	0	0	2	14	13	0
Shanti Niketan .	0830	59	1014.9	1008.1	..	22·0	18.6	16.4	18.6	70	..	1.8	..	5.8	0	0	25	13	2	0	0	0	0	1	9	5	0
	1130	,,	1013·7	1007.0	..	26·9	20.0	15.7	17.8	50	..	1.7	..	4.5	0	0	29	14	4	3	0	0	2	1	5	1	0
	1730	,,	1011.4	1004.7	..	22.5	19.3	17.3	19.7	73	..	1.4	..	3.3	0	0	20	10	6	1	0	0	0	1	2	10	0
Krishnanagar . .	0830	15	1014·6	1012·9	—0.8	23.7	19.9	17.6	20.1	69	0	0.6	—1·1	0.8	0	0	10	6	3	0	0	0	0	1	0	20	0
	1730	,,	1010.9	1009.3	..	25.1	20.7	18.1	20.8	65	..	0.8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Purlia. . .	0830	255	1015.5	986.3	—0.6	21.2	16.7	13.4	15.4	61	—1	2.1	+0.8	3.0	0	0	28	11	1	0	0	0	0	5	11	2	0
	1730	,,	1011.6	982.8	..	24.5	18.7	14.8	16.8	56	..	2.4	..	1.6	0	0	14	7	1	0	1	0	1	2	2	16	0
Bankura . .	0830	100	1014.5	1003.0	..	22.1	17.7	14.7	16.7	63	..	0.8	..	2.5	0	0	30	11	4	1	0	0	1	1	12	0	0
	1730	,,	1011.1	999.7	..	25.2	19.2	15.3	17.4	54	..	1.1	..	2.7	0	0	30	7	8	1	0	0	0	0	14	0	0
Burdwan . .	0830	32	1014·4	1010.7	—1·0	22.6	19.4	17.5	20.0	73	+4	1.3	—0·4	1.3	0	0	15	8	2	0	0	0	0	1	4	15	0
	1730	,,	1010.1	1006.4	..	25.9	22.2	20.3	23.8	69	..	0.5	..	0.9	0	0	7	3	1	0	0	0	0	0	3	23	0
Barrackpore (Aerodrome).	0530	7	1012.5	1011.7	..	19.0	17.9	17.2	19.6	89	..	2.7	..	[illegible]	0	0	13	8	2	0	0	0	0	0	3	17	0
	0830	,,	1014.4	1013·6	—1·3	23.3	19.8	17.7	20.2	72	—1	2.3	+0·4	0·6	0	0	24	12	6	1	0	0	0	0	5	6	0
	1130	,,	1013.0	1012.2	..	27.4	21.0	17.2	19.6	54	..	2.7	..	8.2	0	0	28	9	8	4	0	0	0	0	7	2	0
	1730	,,	1011.1	1010.3	..	24.5	21.3	19.5	22.9	73	..	1.9	..	2.3	0	0	14	8	0	0	1	0	0	0	5	16	0
	2330	,,	1012.8	1012.0	..	20.4	19.0	18.2	20.9	87	..	1.2	..	0.7	0	0	4	0	2	0	0	0	0	0	2	26	0
Calcutta (Dum Dum)	0230	6	1011.4	1010·7	..	19.5	18.4	17.7	20.2	89	..	1.8	..	1.3	0	0	14	7	4	0	0	0	0	0	3	16	0
	0530	,,	1012.1	1011.4	..	18.8	17.9	17.3	19.7	90	..	3.0	..	1.4	0	0	15	7	4	0	0	0	0	0	4	15	0
	0830	,,	1014.0	1013.3	—0·8	23.0	19.7	17.7	20.2	72	+1	2.4	+0.5	4.2	0	0	30	12	5	0	0	0	0	1	12	0	0
	1130	,,	1012·6	1011.9	..	27.3	20.5	16.3	18.5	51	..	3.3	..	6.4	0	0	30	13	9	1	0	0	1	0	6	0	0
	1430	,,	1010.2	1009.5	..	28.3	20.9	16.5	18.8	49	..	3.0	..	4·8	0	0	30	10	5	2	0	0	0	0	13	0	0
	1730	,,	1010.7	1010.0	..	25.0	21.1	18.9	21.8	69	..	2.3	..	1.3	0	0	11	4	1	2	1	0	0	0	3	19	0
	2030	,,	1012.5	1011.8	..	21.7	20.0	19..	22.1	85	..	1.4	..	0.8	0	0	8	2	1	0	2	0	0	0	3	22	0
	2330	,,	1012.3	1011.6	..	20.3	19.1	18.4	21 1	89	..	1.5	..	0.7	0	0	7	1	1	1	0	1	0	0	3	23	0
Calcutta . .	0830	6	1013.7	1013.0	—1.5	24·4	19·9	17·1	19.9	65	—11	2.0	+0.2	3.9	0	0	28	6	6	1	0	0	0	0	15	2	0
	1130	,,	1012.2	1011.5	—	28·4	21.0	16.3	19.0	49	..	2.1	..	5.9	0	2	27	6	10	1	0	0	0	0	12	1	0
	1730	,,	1010.4	1009.7	—	25·0	20.4	17.6	20.4	64	..	1.5	..	2.1	0	0	18	4	2	0	0	0	0	0	12	12	0
Midnapore . .	0830	45	1014.3	1009.0	—1·0	22.3	18.3	15.7	17.8	65	—1	1.1	—0·7	2.2	0	0	26	8	16	2	0	0	0	0	0	4	0
	1730	,,	1010.7	1005.5	—	25.5	20.1	16.8	19.1	59	..	1.5	..	1.2	0	0	13	9	2	2	0	0	0	0	0	17	0
Contai . . .	0830	11	1014.0	1012.8	—0·8	22.9	19.9	18.1	20.8	75	+2	1.3	—0·5	3.1	0	0	25	23	1	0	0	0	0	0	1	5	0
	1730	,,	1010·7	1009.5	..	25.4	21.3	19.0	22.0	67	..	1.3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Sagar Island . .	0830	3	1013.2	1012.9	—1·6	23.8	20.8	19.1	22.1	76	+1	2.8	+0·2	13·8	0	2	24	13	10	1	0	0	0	0	6	0	0
	1730	,,	1010.2	1009·9	..	25.0	21.6	19.8	23.1	73	..	2.9	..	8.5	0	0	25	10	6	1	1	1	0	1	5	5	0
Sandheads . .	0530	10	1011.2	1010.1	..	24.9	21.4	19.5	22.7	71	..	3.2	..	15·2	0	8	21	14	13	0	0	1	0	0	1	1	0
	0830	,,	1012.9	1011.7	—1·6	27.2	22.7	20.3	23.8	68	+6	2.6	—0·2	16·9	0	10	20	17	11	1	0	0	0	0	1	0	0
	1130	,,	1012.0	1010.9	..	29.1	23.0	19.9	23.2	58	..	2.5	..	15.1	0	6	24	15	13	1	0	0	0	0	1	0	0
	1730	,,	1010.5	1009.4	..	26.3	21.7	19.2	22.2	66	..	2.7	..	12.2	0	7	20	12	10	2	1	0	0	1	1	3	0
	2330	,,	1011.4	1010.3	..	25.4	21.6	19.5	22.7	71	..	..	..	10.5	0	4	21	12	11	0	1	0	0	0	1	5	0
Orissa																											
Baripada . .	0830	54	1015.4	1009.1	..	22.1	18.4	15.9	18.1	68	..	1.6	..	4.0	0	0	26	11	7	0	0	0	0	0	6	4	2
	1730	,,	1012.0	1005.8	..	23·8	19.8	17.4	19.9	67	..	1.7	..	0.5	0	0	6	4	1	0	0	0	0	0	1	24	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Jharsuguda	0230	230	1012.4	985.7	..	17.6	15.9	14.7	16.7	83	..	1.6	..	2.1	0	0	10	8	2	0	0	0	0	0	0	20	0
	0530	,,	1013.2	986.3	..	16.2	14.9	13.9	15.9	86	..	2.3	..	3.6	0	0	14	9	4	1	0	0	0	0	0	16	0
	0830	,,	1014.9	988.4	−0.9	21.2	16.9	13.8	15.8	63	−3	2.5	+0.8	8.5	0	0	27	12	13	1	0	0	0	0	1	3	0
	1130	,,	1013.2	987.3	..	26.4	18.1	12.0	14.0	40	..	2.5	..	9.7	0	2	25	7	15	5	0	0	0	0	0	3	0
	1730	,,	1011.0	985.0	..	25.0	18.2	13.4	15.4	49	..	3.1	..	3.7	0	1	15	2	7	7	0	0	0	0	0	14	0
	2330	,,	1013.2	986.5	..	18.7	16.7	15.3	17.4	80	..	1.7	..	3.1	0	0	13	7	2	4	0	0	0	0	0	17	0
Keonjhargarh	0830	468	1015.4	963.2	..	21.0	17.6	15.5	17.6	71	..	1.6	..	2.0	0	0	30	10	2	2	0	0	0	0	16	0	0
	1730	,,	1010.9	959.4	..	24.0	19.4	16.8	19.1	65	..	1.8	..	1.5	0	0	22	8	4	0	1	1	0	3	5	8	0
Balasore	0830	20	1014.1	1011.7	−1.3	22.5	18.8	16.5	18.8	69	−2	2.9	+0.7	4.9	0	0	29	21	3	0	0	0	0	0	5	1	0
	1730	,,	1010.8	1008.5	..	24.0	20.5	18.0	20.6	67	..	3.2	..	0.9	0	0	10	6	1	0	2	1	0	0	0	20	0
Santalpur	0830	149	1014.5	997.4	−1.3	22.5	18.3	15.5	17.6	65	−7	1.9	−0.2	5.1	0	0	29	8	18	2	0	0	0	0	1	1	0
	1730	,,	1011.3	994.3	..	24.4	19.1	15.7	17.8	58	..	1.9	..	1.9	0	0	18	4	11	0	0	0	0	0	3	12	0
Angul	0830	139	1014.3	998.4	−0.9	22.2	19.2	17.4	19.9	74	+2	2.4	−0.3	4.1	0	0	27	0	0	0	0	1	4	16	6	3	0
	1730	,,	1010.5	995.0	..	26.0	20.4	17.0	19.0	57	..	2.4	..	2.9	0	0	24	6	3	0	1	0	2	8	4	6	0
Cuttack	0830	27	1014.1	1011.0	−1.4	23.9	20.1	17.9	20.5	69	−5	2.3	−0.2	4.2	0	0	26	4	11	1	0	0	0	2	8	4	0
	1730	,,	1010.7	1007.7	..	27.8	22.1	19.0	22.0	59	..	2.9	..	3.3	0	0	18	0	5	6	4	0	0	1	2	12	0
Chandbali	0830	6	1014.4	1013.6	−0.7	23.4	19.9	17.8	20.4	71	−6	1.6	−1.1	5.1	0	0	29	13	3	0	0	0	0	1	12	1	0
	1730	,,	1011.1	1010.4	..	25.7	21.1	18.5	21.3	65	..	2.1 (b)	..	2.8 (b)	0	0	28	4	20	3	1	0	0	0	0	2	0
Bolangir	0830	190	1014.6	992.6	..	22.0	18.1	15.5	17.6	68	..	2.3 (b)	..	4.8 (b)	0	0	29	11	9	0	2	3	1	0	3	0	0
	1730	,,	1010.9	989.4	..	25.5	19.9	16.5	18.8	57	..	2.7	..	2.7	0	0	27	12	9	1	0	0	0	1	4	2	0
Phulbani	0830	464	1013.2	960.5	..	18.9	17.3	16.3	18.5	84	..	1.1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1009.1	957.2	..	22.9	19.2	17.1	19.5	68	..	1.3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Titilagarh	0830	211	1014.6	990.5	..	21.6	18.9	17.3	19.7	77	..	1.7	..	1.9	0	0	25	4	8	0	3	6	4	0	0	5	0
	1730	,,	1010.8	987.1	..	25.6	20.4	17.3	19.7	60	..	1.7	..	1.5	0	0	19	7	10	0	0	0	0	0	2	11	0
Bhubaneswar	0230	46	1011.5	1006.1	..	20.1	18.5	17.5	20.0	85	..	1.2	..	5.7	0	1	25	10	5	5	1	0	0	0	5	4	0
	0530	,,	1012.2	1006.8	..	19.5	17.9	16.9	19.3	85	..	2.0	..	7.1	0	1	27	13	8	1	0	0	0	0	6	2	0
	0830	,,	1014.1	1008.8	−1.0	24.9	19.9	16.9	19.3	60	−8	2.7	+0.4	11.9	0	5	22	10	12	1	0	0	0	0	4	3	0
	1130	,,	1012.8	1007.6	..	28.1	20.4	15.6	17.7	47	..	2.7	..	15.3	0	8	22	7	13	8	0	0	0	1	1	0	0
	1430	,,	1010.4	1005.2	..	28.9	20.7	15.6	17.7	45	..	3.4	..	11.7	0	5	23	9	11	3	2	0	0	2	1	2	0
	1730	,,	1011.1	1005.9	..	25.6	20.4	17.3	19.7	60	..	3.4	..	6.5	0	1	27	7	5	12	1	0	0	0	3	2	0
	2330	,,	1012.7	1007.3	..	21.4	19.1	17.7	20.2	80	..	1.2	..	6.1	0	1	25	6	8	5	0	1	2	0	4	4	0
Puri	0830	6	1013.7	1013.0	−1.2	24.7	20.3	17.7	20.2	65	−7	2.9	+0.5	9.3	0	0	30	20	8	0	0	0	0	0	2	0	0
	1730	,,	1011.0	1010.3	..	26.5	21.5	18.9	21.8	62	..	4.4	..	6.8	0	0	27	6	9	7	3	2	0	0	0	3	0
Gopalpur	0530	17	1011.7	1009.7	..	20.7	19.5	18.8	21.7	88	..	4.0	..	7.9	0	0	30	11	0	0	0	0	0	0	19	0	0
	0830	,,	1013.9	1012.0	−0.9	23.4	20.5	18.8	21.7	76	+4	3.8	+1.6	9.6	0	0	30	16	0	0	0	0	0	0	14	0	0
	1130	,,	1012.9	1010.9	..	28.0	21.4	17.6	20.1	53	..	4.5	..	11.6	0	4	26	10	9	5	2	0	0	0	4	0	0
	1730	,,	1010.9	1008.9	..	26.5	21.3	18.3	21.0	62	..	4.3	..	8.7	0	2	28	5	9	11	3	1	0	0	1	0	0
	2330	,,	1012.5	1010.5	..	22.5	20.3	19.1	22.1	81	..	3.0	..	4.2	0	0	21	8	1	1	0	0	0	0	11	9	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
Bihar Plateau																											
Dumka	0830	149	1014.8	997.6	−1.0	21.5	18.0	15.7	17.8	69	+2	0.6	−0.6	4.3	0	0	24	3	1	1	8	3	4	3	1	6	0
	1730	,,	1011.1	994.1	..	24.3	19.3	16.1	18.3	60	..	0.6	..	1.3	0	0	7	0	2	3	0	0	1	1	0	23	0
Daltonganj	0830	221	1016.6	991.0	+0.1	18.2	15.7	13.8	15.8	74	−2	0.8	−0.4	1.7	0	0	30	3	7	9	1	4	3	1	2	0	0
	1730	,,	1011.0	986.0	..	24.9	18.0	13.1	15.1	49	..	0.6	..	2.6	0	0	30	1	8	0	0	11	5	2	3	0	0
Hazaribagh	0830	611	1015.1	946.1	−0.3	19.2	14.3	10.7	12.9	58	+1	1.0	−0.5	6.0	0	0	20	6	5	0	0	0	0	0	9	10	0
	1730	,,	1012.3	943.5	..	19.5	15.0	11.7	13.7	61	..	1.6	..	5.1	0	0	29	6	3	0	0	0	0	0	20	1	0
Dhanbad	0830	257	1014.3	984.9	..	21.5	16.6	12.9	14.9	58	..	0.7	..	1.9	0	0	14	1	3	0	0	0	1	5	3	16	1
	1730	,,	1011.3	982.2	..	23.6	17.5	13.1	15.1	52	..	0.7	..	0.4	0	0	5	1	1	0	0	0	0	1	2	25	0
Ranchi	0830	655	1014.0	939.8	−1.9	17.5	13.8	10.9	13.0	66	+8	1.3	−0.5	0.9	0	0	14	12	0	0	1	0	0	0	1	16	0
	1730	,,	1011.0	937.8	..	20.7	15.2	10.2	12.4	56	..	1.7	..	0.5	0	0	8	4	0	0	1	0	1	0	2	22	0
Ranchi Aerodrome	0530	652	1013.8	939.5	..	14.7	12.1	9.9	12.2	72	..	1.9	..	5.7	0	0	20	11	0	1	0	0	0	1	7	10	0
	0830	,,	1014.7	941.3	..	19.5	14.4	10.5	12.7	57	..	2.0	..	12.0	0	1	27	19	5	0	0	0	0	1	3	2	0
	1130	,,	1012.8	940.8	..	23.1	15.5	9.7	12.0	43	..	2.7	..	17.7	0	8	21	19	5	2	0	0	0	0	3	1	0
	1430	,,	1010.2	938.3	..	25.9	15.9	9.9	12.2	41	..	2.7	..	16.3	0	8	21	17	3	3	0	0	3	1	2	1	0
	1730	,,	1011.1	938.6	..	21.7	15.4	10.7	12.9	50	..	2.9	..	12.0	0	1	28	21	2	3	0	0	1	0	2	1	0
Jamshedpur	0830	129	1014.6	999.6	−1.0	20.5	17.1	14.7	16.7	70	−1	1.4	−0.8	1.8	0	0	17	4	2	0	0	0	0	4	7	13	0

(R) Register not received.

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—(Contd.)																											
Jamshedpur—contd.	1730	129	1010·8	996·1	..	24·6	19·4	16·1	18·3	59	..	1·7	..	0·4	0	0	5	2	2	0	0	0	0	0	1	25	0
Jamshedpur (P.B.O.)	0530	142	1013·3	996·7	..	16·6	15·2	14·1	16·1	86	..	1·9	..	1·9	0	0	12	1	0	0	0	1	2	4	4	18	0
	0830	,,	1015·1	998·6	..	21·1	17·1	14·3	16·3	65	..	1·7	..	5·1	0	0	29	3	0	0	0	3	2	11	10	1	0
	1130	,,	1013·3	997·3	..	26·0	18·6	13·5	15·5	46	..	2·2	..	7·1	0	0	30	5	3	1	0	2	3	3	13	0	0
	1430	,,	1010.7	994.7	..	27·3	18·7	12·6	14·6	40	..	2·4	..	7·9	0	1	29	8	2	2	0	0	1	4	13	0	0
	1730	,,	1011.2	995.0	..	24·4	18·8	15·1	17·1	57	..	2·2	..	1·5	0	0	9	3	0	0	0	0	1	2	3	21	0
	2330	,,	1013·2	996·7	..	18·3	16·4	14·9	16·9	81	..	1·3	..	2·5	0	0	15	1	1	0	0	1	2	3	7	15	0
Chaibasa	0830	226	1015·1	988·9	—0·7	20·6	17·2	14·8	16·8	70	—4	1·9	—0·1	1·2	0	0	11	0	3	0	1	1	6	0	0	19	0
	1730	,,	1011·0	985·3	..	24·0	18·5	14·8	16·8	54	..	1·8	..	0·2	0	0	2	0	1	0	0	0	1	0	0	28	0
Bihar Plains																											
Motihari	0830	66	1015·4	1007·6	—0·4	20·4	17·7	15·9	18·1	75	0	0·6	—0·1	1·3	0	0	16	3	5	2	0	0	2	2	2	14	0
	1730	,,	1011·7	1004·0	..	22·0	19·1	17·3	19·7	75	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Forbesganj	0830	61	1014·9	1007·9	..	21·1	18·4	16·7	19·0	76	..	1·0	..	1·3	0	0	17	2	5	4	0	0	1	4	1	13	0
	1730	,,	1011·1	1004·4	..	24·1	20·4	18·3	21·0	69	..	1·1	..	0·4	0	0	5	0	0	0	0	0	0	5	0	25	0
Darbhanga	0830	49	1015·4	1009·7	—0·4	23·8	19·3	16·5	18·8	64	—11	0·5	—0·5	0·8	0	0	10	0	0	2	1	1	1	3	2	20	0
	1730	,,	1011·8	1006·3	..	25·5	20·9	18·3	21·0	64	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Chapra	0830	58	1015·3	1008·7	..	20·5	17·0	14·5	16·5	67	..	0·5	..	1·3	0	0	16	0	0	0	0	0	7	3	6	14	0
	1730	,,	1015·6	1008·9	..	19·5	16·5	14·3	16·3	72	..	0·1	..	2·2	0	0	26	0	0	0	0	0	9	14	3	4	0
Purnea	0830	38	1014·9	1010·5	—1·1	21·5	18·4	16·3	18·6	74	—7	0·7	—0·3	1·5	0	0	19	1	3	3	0	0	5	6	1	11	0
	1730	,,	1011·3	1007·0	..	23·4	20·3	18·7	21·6	73	..	0·8	..	0·3	0	0	3	0	0	0	0	0	1	2	0	27	0
Patna	0830	53	1015·1	1009·0	—1·0	20·4	16·8	14·2	16·2	68	+3	0·6	—0·5	5·3	0	0	29	1	2	0	0	3	14	8	1	1	0
	1730	,,	1011·7	1005·7	..	24·6	19·0	15·3	17·4	56	..	0·8	..	2·6	0	0	16	1	0	0	0	2	3	9	1	14	0
Patna Aerodrome	0530	60	1012·7	1005·7	..	15·2	14·0	13·0	15·0	87	..	0·8	..	1·6	0	0	10	0	0	0	0	2	4	1	3	20	0
	0830	,,	1014·8	1007·9	..	20·2	16·6	14·0	16·0	68	..	0·1	..	4·7	0	0	21	1	1	1	0	1	6	6	5	9	0
	1130	,,	1013·8	1007·0	..	26·3	18·3	12·5	14·5	43	..	0·9	..	8·1	0	0	27	5	3	0	2	1	1	5	10	3	0
	1430	,,	1011·3	1004·5	..	27·6	18·1	10·9	13·0	36	..	1·3	..	8·7	0	0	28	2	2	1	2	2	1	4	13	2	1
	1730	,,	1011·5	1004·6	..	23·3	18·7	15·7	17·8	63	..	1·3	..	1·3	0	0	7	1	0	0	0	1	1	2	2	23	0
	2330	,,	1012·8	1005·8	..	17·1	15·7	14·7	16·7	85	..	0·5	..	0·7	0	0	5	0	0	0	0	0	0	2	3	25	0
Bhagalpur	0530	49	1013·2	1007·5	..	17·5	15·9	14·7	16·7	84	..	2·0	..	3·0	0	0	20	0	0	1	0	5	7	7	0	10	0
	0830	,,	1015·4	1009·7	—0·6	21·9	17·8	15·0	17·0	64	—4	1·8	+0·9	3·9	0	0	26	0	2	0	0	0	9	8	7	4	0
	1130	,,	1014·0	1008·5	..	25·4	19·4	15·5	17·6	55	..	2·2	..	6·2	0	0	29	1	2	5	0	1	2	11	7	1	0
	1730	,,	1011·7	1006·2	..	23·8	19·0	15·9	18·1	61	..	2·8	..	3·0	0	0	21	0	0	0	0	2	8	10	1	9	0
	2330	,,	1013·3	1007·7	..	19·8	17·0	15·1	17·1	74	..	1·7	..	4·3	0	0	25	0	0	0	0	2	19	3	1	5	0
Sabaur	0830	37	1015·1	1010.7	—0.3	20.5	18·0	16.3	18 5	77	+1	1.3	—0.1	2 5	0	0	25	4	1	0	1	1	3	7	8	5	0
	1730	,,	1011.5	1007.2	..	24.5	20.8	18.7	21·6	70	..	1.5	..	0.5	0	0	5	0	0	0	0	0	0	2	3	25	0
Jamui	0830	82	1015·7	1006·2	..	20·0	18·3	17·3	19·7	84	..	0	..	3·0	0	0	30	3	3	2	3	0	0	11	8	0	0
	1730	,,	1010·9	1001·3	..	21·2	18·6	17·0	19·4	77	..	0	..	3·5	0	0	30	1	0	5	2	0	0	21	1	0	0
Dehri	0830	107	1015·4	1002·9	..	19·9	16·8	14·6	16·6	72	..	1.0	..	2·4	0	0	27	0	0	0	5	8	13	1	0	3	0
	1730	,,	1011·8	999·4	..	24·7	18·3	13·9	15·9	50	..	0.9	..	2·5	0	0	25	2	1	2	0	0	1	14	5	5	0
Gaya	0230	116	1013·3	999·6	..	14·8	14·3	13·9	15·9	94	..	0·3	..	0·9	0	0	13	0	0	1	2	7	3	0	0	17	0
	0530	,,	1013·8	1000.0	..	13·5	13·2	12·9	14·9	96	..	0·6	..	1·5	0	0	20	0	0	0	5	10	5	0	0	10	0
	0830	,,	1015·7	1002·1	—0·4	19·2	16·7	14·9	16·9	77	+13	0·9	—0·3	1·9	0	0	22	0	0	0	1	5	12	4	0	8	0
	1130	,,	1014·6	1001·4	..	25·8	18·1	12·5	14·5	45	..	1·0	..	4·9	0	0	27	5	3	3	0	0	2	1	13	3	0
	1730	,,	1012·1	998·7	..	23·7	18·0	14·1	16·1	55	..	1·0	..	1·8	0	0	19	2	6	0	0	0	1	3	7	11	0
	2330	,,	1013·9	1000·3	..	16·3	15·1	14·1	16·2	87	..	0·3	..	1·0	0	0	14	0	0	0	1	8	3	2	0	16	0
Uttar Pradesh (East)																											
Kheri	0830	147	1014·6	997·2	—1·5	15·9	13·8	12·0	14·0	78	+4	0·3	—0·1	0·2	0	0	3	0	0	0	0	0	0	3	0	27	0
	1730	,,	1011·6	994·5	..	23·5	17·8	13·7	15·7	54	..	0·4	..	0·3	0	0	4	0	0	0	0	0	0	4	0	26	0
Bahraich	0830	124	1015·7	1001·1	0	18·3	15·3	12·9	14·9	71	—2	0·6	0	1·2	0	7	19	0	1	1	0	0	0	7	0	21	0
	1730	,,	1012·3	998·2	..	23·5	17·7	13·5	15·5	53	..	0.6	..	0·5	0	0	5	0	0	0	0	0	0	3	2	25	0
Nautanwa	0830	99	1013·8	1002·1	..	19·0	16·6	14·9	16·9	77	..	0·2	..	1·1	0	0	17	1	4	3	4	0	1	1	3	13	0
	1730	,,	1010·9	999·5	..	24·1	18·4	14·5	16·5	56	..	0·1	..	0·3	0	0	5	0	0	0	0	0	1	1	3	25	0
Hardoi	0830	142	..	..	..	17·0	13·5	10·6	12·8	67	—8	0·2	+0.2	2·7	0	3	23	5	0	2	0	1	0	7	11	4	0
	1730	,,	..	..	..	23·9	17·9	13·7	15·7	54	..	0·2	..	3·4	0	0	10	1	0	0	0	0	0	3	6	20	0
Gonda	0830	110	1015·7	1002·8	..	19·5	15·6	12·3	14·3	68	—12	0·4	—0·3	1·5	0	0	17	1	0	2	0	0	0	6	8	13	0
	1730	,,	1012·4	999·9	..	22·2	17·2	13·6	15·8	57	..	0·2	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Lucknow	0830	111	1014·9	1001·9	—1·0	18·0	14·4	11·3	13·4	65	—5	0·5	—0·3	0·7	0	0	10	0	0	0	0	0	0	6	4	20	0

Sub-Division and station	Hour of observation I. S. T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C.: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Lucknow—contd.	1730	111	1012·2	999·6	..	25·5	17·4	11·3	13·4	43	..	0·4	..	0·3	0	0	4	0	0	0	0	0	1	3	0	26	0
Lucknow (Amausi)	0230	128	1013·2	998·0	..	12·0	10·5	9·0	11·5	82	..	0·2	..	2·2	0	4	12	1	0	1	0	0	1	6	7	14	0
	0530	„	1013·4	998·1	..	10·8	9·7	8·7	11·2	87	..	0·2	..	2·3	0	3	14	0	0	1	0	0	3	6	7	13	0
	0830	„	1015·4	1000·4	—0·7	17·5	13·4	9·6	11·9	60	+2	0·8	0	2·3	0	4	15	2	1	0	1	0	0	6	9	11	0
	1130	„	1014.6	1000·1	..	26·2	15·8	6·3	9·5	29	..	0·7	..	6·8	0	1	28	4	1	0	1	0	3	6	11	1	0
	1430	„	1012·6	957·6	..	27·6	16·0	4·7	8·5	24	..	0·8	..	7·8	0	0	30	6	1	1	1	2	1	5	13	0	0
	1730	„	1012·1	997·4	..	22·7	16·0	10·6	12·8	47	..	0·9	..	2·3	0	1	22	2	1	3	0	0	1	8	11	7	0
	2030	„	1013·8	998·7	..	15·7	12·9	10·4	12·6	71	...	0·4	..	1·6	0	0	14	1	1	0	0	0	3	7	2	16	0
	2330	„	1013·9	998·8	..	13·5	11·4	9·4	11·8	77	..	0·1	..	1·7	0	0	15	1	2	0	0	0	1	8	3	15	0
Faizabad	0830	102	1014·8	1003·0	..	18·3	15·0	12·5	14·5	69	..	1·0	..	1·3	0	0	14	0	2	0	1	0	0	10	1	16	0
	1730	„	1012·0	1000·3	..	21·2	16·9	14·1	16·1	63	..	1·1	..	0·1	0	0	2	0	0	0	0	0	1	0	1	28	0
Gorakhpur	0830	77	1014·6	1005·5	—1·2	20·6	16·1	12·6	15·5	60	—3	0·3	—0·3	0·9	0	0	14	1	0	0	0	1	2	6	4	16	0
	1730	„	1011·1	1002·3	..	25·7	18·6	13.6	15·6	48	..	0·6	..	0·7	0	0	10	1	0	0	0	0	2	6	1	20	0
Gorakhpur P.B.O.	0230	78	1012·8	1003·3	..	17·9	..	..	..	..	..	0·1	..	0·5	0	0	4	0	1	0	0	0	0	3	0	26	0
	0530	„	1012·9	1003·8	..	16·7	..	..	..	..	..	0·2	..	0·5	0	0	4	1	0	0	0	1	0	0	2	26	0
	1130	„	1014·3	1005·2	..	25·7	..	..	..	..	..	0·6	..	4·7	0	0	26	4	1	1	1	7	1	6	5	4	0
	1430	„	1011·3	1002·7	..	25·9	..	..	..	..	..	0·6	..	3·7	0	0	25	3	0	1	2	4	0	9	6	5	0
	2030	„	1013·0	1004·0	..	20·9	..	..	..	..	..	0·1	..	0·9	0	0	8	1	0	0	0	0	1	4	2	22	0
	2330	„	1013·2	1004·0	..	19·2	..	..	..	..	..	0·1	..	0·5	0	0	5	2	0	0	0	0	0	2	1	25	0
Kanpur	0830	126	1015·1	1000·2	—1·1	15·8	12·7	9·9	12·2	69	+2	0·2	—0·3	1·9	0	0	15	3	0	0	0	0	0	8	4	15	0
	1730	„	1011·6	997·3	..	26·0	16·9	9·2	11·9	36	..	0·1	..	2·3	0	0	18	10	0	0	0	0	0	4	4	12	0
Kanpur (Aerodrome)	0530	126	1013·7	998·7	..	12·3	10·3	8·3	10·9	77	..	0·6	..	5·1	0	0	24	4	1	2	0	0	2	12	3	6	0
	0830	„	1015·5	1000·8	..	18·2	13·3	8·4	11·0	55	..	0·8	..	6·4	0	0	25	5	0	0	0	0	3	12	4	5	0
	1130	„	1014·5	1000·5	..	26·7	15·9	5·7	9·2	27	..	0·9	..	10·6	0	0	30	5	4	2	0	0	4	8	5	0	0
	1730	„	1012·1	997·8	..	24·8	15·8	7·6	10·4	34	..	1·3	..	6·9	0	0	29	7	3	3	0	0	1	5	10	1	0
	2330	„	1014·2	999·2	..	15·5	12·1	8·9	11·4	66	..	0·2	..	2·9	0	0	15	1	0	0	0	0	0	11	3	15	0
Sultanpur	0830	97	1015·8	1004·4	..	17·9	14·2	11·1	13·2	64	..	0·5	..	0·5	0	0	6	0	0	0	0	0	2	4	0	24	0
	1730	„	1011·9	1000·9	..	24·6	18·4	14·0	16·0	52	..	0·4	..	0·4	0	0	5	0	0	0	9	0	0	5	0	25	0
Azamgarh	0830	78	1015·5	1006·4	..	17·9	15·6	13·7	15·7	77	..	0·7	..	5·4	0	0	30	5	0	1	0	0	0	24	0	0	0
	1730	„	1011·8	1002·9	..	24·0	18·8	15·4	17·5	60	..	0·4	..	5·1	0	0	30	0	0	2	0	0	0	28	0	0	0
Fatehpur	0830	114	1015·6	1002·3	..	17·6	13·4	9·8	12·1	61	+1	0·4	—0·6	3·3	0	0	25	0	2	1	0	1	4	8	9	5	1
	1730	„	1012·2	999·1	..	23·9	16·7	11·0	13·1	44	..	0·1	..	0·5	0	0	7	2	3	1	0	0	0	0	1	23	0
Ballia	0830	64	1016·2	1008.7	..	20·8	16·8	13·8	15·8	64	..	0·5	..	0·8	0	0	11	0	0	1	0	0	0	7	3	19	0
	1730	„	1012·9	1005·6	..	25·0	19·2	15·5	17·6	56	..	0·6	..	0·3	0	0	2	0	0	0	0	0	0	2	0	28	0
Banda	0830	121	1016·6	1002·7	..	17·6	13·6	9·9	12·2	61	..	0·6	..	0·9	0	0	12	1	0	0	1	0	1	8	1	18	0
	1730	„	1012·7	1000·2	..	25·9	18·2	12·3	14·3	44	..	0·5	..	0·8	0	0	13	0	1	1	1	0	4	4	2	17	0
Allahabad (Bamhrauli)	0230	98	1013·3	1001·7	..	14·5	12·1	9·9	12·3	74	..	0·3	..	0·3	0	0	4	0	1	0	0	0	0	3	0	26	0
	0530	„	1013·7	1002·0	..	13·1	11·3	9·6	12·2	79	..	0·5	..	0·5	0	0	5	1	0	0	0	0	0	3	1	25	0
	0830	„	1015·7	1004·2	—0·5	17·9	13·8	10·3	12·6	61	—6	1·1	..	1·7	0	0	17	0	0	0	1	1	2	12	1	13	0
	1130	„	1014·9	1003·8	..	27·1	16·7	7·8	10·7	30	..	0·9	+0·9	2·8	0	0	23	2	2	3	3	1	0	8	4	7	0
	1430	„	1012·2	1001·1	..	28·6	17·1	7·1	10·2	26	..	1·1	..	4·1	0	0	26	4	3	0	1	0	1	5	12	4	0
	1730	„	1012·2	1001·1	..	25·0	17·5	11·9	14·0	44	..	1·2	..	0·3	0	0	4	0	1	0	0	0	0	0	3	26	0
	2030	„	1013·8	1002·4	..	18·6	14·5	11·3	13·3	62	..	0·5	..	0·3	0	0	3	1	1	0	0	0	0	1	0	27	0
	2330	„	1014·1	1002·5	..	16·0	13·1	10·7	12·5	71	..	0·2	..	0·5	0	0	6	1	1	0	0	0	1	3	0	24	0
Varanasi (Babatpur).	0530	85	1014·2	1004·1	..	16·2	13·3	10·9	13·0	71	..	0·9	..	1·5	0	0	9	0	0	0	0	0	9	0	0	21	0
	0830	„	1016·6	1006·3	—0·5	18·7	15·3	12·6	14·6	68	+05	0·9	+0·2	6·5	0	0	25	1	0	0	1	0	10	11	1	5	1
	1130	„	1015·9	1005·6	..	25·6	17·2	10·5	12·7	39	..	1·0	..	8·7	0	0	30	3	1	1	2	1	2	16	3	0	1
	1730	„	1012·9	1003·2	..	24·8	17·5	11·9	13·9	45	..	1·1	..	2·8	0	0	13	1	0	0	1	0	0	9	1	17	1
	2330	„	1014·6	1004·5	..	19·7	15·3	11·9	13·9	61	..	0·4	..	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
Varanasi	0830	76	1015·3	1006·3	—0·9	18·8	15·0	12·1	14·1	63	—05	0·6	—0·4	2·0	0	0	30	0	0	0	1	0	1	25	3	0	0
	1730	„	1011·5	1003·5	..	25·6	18·8	14·0	16·0	49	..	0·8	..	1·1	0	0	16	10	1	0	0	0	3	11	1	14	0
Uttar Pradesh (West)																											
Mukhim	0830	..	..	..	..	12·4	6·6	—1·2	5·5	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·2	6·9	0·1	6·1	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	11·2	9·4	7·6	10·4	79	..	0·4	..	1·1	0	0	8	0	0	8	0	0	0	0	0	22	0
	1130	..	..	..	..	19·5	12·6	6·5	9·6	43	..	0·6	..	2·0	0	0	15	0	0	5	1	5	1	3	0	15	0

Sub-Division and station	Hour of observation I.S.T	Station elevation level in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variabl
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Tehri (contd.)	1730	..	..	..	..	20·3	13·5	7·8	10·6	45	..	0·8	..	5·8	0	1	25	0	0	3	7	12	2	1	0	5	0
Dehra Dun	0530	682	1015·5	936.6	..	11·1	9·1	7·3	10·2	78	..	0·5	..	0·7	0	0	8	4	4	0	0	0	0	0	0	22	0
	0830	,,	1016·0	937·9	—0·4	14·6	11·4	8·8	11·3	69	—3	0·4	—0·7	0·4	0	0	6	4	1	0	0	0	0	1	0	24	0
	1130	,,	1014·2	938·2	..	22·5	14·6	8·0	10·7	40	..	0·6	..	0·9	0	0	12	0	0	0	2	4	2	3	1	18	0
	1730	,,	1012·4	936·1	..	20·9	15·4	1·5	13·6	55	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	2330	,,	1015·5	937·5	..	14·1	11·2	8·7	11·2	70	..	0·2	..	2·9	0	0	19	7	12	0	0	0	0	0	0	11	0
Mussoorie	0830	,,	..	..	..	10·2	4·8	4·2	4·3	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	8·3	4·8	0·5	6·3	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1015.9	983·7	—0.5	14·3	11·8	9·3	11·7	72	—4	0·6	—0.1	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1013·0	981·7	..	22·0	15·2	9·5	11·9	46	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Najibabad	0830	270	1016·3	984·5	..	13·3	11·6	9·7	12·0	81	..	0·6	..	0·4	0	0	4	2	1	0	0	0	0	1	0	26	0
	1730	,,	1013·1	982·4	..	23·4	16·4	10·6	12·8	45	..	0·5	..	2·1	0	0	24	0	0	0	0	0	1	15	8	6	0
Meerut	0830	222	1016.3	990.3	+0.2	16·3	12.2	8·0	10.7	58	—11	0	—0.6	2.3	0	0	15	0	1	0	0	1	0	6	7	15	0
Bareilly	0830	173	1015·4	995.0	—0.7	15.8	13.8	12.1	14.1	79	+5	0.3	—0.4	1·9	0	0	22	5	3	4	5	0	0	1	4	8	0
	1730	,,	1012.1	992.3	..	23.6	17.1	12.1	14.1	49	..	0.7	..	0.9	0	0	11	3	0	0	0	1	0	7	0	19	0
Bareilly P.B.O.	0230	172	1013.3	993.7	..	16.2	12.6	9.9	12.2	67	..	0.1	..	0.9	0	0	10	0	2	0	0	0	0	6	2	20	0
	0530	,,	1013.3	993.0	..	14.8	12.2	10.7	12·9	75	..	0	..	1.7	0	0	15	0	2	0	0	0	0	10	3	15	0
	1130	,,	1014.8	995.2	..	23.1	15.8	10.6	12.8	46	..	0.4	..	3.5	0	0	25	4	1	3	1	0	1	12	3	5	0
	1430	,,	1012.1	992.8	..	29.8	16.2	9.6	11.9	28	..	0.5	..	4.5	0	0	26	1	3	0	0	1	1	12	8	4	0
	2030	,,	1013.5	993.8	..	19.2	14.5	11.0	13.1	59	..	0.1	..	0.5	0	0	5	0	0	0	0	0	1	3	1	25	0
	2330	,,	1013.9	993.7	..	17.5	13.3	10.1	12.3	62	..	0.1	..	0.7	0	0	7	0	1	0	0	0	0	4	2	23	0
Aligarh	0830	187	1016.0	993.6	..	16.5	12.2	8.0	10.7	58	+8	1.0	+0.4	1.9	0	0	24	2	0	2	0	1	1	13	5	6	0
	1730	,,	1012.7	990.9	..	24.9	16.7	10.0	12 3	39	..	1.3	..	1.1	0	0	17	8	0	0	0	0	0	7	2	13	0
Mainpuri	0830	157	1014.9	996.3	—1.4	16.5	13.0	10.0	12·3	66	+5	0	—0.8	2.2	0	0	22	1	1	0	0	0	5	0	15	8	0
	1730	,,	1012.1	994.3	..	23.8	17.9	13.7	15.7	53	..	0	..	0.7	0	0	7	0	0	0	0	0	2	0	5	23	0
Agra	0830	169	1014.7	996·6	0	16.4	12.0	7.8	10.5	57	+3	0	—0·8	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1012.8	993.5	..	23.4	16.8	11.5	13.6	47	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Agra (Aerodrome)	0530	,,	1014.5	994.5	..	10.4	9.0	7.4	10.3	82	..	0.3	..	1.7	0	0	10	3	1	0	1	0	0	1	4	20	0
	0830	,,	1016.2	996.3	..	15.5	12.2	8.8	11.3	66	..	1.0	..	3.3	0	0	19	5	3	1	0	0	1	1	8	11	1
	1130	,,	1015.4	995.9	..	25.7	16.8	9·6	12.0	36	..	0.7	..	9·1	0	0	28	8	1	0	1	0	1	2	14	2	0
	1730	,,	1012.7	993.7	..	23.1	16.3	10.8	12.5	46	..	1.3	..	4.8	0	0	20	13	1	0	1	0	0	0	5	10	0
	2330	,,	1014.8	994.7	..	13.3	11.1	8.7	11.2	76	..	0.4	..	0·7	0	0	3	2	1	0	0	0	0	0	0	27	0
Orai (R)	0830	141																									
	1730	,,																									
Jhansi	0830	251	1017.3	988.1	+0·4	18.6	13.4	8.1	10.8	52	+1	0.5	—0.3	1.7	0	0	22	14	0	1	0	0	0	1	6	8	0
	1730	,,	1012.4	984.2	..	27.0	16.7	8.0	10.7	30	..	0.3	..	1.1	0	0	16	4	0	6	0	3	0	1	2	14	0
Punjab (India) (Including Delhi)																											
Pathankot	0530	312	1015.1	978.1	..	10.3	8.5	6.5	9.7	78	..	0.6	..	2.6	0	0	13	4	6	1	0	0	2	0	0	17	0
	0830	,,	1016.2	979.5	—0·2	14.4	10.8	7.2	10.2	62	+1	0.9	..	2.4	0	0	13	2	4	2	1	1	1	1	1	17	0
	1130	,,	1015.7	980.1	..	23.0	14.7	6.8	9.9	36	..	0.9	..	5.6	0	0	27	3	2	3	1	11	5	1	1	3	0
	1730	,,	1013.1	977.5	..	22.1	14.1	6.4	9.7	37	..	1.1	..	2.8	0	0	17	3	0	0	0	1	3	9	1	13	0
	2330	,,	1016.0	979.2	..	12.5	10.1	7.7	10.5	73	..	0.8	..	2.4	0	0	13	3	7	1	0	0	1	1	0	17	0
Amritsar (Rajasansi)	0530	234	1015.1	986.9	..	8.2	7.4	6.4	9.7	88	..	0.6	..	3.2	0	0	15	1	4	14	0	0	2	2	2	15	0
	0830	,,	1016.5	988.6	—0.3	11.5	9.8	8.0	10.7	79	+1	0.8	—0.5	1.7	0	0	10	1	1	4	1	0	1	0	2	20	0
	1130	,,	1016.2	989.3	..	22·5	15.4	9.3	11.8	44	..	0.9	..	5.1	0	1	19	3	0	1	1	2	0	2	11	10	0
	1430	,,	1013.6	987.1	..	25.5	16.2	8.0	10.8	34	..	0.8	..	7.7	0	1	22	0	1	1	2	0	1	10	8	7	0
	1730	,,	1013.3	986.4	..	21.9	15.5	10.2	12.4	48	..	0.9	..	4.1	0	0	20	0	0	2	0	0	0	5	13	10	0
	2030	,,	1015.1	987.5	..	14.3	11.5	8.8	11.3	70	..	0.3	..	2.1	0	0	11	0	1	0	1	0	0	4	5	19	0
Adampur (Aerodrome)	0830	249	1016.5	986.9	..	11.4	10.3	9.1	11.6	86	..	0.8	..	0.3	0	0	1	0	0	0	1	0	0	0	0	29	0
	1730	,,	1013.7	985.1	..	19.7	14.4	9.8	12.1	53	..	0.9	..	6.3	0	0	24	1	0	0	1	0	2	6	14	6	0
Ludhiana	0830	247	1016.1	986.9	—0.4	13.8	10.6	7.2	10.1	69	+5	0.6	—0.4	0.7	0	0	11	1	0	0	3	0	1	2	4	19	0
	1730	,,	1013.0	983.7	..	21.7	15.7	10.8	13.0	40	..	0.5	..	0.7	0	0	10	0	1	0	0	0	0	5	4	20	0
Ferozepore	0830	200	1016.9	993.2	..	14.8	11.7	8.7	11.2	67	..	0.5	..	0.1	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1013.4	990.3	..	20.7	15.8	12.0	14.0	58	..	0.2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Halwara (Aerodrome)	0830	242	1016.5	987.9	..	12.7	10.9	9.2	11.6	79	..	0.8	..	0.6	0	0	4	0	0	1	0	0	1	1	1	26	0

(R) Register not received.

Sub Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW		Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (including Delhi)—(Contd.)																											
Halwara (Aerodrome)—contd.	1730	242	1013.5	985.7	..	20.8	14.1	7.7	10.5	44	..	1.0	..	4.0	0	0	22	4	1	0	0	1	0	1	15	8	0
Chandigarh	0830	347	1014.9	974.6	−1.0	18.4	12.1	5.1	8.8	43	−15	0.1	−0.3	0.9	0	0	10	0	0	0	3	0	0	0	7	20	0
	1730	,,	1011.3	972.3	..	23.5	14.1	4.5	8.4	30	..	0.6	..	1.0	0	0	17	0	0	0	7	0	0	0	10	13	0
Ambala	0830	272	1015.1	983.0	−1.2	14.8	10.8	6.5	9.7	58	−5	0.5	−0.5	4.0	0	0	2	0	0	0	1	0	0	0	1	28	0
	1730	,,	1012.3	981.4	..	24.5	15.7	7.7	10.5	35	..	0.3	..	0.9	0	0	8	0	0	1	5	0	0	0	2	22	0
Ambala (P.B.O.)	0230	278	1013.8	982.2	..	14.5	10.9	7.8	10.6	65	..	0.1	..	0.7	0	0	3	1	0	0	0	0	0	0	2	27	0
	0530	,,	1013.9	981.1	..	12.6	10.0	7.7	10.5	73	..	0.2	..	0.9	0	0	4	0	0	0	0	0	0	0	4	26	0
	1130	,,	1015.1	983.3	..	22.4	14.7	9.2	11.6	43	..	0.6	..	3.3	0	0	12	0	0	0	3	0	0	1	8	18	0
	1430	,,	1012.5	981.1	..	24.8	14.8	7.1	10.1	33	..	0.7	..	5.9	0	1	20	0	0	0	1	0	1	4	15	9	0
	2030	,,	1013.7	981.5	..	18.6	12.8	8.1	10.8	51	..	0.1	..	2.3	0	0	13	0	1	0	0	0	0	4	8	17	0
	2330	,,	1014.3	981.9	..	16.3	11.8	8.2	10.9	60	..	0.3	..	2.1	0	0	12	0	1	0	0	0	0	0	11	18	0
Ambala (Aerodrome)	0530	274	1014.8	981.8	..	7.5	7.1	6.6	9.7	94	..	0.1	..	0.3	0	0	1	1	0	0	0	0	0	0	0	29	0
	0830	,,	1016.0	983.5	..	12.5	11.0	9.4	11.8	82	..	0.7	..	0.8	0	0	3	0	0	0	0	0	0	0	3	27	0
	1130	,,	1015.0	983.8	..	23.7	16.0	9.5	11.9	41	..	0.6	..	7.3	0	3	17	1	0	0	3	1	2	4	7	10	2
	1730	,,	1012.6	981.2	..	20.8	15.0	10.1	12.4	50	..	0.8	..	5.6	0	0	17	0	0	0	0	1	0	4	12	13	0
	2330	,,	1015.2	982.6	..	10.8	9.6	8.4	11.0	86	..	0.2	..	0.7	0	0	3	0	0	0	0	0	0	1	2	27	0
Patiala	0830	251	1016.2	986.8	..	14.6	13.3	7.9	10.7	66	..	0.7	..	2.6	0	0	13	0	0	1	2	0	0	0	10	17	0
	1730	,,	1013.7	985.0	..	21.0	14.7	9.2	11.6	47	..	0.8	..	0.9	0	0	3	0	0	0	0	0	0	0	3	27	0
Bhatinda	0830	211	1016.3	991.3	..	17.1	13.4	10.1	12.4	63	..	0.4	..	0.3	0	0	5	0	0	0	1	1	0	0	3	25	0
	1730	,,	1013.5	939.3	..	23.9	17.7	12.9	14.9	54	..	0.5	..	0.2	0	0	3	1	0	0	0	0	0	0	2	27	0
Karnal	0830	249	1015.9	986.7	..	16.4	12.4	8.9	11.4	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1011.8	983.6	..	23.2	16.5	10.7	12.7	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1015.3	988.8	..	9.7	8.3	6.7	9.8	82	..	0.6	..	2.0	0	0	21	3	2	1	0	1	2	10	2	9	0
	0830	,,	1016.6	990.4	−0.2	12.9	10.1	7.2	10.2	68	+14	0.8	+0.2	2.3	0	0	24	1	2	0	3	2	13	3	0	6	0
	1130	,,	1016.0	990.8	..	24.4	17.1	11.1	13.2	45	..	0.5	..	2.5	0	0	26	1	3	3	5	0	4	7	3	4	0
	1730	,,	1013.1	988.0	..	24.9	18.3	13.4	15.4	50	..	0.9	..	1.9	0	0	18	7	0	0	0	0	0	3	8	12	0
	2330	,,	1015.4	989.9	..	14.0	10.8	7.5	10.4	66	..	0.2	..	1.8	0	0	20	2	3	1	2	1	0	3	8	10	0
New Delhi (Safdarjung)	0230	216	1014.2	989.6	..	13.6	10.9	8.2	10.9	70	..	0.4	..	2.6	0	0	20	1	1	0	0	1	7	8	2	10	0
	0530	,,	1014.2	988.7	..	12.3	9.9	7.2	10.1	71	..	0.3	..	4.7	0	0	27	1	0	0	0	3	13	8	2	3	0
	0830	,,	1016.1	990.6	−0.2	15.0	11.2	7.2	10.1	61	+11	0.9	+0.3	7.5	0	0	27	0	0	0	0	1	9	13	4	3	0
	1130	,,	1015.6	990.8	..	24.2	15.4	7.5	10.4	35	..	0.6	..	8.4	0	1	28	3	0	2	1	0	6	7	9	1	1
	1430	,,	1012.8	988.3	..	26.8	16.0	6.1	9.4	28	..	0.9	..	10.7	0	3	25	4	1	0	1	0	2	9	11	2	0
	1730	,,	1012.6	987.8	..	24.5	16.0	8.0	11.2	37	..	1.3	..	3.7	0	0	22	3	0	0	0	0	2	3	14	8	0
	2030	,,	1014.4	989.1	..	17.4	13.5	10.0	12.3	62	..	0.9	..	2.5	0	0	16	0	2	0	0	1	1	6	6	14	0
	2330	,,	1014.8	998.3	..	14.9	12.0	9.0	11.5	68	..	0.7	..	2.9	0	1	13	1	0	0	0	0	4	5	4	16	0
Palam (Aerodrome)	0230	233	1014.3	986.9	..	12.7	10.1	7.3	10.2	69	..	0.3	..	2.0	0	0	14	1	2	2	1	0	8	0	0	16	0
	0530	,,	1014.7	987.1	..	10.6	8.5	5.8	14.2	76	..	0.1	..	4.6	0	0	24	1	1	1	1	2	15	3	0	6	0
	0830	,,	1016.1	988.7	..	14.1	10.9	7.2	10.1	65	..	0.7	..	3.7	0	0	22	1	0	1	0	0	12	0	2	8	0
	1130	,,	1015.6	989.0	..	23.0	15.9	9.9	12.2	45	..	0.7	..	6.7	0	0	27	4	0	1	1	1	3	10	7	3	0
(R)	1430	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1012.6	986.5	..	23.9	16.1	9.4	11.8	41	..	1.2	..	5.2	0	0	27	6	4	1	0	0	0	6	10	3	0
(R)	2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	1015.1	987.6	..	15.0	11.6	8.2	10.9	64	..	0.2	..	2.5	0	0	15	2	5	1	2	0	4	1	0	15	0
Himachal Pradesh																											
Mandi	0830	761	1019.2	930.8	−0.4	8.5	7.3	5.9	9.3	83	−10	0.4	−1.7	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1014.5	929.0	..	17.5	13.1	9.5	11.9	60	..	1.1	..	0.1	0	0	2	0	0	0	0	1	1	0	0	28	0
Bilaspur	0830	587	1012.3	945.2	..	15.0	12.7	10.8	13.0	76	..	0	..	0.6	0	0	6	0	6	0	0	0	0	0	0	24	0
	1730	,,	1012.6	948.0	..	27.4	20.8	16.9	19.3	56	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jammu and Kashmir																											
Misgar (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gilgit (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Skardu (R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(Contd.)																											
Leh	0530	3514	3134·8	667·8	..	7·0	−9·8	−18·0	1·2	40	..	0·7	..	(b) 5·7	0	0	29	8	19	0	0	1	1	0	0	0	0
	0830	,,	3146·6	669·0	+0·2	0·5	−3·4	−10·4	2·5	44	−12	0·9	−1·7	1·7	0	0	12	0	1	1	0	9	1	0	0	18	0
	1730	,,	3137.1	669·5	..	5·9	0·3	−8·8	2·9	38	..	1·7	..	4·5	0	0	30	0	1	0	1	6	18	0	4	0	0
Srinagar	0830	1587	1544·2	845·7	−0·6	1·1	0	−1·5	5·4	83	−1	1·2	−1·0	1·1	0	0	12	0	0	4	7	0	0	1	0	18	0
	1130	,,	1540.1	845.5	..	10.2	5.2	−0.9	5.6	47	..	1.2	..	1.7	0	0	15	5	0	1	0	1	0	3	5	15	0
	1430	,,	1514·7	842·9	..	14·5	7·4	−0·9	5·7	36	..	1·8	..	3·5	0	0	26	4	1	0	2	0	0	4	15	4	0
	1730	,,	1509·5	842·3	..	11·6	6·6	1·0	6·5	49	..	1·8	..	1·6	0	0	15	3	1	0	0	1	0	2	8	15	0
	2030	,,	1521·6	843·4	..	5·3	3·4	1·0	6·6	74	..	1·1	..	1·3	0	0	10	1	0	0	1	3	1	2	2	20	0
Srinagar (Aerodrome)	0530	1666	1522·4	835·4	..	1·2	−1.0	−4·7	4·1	65	..	0·9	..	0·0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1536·4	837·0	..	3·5	0·6	−3·9	4·5	59	..	1·4	..	1·6	0	0	8	1	0	0	2	1	0	3	1	22	0
	1130	,,	1535·1	837·1	..	10·1	4·5	−2·6	4·9	41	..	1·8	..	3·1	0	0	15	8	3	1	1	0	0	0	2	15	0
	1730	,,	1503·8	834·1	..	11·4	6·0	−1·4	5·4	42	..	1·9	..	3·1	0	0	15	3	0	0	1	0	0	1	10	15	0
	2330	,,	1522·2	835·6	..	4·9	1·5	3·6	4·6	55	..	1·0	..	0·6	0	0	3	1	1	0	0	0	0	0	0	27	0
Gulmarg	0830	2655				Closed during winter Months																					
	1730	,,				Closed during winter Months																					
Quazigund	0830	..	..	..	..	3·5	0·8	−3·5	4·6	62	..	1·2	..	1·4	0	0	21	0	0	0	18	2	1	0	0	9	0
	1730	..	..	..	..	10·8	5·6	−1·0	5·6	46	..	1·5	..	3·1	0	0	23	0	0	0	8	7	8	0	0	7	0
Banihal	0830	..	..	..	..	3·8	1·4	−2·0	5·2	68	..	0·9	..	1·5	0	0	3	1	0	0	0	0	0	0	2	27	0
	1730	..	..	..	..	13·8	6·9	−1·0	5·6	39	..	1·4	..	3·7	0	0	13	0	0	0	1	5	2	0	5	17	0
Jammu	0830	366	..	..	..	13·2	9·1	5·1	8·8	58	+2	0·7	−0·3	12·4	0	0	30	1	10	0	0	0	0	0	0	0	19
	1730	,,	..	..	..	21·2	14·5	8·6	11·0	44	..	0·2	..	0·5	0	0	7	0	0	0	0	0	0	0	0	23	7
Jammu (Aerodrome)	0530	292	1014·9	980·2	..	12·5	9·1	4·9	8·7	59	..	0·4	..	7·8	0	0	25	2	22	1	0	0	0	0	0	5	0
	0830	,,	1015·7	982·4	..	13·9	10·2	6·2	9·5	60	..	1·0	—	6·6	0	0	28	1	24	3	0	0	0	0	0	2	0
	1130	,,	1016·3	982·5	..	21·5	14·0	7·2	10·1	40	..	0·9	..	5·0	0	0	22	1	5	1	5	4	4	1	1	8	0
	1730	,,	1013·4	979·8	..	21·2	15·2	10·5	12·7	50	..	1·0	..	2·3	0	0	13	0	3	0	0	0	3	6	1	17	0
	2330	,,	1015·6	980·0	..	14·2	10·5	6·3	9·5	59	..	0·6	..	7·5	0	0	28	3	24	1	0	0	0	0	0	2	0
Rajasthan (West)—Ganganagar—	0530	177	1014·9	993·9	..	10·4	8·4	6·1	9·4	75	..	0·9	..	0·5	0	0	3	0	2	0	0	1	0	0	0	27	0
	0830	,,	1016·1	995·2	0	11·7	9·0	5·8	9·2	68	+5	0·6	−0·1	0·8	0	0	10	0	2	3	4	0	1	0	0	20	0
	1130	,,	1015·9	995·7	..	24·1	14·6	5·1	8·7	31	..	0·9	..	4·0	0	0	23	2	1	1	6	3	5	0	5	7	0
	1730	,,	1013·1	992·9	..	24·8	16·1	8·7	11·2	37	..	0·8	..	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
	2330	,,	1015·3	994·3	..	13·7	10·5	7·1	10·0	64	..	0·2	..	0·6	0	0	4	0	2	2	0	0	0	0	0	26	0
Anupgarh (R)	0830	154																									
(R)	1730	,,																									
Mahajan	0830	187	1015·0	993·1	..	14·1	10·0	7·0	10·0	63		0·6	..	(b) 4·0	0	0	26	2	8	5	5	1	5	0	0	3	0
	1730	,,	1011·4	989·8	..	25·6	17·7	11·7	13·7	43		0·6	..	(b) 2·5	0	0	20	0	5	0	7	0	2	0	6	9	0
Churu	0830	291	1017·0	982·6	..	13·4	7·7	−0·5	5·9	39	..	1·0	..	2·3	0	0	19	0	0	6	3	5	4	1	0	11	0
	1730	,,	1012·7	979·7	..	25·9	13·7	−1·0	5·6	18	..	1·2	..	3·2	0	0	24	14	4	1	0	0	1	1	3	6	0
Bikaner	0830	224	1016·1	989·5	−0.4	13·2	7·4	−1·2	5·5	38	−7	0·3	−0.7	0·5	0	0	8	0	0	1	3	2	1	1	0	22	0
	1730	,,	1012·3	987·1	..	27·4	15·3	2·6	7·4	21	..	0·5	..	1·5	0	0	15	3	6	1	0	0	1	3	1	15	0
Bikaner P.B.O.	0530	224	1015·1	987·9	..	9·1	5·9	1·5	6·9	60	..	0·9	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
	1130	,,	1015·4	990·0	..	26·5	15·6	5·1	8·9	26	..	0·8	..	2·1	0	0	14	0	3	0	4	2	4	0	0	16	1
	2330	,,	1015·0	988·6	..	14·1	9·4	3·6	8·0	50	..	0·3	..	0·9	0	0	3	0	2	0	0	0	0	1	0	27	0
Nagaur	0830	298	1016·0	981·3	..	19·6	14·3	9·4	11·8	53	..	1·0	..	4·1	0	0	30	5	6	6	7	4	2	0	0	0	0
	1730	,,	1012·5	978·5	..	26·0	18·5	12·8	14·8	46	..	1·1	..	3·6	0	0	30	5	9	2	1	2	4	1	6	0	0
Phalodi	0830	234	1015·8	988·5	..	15·9	9·8	1·9	7·0	40	..	0·6	..	4·1	0	0	26	1	2	3	8	9	2	1	0	4	0
	1730	,,	1013·1	986·9	..	27·8	16·1	4·5	8·4	24	..	0·9	..	6·5	0	0	29	10	7	1	0	0	3	1	7	1	0
Jaisalmer	0830	242	1015·5	986·9	..	14·9	10·9	6·7	9·8	59	..	0·5	..	2·6	0	0	12	3	1	2	1	2	3	0	0	18	0
	1730	,,	1011·4	984·5	..	27·9	20·8	16·2	18·4	51	..	0·7	..	8·6	0	2	21	11	5	0	0	3	3	0	1	7	0
Jodhpur	0230	224	1013·9	987·3	..	16·6	10·0	1·6	6·7	38	..	0·4	..	8·1	0	0	29	9	17	0	0	0	0	3	0	1	0
	0530	,,	1014·1	987·6	..	14·2	8·8	1·4	6·8	43	..	0·6	..	6·8	0	1	28	4	22	0	0	0	2	1	0	1	0
	0830	,,	1015·8	989·4	+0·7	16·1	9·6	1·5	6·8	39	−3	1·1	+0.1	5·7	0	0	26	5	18	1	0	0	1	1	0	4	0
	1130	,,	1015·4	989·9	..	25·4	14·7	2·0	7·5	59	..	1·3	..	5·7	0	0	21	1	5	5	5	1	1	3	0	9	0
	1430	,,	1012·4	987·0	..	29·8	16·0	1·5	6·8	18	..	1·3	..	8·1	0	0	30	4	6	4	2	0	5	5	3	0	1
	1730	,,	1011.9	986·4	..	28·6	16·4	4·7	8·5	23	..	1·1	..	5·5	0	0	22	5	9	2	0	0	2	3	1	8	0
	2030	,,	1013·9	988·1	..	21·1	12·9	4·1	8·2	33	..	1.0	..	5·9	0	0	24	9	9	1	0	0	2	1	2	6	0
	2330	,,	1014·5	988·4	..	18·9	11·4	2·7	7·4	36	..	0·5	..	6·4	0	0	27	7	16	0	0	0	2	2	0	3	0

(R) Registers not received. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West)—(Contd.)																											
Barmer	0530	194	1013·0	990·8	..	16·7	13·0	9·2	11·6	63	..	0·4	..	2·9	0	0	21	3	1	0	0	0	1	3	13	9	0
	0830	,,	1015·1	992·4	−0·2	17·7	14·1	10·4	12·6	65	+16	0·9	−0·2	3·4	0	0	23	5	1	0	0	0	1	2	14	7	0
	1130	,,	1014·9	992·8	..	26·5	20·4	15·6	17·7	55	..	1·2	..	3·7	0	0	26	6	9	4	2	1	1	1	2	4	0
	1730	,,	1011·4	989·6	..	28·6	21·5	16·4	18·7	52	..	1·1	..	3·3	0	0	22	4	3	3	1	1	1	3	6	8	0
	2330	,,	1013·8	991·3	..	20·2	15·2	10·2	12·4	56	..	0	..	2·6	0	0	18	0	1	0	0	0	2	1	14	12	0
Erinpura (Jawai Dam)	0830	295	1014·6	981·4	..	16·9	13·2	9·7	12·0	61	..	1·0	..	1·4	0	0	11	0	0	1	0	8	2	0	0	19	0
	1730	,,	1012·3	978·9	..	24·7	18·7	14·6	16·6	54	..	1·4	..	0·4	0	0	4	1	0	0	0	0	0	3	0	26	0
Munabao†	0830	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan (East)																											
Pilani (R)	0830	301																									
(R)	1730	,,																									
Sikar	0830	433	1016·0	966·5	..	19·0	11·9	3·6	7·9	38	..	0	..	0·5	0	0	8	0	1	0	3	0	0	2	2	22	0
	1730	,,	1012·6	964·2	..	26·0	16·6	8·7	11·2	34	..	0·3	..	0·3	0	0	3	1	0	0	0	0	0	1	1	27	0
Alwar	0830	271	1015·1	983·3	..	15·0	12·0	9·0	11·4	69	..	0·9	..	0·6	0	0	6	1	0	0	0	1	2	0	2	24	0
	1730	,,	1012·3	980·0	..	23·2	16·8	11·6	13·6	49	..	1·3	..	0·3	0	0	4	2	1	0	0	0	0	0	1	26	0
Jaipur (Sanganer)	0230	390	1014·3	968·7	..	13·7	9·1	3·5	7·8	55	..	0	..	2·8	0	0	16	4	2	4	0	0	0	0	0	14	0
	0530	,,	1014·6	968·8	..	12·4	8·4	5·3	7·8	56	..	0·2	..	2·3	0	1	13	5	3	5	0	0	0	0	0	17	0
	0830	,,	1015·7	970·7	−1·0	17·6	11·4	4·7	8·5	44	−3	0·9	+0·2	2·6	0	0	13	4	2	7	0	0	0	0	0	17	0
	1130	,,	1014·7	970·9	..	25·7	15·1	4·4	8·3	27	..	0·8	..	6·3	0	0	25	1	1	5	4	6	2	5	2	4	0
	1430	,,	1011·8	968·4	..	27·7	15·8	3·5	7·8	22	..	1·4	..	6·0	0	0	29	4	3	3	1	1	4	5	8	1	0
	1730	,,	1011·9	968·1	..	24·5	15·1	6·1	9·4	31	..	0·9	..	1·0	0	0	11	3	1	2	0	1	0	1	3	19	0
	2030	,,	1014·3	969·3	..	17·8	11·7	5·2	8·8	44	..	0·4	..	1·6	0	0	12	3	3	2	1	0	1	0	2	18	0
	2330	,,	1014·8	969·4	..	15·4	10·3	4·5	8·4	48	..	0·1	..	2·2	0	0	15	5	5	4	0	1	0	0	1	15	0
Dholpur	0830	176	1015·6	995·1	..	16·3	12·3	8·4	11·0	61	..	0·6	..	0·4	0	0	4	0	1	0	1	1	0	0	1	26	0
	1730	,,	1011·8	991·7	..	24·5	16·5	10·1	12·3	42	..	0·6	..	0·3	0	0	3	2	1	0	0	0	0	0	0	27	0
Ajmer	0830	486	1016·9	960·6	−0·6	14·3	9·9	5·5	9·0	57	+6	1·1	+0·3	1·1	0	0	8	1	1	2	1	1	1	0	1	22	0
	1730	,,	1012·3	958·1	..	24·8	14·2	4·3	8·3	27	..	1·4	..	1·1	0	0	10	3	2	0	0	1	1	1	2	20	0
Tonk	0830	272	1015·3	983·6	..	14·4	11·2	7·8	10·5	65	..	0·8	..	4·3	0	0	29	1	2	1	3	1	1	3	17	1	0
	1730	,,	1011·6	980·7	..	24·3	17·4	12·2	14·2	48	..	0·7	..	2·4	0	0	29	6	4	2	3	1	0	4	9	1	0
Bhilwara	0830	425	1016·5	967·4	..	17·1	10·7	3·3	7·7	41	..	1·5	..	1·6	0	0	12	1	5	1	2	0	1	1	1	18	0
	1730	,,	1011·8	964·4	..	25·9	14·8	3·1	7·6	24	..	2·1	..	2·3	0	0	17	2	8	2	0	0	1	0	4	13	0
Kota (Aerodrome)	0530	274	1014·5	982·3	..	14·0	8·7	1·5	6·8	43	..	0	..	4·7	0	0	26	0	0		0	2	15	8	0	4	0
	0830	,,	1016·2	984·5	..	18·9	11·8	3·9	8·1	38	..	0·9	..	1·7	0	0	12	0	3	0	0	0	0	6	3	18	0
	1130	,,	1015·5	984·4	..	25·3	14·6	3·5	7·9	25	..	0·9	..	5·3	0	0	28	3	3	16	3	1	0	2	0	2	0
	1730	,,	1012·4	981·5	..	26·4	14·9	2·9	7·5	22	..	1·3	..	3·0	0	0	22	3	8	5	1	0	0	2	3	8	0
	2330	,,	1014·7	982·9	..	17·2	10·3	1·8	7·0	36	..	0·4	..	5·1	0	0	29	0	1	4	2	2	8	10	2	1	0
Kota	0830	257	1016·3	986·3	−0·4	16·8	12·3	8·0	10·7	57	+8	0·9	−0·1	0·5	0	0	3	0	0	2	0	0	0	1	0	27	0
	1730	,,	1012·1	983·2	..	25·9	16·3	8·0	10·7	32	..	1·4	..	0·3	0	0	2	1	1	0	0	0	0	0	0	28	0
Chambal (Rawat Bhatta Dam)	0830	251	1016·6	975·4	..	15·1	11·4	7·9	10·7	62	..	0·5	..	0·5	0	0	6	3	1	0	0	0	0	0	2	24	0
	1730	,,	1011·6	972·4	..	26·7	16·9	8·6	11·2	32	..	0·8	..	2·6	0	0	26	0	17	3	1	1	0	2	2	4	0
Udaipur	0230	582	1015·7	948·2	..	11·9	9·1	6·3	9·5	65	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0530	,,	1016·0	948·1	..	10·0	8·1	5·7	9·1	74	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1016·8	950·0	−0·5	15·4	10·6	5·7	9·1	53	−3	1·0	+0·5	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	,,	1014·5	950·1	..	26·1	14·8	4·4	8·3	25	..	0·9	..	0·7	0	0	7	0	2	3	0	0	1	1	0	23	0
	1730	,,	1011·8	947·4	..	25·0	15·1	6·6	9·7	31	..	1·6	..	1·1	0	0	11	0	3	3	0	0	3	2	0	19	0
	2330	,,	1016·2	949·5	..	13·8	10·3	6·8	9·8	63	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jhalawar	0830	321	1016·0	978·3	−0·1	16·1	11·0	5·4	9·0	49	−10	0·7	−0·3	1·0	0	0	12	3	4	0	2	1	1	0	1	18	0
	1730	,,	1010·0	975·4	..	26·8	15·2	3·9	8·1	23	..	0·5	..	2·9	0	0	25	7	11	2	1	0	1	1	2	5	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1014·4	989·7	..	10·5	8·7	6·8	9·8	78	..	0·1	..	1·0	0	0	9	0	0	1	2	3	0	2	1	21	0
	0530	,,	1014·6	989·8	..	9·4	7·9	6·1	9·4	78	..	0·4	..	1·7	0	0	14	2	1	0	2	5	1	2	1	16	0
	0830	,,	1016·0	991·8	0	17·6	12·5	7·6	10·4	52	+2	1·0	+0·2	2·0	0	0	15	1	0	0	3	4	3	1	3	15	0
	1130	,,	1015·0	991·7	..	26·1	15·5	5·4	9·0	27	..	0·8	..	5·7	0	0	26	6	3	1	3	1	4	2	6	4	0
	1430	,,	1012·4	989·1	..	27·8	15·6	3·1	7·9	21	..	1·1	..	7·9	0	0	30	6	1	2	0	3	2	2	14	0	0
	1730	,,	1012·6	989·0	..	23·9	15·9	9·0	11·3	39	..	0·9	..	1·7	0	0	12	0	2	0	2	0	0	0	8	18	0
	2030	,,	1014·6	990·2	..	15·0	11·4	7·9	10·6	63	..	0·3	..	1·9	0	0	14	2	2	0	0	1	1	4	4	16	0
	2330	,,	1015·0	990·4	..	12·2	9·8	9·4	10·2	73	..	0·1	..	2·1	0	0	15	1	0	1	3	4	2	2	2	15	0

(R) Register not received.

†Data for less than 15 days hence no means calculated.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Km. Mean wind speed, per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W		Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Sheopur	0830	235	1016·4	988·8	−0·5	15·7	12·0	8·3	11·0	62	+4	1·2	+0·2	2·4	0	0	17	0	1	1	6	9	0	0	0	13	0
	1730	,,	1012·5	985·9	..	25·8	17·5	11·4	13·2	41	..	1·5	..	4·5	0	0	26	16	3	2	0	2	1	1	1	4	0
Shivpuri	0830	464	1015·7	962·8	..	19·3	12·6	6·4	9·7	44	..	0·7	..	2·1	0	0	13	1	3	0	2	7	2	0	1	17	0
	1730	,,	1012·3	960·1	..	23·1	13·9	5·4	9·2	33	..	1·1	..	2·9	0	0	24	5	12	4	0	0	0	1	1	6	1
Nowgong	0830	229	1016·2	989·4	−0·5	16·4	12·4	8·7	11·2	61	−10	1·0	−0·2	2·4	0	0	24	1	0	0	0	12	11	0	0	6	0
	1730	,,	1012·6	986·6	..	24·1	16·5	10·3	12·6	42	..	1·0	..	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
Guna	0530	478	1015·5	959·1	..	9·5	7·3	4·9	8·7	74	..	0·5	..	1·7	0	0	15	1	0	3	10	1	0	0	0	15	0
	0830	,,	1015·7	961·0	−0·5	18·6	12·1	6·1	9·4	44	−16	1·1	+0·4	2·2	0	0	23	0	0	12	8	3	0	0	0	7	0
	1130	,,	1014·1	960·9	..	26·5	15·0	4·8	8·7	25	..	1·1	..	6·0	0	0	30	1	11	5	5	2	2	0	2	0	2
	1730	,,	1011·5	958·2	..	24·9	15·1	6·9	10·1	32	..	1·5	..	4·4	0	0	30	12	7	3	1	1	2	0	4	0	0
	2330	,,	1015·6	959·8	..	12·1	9·1	5·5	9·0	62	..	0·6	..	2·1	0	0	15	3	1	2	7	0	1	0	1	15	0
Nimach	0830	496	1016·7	959·9	−0·1	17·8	10·5	2·6	7·4	37	−11	1·3	+0·3	2·7	0	0	22	0	13	8	0	1	0	0	0	8	0
	1730	,,	1012·1	957·2	..	25·7	14·3	2·1	7·3	21	..	1·7	..	5·1	0	0	28	0	17	4	0	0	3	3	0	2	1
Rajgarh	0830	382	1016·6	972·3	..	15·8	12·6	9·7	12·0	67	..	0·2	..	1·8	0	0	16	4	3	1	3	3	4	1	0	14	0
	1730	,,	1012·2	969·6	..	26·9	19·8	15·3	17·4	49	..	0·0	..	4·5	0	0	28	13	9	1	2	1	2	0	2	2	0
Sagar	0830	551	1015·4	960·2	−0·2	20·9	12·4	6·8	9·9	41	−6	0·7	−0·6	0·9	0	0	12	0	0	1	0	0	0	5	6	18	0
	1730	,,	1011·9	950·6	..	29·8	13·6	4·2	8·2	28	..	1·4	..	1·7	0	0	26	6	14	2	0	0	0	0	4	4	0
Ratlam	0830	486	1015·5	960·2	−0·3	20·1	13·4	7·8	10·5	46	−2	0·8	−0·7	9·1	0	2	26	0	15	12	0	1	0	0	0	2	0
	1730	,,	1011·2	957·4	..	27·2	17·7	11·0	13·3	37	..	2·3	..	7·3	0	0	28	2	19	6	0	0	0	0	1	2	0
Bhopal (Bairagarh)	0230	523	1014·0	953·8	..	15·7	10·3	4·7	8·6	49	..	0·8	..	3·9	0	0	27	9	7	4	4	3	3	0	0	3	0
	0530	,,	1014·4	954·1	..	14·4	9·7	5·1	8·7	55	..	1·3	..	4·3	0	0	24	5	8	3	4	3	0	1	0	6	0
	0830	,,	1015·5	956·2	−0·5	19·9	12·4	5·2	9·0	39	−17	2·0	+0·6	4·9	0	0	19	0	10	2	5	1	1	0	0	11	0
	1130	,,	1014·1	955·9	..	25·5	14·5	4·6	8·5	26	..	2·0	..	9·8	0	0	30	4	8	10	6	1	0	1	0	0	0
	1430	,,	1011·0	953·3	..	27·3	15·2	4·1	8·5	23	..	1·8	..	9·4	0		29	8	10	2	5	0	1	1	2	1	0
	1730	,,	1011·5	953·5	..	24·7	14·2	4·9	8·6	28	..	2·2	..	5·4	0	0	28	9	14	1	1	0	1	1	1	2	0
	2030	,,	1014·0	954·7	..	19·7	12·4	5·3	9·1	39	..	1·5	..	5·3	0	0	27	8	12	1	3	0	1	0	2	3	0
	2330	,,	1014·6	954·8	..	17·2	11·1	4·9	8·7	45	..	1·0	..	5·4	0	0	26	8	12	1	4	1	0	0	0	4	0
Ujjain	0830	489	1016·1	959·9	..	16·9	11·4	6·3	9·5	50	..	2·1	..	2·9	0	0	18	0	4	5	6	3	0	0	0	12	0
	1730	,,	1011·1	957·2	..	26·1	15·6	6·7	12·1	30	..	1·8	..	5·2	0	0	29	8	14	3	0	0	0	1	3	1	0
Narsinghopur	0830	356	1016·3	974·9	..	15·8	12·5	9·4	10·1	60	..	1·2	..	1·9	0	0	27	9	9	5	3	0	0	0	1	3	0
	1730	,,	1011·7	971·7	..	25·0	17·3	11·3	13·6	43	..	1·1	..	1·6	0	0	21	5	11	0	4	0	0	1	0	9	0
Hoshangabad	0830	302	1016·1	981·0	−0·7	17·4	12·9	8·8	11·2	58	−3	1·0	−0·4	3·1	0	0	30	2	8	6	3	4	6	1	0	0	0
	1730	,,	1011·4	977·5	..	26·3	17·4	10·3	12·7	38	..	1·0	..	2·1	0	0	25	7	15	1	2	0	0	0	0	5	0
Indore	0530	567	1014·4	948·9	..	13·3	9·2	5·0	8·7	58	..	0·4	..	4·9	0	0	23	0	6	11	2	0	3	1	0	7	0
	0830	,,	1015·4	951·1	−0·6	18·7	12·2	6·1	9·3	44	−8	1·3	+0·1	4·2	0	0	24	1	9	8	2	3	1	0	0	6	0
	1130	,,	1013·6	950·9	..	26·1	15·1	5·5	9·1	27	..	1·2	..	11·4	0	3	26	1	9	13	3	2	1	0	0	1	0
	1730	,,	1010·8	948·2	..	25·6	15·1	6·5	9·5	29	..	1·4	..	7·7	0	0	28	4	13	7	0	2	0	2	0	2	0
	2330	,,	1014·6	949·8	..	16·6	11·1	5·7	9·2	49	..	0·9	..	5·5	0	1	24	1	5	11	2	1	4	1	0	5	0
Rajpur (Jhahua	0830	293	1015·6	981·6	..	17·6	12·3	7·2	10·1	51	..	1·6	..	0·8	0	0	6	0	0	6	0	0	0	0	0	24	0
	1730	,,	1010·6	978·0	..	29·3	17·7	7·8	10·8	27	..	1·0	..	1·3	0	0	10	0	1	2	0	0	0	5	2	20	0
Chhindwara	0830	685	1015·5	937·9	−0·8	17·3	12·7	8·6	11·3	57	−1	1·6	+0·2	2·1	0	0	14	3	5	6	0	0	0	0	0	16	0
	1730	,,	1010·6	935·1	..	23·8	14·9	7·4	10·5	36	..	1·7	..	5·0	0	0	27	7	7	10	1	1	0	0	1	3	0
Seoni	0830	619	1015·5	945·4	−0·5	18·5	13·8	9·9	12·3	58	+1	2·1	+0·6	3·8	0	0	23	9	8	3	1	0	0	0	5	7	0
	1730	,,	1010·9	942·5	..	24·2	16·2	10·1	12·6	42	..	1·6	..	7·0	0	0	30	5	13	7	3	1	1	0	0	0	0
Betul	0830	653	1015·5	941·7	−0·7	18·4	12·8	7·9	10·7	51	−7	1·6	−0·2	2·6	0	0	21	0	7	8	6	0	0	0	0	9	0
	1730	,,	1011·0	938·8	..	23·7	15·4	8·5	11·5	39	..	1·7	..	4·2	0	0	29	9	12	3	0	0	0	0	5	1	0
Khandwa	0830	318	1015·4	978·7	−0·4	18·6	13·3	8·2	10·9	51	−7	1·5	+0·1	1·5	0	0	17	2	6	4	2	3	0	0	0	13	0
	1730	,,	1010·9	975·4	..	28·0	16·7	6·5	9·9	26	..	1·3	..	3·7	0	0	30	2	23	1	2	0	1	0	1	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1014·8	977·3	..	11·9	10·5	9·2	11·5	84	..	0·8	..	1·4	0	0	19	2	0	4	3	6	0	3	1	11	0
	0830	,,	1016·0	979·3	−0·3	17·8	13·4	9·5	11·8	59	−3	0·9	−0·3	0·9	0	0	11	0	0	1	0	1	3	5	1	19	0
	1130	,,	1014·8	979·0	..	25·2	16·0	7·9	10·7	34	..	1·1	..	3·0	0	0	24	1	0	7	1	6	3	6	0	6	0
	1730	,,	1012·5	976·5	..	23·4	16·3	10·4	12·8	44	..	1·2	..	1·1	0	0	14	2	0	3	0	1	0	4	4	16	0
	2330	,,	1014·9	977·9	..	15·6	12·4	9·3	11·8	66	..	1·3	..	1·5	0	0	17	2	0	4	3	5	0	3	0	13	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East).—(Contd.)																											
Sidhi	0830	272	1014·6	983·0	..	16·5	13·2	10·7	12·5	69	..	0·9	..	1·3	0	0	20	1	3	1	1	2	5	3	4	10	0
	1730	,,	1011·7	981·0	..	24·5	16·7	10·4	12·7	49	..	0·9	..	0·9	0	0	12	3	0	3	1	3	0	1	1	18	0
Umaria	0830	459	1016·5	963·5	..	16·2	13·3	11·1	13·2	72	+10	1·8	−0.2	0·8	0	0	9	0	0	1	6	1	1	0	0	21	0
	1730	,,	1012·2	960·6	..	23·3	17·9	14·4	16·5	58	..	1·8	..	0·9	0	0	11	4	1	1	2	0	0	1	2	19	0
Jabalpur	0530	393	1014·9	968·8	..	12·0	11·2	10·4	12·7	96	..	1·0	..	0·5	0	0	4	1	0	0	3	0	0	0	0	26	0
	0830	,,	1016·3	971·0	+0·1	17·2	13·7	10·6	12·9	65	−7	1·7	+0·4	0·9	0	0	8	1	0	1	3	2	0	0	1	22	0
	1130	,,	1014·3	970·2	..	25·1	16·7	9·6	12·2	38	..	1·7	..	3·6	0	0	24	5	11	3	2	1	0	0	2	6	0
	1430	,,	1011·3	967·6	..	27·0	17·1	8·6	11·5	32	..	1·9	..	4·6	0	0	25	10	11	1	1	0	0	0	2	5	0
	1730	,,	1011·8	967·7	..	24·2	16·7	10·6	12·9	43	..	1·6	..	2·9	0	0	20	4	9	6	1	0	0	0	0	10	0
	2330	,,	1014·8	969·3	..	15·3	13·2	11·4	13·5	78	..	0·4	..	0·7	0	0	7	0	1	2	4	0	0	0	0	23	0
Anbikapur	0830	611	1016·0	946·4	−0·8	16·9	14·3	12·5	14·4	76	+8	1·1	+0·1	1·0	0	0	8	1	5	1	0	0	0	1	0	22	0
	1730	,,	1011·6	943·4	..	21·7	16·3	12·5	14·6	57	..	2·1	..	5·3	0	2	30	21	8		0	0	0	0	0	0	0
Pendra	0530	625	1014·6	943·0	..	13·9	11·8	9·9	12·4	78	..	1·4	..	1·8	0	0	16	7	0	0	0	0	0	0	9	14	0
	0830	,,	1015·8	945·0	−0·7	17·6	14·1	11·3	13·6	67	+5	1·7	−0·3	2·4	0	0	17	11	1	0	0	0	0	1	4	13	0
	1130	,,	1013·9	944·4	..	22·9	15·6	9·9	12·4	45	..	1·7	..	5·9	0	0	29	12	8	3	1	1	0	0	4	1	0
	1430	,,	1011·2	942·1	..	23·9	16·0	9·8	12·4	43	..	2·1	..	6·3	0	0	28	14	10	0	0	0	1	0	2	2	1
	1730	,,	1012·1	942·3	.	21·1	15·9	12·0	14·3	57	..	2·1	..	1·8	0	0	16	12	1	0	1	0	0	1	1	14	0
	2330	,,	1014·9	943·7	..	15·1	12·9	10·7	12·5	72	..	1·0	..	1·5	0	0	15	3	1	0	0	0	1	1	9	15	0
Mandla	0830	443	1016·5	965·2	−0·9	15·1	13·5	11·5	13·7	77	−2	1·7	0	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
	1730	,,	1011·4	961·7	..	23·2	16·6	11·2	13·7	49	..	1·5	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Champa	0830	245	1015·5	987·0	−0.7	18·6	16·2	14·4	16·5	76	+8	2·0	−0·2	4·1	0	0	30	20	4	0	0	0	0	0	6	0	0
	1730	,,	1011·6	983·8	..	24·8	19·0	15·0	17·3	56	..	3·0	..	3·2	0	0	26	14	2	2	0	0	1	0	7	4	0
Raigarh	0830	220	1014·9	989·6	−0.8	24·6	16·8	13·2	15.3	59	−3	1·8	−0·2	4·2	0	0	30	1	29	0	0	0	0	0	0	0	0
	1730	,,	1010·8	985·9	..	25·4	18·8	14·2	16·3	50	..	2·2	..	2·1	0	0	22	8	10	1	2	0	0	0	1	8	0
Raipur	0530	298	1013·3	978·7	..	16·4	15·1	14·0	16·1	86	..	1·7	..	2·7	0	0	17	10	5	1	1	0	0	0	0	13	0
	0830	,,	1015·2	980·9	−0·6	20·1	16·5	13·9	15·9	68	+3	1·8	+0·1	6·5	0	0	28	11	12	2	2	0	0	0	1	2	0
	1130	,,	1013·6	980·0	..	25·8	18·2	12·3	14·8	44	..	1·8	..	8·6	0	0	28	7	13	2	3	1	0	1	0	2	1
	1430	,,	1010·8	977·5	..	27·3	18·4	11·5	13·9	38	..	2·3	..	7·9	0	0	29	6	14	1	3	1	0	0	3	1	1
	1730	,,	1011·3	977·7	..	24·7	18 3	13·7	15·9	51	..	2·4	..	4 4	0	0	23	9	10	2	0	0	1	0	1	7	0
	2330	,,	1013·5	979·2	..	19·4	16·2	13·8	15·8	70	..	1·1	..	4·2	0	0	26	5	12	5	2	2	0	0	0	4	0
Kanker	0830	402	1014·2	969·2	−0·3	20·9	18·0	16·0	18·3	73	−3	1·6	−0·7	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1010·7	965·8	..	24·5	19·6	16·5	18·8	61	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jagdalpur	0530	553	1012·4	949·4	..	16·3	15·3	14·6	16·6	90	..	2·2	..	1·4	0	0	8	2	2	0	0	0	0	1	3	22	0
	0830	,,	1013·6	951·5	−0·9	20·4	17·2	15·1	17·3	72	−7	2·4	−0·4	2·5	0	0	15	3	10	0	0	0	0	0	2	15	0
	1130	,,	1011·3	950·4	..	25·9	18·9	14·4	16·7	50	..	3·1	..	7·1	0	0	30	5	22	0	1	0	0	0	2	0	0
	1730	,,	1009·5	948·4	..	24·4	18·9	15·5	17·8	58	..	3·4	..	2·9	0	0	22	10	11	0	1	0	0	0	0	8	0
	2330	,,	1012·6	950·1	..	18·6	16·6	15·4	17·4	82	..	1·6	..	0·5	0	0	3	0	3	0	0	0	0	0	0	27	0
Gujarat Region																											
Deesa	0830	136	1015·3	999·2	−0·3	17·8	11·0	3·2	7·7	38	..	0·6	..	5·7	0	0	28	0	26	0	1	0	0	0	1	2	0
	1730	,,	1011·5	996·1	..	29·6	17·3	6·7	9·8	24	..	0·3	..	5·5	0	0	25	0	11	0	0	0	5	0	9	5	0
Radhanpur	0830	30	1015·3	1011·8	..	18·2	13·0	8·0	10·8	53	..	0	..	2·4	0	0	26	12	4	0	5	0	2	0	3	4	0
	1730	,,	1012·0	1008·6	..	27·9	19·9	13·5	16·7	45	..	0	..	3.2	0	0	27	4	7	0	4	0	2	1	9	3	0
Idar	0830	219	1014·5	989·4	..	22·6	13·1	1·9	7·4	28	..	0·9	..	4·7	0	0	24	5	14	3	0	0	0	0	2	6	0
	1730	,,	1011·2	986·6	..	28·0	16·8	6·6	10·0	27	..	1·5	..	1·1	0	0	14	1	3	3	0	0	0	6	1	16	0
Ahmadabad	0230	55	1012·4	1005·9	..	17·2	13·2	9·4	11·9	61	..	0·3	..	5·0	0	0	19	3	11	3	0	0	0	0	2	11	0
	0530	,,	1012·5	1006·0	..	15·6	12·0	8·5	11·1	63	..	0·2	..	5·2	0	0	21	2	10	7	0	0	0	1	1	9	0
	0830	,,	1014·5	1008·0	−0·7	19·6	13·7	8·2	10·9	49	−7	1·4	+0.4	10·5	0	1	25	1	6	17	0	1	0	0	1	4	0
	1130	,,	1014·4	1008·1	..	29·0	19·3	12·3	14·5	37	..	1·0	..	14·7	0	8	22	1	2	16	9	1	0	0	1	0	0
	1430	,,	1011·6	1005·4	..	32·0	20·5	12·7	14·7	31	..	1·3	..	11·9	0	3	27	3	4	6	7	2	2	1	5	0	0
	1730	,,	1011·2	1005·0	..	30·0	19·7	12·5	14·5	35	..	1·4		7·9	0	0	25	4	6	6	3	2	0	1	3	5	0
	2030	,,	1013·0	1006·6	..	22·0	16·4	12·0	14·1	54	..	0·6	..	3·3	0	0	13	1	6	2	1	0	0	0	3	17	0
	2330	,,	1013·3	1006·8	..	18·8	14·3	10·3	12·7	59	..	0·1	..	3·3	0	0	13	4	7	0	0	0	0	0	2	17	0
Dohad	0830	333	1015·1	976·9	−0·4	19·5	12·3	4·4	8·5	37	−23	0·7	−0.6	3·9	0	0	25	0	2	11	4	3	5	0	0	5	0
	1730	,,	1010·6	973·6	..	29·8	16·4	2·9	7·8	19	..	0·2	..	4·7	0	0	28	4	5	1	2	0	13	2	1	2	0
Vallabh Vidya Nagar	0830	44	1013·9	1008·8	..	17·9	13·1	8·5	11·2	56	..	1·0	..	8·3	0	0	27	10	16	1	0	0	0	0	0	3	0
	1730	,,	1011·0	1006·1	..	30·0	19·6	12·3	14·3	34	..	1·0	..	4·3	0	0	29	13	7	0	0	0	0	4	5	1	0
Baroda Aerodrome	0830	38	1014·3	1009·9	..	20·0	14·5	9·5	12·0	51	..	1·6	..	6·6	0	0	18	11	4	0	2	1	0	0	0	12	0
	1130	,,	1014·0	1009·8	..	30·5	18·3	7·8	11·1	26	..	1·3	..	13·9	0	3	27	6	8	10	5	1	0	0	0	0	0
	1730	,,	1010·9	1006·7	..	29·7	18·3	9·2	11·8	28	..	1·5	..	8·5	0	0	28	12	8	0	0	0	0	2	6	2	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gujarat—(Contd.)																											
Baroda	0530	34	1012·3	1008·2	..	16·6	13·5	10·6	12·9	68	..	0	..	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
	0830	,,	1014·4	1010·3	−0·1	19·1	14·4	10·2	12·6	58	−9	0·7	−0·3	0·6	0	0	7	0	6	0	1	0	0	0	0	23	0
	1130	,,	1014·1	1010·2	..	30·9	19·3	10·8	12·9	30	..	0·4	..	1·4	0	0	13	0	8	2	3	0	0	0	0	17	0
	1730	,,	1011·0	1007·1	..	31·2	20·3	12·3	14·9	33	..	0·7	..	0·6	0	0	8	2	2	0	0	0	1	0	3	22	0
	2330	,,	1013·1	1009·0	..	20·5	15·4	11·2	13·4	56	..	0·1	..	0·6	0	0	5	1	4	0	0	0	0	0	0	25	0
Broach	0830	17	1013·2	1011·1	−1·0	18·6	14·6	11·3	13·4	63	+1	0·7	−0·5	4·9	0	0	30	1	20	4	0	0	5	0	0	0	0
	1730	,,	1010·0	1008·1	..	32·6	20·8	12·6	15·0	30	..	1·6	..	4·0	0	0	30	1	24	0	0	0	4	0	1	0	0
Surat	0530	12	1011·5	1010·1	..	20·3	17·1	14·7	16·9	71	..	0·4	..	9·1	0	1	28	0	20	0	9	0	0	0	0	1	0
	0830	,,	1013·8	1012·4	−0·3	22·5	18·1	14·9	17·1	63	+5	1·4	0	7·3	0	0	26	0	15	2	8	0	0	0	1	4	0
	1130	,,	1013·9	1012·6	..	30·1	22·4	17·5	20·8	49	..	1·3	..	9·6	0	1	29	1	20	0	8	0	0	0	1	0	0
	1730	,,	1010·6	1009·3	..	30·8	22·9	18·2	21·4	49	..	1·5	..	7·7	0	1	29	0	10	1	3	0	3	2	10	0	1
	2330	,,	1012·7	1011·3	..	23·1	18·7	15·4	18·1	63	..	0·2	..	8·3	0	2	28	2	24	0	1	0	0	1	2	0	0
Saurashtra and Kutch																											
Naliya	0830	21	1014·8	1012·3	..	16·4	11·7	6·3	9·9	55	..	1·5	..	0·9	0	0	5	2	3	0	0	0	0	0	0	25	0
	1730	,,	1011·9	1009·5	..	29·3	18·2	7·6	11·9	31	..	1·3	..	6·6	0	0	26	3	9	0	0	0	9	4	1	4	0
Bhuj (Rudramata)	0230	80	1013·2	1003·7	..	16·2	10·3	2·6	7·8	44	..	0	..	2·2	0	0	8	3	0	0	0	0	2	3	0	22	0
	0530	,,	1013·3	1003·8	..	14·6	9·5	2·7	7·8	48	..	0·1	..	2·3	0	0	7	1	0	0	0	0	5	1	0	23	0
	0830	,,	1015·1	1005·7	+0·1	18·0	11·8	4·5	8·8	44	−5	1·2	+0·3	1·1	0	0	4	0	2	0	0	0	1	1	0	26	0
	1130	,,	1015·0	1005·9	..	27·2	15·3	1·7	7·7	22	..	1·4	..	9·5	0	1	23	4	17	0	0	0	0	0	3	6	0
	1430	,,	1012·3	1003·2	..	30·7	16·2	−0·6	6·7	16	..	1·3	..	12·4	0	6	19	7	14	1	0	0	0	1	2	5	0
	1730	,,	1011·7	1002·7	..	29·9	15·8	−1·0	6·5	16	..	1·2	.	13·7	0	4	25	8	17	0	0	0	0	2	2	1	0
	2030	,,	1013·7	1004·4	..	22·0	13·1	2·5	7·9	31	..	0·2	..	3·4	0	0	11	3	2	0	0	0	0	3	3	19	0
	2330	,,	1014·1	1004·7	..	17·8	11·2	2·9	8·0	40	..	0·1	..	3·0	0	0	9	3	0	0	0	0	1	5	0	21	0
Kandla Aerodrome	0830	35	1015·1	1011·0	..	20·1	12·8	3·7	8·9	37	..	1·1	..	14·3	0	7	20	9	0	0	0	0	0	1	17	3	0
	1130	,,	1015·2	1011·2	..	29·0	16·5	3·6	8·7	23	..	1·1	..	17·4	0	12	17	9	12	4	1	0	0	1	2	1	0
	1730	,,	1012·0	1008·1	..	29·9	16·8	3·0	8·5	21	..	1·1	..	17·6	0	10	20	13	3	5	1	3	2	0	3	0	0
New Kandla	0830	14	1015·0	1013·3	..	19·8	13·4	6·6	10·2	45	..	1·6	..	10·0	0	0	29	18	5	0	2	0	0	1	3	1	0
	1730	,,	1012·2	1010·6	..	28·7	17·8	8·7	11·5	30	..	1·5	..	11·6	0	3	26	8	8	2	4	2	4	1	0	1	0
Mandvi	0830	9	1014·7	1013·6	−0·3	20·7	13·6	6·0	9·8	43	−18	2·6	+1·1	13·7	0	5	25	5	23	1	0	0	0	0	0	0	1
	1730	,,	1012·1	1011·0	..	27·2	20·4	15·3	18·4	54	..	1·6	..	16·6	0	13	17	0	4	2	2	0	16	5	1	0	0
Surendranagar	0830	74	1014·6	1005·9	−0·8	21·0	14·7	9·0	11·7	48	−1	(b) 1·0	+0·1	(b) 4·7	0	0	21	9	7	1	0	0	0	1	3	8	0
	1730	,,	1010·9	1002·6	..	31·0	20·4	13·0	15·4	34	..	1·4	..	4·7	0	0	24	13	2	2	0	0	0	2	5	6	0
Okha	0530	7	1013·0	1012·2	..	23·3	18·6	15·3	17·6	62	..	0·1	..	20·6	0	16	14	13	11		0	0	0	1	5	0	0
	0830	,,	1015·0	1014·2	.	24·0	18·3	14·3	16·5	56	..	1·6	..	18·0	0	11	19	8	14	4	0	1	0	0	3	0	0
	1130	,,	1015·5	1014·7	..	25·7	19·4	15·2	17·4	53	..	1·4	..	14·9	0	5	25	6	14	5	0	0	0	2	3	0	0
	1730	,,	1012·4	1011·6	..	25·4	21·0	18·6	21·3	66	..	1·0	..	12·5	0	1	28	6	1	1	0	0	0	3	18	1	0
	2330	,,	1014·1	1013·3	..	24·0	20·1	17·6	20·4	69	..	0·1	..	17·6	0	13	17	13	4	0	0	0	1	0	12	0	0
Jamnagar (Aerodrome)	0530	23	1012·8	1010·2	..	15·8	11·6	7·0	10·3	58	..	0·1	..	6·2	0	0	13	5	6	0	2	0	0	0	0	17	0
	0830	,,	1014·7	1012·0	−0·1	19·8	14·3	8·8	11·9	52	−11	1·4	+0·5	7·3	0	1	16	8	6	1	1	0	0	0	1	13	0
	1130	,,	1014·9	1012·3	..	27·0	17·5	9·4	12·3	36	..	1·3	..	19·4	0	13	16	11	16	1	0	0	0	0	1	1	0
	1730	,,	1011·8	1009·2	..	28·7	18·1	9·4	12·2	33	.	0·9	..	22·4	0	20	10	11	15	1	0	0	0	1	2	0	0
	2330	,,	1013·7	1011·0	..	20·2	16·5	13·6	15·8	69	.	0·3	..	8·5	0	1	18	13	5	0	0	0	0	1	0	11	0
Dwarka	0830	11	1014·2	1012·9	−0·6	21·4	18·2	16·0	18·3	72	+5	0·8	−0·5	7·1	0	1	21	14	4	3	0	0	0	1	0	8	0
	1730	,,	1011·6	1010·3	..	27·1	20·8	16·7	19·5	56	..	0·5	..	14·8	0	8	22	11	3	0	0	0	0	5	11	0	0
Rajkot	0530	138	1012·6	996·6	..	17·3	11·9	5·4	9·5	49	..	0	..	2·3	0	0	14	1	11	0	0	0	0	1	1	16	0
	0830	,,	1014·3	998·4	−0·9	20·5	13·2	5·1	9·3	40	−17	0·5	−0·3	4·9	0	0	19	3	14	1	0	0	0	0	0	11	1
	1130	,,	1013·9	998·5	..	29·6	17·2	5·2	9·5	24	..	0·3	..	15·2	0	8	22	5	22	1	0	0	0	0	2	0	0
	1730	,,	1010·8	995·5	..	30·9	17·3	3·7	8·7	20	.	0·6	..	15·5	0	9	21	12	13	0	0	0	0	0	5	0	0
Bhavnagar Aerodrome	0830	11	1014·3	1013·1	−0·2	21·4	14·1	6·9	10·2	41	−6	1·1	−0·4	12·0	0	3	26	8	1	1	0	0	0	3	16	1	0
	1130	,,	1014·3	1013·1	..	28·3	18·6	11·1	13·6	36	..	0·9	..	16·6	0	9	21	4	17	5	4	0	0	0	0	0	0
	1730	,,	1011·1	1009·9	..	30·5	18·6	9·0	11·8	27	..	1·2	..	17·2	0	11	18	3	17	6	2	1	0	0	0	1	0
Porbandar Aerodrome	0830	7	1014·0	1013·2	−0·5	23·0	15·5	8·7	11·5	44	−19	1·2	+0·3	8·3	0	5	17	6	9	2	3	0	0	0	2	8	0
	1130	,,	1014·1	1013·3	..	31·0	18·8	9·9	11·8	27	..	1·1	..	15·3	0	11	19	3	14	7	3	0	0	0	3	0	0
	1730	,,	1011·0	1010·2	..	29·5	20·4	13·2	15·9	40	..	1·3	..	18·3	0	15	15	6	3	0	0	0	0	20	1	0	0
Keshod	0830	51	1014·0	1008·0	..	20·7	12·9	4·2	8·6	37	..	0·3	..	11·3	0	2	28	2	18	10	0	0	0	0	0	0	0
	1130	,,	1013·8	1008·0	..	30·2	16·2	3·2	8·1	20	..	0·3	..	15·7	0	8	22	6	14	10	0	0	0	0	0	0	0
	1730	,,	1010·5	1004·8	..	32·2	18·0	4·6	9·1	20	..	0·4	..	17·3	0	11	19	9	4	1	0	2	4	5	5	0	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—contd.																											
Mahuva	0830	9	1013·0	1012·0	..	23·1	16·5	11·0	13·4	48	..	(b) 3·6	..	(b) 2·5	0	0	20	3	13	0	0	0	0	0	4	9	0
	1730	,,	1010·0	1009·0	..	29·0	21·7	17·4	20·0	50	..	3·6	..	4·1	0	0	27	0	3	4	15	1	3	0	1	3	0
Veraval	0230	8	1011·5	1010·6	..	20·4	15·0	9·8	12·7	54	..	0·3	..	10·9	0	4	25	12	14	1	1	0	0	0	1	1	0
	0530	,,	1011·3	1010·4	..	19·9	13·8	7·4	10·9	48	..	0·2	..	14·0	0	5	25	8	21	1	0	0	0	0	0	0	0
	0830	,,	1013·4	1012·5	−0·5	23·3	15·4	7·6	11·1	41	−11	1·4	+0·3	14·2	0	7	22	7	19	3	0	0	0	0	0	1	0
	1130	,,	1013·5	1012·6	..	31·3	19·6	9·9	13·3	30	..	1·3	..	13·4	0	8	22	7	19	2	1	5	2	3	1	0	0
	1430	,,	1010·9	1010·1	..	30·1	22·9	18·8	22·1	52	..	1·7	..	17·7	0	14	16	1	0	0	1	5	11	11	1	0	0
	1730	,,	1010·7	1009·8	..	27·8	22·8	20·0	23·7	63	..	1·3	..	17·9	0	13	17	0	0	0	1	4	9	10	6	0	0
	2030	,,	1012·6	1011·7	..	25·2	21·1	18·5	21·7	68	..	0·8	..	8·5	0	0	27	6	3	0	1	2	3	2	9	3	0
	2330	,,	1012·7	1011·8	..	22·0	18·0	14·8	17·4	66	..	0·9	..	7·3	0	1	25	14	9	2	0	0	0	0	1	4	0
Konkan																											
Dahanu	0830	5	1012·5	1012·0	−0·4	23·3	20·7	19·2	22·2	78	+8	1·0	−1·0	5·3	0	0	25	0	0	13	12	0	0	0	0	5	0
	1730	,,	1010·2	1009·7	..	28·2	25·4	24·2	30·2	79	..	0·7	..	14·9	0	10	20	18	0	1	1	0	0	4	6	0	0
Bombay (Santacruz)	0230	14	1010·5	1008·8	..	22·0	19·8	18·3	21·3	80	..	1·6	..	2·6	0	0	15	0	7	8	0	0	0	0	0	15	0
	0530	,,	1010·5	1008·8	..	21·1	18·8	17·1	19·7	79	..	1·2	.	3·3	0	0	18	0	6	10	2	0	0	0	0	12	0
	0830	,,	1012·7	1011·0	−0·7	24·7	20·1	17·0	19·7	64	+4	2·7	+0.9	4·1	0	0	17	0	4	13	0	0	0	0	0	13	0
	1130	,	1012·5	1010·9	..	30·7	21·3	15·1	17·6	40	..	1·9	..	9·2	0	1	26	1	7	10	6	1	1	11	0	3	0
	1430	,,	1009·8	1008·2	..	31·5	22·6	17·1	20·2	44	..	1·6	..	12·6	0	3	26	1	2	1	0	1	0	10	13	1	1
	1730	,,	1009·8	1008·2	..	28·7	22·4	18·9	21·8	57	..	2·2	..	12·7	0	1	29	6	1	1	0	0	0	1	21	0	0
	2030	,,	1011·7	1010·0	..	25·6	21·7	19·5	22·7	69	..	1·7	..	8·1	0	0	24	12	1	1	0	0	0	0	10	6	0
	2330	,,	1011·8	1010·1	..	23·2	20·4	18·7	21·8	77	..	1·4	..	3·0	0	0	13	2	8	3	0	0	0	0	0	17	0
Bombay	0830	11	1012·6	1011·4	−0·7	24·9	21·9	20·2	23·8	76	+3	2·3	+0·5	7·4	0	0	29	0	10	17	3	0	0	0	0	1	0
	1130	,,	1012·6	1011·4	..	29·8	23·0	19·2	22·5	54	..	2·3	..	5.9	0	0	30	0	6	13	4	2	0	0	0	0	5
	1730	,,	1009·9	1008·7	..	28·1	23·4	20·8	25·0	66	..	2·2	..	10·7	0	1	28	4	0	0	0	0	1	3	21	1	0
Alibag	0830	7	1012·5	1011·7	−0·5	24·8	21·1	18·8	22·1	70	+3	1·7	−0·6	4·6	0	0	26	5	8	10	2	1	0	0	0	4	0
Bhira	0830	96	1012·1	1001·1	..	22·9	19·0	16·5	28·8	70	..	2·1	..	1·8	0	0	12	1	4	1	2	2	1	0	1	18	0
	1730	,,	1008·7	998.0	..	28·0	23·2	20·8	24·6	65	..	2·6	..	1·5	0	0	16	0	0	0	13	1	0	1	1	14	0
Harnai	0830	20	1012·0	1009·7	−0·3	26·4	21·2	17·8	20·9	61	+1	3·9	+1·5	10·0	0	7	16	0	1	19	1	2	0	0	0	7	0
	1730	,,	1009·5	1007·2	..	28·2	23·7	21·4	25·6	67	..	2·9	..	16·9	0	9	21	0	0	0	0	0	0	10	20	0	0
Ratnagiri	0830	35	1012·0	1008·0	−0·6	24·3	20·8	18·7	21·8	72	..	3·1	..	7·5	0	0	27	0	4	10	11	1	1	0	0	3	0
	1730	,,	1009·2	1005·3	..	28·7	23·7	21·1	25·2	64	..	3·0	..	7·5	0	0	30	6	1	0	0	1	3	5	14	0	0
Devgarh	0830	36	1011·9	1007·8	−0.6	24·6	21·6	19·6	23·4	73	+2	2·4	−0.7	7·9	0	2	26	0	6	20	1	0	0	0	1	2	0
	1730	,,	1009·1	1005·1	..	28·9	24·2	21·9	26·3	68	..	2·9	..	17·4	0	6	24	1	0	0	1	0	1	4	23	0	0
Vengurla	0230	9	1010·5	1009·5	..	22·1	21·2	20·8	24·4	92	..	3·0	..	(l) 1·2	0	0	5	6	0	0	0	0	0	0	0	24	0
	0530	,,	1010·3	1009·3	..	21·3	20·6	20·2	23·8	93	..	2·8	..	(l) 2·1	0	0	8	9	0	0	0	0	0	0	1	20	0
	0830	,,	1012·4	1011·4	−0·4	23·3	21·3	20·0	23·7	82	+8	2·2	−0.6	(l) 2·0	0	0	8	6	2	2	1	0	0	0	0	19	0
	1130	,,	1012·2	1011·2	..	30·1	22·6	18·1	21·3	51	..	2·2		(k) 5·2	0	0	17	3	8	3	1	2	7	1	0	5	0
	1730	,,	1009·5	1008·5	..	28·3	23·5	21·0	25·0	66	..	3·6	.	(k) 6·6	0	1	19	2	0	0	1	0	5	15	6	1	0
	2330	,,	1011·8	1010·8	..	22·9	21·7	21·1	25·0	89	..	3·3	..	(k) 2·4	0	0	10	10	1	0	0	0	0	0	1	18	0
Panjim	0530	60	1010·1	1003·2	..	22·3	21·1	20·4	24·1	89	..	2·1	..	7·4	0	0	24	0	5	18	1	0	0	0	0	6	0
	0830	,,	1012·3	1005·4	..	23·4	21·1	19·8	23·2	80	..	2·7	..	5·7	0	0	26	0	10	16	0	0	0	0	0	4	0
	1130	,,	1011·7	1005·3	..	29·2	22·0	17·5	20·5	51	..	2·6	..	6·5	0	0	25	2	9	7	2	1	3	0	1	5	0
	1430	,,	1009·2	1002·5	..	31·8	23·1	17·9	21·1	46	..	2·6	..	12·3	0	1	28	0	2	1	0	0	5	20	1	1	0
	1730	,,	1009·1	1002·4	..	28.6	23·2	20·2	24·0	61	..	3·2	..	10·2	0	1	28	2	0	0	0	2	2	15	8	1	0
	2030	,,	1011·3	1004·5	..	25·7	22·6	21·0	25·0	75	..	3·0	..	5.5	0	0	25	8	4	3	3	0	2	0	5	5	0
	2330	,,	1011·7	1004·9	..	24·2	22·3	21·4	25·3	84	..	2·3	..	6.2	0	0	26	1	12	10	0	1	0	1	1	4	0
Marmugao	0530	62	1009·7	1002·7	..	23·6	21·8	20·6	24·7	85	..	2·7	..	8·3	0	1	27	0	9	13	6	0	0	0	0	2	0
	0830	,,	1011·6	1004·6	..	25·3	21·9	19·8	23·5	73	..	2·8	..	9·9	0	1	28	0	15	12	1	1	0	0	0	1	0
	1130	,,	1011·5	1004·6	..	28·8	22·5	18·7	22·1	56	..	2·6	..	10·8	0	3	27	2	7	4	4	3	4	1	5	0	0
	1730	,,	1008·6	1001·7	..	27·9	23·2	20·5	24·7	65	..	3·2	..	13.4	0	2	27	2	0	0	1	1	8	9	8	1	0
Dabolim (R)																											
(R)																											
(R)																											
(R)																											
Madhya Maharashtra																											
Nandurbar	0830	206	1014·5	990·9	..	23·2	15·1	7·6	10·7	38	.	0·2	..	1.4	0	0	20	0	0	15	0	1	0	4	0	10	0
	1730	,,	1010·5	987·5	..	30·4	19·4	10·9	13·6	31	..	0	..	1.0	0	0	15	5	0	4	0	0	0	6	0	15	0
Jalgaon	0830	201	1015·0	991·6	−0·1	18·7	13·8	9·3	12·3	54	−7	2·8	+1.1	8·8	0	1	24	0	1	18	5	0	0	0	1	5	0
	1730	,,	1010·3	987·8	..	29·7	19·1	11·1	13·6	33	..	1·7	..	5·5	0	0	19	0	1	14	2	1	0	0	1	11	0

(b) Mean of 29 days. (l) Mean of 19 days. (k) Mean of 20 days. (R) Register no. received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): ½ or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —(Contd.)																											
Malegaon	0830	437	1015·0	965.0	−0·5	18·6	14·0	9·8	12·3	57	−1	2·6	+0·7	3·6	0	0	28	1	3	2	0	0	4	7	11	2	0
	1730	,,	1009·9	961.8	..	28·2	18·1	9·4	12·5	32	..	2·7	..	8·0	0	0	28	1	12	13	0	0	1	1	0	2	0
Deolali (Aerodrome)	0330	57.	1015·5	950 6	..	18.1	14.8	11.7	14.5	68	..	1.8	..	4.8	0	0	26	15	8	2	1	0	0	0	0	4	0
	1730	,,	1010·2	947.6	..	27.9	18.5	11.7	14.4	40	..	2.9	..	5.7	0	1	21	3	13	2	1	0	1	1	1	8	0
Ahmadabad	0830	657	1014·3	940·4	−1·0	19 1	14 8	11·3	13·7	62	+3	1·8	0	2·4	0	0	14	0	0	1	2	0	0	0	11	16	0
		,,	1009·3	937·5	..	26·8	17·8	11·1	13·8	41	..	3·9	..	8·6	0	0	28	1	22	0	1	0	2	0	2	2	0
Poona (Aerodrome)	0230	593	1012·1	945·1	..	18·6	16·1	14·3	16·5	77	..	1·7	..	3·2	0	1	10	0	2	2	0	1	1	5	0	19	0
	0530	,,	1012·6	945·2	..	17·1	15·4	14·2	16·3	83	..	1·3	..	3·4	0	1	11	0	4	2	0	0	2	4	0	18	0
	0830	,,	1014·2	947·1	..	19·4	16·4	14·1	16·5	73	..	2·9	..	2·5	0	0	11	0	5	3	0	0	0	3	0	19	0
	1130	,,	1012·4	947·0	..	26·6	18·1	12·0	14·6	42	..	2·7	..	15·4	0	9	18	0	6	18	3	0	0	0	0	3	0
	1730	,,	1008·8	943·9	..	28·1	18·1	10·8	13·4	37	..	3·5	..	10·5	0	2	25	3	14	8	1	0	0	1	0	3	0
	2330	,,	1012·8	946·1	..	20·2	16·5	13·9	16·1	68	..	2·2	..	5·8	0	0	18	0	3	3	1	0	1	9	1	12	0
Poon	0530	559	1013·2	949·0	..	15·0	14·1	13·5	15·5	90	..	1·6	..	0·0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1014.4	951 1	−0.7	19.3	16.1	15.1	17.4	77	+12	2.8	+0.9	0.3	0	0	2	0	0	2	0	0	0	0	0	28	0
	1130	,,	1012.3	950.6	..	26.4	18.5	13.2	15.5	46	..	2.5	..	3.3	0	0	18	0	0	18	0	0	0	0	0	12	0
	1430	,,	1008.8	947.7	..	28.9	18.9	12.1	14.5	37	..	2.9	..	2.1	0	0	13	0	3	10	0	0	0	0	0	17	0
	1730	,,	1008.9	947.6	..	27.5	18.7	12.6	15.1	42	..	3.4	..	0.9	0	0	5	1	1	2	0	0	0	1	0	25	0
	2030	,,	1012.5	949.8	..	21.2	1 .1	14.2	16.5	66	..	2.7	..	0.6	0	0	3	0	0	1	0	0	0	2	0	27	0
	2330	,,	1013.4	949.9	..	18.1	15.8	14.2	16.3	78	..	1.9	..	0.1	0	0	1	0	0	1	0	0	0	0	0	29	0
Jeur	0830	521	1013.9	954.9	−0.4	20.1	15.8	12.7	14.9	63	+2	3.4	+1.2	5.1	0	0	24	3	8	7	1	3	0	1	1	6	0
	1730	,,	1008.6	951·5	..	27.8	18.6	12.2	14.7	40	..	3.6	..	6.8	0	0	26	6	8	9	2	1	0	0	0	4	0
Baramati	0830	551	1014.1	951.9	−1.1	19.5	16.0	13.3	15.7	68	+1	2.2	−0.5	5.7	0	0	25	3	3	7	4	0	0	1	7	5	0
	1730	,,	1008.7	948.5	..	28.0	19.0	12.8	15.4	42	..	2.8	..	8.3	0	0	29	4	11	6	2	4	0	0	2	1	0
Sholapur	0530	479	1012.2	957.7	..	18.5	15.1	12.5	14.7	68	..	1.6	..	5.4	0	0	26	2	19	3	2	0	0	0	0	4	0
	0830	,,	1013.9	960.0	−0.4	22.1	17.2	13.7	16.1	60	+3	2.5	+0.3	7.1	0	0	30	1	19	2	6	1	0	1	0	0	0
	1130	,,	1012.2	959.2	..	27.5	18.3	12.7	15.3	42	..	3.2	..	10.1	0	1	29	5	8	1	6	3	0	0	0	0	0
	1730	,,	1009.0	956.3	..	28.3	19.0	12.3	15.2	40	..	3.8	..	9.6	0	2	28	11	7	4	5	1	0	0	2	0	0
	2330	,,	1012.4	958.5	..	21.5	16.2	12.0	14.5	56	..	1.9	..	8.0	0	0	28	4	19	3	1	1	0	0	0	2	0
Miraj	0830	554	1013.8	951.5	−0.4	20.3	16.8	14.3	16.5	69	+7	4.2	+1.4	..	..	..	..	0	0	6	0	0	0	0	0	24	0
	1730	,,	1008.6	948.1	..	28.0	18.8	12.2	15.0	41	..	3.8	..	..	..	..	..	2	1	5	2	0	1	1	1	17	0
Kolhapur	0530	570	1011.6	947.0	..	17.8	16.1	14.9	17.0	83	..	1.1	..	2.3	0	0	11	0	0	9	0	0	2	0	0	19	0
	0830	,,	1013.2	949.2	−0.9	20.6	17.4	15.0	17.5	72	+5	2.4	+0.5	2.2	0	0	14	0	1	12	0	0	0	1	0	16	0
	1130	,,	1011.6	949.0	..	27.2	19.6	14.7	17.3	48	..	2.2	..	6.4	0	0	26	0	5	18	3	0	0	0	0	4	0
	1730	,,	1008.0	945.8	..	27.9	19.6	14.1	16.7	46	..	2.9	..	8.2	0	1	27	0	7	19	0	0	0	1	1	2	0
	2330	,,	1012.0	948.1	..	20.8	17.4	15.0	17.4	71	..	1.5	..	3.5	0	0	16	1	2	6	0	1	0	7	0	13	0
Marathwada Aurangabad	0830	581	1014.5	949.4	−0.9	21.8	15.4	10.0	12.9	49	−5	2.5	+0.3	3.0	0	0	16	0	4	12	0	0	0	0	0	14	0
	1730	,,	1009.8	946.2	..	27.7	17.1	9.3	11.7	33	..	3.1	..	5.3	0	1	24	7	11	7	0	0	0	0	0	5	0
Aurangabad (Chikalthan)	0230	579	1013.3	946.8	..	14.3	11.4	8.7	11.4	70	..	1.4	..	0.1	0	0	1	0	1	0	0	0	0	0	0	29	0
	0530	,,	1013.9	947.0	..	12.9	10.6	8.3	11.1	74	..	1.1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1014.3	949.1	..	21.0	15.4	11.0	13.4	54	..	2.6	..	3.5	0	0	10	0	1	7	2	0	0	0	0	20	0
	1130	,,	1012.5	948.7	..	26.7	17.9	11.8	14.1	41	..	2.3	..	13.0	0	1	28	1	4	14	9	1	0	0	0	1	0
	1430	,,	1009.1	945.9	..	29.0	18.6	11.3	13.8	35	..	3.2	..	8.5	0	0	22	1	2	7	1	0	0	0	1	8	0
	1730	,,	1009.5	945.9	..	27.0	17.7	10.8	13.5	39	..	3.3	..	6.4	0	0	16	2	6	6	2	0	0	0	0	14	0
	2030	,,	1013.1	947.7	..	20.0	14.5	10.0	12.5	54	..	2.1	..	2.1	0	0	7	0	4	3	0	0	0	0	0	23	0
	2330	,,	1014.1	948.0	..	16.3	12.5	9.0	11.7	63	..	1.7	..	0.9	0	0	3	0	12	0	1	0	0	0	0	27	0
Parbhani	0830	423	1015·0	966·8	+0.2	20·6	15·2	10·5	12·9	53	−5	2·5	+0·1	4·4	0	0	25	6	12	2	1	1	0	1	2	5	0
	1730	,,	1010·3	963·4	..	27·6	18·0	10·3	12·9	36	..	3·1	..	8·2	0	1	26	6	5	4	1	0	0	0	1	3	0
Nander	0830	358	1014·3	973·4	..	21·6	17·0	13·5	15·7	61	..	1·6	..	1·9	0	0	11	0	5	1	2	0	1	2	0	19	0
	1730	,,	1009·7	969·9	..	28·0	19·9	14·0	16·6	43	..	1·4	..	5·1	0	0	24	2	5	3	6	5	1	1	1	6	0
Bir	0830	519	1015·1	956·3	..	20·0	16·4	13·9	16·0	69	..	2·9	..	2.1	0	0	11	1	4	0	5	0	0	0	1	19	0
	1730	,,	1010·2	952·9	..	26·5	19·3	14·6	17·1	51	..	2·4	..	6·1	0	1	23	1	19	0	3	0	0	0	1	6	0
Vidarbha																											
Gondia	0830	313	1015·5	979·4	−0·7	18·8	15·5	12·9	15·0	69	−1	2·2	+0.5	0·8	0	0	12	6	3	1	0	0	0	0	2	18	0
	1730	,,	1011·3	976·1	..	25·7	17·7	11·5	13·7	42	..	2·1	..	0·8	0	0	11	6	1	2	0	0	0	2	0	19	0
Nagpur (Sonegaon)	0230	310	1012·7	976·8	..	16·5	13·7	11.3	13·3	72	..	1·1	..	5·1	0	0	27	12	2	1	0	0	0	1	11	3	0
	0530	,,	1013·5	977·3	..	15·1	13·0	11·1	13·3	77	..	1·8	..	4·7	0	0	28	17	2	0	0	0	0	0	9	2	0
	0830	,,	1015·2	979·5	−0·7	19·7	14·9	10·8	13·0	57	+1	2·2	+0·2	6·8	0	0	29	14	9	3	0	0	0	0	3	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)	1130	310	1013·5	978·7	..	26·6	17·5	10·6	12·7	37	..	2·3	..	8·7	0	1	29	2	10	13	4	0	0	0	1	0	0
	1430	,,	1010·5	975·9	..	28·0	17·9	9·7	12·3	34	..	2·5	..	8·7	0	1	27	5	15	8	0	0	0	0	0	2	0
	1730	,,	1011·1	976·1	..	24·9	17·4	11·3	13·7	44	..	2·6	..	5·9	0	0	30	1	14	13	2	0	0	0	0	0	0
	2030	,,	1013·5	977·8	..	19·5	15·5	12·2	14·4	63	..	1·6	..	3·3	0	0	23	4	10	6	3	0	0	0	0	7	0
	2330	,,	1013·8	977·9	..	17·5	14·4	11·7	13·7	69	..	1·2	..	5·4	0	0	28	13	5	1	1	0	0	1	7	2	..
Amraoti . . .	0830	370	1015·3	973·2	−0·1	21·9	14·4	7·0	10·4	39	−11	1·7	−0·1	4·7	0	0	30	0	28	2	0	0	0	0	0	0	0
	1730	,,	1010·7	969·6	..	27·6	17·0	7·3	10·8	29	..	2·0	..	3·3	0	0	29	2	7	13	5	0	0	2	0	1	0
Akola Aerodrome—	0530	309	1012·4	976·5	..	16·0	12·2	8·1	11·1	60	..	1·5	..	10·7	0	0	30	6	9	6	3	1	1	1	3	0	0
	0830	,,	1014·2	978·7	..	20·2	14·2	8·6	11·7	48	..	2·3	..	8·4	0	1	27	2	10	13	0	0	1	2	0	2	0
	1130	,,	1013·1	978·4	..	27·1	17·2	8·7	11·6	33	..	2·4	..	9·0	0	0	30	7	8	11	2	0	0	1	1	0	0
	1730	,,	1009·6	975·2	..	28·0	17·4	8·2	11·1	31	..	2·6	..	8·4	0	1	29	9	12	3	1	0	0	1	4	0	0
	2330	,,	1012·7	977·2	..	19·7	13·9	8·3	11·2	48	..	1·9	..	10·2	0	0	30	6	9	9	2	0	0	3	1	0	0
Akola . . .	0830	282	1014·9	982·4	−0·6	20·0	14·6	9·9	12·3	53	−4	2·5	+0·7	0·1	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	,,	1010.0	978·6	..	28·5	18·2	9·5	12·5	31	..	2·6	..	0·4	0	0	6	0	3	2	0	0	0	0	1	24	0
Bramhapuri . .	0830	229	1014·9	988·3	..	19·1	16·2	14·0	16·1	73	..	1·9	..	2·0	0	0	25	9	10	4	0	0	0	0	2	5	0
	1730	,,	1010·9	985·1	..	26·4	19·0	13·8	16·0	47	..	2·8	..	2·5	0	0	29	15	7	5	0	0	0	0	2	1	0
Buldana . . .	0830	650	1014·2	941·3	−0.6	20·7	14·2	8·6	11·5	47	−9	1·8	−0·5	3·1	0	0	23	2	7	1	0	1	2	0	10	7	0
	1730	,,	1009·9	938·7	..	26·2	16·3	8·3	11·2	34	..	2·8	..	3·6	0	0	27	6	12	1	3	0	0	0	5	3	0
Yeotmal . . .	0830	451	1014.3	963·2	−0.9	21·3	14·8	8·7	11·5	46	−6	2·8	+0·6	9·1	0	3	27	7	10	10	1	2	0	0	0	0	0
	1730	,,	1010·1	960·1	..	26·7	16·8	8·0	11·1	32	..	2·8	..	7·2	0	0	30	8	13	8	0	0	0	0	1	0	0
Chandas . . .	0830	193	1014·5	992·1	−1.0	18·9	16·4	14·7	16·6	76	+6	2·0	−0·1	4.2	0	0	27	6	7	1	0	0	2	4	7	3	0
	1730	,,	1010·7	988·8	..	25·9	19·8	15·8	17·8	54	..	2·9	..	3·7	0	0	27	6	16	4	1	0	0	0	0	3	0
Pasad . . .	0830	334	1015·4	977·0	..	20·0	15·3	12·2	13·6	60	..	2·2	..	3·5	0	0	25	2	5	4	0	1	1	4	8	5	0
	1730	,,	1011·1	973·8	..	27·6	19·5	13·4	16·0	44	..	2·5	..	7·0	0	0	30	5	17	6	1	1	0	0	0	0	0
Sironcha . .	0830	123	1014·4	1000·2	−1·0	21·9	18·5	16·1	18·5	70	−7	2·3	−0·2	3·5	0	0	30	3	14	1	2	0	0	0	10	0	0
Coastal Andhra Pradesh .	1730	,,	1010·4	996·4	..	27·3	20·7	16·5	19·0	53	..	3·1	..	5·3	0	0	30	8	16	1	1	0	1	1	2	0	0
Kalingapatam . .	0830	6	1013·4	1012·7	−0·9	24·5	21·7	20·3	23·7	78	−1	8·1	+0·2	7 0	0	1	23	11	7	0	0	0	0	1	5	6	0
	1730	,,	1010·5	1009·7	..	26·3	22·9	20·9	25·2	73	..	2·7	..	10·7	0	4	20	7	7	8	0	1	0	0	1	6	0
Vishakhapatnam .	0230	3	1010·4	1010·0	..	23·3	20·9	19·5	22·8	79	..	2·8	..	5·5	0	2	13	2	3	5	1	0	0	1	3	15	0
	0530	,,	1011·1	1010·7	..	22·9	20·4	18·9	21·8	79	..	3·9	..	4·9	0	1	14	3	4	4	0	0	0	0	4	15	0
	0830	,,	1013·0	1012·6	−1·2	25·7	21·3	18·7	21·7	66	0	4·2	+0·5	10·1	0	3	24	3	14	5	0	0	0	1	4	3	0
	1130	,,	1012·1	1011·7	..	27·9	22·0	18·4	21·6	58	..	4·7	..	12·1	0	0	28	3	11	11	2	0	0	0	1	2	0
	1430	,,	1009·7	1009·3	..	28·3	22·0	18·3	21·3	57	..	4·1	..	14·4	0	3	26	0	5	13	11	0	0	0	0	1	0
	1730	,,	1010·3	1009·9	..	26·1	21·8	19·3	22·7	67	..	4·0	..	10·5	0	0	28	0	2	18	8	0	0	0	0	2	0
	2030	,,	1012·2	1011·8	..	24·7	21·7	20·1	23·5	76	..	3·2	..	5·0	0	0	16	0	3	12	0	1	0	0	0	14	0
	2330	,,	1012·1	1011·7	..	23·8	21·4	20·0	23·5	80	..	3·2	..	3·7	0	1	10	2	3	5	0	0	0	0	1	19	0
Kakinada . .	0830	8	1012·5	1011·6	−1·4	24·5	21·9	20·5	24·1	79	+6	3·7	+0·1	12·7	0	4	26	0	22	0	0	0	0	0	8	0	0
	1730	,,	1009·7	1008·8	..	27·0	22·8	20·6	24·3	69	..	3·7	..	14·4	0	6	24	0	28	1	1	0	0	0	0	0	0
Nidadavole . .	0830	13	1012·4	1011·0	..	23·8	21·7	20·5	24·1	82	..	4·4	..	5·8	0	0	28	2	19	4	0	0	0	1	3	2	0
	1730	,,	1007·9	1006·5	..	28·4	23·3	20·5	24·4	63	..	4·6	..	6·0	0	0	29	1	12	12	0	0	0	1	3	1	0
Rentachintala . .	0830	106	1013·2	1001·1	..	23·5	20·5	18·6	21·7	75	+3	3·9	−0·8	1·1	0	0	14	8	0	3	0	0	1	1	1	16	0
	1730	,,	1009·5	997·6	..	27·7	21·2	16·9	19·9	54	..	3·7	..	1·4	0	0	21	12	0	7	1	0	0	0	0	9	0
Gannavaram . .	0230	24	1009·9	1007·1	..	22·4	21·2	20·4	24·3	89	..	2·7	..	7·1	0	3	21	12	2	5	0	0	0	0	5	6	0
	0530	,,	1010·4	1007·6	..	21·8	20·7	19·9	23·5	89	..	2·8	..	7·8	0	2	23	16	4	2	0	0	0	0	3	5	0
	0830	,,	1012·6	1009·9	−0·6	24·9	21·8	20·0	23·5	75	+2	3·7	+0 3	14·5	0	7	23	15	2	10	0	0	0	0	3	0	0
	1130	,,	1011·7	1008·9	..	28·4	22·8	19·6	23·2	60	..	4·9	..	17·1	0	11	19	11	1	17	1	0	0	0	0	0	0
	1430	,,	1008·9	1006·2	..	29·4	22·8	19·0	22·4	55	..	4·8	..	16·3	0	11	19	9	2	14	3	0	0	0	2	0	0
	1730	,,	1009·7	1006·9	..	26·9	22·4	19·7	23·4	67	..	4·3	..	11·0	0	3	27	9	3	13	5	0	0	0	0	0	0
	2030	,,	1011·7	1008·9	..	24·3	21·7	20·3	23·8	79	..	3·4	..	7·9	0	1	25	12	0	9	3	0	1	0	1	4	0
	2330	,,	1011·6	1008·8	..	23·1	21·4	20·4	24·1	85	..	3.2	..	6·5	0	1	21	10	1	8	0	0	0	1	2	8	0
Nagarjuna Konda (R)	0830	126																									
(R)	1730	,,																									
Masulipatam . .	0830	3	1012.3	1011·9	−1·6	24·3	22·2	21·0	25·0	82	+4	5·1	+2·0	4·9	0	0	30	10	7	9	0	0	0	0	4	0	0
	1730	,,	1009·5	1009·1	..	27·0	23·3	21·3	25·6	72	..	5·2	..	4·8	0	0	30	4	5	16	5	0	0	0	0	0	0
Ongole . . .	0830	12	1012·3	1011·0	..	25·6	22.3	20·6	24·1	78	..	4·9	..	3·7	0	0	26	11	10	1	0	0	0	1	3	4	0
	1730	,,	1009·3	1008·0	..	27·0	23.1	20·9	25·0	71	..	3·3	..	2.7	0	0	30	13	5	12	0	0	0	0	0	0	0
Nellore . .	0530	20	1009·8	1007·5	..	22·5	22.0	21·7	25·9	95	..	5·8	..	3·4	0	1	15	4	1	0	0	0	0	0	11	14	0
	0830	,,	1011·9	1009·6	−1·3	24·2	22.7	22·2	26·3	87	+4	6·0	+1.0	4·2	0	0	24	2	1	1	0	0	0	3	17	6	0

(R) Register not received

Sub-Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd.*)																											
Nellore—*Contd.*	1130	20	1011·3	1009·1	..	27·2	23·9	22·3	26·9	76		5·8	..	6·5	0	0	30	8	4	3	0	0	2	0	13	0	0
	1730	,,	1009·1	1006·9	..	26·3	23·5	22·0	26·6	78		5·7	..	6·7	0	0	30	1	24	0	0	0	0	0	5	0	0
Telangana	2330	,,	1011·1	1008·8	..	23·4	32·8	22·4	27·3	93		5·2	..	2·2	0	0	18	4	4	1	0	0	0	0	9	12	0
Ramagundam	0830	156	1013·7	995·7	—1·2	22·2	18·4	15·8	18·1	68	+1	2·2	—0·4	3·7	0	0	28	13	13	1	0	1	0	0	0	2	0
	1730	,,	1009·9	992·7	..	28·1	20·1	14·5	16·9	44	..	2·4	..	6·7	0	1	29	19	9	1	1	0	0	0	0	0	0
Nizamabad	0830	381	1014·2	970·8	—0·4	21·1	17·8	15·4	17·7	70	+2	1·7	—0·5	1·1	0	0	5	1	3	0	1	0	0	0	0	25	0
	1730	,,	1009·9	967·4	..	27·3	23·5	21·5	25·6	72	..	2·8	..	5·2	0	0	23	0	23	0	0	0	0	0	0	7	0
Hanamkonda	0830	269	1013·5	982·9	—1·3	22·1	18·7	16·3	18·8	71	+2	1·5	—1·6	1·9	0	0	27	21	0	1	0	5	0	0	0	3	0
	1730	,,	1010·3	980·3	..	27·0	20·0	15·2	17·7	50	..	1·8	..	2·0	0	0	30	23	3	3	0	1	0	0	0	0	0
Hakimpet (Aerodrome)	0530	613	1011·9	942·7	..	18·2	16·0	14·4	16·6	81	..	2·6	..	7·6	0	0	25	7	8	5	4	1	0	0	0	5	0
	0830	,,	1012·7	944·3	..	21·6	17·7	14·9	17·6	67	..	3·7	..	12·7	0	3	27	7	12	3	7	1	0	0	0	0	0
	1130	,,	101[illegible]·3	944·0	..	26·2	18·7	13·5	15·9	47	..	4·2	..	16·8	0	9	21	2	15	4	8	1	0	0	0	0	0
	1730	,,	1009·6	942·2	..	24·8	18·1	13·4	15·9	51	..	3·8	..	11·4	0	2	27	7	11	6	5	0	0	0	0	[illegible]	0
	2330	,,	1012·5	943·6	..	19·5	16·7	14·6	16·9	74	..	2·3	..	7·7	0	0	26	2	12	6	5	1	0	0	0	4	0
Bhadrachalam	0830	111	1012·9	1000·2	—2·1	22·9	20·5	19·2	22·1	79	0	2·7	—0·7	2·5	0	0	24	2	22	0	0	0	0	0	0	6	0
	1730	,,	1009·3	996·8	..	26·8	22·6	20·1	24·0	66	..	2·8	..	2·5	0	0	29	0	28	1	0	0	0	0	0	1	0
Hyderabad (Begampet)	0230	545	1011·8	949·9	..	17·2	15·7	14·6	16·7	84	..	2·1	..	2·7	0	0	16	6	3	3	4	0	0	0	0	14	0
	0530	,,	1012·3	950·2	..	16·3	15·0	14·1	16·1	87	..	2·8	..	2·3	0	0	11	4	3	2	1	0	0	0	1	19	0
	0830	,,	1013·6	952·3	—0·7	20·6	17·2	14·9	17·1	70	+5	3·5	+0·5	5·3	0	1	23	6	7	4	5	1	0	0	1	6	0
	1130	,,	1011·7	951·7	..	26·2	18·2	12·5	15·1	45	..	3·9	..	11·6	0	1	29	2	17	6	5	0	0	0	0	0	0
	1730	,,	1009·4	949·5	..	25·7	18·0	12·8	15·1	46	..	4·0	..	9·2	0	1	29	7	12	7	4	0	0	0	0	0	0
	2330	,,	1013·1	951·4	..	18·3	16·2	14·7	16·9	80	..	2·0	..	4·8	0	0	25	8	11	5	1	0	0	0	0	5	0
Khammam	0830	112	1013·1	1000·2	..	23·6	20·1	18·5	20·8	79	..	3·6	..	1·0	0	0	14	7	1	5	0	1	0	0	0	16	0
	1730	,,	1009.2	996·6	..	28·0	21·3	17·2	19·9	53	..	3·9	..	1·8	0	0	16	7	1	8	0	0	0	0	0	14	0
Mahbubnagar	0830	505	1012·5	956·1	..	23·1	18·3	14·9	17·4	62	..	3·5	..	9·6	0	0	29	1	16	12	0	0	0	0	0	1	0
	1730	,,	1008·8	953·1	..	26·4	19·0	14·3	16·5	49	..	4·2	..	5·1	0	0	29	5	12	11	1	0	0	0	0	1	0
Rayala Seema																											
Kurnool	0830	281	1013·3	98[illegible]·1	—0·7	22·2	19·0	16·9	19·4	72	+1	3·1	+0·1	4·6	0	0	30	0	7	0	0	0	7	0	16	0	0
	1730	,,	1008·2	977·0	..	28·4	20·8	15·7	18·4	48	..	3·2	..	4·9	0	0	30	5	4	2	4	1	2	0	12	0	0
Nandyal (R)	0830	212																									
(R)	1730	,,																									
Anantapur	0530	350	1010·7	970·7	..	19·3	17·9	16·9	19·4	87	..	2·5	..	2·5	0	0	10	0	3	1	0	0	1	2	3	20	0
	0830	,,	1012·5	972·9	—0·9	22·7	19·5	17·2	20·1	72	+1	3·6	+0·1	2·7	0	0	10	2	2	2	1	1	0	0	2	20	0
	1130	,,	1011·3	972·3	..	26·6	20·4	16·0	18·9	55	..	3·8	..	10·2	0	2	27	5	15	5	2	0	0	0	2	1	0
	1430	,,	1008·0	969·4	..	28·5	20·5	14·8	17·6	47	..	3·6	..	8·5	0	0	25	3	18	3	1	0	0	0	0	5	0
	1730	,,	1008·4	969·5	..	27·0	20·5	15·7	18·8	54	..	3·9	..	8·1	0	1	21	4	8	7	2	0	0	0	1	8	0
	2030	,,	1011·1	971·7	..	24·0	19·5	16·3	19·0	64	..	2·7	..	5·5	0	1	14	1	5	5	3	0	0	0	1	15	0
	2330	,,	1011·5	971·9	..	22·1	18·8	16·3	19·0	71	..	2·7	..	5·9	0	0	17	2	2	7	4	0	0	0	2	13	0
Cuddapah	0830	130	1012·8	997·9	—0·8	23·2	21·3	20·2	23·8	83	+7	3·8	0	0·6	0	0	5	0	0	2	0	0	0	3	0	25	0
	1730	,,	1009·3	994·6	..	26·3	22·6	20·6	24·4	72	..	4·3	..	1·7	0	0	12	0	1	11	0	0	0	0	0	18	0
Arogyavaram	0830	701	1012·5	934·5	..	20·7	18·7	17·5	20·0	83	..	4·9	..	7·1	0	1	20	8	4	0	0	3	0	0	4	9	2
	1730	,,	1008·9	931·9	..	23·4	20·9	19·5	22·9	80	..	4·1	..	7·9	0	0	30	14	9	5	0	0	0	0	2	0	0
Madras State																											
Madras	0830	6	1011·4	1010·7	..	24·7	23·1	22·2	26·9	86	..	5·0	..	5·1	0	2	18	8	0	0	1	0	2	2	5	10	2
Madras (Minambakkam)	0230	16	1008·8	1007·0	..	23·2	22·5	22·1	26·6	93	..	4·5	..	7·1	0	3	15	6	0	0	0	0	0	5	7	12	0
	0530	,,	1009·2	1007·4	..	22·7	22·0	21·7	25·9	94	..	4·6	..	7·5	0	3	17	3	0	2	0	1	0	6	8	10	0
	0830	,,	1011·6	1009·8	—1·4	24·4	22·7	21·7	25·9	86	+3	5·0	+0·2	10·3	0	2	25	7	1	1	0	1	0	6	11	3	0
	1130	,,	1010·7	10[illegible]8·9	..	26·7	23·1	21·1	25·3	73	..	5·5	..	13·1	0	6	23	15	3	2	0	1	1	0	7	1	0
	1430	,,	1008·2	1006·4	..	27·7	23·6	21·3	25·6	70	..	5·5	..	13·0	0	5	25	13	7	4	0	1	0	0	5	0	0
	1730	,,	1008·7	1007·0	..	26·4	23·1	21·3	25·6	75	..	4·9	..	11·6	0	4	26	15	7	5	0	0	0	0	3	0	0
	2030	,,	1010·8	1009·0	..	24·6	22·8	21·9	26·3	85	..	4·1	..	9·7	0	4	20	12	7	0	0	1	0	1	3	6	0
	2330	,,	1010·7	1008·9	..	23·8	22·6	22·0	26·4	90	..	4·6	..	9·3	0	5	15	7	3	1	0	0	0	4	5	10	0
Vellore	0530	214	1010·2	985·6	..	20·6	20·0	19·7	22·9	94	..	4·5	..	0·6	0	0	5	0	1	2	0	0	0	2	0	25	0
	0830	,,	1012·0	987·6	—0·8	22·4	21·0	20·1	23·7	47	+3	5·3	+1·2	1·7	0	0	15	5	2	0	0	0	0	3	5	15	0
	1130	,,	1011·3	987·0	..	26·1	22·2	20·0	23·1	71	..	5·3	..	3·7	0	0	26	10	4	1	0	2	0	2	7	4	0
	1730	,,	1008·7	984·6	..	26·1	22·0	19·6	23·1	69	..	5·5	..	6·9	0	0	26	7	13	2	1	0	0	2	1	4	0
	2330	,,	1011·4	987·0	..	22·9	21·4	20·5	24·3	86	..	3·7	..	1·6	0	0	10	1	2	4	0	0	0	3	0	20	0

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State —(*Contd.*)																											
Tambaram (Aerodrome)	0830	29	1011.2	1007.9	..	24.8	23.6	23.1	28.1	90	..	5.4	..	14.6	0	5	21	4	1	0	1	0	0	7	13	4	0
	1730	,,	1008.4	1005.1	..	25.8	23.7	22.7	27.6	84	..	5.0	..	20.1	0	10	20	16	6	0	2	0	0	0	6	0	0
Tiruppattur	0830	390	1012.1	967.9	..	21.1	20.3	19.8	23.1	92	..	8.0	..	2.9	0	0	28	19	9	0	0	0	0	0	0	2	0
	1730	,,	1008.1	964.9	..	26.1	22.5	20.5	24.3	72	..	7.6	..	4.1	0	0	29	19	10	0	0	0	0	0	0	1	0
Mettur Dam R.S.	0830	..	..	..	..	24.2	22.1	21.0	24.9	83	..	4.4	..	3.3	0	0	28	0	16	0	2	0	0	0	10	2	0
	1730	..	..	..	..	25.9	23.6	22.6	27.4	82	..	4.2	..	3.6	0	0	29	0	13	0	4	0	4	0	8	1	0
Cuddalore	0530	12	1009.0	1007.6	..	22.4	21.6	21.2	25.2	93	..	5.5	..	5.3	0	1	17	5	5	0	0	0	1	3	4	12	0
	0830	,,	1011.2	1009.9	−1.3	24.5	22.7	21.8	26.1	85	+1	6.0	+1.1	5.7	0	1	25	2	6	1	0	1	2	1	13	4	0
	1130	,,	1010.5	1009.2	..	27.5	23.1	20.9	24.7	71	..	5.9	..	9.3	0	2	28	3	8	1	0	1	3	1	13	0	0
	1730	,,	1008.3	1007.0	..	26.5	23.3	21.7	25.9	76	..	5.4	..	8.0	0	1	27	2	18	0	1	1	0	1	5	2	0
	0230	,,	1010.6	1009.2	..	24.3	22.4	21.4	25.6	84	..	5.4	..	5.8	0	1	21	4	6	0	0	0	2	1	9	8	0
Kallakkurichchi	0830	127	1011.5	997.1	..	24.4	22.1	20.8	24.7	81	..	5.1	..	4.5	0	0	21	10	0	0	0	0	0	1	10	9	0
	1730	,,	1008.2	993.9	..	26.7	22.8	20.7	24.6	74	..	5.3	..	5.9	0	0	26	6	15	0	1	0	1	1	2	4	0
Salem	0530	278	1010.0	978.3	..	21.0	19.9	19.2	22.2	89	..	4.6	..	0.9	0	0	5	0	0	1	0	1	1	2	0	25	0
	0830	,,	1012.0	980.5	−0.7	23.1	20.9	19.6	22.9	81	+3	5.1	+0.9	0.3	0	0	3	1	0	0	0	0	1	1	0	27	0
	1130	,,	1010.7	979.6	..	26.8	21.7	18.7	21.8	63	..	5.1	..	5.3	0	0	27	2	2	4	0	0	2	9	6	3	0
	1730	,,	1007.9	976.9	..	26.7	21.9	19.1	22.4	65	..	5.2	..	2.0	0	0	13	1	3	4	0	0	0	4	1	17	0
	2330	,,	1011.0	979.5	..	22.8	20.7	19.4	22.7	82	..	4.6	..	4.9	0	0	15	4	6	3	1	0	1	0	0	15	0
Coimbatore(Pilamedu)	0530	399	1010.4	965.2	..	20.3	20.0	19.7	23.1	96	..	4.0	..	5.3	0	0	14	1	4	1	0	4	3	1	0	16	0
	0830	,,	1012.3	967.3	..	22.8	21.0	20.1	23.4	85	..	4.6	..	6.1	0	0	17	4	4	1	1	4	3	0	0	13	0
	1130	,,	1010.9	966.6	..	26.5	21.9	19.3	22.5	66	..	4.9	..	8.3	0	1	20	4	8	3	2	4	0	0	0	9	0
	1730	,,	1008.1	963.9	..	26.5	21.9	19.2	22.5	66	..	4.3	..	12.4	0	4	24	0	6	4	1	13	4	0	0	2	0
	2330	,,	1011.3	966.3	..	21.9	21.0	20.4	24.1	92	..	3.9	..	8.3	0	0	20	0	1	2	0	9	7	1	0	10	0
Coimbatore	0830	469	1012.3	966.4	−0.4	23.3	21.0	19.7	22.9	80	−2	5.7	+1.4	16.6	0	12	15	0	0	2	12	10	2	1	0	3	0
Nagapattinam	0830	9	1011.5	1010.5	−0.5	24.7	22.7	21.7	26.0	84	+2	5.2	−0.2	7.5	0	1	27	4	0	0	0	0	1	7	16	2	0
	1730	,,	1008.4	1007.3	..	26.9	23.3	21.4	25.6	73	..	5.4	..	11.1	0	6	20	5	13	1	0	0	2	2	3	4	0
Tiruchchirapalli	0230	88	1009.0	998.9	..	23.3	21.9	21.2	25.2	88	..	4.8	..	5.6	0	3	9	0	1	2	0	0	1	7	1	18	0
	0530	,,	1009.3	999.2	..	22.6	21.4	20.8	24.6	89	..	4.5	..	4.9	0	2	6	0	0	0	0	0	0	7	1	22	0
	0830	,,	1011.4	1001.4	−1.3	24.6	22.3	21.1	25.0	81	0	4.7	+0.2	10.3	0	5	15	3	1	1	0	0	0	11	4	10	0
	1130	,,	1010.6	1000.6	..	27.7	23.1	20.8	24.4	67	..	5.3	..	12.0	0	6	16	5	4	1	0	0	2	8	2	8	0
	1430	,,	1007.6	997.7	..	28.9	23.0	19.8	23.2	59	..	5.2	..	12.9	0	7	18	3	7	0	1	0	0	9	5	5	0
	1730	,,	1007.9	997.9	..	27.7	22.9	20.3	24.0	67	..	5.1	..	8.5	0	3	16	2	7	0	0	0	0	4	6	11	0
	2030	,,	1010.2	1000.2	..	25.4	23.0	21.7	26.1	80	..	4.3	..	7.4	0	2	15	1	3	7	2	0	0	3	1	13	0
	2330	,,	1010.6	1000.6	..	24.1	22.3	21.3	25.5	85	..	4.6	..	7.9	0	2	17	1	4	4	3	0	1	5	1	11	0
Vedaranniyam	0830	4	1011.4	1010.9	..	25.4	23.4	22.6	27.1	86	..	2.9	..	4.2	0	0	30	1	17	0	0	0	1	1	10	0	0
	1730	,,	1008.5	1008.0	..	27.1	24.3	22.7	27.9	79	..	3.5	..	3.6	0	0	29	0	18	0	0	0	0	1	10	1	0
Atirampattinam	0830	6	1011.3	1010.7	..	25.2	23.1	21.9	26.4	83	..	4.3	..	7.3	0	1	25	5	2	0	0	0	1	1	17	4	0
	1730	,,	1008.3	1007.6	..	27.3	24.1	22.5	27.4	75	..	5.0	..	7.1	0	1	23	3	6	1	3	6	1	0	4	6	0
Madurai	0830	133	1011.8	996.7	−0.6	25.3	22.6	21.0	25.3	78	−2	3.3	−1.8	4.1	0	0	28	9	4	0	0	0	0	4	10	2	1
Madurai (Aerodrome)	0530	131	1009.8	994.8	..	23.0	21.7	21.0	24.9	89	..	4.6	..	2.6	0	0	13	1	7	0	0	0	0	1	3	17	1
	0830	,,	1011.8	996.9	..	25.4	22.6	21.2	25.2	78	..	4.7	..	5.9	0	0	24	11	8	1	0	0	0	0	4	6	0
	1130	,,	1010.8	996.1	..	28.3	23.4	20.9	24.7	65	..	5.4	..	8.0	0	2	25	9	9	3	1	1	0	2	2	3	0
	1730	,,	1008.2	993.5	..	28.4	23.3	20.6	24.4	64	..	5.2	..	6.3	0	0	25	2	6	10	3	0	1	1	2	5	0
Tondi	0830	5	1011.7	1011.1	..	25.8	23.0	21.5	25.8	78	..	4.5	..	6.7	0	0	25	17	1	0	0	0	0	2	5	5	0
	1730	,,	1008.5	1007.9	..	27.9	23.8	21.7	26.1	70	..	5.2	..	13.2	0	9	18	1	7	9	2	5	0	0	3	3	0
Pamban	0830	11	1011.5	1010.2	−0.3	26.8	24.6	23.6	29.1	83	0	5.2	+1.1	6.5	0	1	23	3	6	1	3	0	0	5	6	6	0
	1730	,,	1008.4	1007.1	..	27.4	24.3	22.9	27.7	77	..	5.1	..	5.3	0	1	27	3	8	6	2	5	1	0	3	2	0
Tuticorin	0830	4	1011.8	1011.4	−0.7	26.6	23.5	21.9	26.3	76	−5	3.6	−1.3	8.9	0	0	30	8	3	2	0	0	0	10	7	0	0
	1730	,,	1008.8	1008.4	..	28.0	24.1	22.1	26.9	71	..	3.8	..	14.0	0	3	27	0	2	5	11	5	1	5	1	0	0
Palayankottai	0830	51	1011.5	1005.8	−0.8	26.4	23.2	21.6	25.8	75	−3	5.9	+0.7	5.4	0	2	23	8	0	2	0	0	0	9	5	5	1
	1730	,,	1008.3	1002.6	..	28.3	23.7	21.3	25.5	67	..	5.9	..	10.7	0	3	27	1	1	7	6	4	0	7	2	0	2
Kaniyakumari	0830	37	1011.4	1007.3	..	26.3	23.1	21.5	25.6	75	..	4.4	..	12.3	0	5	25	3	3	0	0	0	2	15	7	0	0
	1730	,,	1008.7	1004.5	..	27.3	23.0	22.2	26.7	74	..	4.8	..	12.8	0	6	24	2	0	1	1	0	2	20	4	0	0
Coastal Mysore																											
Karwar	0830	4	1012.2	1011.7	−0.4	23.7	21.4	20.1	23.5	81	+5	3.2	+0.2	5.1	0	1	26	0	3	18	1	0	0	0	0	3	5
	1730	,,	1009.3	1008.8	..	28.5	24.1	21.8	26.3	68	..	3.9	..	7.0	0	0	30	1	0	1	2	0	3	1	19	0	3

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore—(*Contd.*)																											
Honavar	0830	26	1012·0	1009·0	—0·4	23·5	20·9	19·2	22·7	77	+7	3·4	—0·7	4·3	0	0	29	2	2	24	1	0	0	0	0	1	0
	1730	,,	1009·0	1006·0	..	28·6	23·9	21·5	22·8	66	..	4·8	..	6·1	0	0	30	4	2	0	0	2	2	16	4	0	0
Mangalore (Bajpe)	0230	102	1009·8	998·1	..	22·7	21·8	21·2	25·3	91	..	3·5	..	3·1	0	0	19	3	3	8	3	0	2	0	0	11	0
	0530	,,	1009·8	998·1	..	21·9	21·2	20·7	24·7	93	..	3·2	..	4·1	0	0	25	2	3	14	4	1	0	1	0	5	0
	0830	,,	101[illegible]·9	1000·3	..	24·7	22·5	21·2	25·5	81	..	3·3	..	5·1	0	0	30	0	3	20	5	1	0	0	1	0	0
	1130	,,	1011·3	999·9	..	29·0	23·1	19·6	23·5	59	..	3·8	..	6·6	0	0	28	0	3	6	7	0	2	6	4	2	0
	1430	,,	1008·5	997·1	..	29·8	22·6	20·1	24·1	59	..	3·9	..	11·0	0	0	29	0	0	0	1	1	6	14	6	1	1
	1730	,,	1008·8	997·4	..	27·5	23·1	20·8	24·7	68	..	4·1	..	10·2	0	0	30	0	0	0	1	1	2	21	5	0	0
	2030	,,	1011·1	999·5	..	25·0	22·8	21·7	25·9	82	..	3·7	..	3·8	0	0	20	0	0	1	1	1	0	5	12	10	0
	2330	,,	1011·2	999·7	..	23·9	22·0	21·4	25·0	86	..	3·9	..	3·6	0	0	21	3	2	4	4	1	1	0	6	9	0
Mangalore	0830	22	1011·8	1009·3	—0·4	25·5	23·4	22·3	26·9	83	+8	3·1	—0·3	4·6	0	0	30	0	3	22	3	1	0	0	1	0	0
	1730	,,	1008·8	1006·3	..	28·4	25·4	24·0	30·0	78	..	4·1	..	5·0	0	0	30	1	0	0	0	0	8	6	8	0	7
Interior Mysore North																											
Bidar (R)	0830	664																									
(R)	1730	,,																									
Gulbarga	0830	458	1013·5	961·9	—0·8	22·5	17·5	13·7	16·3	60	—1	3·9	+1·8	(b) 5·5	0	0	(b) 19	2	8	9	0	0	0	0	0	10	0
	1730	,,	1008·6	958·2	..	28·3	20·0	14·9	17·4	47	..	3·8	..	9·8	0	1	28	6	8	14	0	0	0	0	1	1	0
Pijapur	0830	594	1013·5	946·8	—0·7	20·0	17·1	15·1	17·4	74	+12	3·5	+0·8	1·0	0	0	14	4	1	4	4	1	0	0	0	16	0
	1730	,,	1099·2	944·1	..	26·8	18·8	13·3	15·9	45	..	4·3	..	1·8	0	0	25	5	9	2	8	1	0	0	0	5	0
Raichor	0830	400	1013·0	967·9	—0·9	22·8	18·5	15·2	17·8	64	—1	4·0	+1·6	3·5	0	0	21	6	8	0	6	0	1	0	0	9	0
	1730	,,	1008·6	964·5	..	28·1	19·3	12·8	15·1	42	..	4·4	..	6·1	0	0	28	1	23	0	4	0	0	0	0	2	0
Belgaum	0830	753	1012·6	928·7	—1·3	18·7	16·7	15·4	17·6	83	+17	3·8	+1·0	2·0	0	0	10	0	0	10	0	0	0	0	0	20	0
	1730	,,	1007·9	926·2	..	25·7	18·2	12·7	15·5	49	..	4·0	..	4·7	0	0	26	1	4	18	1	2	0	0	0	4	0
Belgaum (Samra)	0530	747	1011·7	927·9	..	16·9	15·2	13·8	16·1	82	..	2·7	..	2·3	0	0	16	0	3	5	5	1	0	1	1	14	0
	0830	,,	1013·0	930·0	..	20·3	16·9	14·3	16·7	70	..	3·6	..	4·9	0	0	26	3	14	7	1	1	0	0	0	4	0
	1130	,,	1011·4	929·8	..	25·2	18·0	12·6	15·2	49	..	4·0	..	8·9	0	0	30	3	11	9	6	1	0	0	0	0	0
	1430	,,	1008·0	927·1	..	27·1	18·3	11·8	14·6	41	..	4·1	..	7·9	0	1	29	6	13	9	1	1	0	0	0	0	0
	1730	,,	1008·4	927·1	..	25·8	18·3	12·8	15·6	49	..	3·9	..	5·8	0	0	30	4	14	1	3	2	1	3	2	0	0
	2030	,,	1011·8	929·0	..	21·1	17·3	14·6	16·9	68	..	3·0	..	2·7	0	0	16	0	4	3	0	1	4	3	1	14	0
Gadag	0530	650	1011·6	938·5	..	18·4	16·3	14·5	16·9	80	..	2·7	..	1·3	0	0	10	2	3	2	1	1	0	1	0	20	0
	0830	,,	1013·0	940·5	—0·5	20·8	17·2	14·6	17·0	70	+5	3·1	+0·3	3·1	0	0	22	0	14	5	0	0	1	1	1	8	0
	1130	,,	1011·3	940·2	..	26·7	19·1	13·9	16·5	49	..	3·5	..	5·9	0	1	26	0	11	14	1	0	0	0	0	3	1
	1430	,,	1008·0	937·5	..	28·4	19·3	13·0	15·7	42	..	3·5	..	6·6	0	0	28	1	12	15	0	0	0	0	0	2	0
	1730	,,	1008·3	937·5	..	27·0	18·6	12·7	15·3	44	..	3·1	..	3·6	0	0	27	0	17	9	0	0	0	0	1	3	0
	2030	,,	1011·4	939·4	..	22·8	17·8	14·4	16·7	61	..	1·8	..	2·7	0	0	20	3	6	7	2	0	0	1	1	10	0
	2330	,,	1012·3	939·7	..	20·4	17·1	14·8	17·1	71	..	2·2	..	3·1	0	0	23	0	7	9	6	0	1	0	0	7	0
Interior Mysore South																											
Bellary	0830	449	1012·9	962·3	—0·8	22·2	18·8	16·2	19·0	71	+3	3·5	0	3·3	0	0	15	0	0	0	0	0	0	0	15	15	0
	1730	,,	1008·2	958·7	..	27·2	20·0	14·7	17·5	50	..	4·2	..	5·4	0	0	25	0	0	0	0	0	0	0	25	5	0
Chitradurga	0830	773	1012·3	931·1	—0·3	21·2	17·6	14·9	17·5	71	+1	4·1	+0·2	2·8	0	0	19	1	0	14	1	0	0	3	0	11	0
	1730	,,	1007·9	928·2	..	25·4	18·3	13·1	15·9	50	..	4·1	..	1·5	0	0	13	1	3	9	0	0	0	0	0	17	0
Shimoga	0830	571	1012·8	948·6	—0·6	20·0	18·1	17·0	19·4	84	+2	5·1	+0·9	3·1	0	0	30	5	10	6	3	3	1	1	1	0	0
	1730	,,	1007·7	945·1	..	26·7	22·2	19·8	23·5	67	..	3·8	..	3·6	0	0	22	4	8	5	2	0	0	1	2	8	0
Agumbe	0830	..	..	..	..	20·0	18·6	17·7	20·4	87	..	..	..	6·5	0	0	30	1	11	5	10	0	0	3	0	0	0
Balehonnur	0830	..	..	..	..	19·5	17·5	16·2	18·5	82	—3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1509·5	906·7	..	18·0	16·7	15·8	18·1	87	+11	4·1	+0·1	2·9	0	0	28	12	1	7	0	0	0	7	1	2	0
	1730	,,	1498·0	904·3	..	23·7	18·3	14·9	17·1	60	..	4·3	..	2·0	0	0	25	4	5	3	1	0	2	3	7	5	0
Bangalore	0230	921	1489·3	908·8	..	17·5	16·3	15·5	17·6	89	..	3·6	..	2·4	0	0	14	3	1	8	0	0	0	2	0	16	0
	0830	,,	1513·4	911·0	—0·7	19·6	17·3	15·6	18·1	80	+2	4·9	+0·4	4·7	0	0	21	2	6	6	0	0	1	1	5	9	0
	1130	,,	1517·2	910·6	..	22·9	18·1	14·9	17·3	64	..	4·8	..	5·7	0	0	24	5	9	5	0	0	0	0	5	6	0
	1430	,,	1497·7	908·3	..	24·4	18·7	14·7	17·4	58	..	4·5	..	5·3	0	1	23	5	9	5	0	0	0	1	4	6	0
	1730	,,	1496·2	908·5	..	22·7	18·2	15·1	17·6	65	..	5·0	..	4·5	0	0	20	7	5	3	2	0	1	0	2	10	0
	2030	,,	1508·8	910·4	..	19·6	17·3	15·7	18·1	80	..	3·8	..	3·5	0	1	17	6	5	4	0	0	1	0	2	12	0
	0530	897	1489·2	911·5	..	17·4	16·5	15·8	18·1	91	..	4·4	..	2·9	0	0	13	5	2	3	0	0	0	1	2	17	0
Bangalore Aerodrome	0830	,,	1512·4	913·6	..	19·3	17·5	16·2	18·5	83	..	5·2	..	5·3	0	0	21	6	4	3	0	1	0	2	5	9	0
	1130	,,	1515·0	913·0	..	22·8	17·9	14·5	16·9	63	..	4·7	..	7·4	0	0	24	6	5	6	0	0	0	2	5	6	0
	1730	,,	1495·0	910·9	..	22·9	18·3	15·1	17·6	65	..	4·9	..	6·0	0	0	24	7	4	6	2	0	0	1	4	6	0
	2330	,,	1505·8	912·9	..	18·9	17·1	15·9	18·2	84	..	4·0	..	2·4	0	0	12	1	5	3	1	0	0	1	1	18	0

(R) Register not received. (b) Mean for 29 days.

Sub-Division and station	Hour of observation I.S.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
INTERIOR MYSORE SOUTH—Contd.																											
Mysore	0830	767	1012.4	927.0	—0.9	20.4	17·8	16.2	18.5	78	+1	3.5	—1.1	7·1	0	1	29	2	7	3	1	4	2	5	6	0	0
	1730	,,	1008·3	924.9	..	25.0	19.6	16.2	18.9	61	..	3.4	..	8.1	0	0	30	6	6	6	5	1	4	1	1	0	0
Kerala	0530	5	1010·2	1009.6	..	23.2	22.4	22.0	26.4	93	..	2.7	..	4.5	0	1	12	0	1	11	0	0	0	0	1	17	0
Calicut	0830	,,	1011.8	1011.2	—0·5	25.0	23.0	22.0	26.4	83	+1	3.3	—0.9	5.7	0	0	21	3	1	14	0	0	1	0	2	9	0
	1130	,,	1011.8	1011·2	..	27.7	24.5	22.7	28.1	72	..	3.9	..	8.1	0	0	30	1	0	1	0	4	6	10	8	0	0
	1730	,,	1009.3	1008.7	..	27.7	24.3	22.6	27.6	75	..	4.0	..	10.2	0	1	29	1	2	1	0	1	5	12	8	0	0
	2330	,,	1011.6	1011·0	..	24.9	23.4	22.6	27.6	87	..	3·3	..	3.7	0	1	13	1	4	4	2	0	0	1	2	16	0
Palghat	0830	97	1012 0	1009·0	..	25.2	23.1	22.1	26.6	83	..	4.7	..	6.9	0	0	26	0	0	11	0	0	1	14	0	4	0
	1730	,,	1007.9	1000·9	..	27.8	23 7	21.6	25.9	70	..	3.6	..	7.1	0	0	23	0	0	0	0	0	3	19	1	7	0
Fort Cochin	0830	3	1012.0	1011.7	0	26.0	23.9	22.9	27.9	83	+4	6.1	+2.1	5.6	0	1	27	0	12	12	2	0	0	1	1	2	0
	1730	,,	1009.2	1008.9	..	27.0	24.3	22.9	28.3	79	..	6.2	..	8.9	0	1	26	1	1	0	0	0	2	12	11	3	2
Cochin (Naval Air Station)	0230	3	1010.0	1009.7	..	24.1	23.1	22.6	27.4	92	..	4.9	..	1·3	0	0	4	0	2	0	0	0	0	0	2	26	[illegible]
Ramgarh	0530	,,	1010.0	1009.7	..	23.6	22.8	22.4	27.1	93	..	4.5	..	1·2	0	1	1	0	0	1	0	0	0	0	1	28	0
	0830	,,	1012.1	1011.8	..	26.1	23.9	22.8	27.9	82	..	4.5	..	1.3	0	1	2	0	0	0	2	0	0	0	1	27	0
	1130	,,	1011.8	1011.5	..	28.7	24.1	21 9	26.3	67	..	4.9	..	6.1	0	1	15	0	0	0	1	1	4	2	6	14	2
	1730	,,	1009.2	1008.9	..	27.5	23.9	22.1	26.7	73	..	4.9	..	8·0	0	0	18	1	0	0	0	0	3	6	8	12	0
	2330	,,	1011.5	1011.3	..	24.9	23.6	22.9	27.9	89	..	4.9	..	1.2	0	0	3	1	0	0	0	0	0	0	2	27	0
Alleppey	0830	4	1011.9	1011.5	+0·2	25.4	24.3	23.7	29.5	91	+10	4.8	—0.4	6.6	0	1	25	0	6	7	9	0	1	1	2	4	0
	1730	,,	1009.0	1008.6	..	28.2	24.9	23 3	28.8	75	..	4.8	..	18.3	0	12	17	0	0	0	0	0	1	7	21	1	0
Punalur	0830	34	1012.0	1008.1	..	23.7	23.1	22.6	27.7	93	..	5.5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1009 2	1005 5	..	26.2	24.7	24.0	30.0	88	..	7.2	..	4.4	0	0	30	0	2	7	8	6	3	2	2	0	0
Trivandrum	0230	64	1009.8	1002.5	..	23.6	22.8	22.4	27.1	93	..	3.5	..	3.2	0	0	15	8	3	0	0	0	0	1	3	15	0
	0530	,,	1010.1	1002.7	..	23.1	22.5	22.1	26.7	94	..	3.4	..	5.1	0	1	21	10	5	0	2	0	0	0	5	8	0
	0830	,,	1012.1	1004.7	+0.2	25.3	23.5	22 6	27.4	85	0	4.3	—0.7	5.0	0	1	21	11	2	0	1	0	0	1	7	8	0
	1130	,,	1011.3	1004.1	..	28.2	24 2	22.3	26.9	71	..	5.3	..	8 2	0	1	25	3	0	0	1	0	2	6	14	4	0
	1430	,,	1008.7	1001.5	..	28.5	24.2	22.2	26.6	69	..	4.3	..	10.9	0	2	28	1	0	0	0	0	5	12	12	0	0
	1730	,,	1009.3	1002.0	..	27.0	24.0	22.6	27.4	78	.	5.0	..	9.5	0	1	29	1	1	0	0	0	1	12	15	0	0
	2030	,,	1011.5	1004.2	..	25.2	23.6	22.9	27.7	87	..	4.3	..	3.8	0	0	17	3	2	0	0	0	0	1	11	13	0
	2330	,,	1011.5	1004.2	..	24.3	23.2	22.6	27.6	90	..	4.6	..	5.8	0	1	26	18	4	1	1	0	0	0	3	3	0
Trivandrum*	0830	8	1012.3	1011.4	..	26.4	23.6	22.2	26.7	78	..	5.1	..	10.7	0	5	15	13	4	0	0	0	0	0	3	10	[illegible]
Amini*	0530	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Minicoy*	0530	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..
	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1430	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2030	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Hill Stations excluding Kashmir	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dalhousi	0830	1958	1462.7	801·6	—0·3	12·1	6·7	0.1	6·1	45	—8	0.4	—0.4	1.8	0	0	16	0	5	3	4	1	0	0	3	14	0
	1730	,	1458.4	800·9	..	10·2	8·5	7·1	10.1	82	..	0·6	..	1·3	0	0	12	1	4	4	3	0	0	0	0	18	0
Dharam Sala	0830	1121	1562.8	886·3	—0.4	14·9	8·8	1·8	7·0	42	—7	1·0	—0.3	0.6	0	0	9	3	0	0	0	0	0	0	6	21	0
	1730	,,	1559.6	885·8	..	17.7	10·8	3·7	8.0	39	..	1·4	..	2.5	0	0	30	0	0	0	0	0	23	6	1	0	0
Simla	0830	2202	1549.2	783·6	—0.4	10·7	3.2	—8 2	3.0	24	—10	0.6	—0.7	1.7	0	0	19	0	2	0	7	7	1	1	1	11	0
	1730	,,	1506.5	782·6	..	9.9	6 0	1·6	6·7	57	..	1.0	..	3.3	0	0	19	2	3	1	7	4	2	0	0	11	0
Kalpal	0830		..	..	..	—2.5	—6·0	—13·2	15·2	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data given as addenda in December 1964, issue

Sub-Division and Station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind Speed (Km. p.h.): 62 or more	Wind Speed (Km. p.h.): 20 to 61	Wind Speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	N W	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
HILL STATIONS, excluding Kashmir (*contd.*)																											
Joshimath	0830	..	..	..	..	7.8	3.3	−3.6	4.5	46	..	0.7	..	3.9	0	0	26	0	0	7	8	3	5	3	0	4	0
	1730	..	..	..	..	13.0	7.1	0.3	6.2	42	..	1.3	..	2.8	0	0	28	2	3	0	1	6	6	6	4	2	0
Mussoorie	0830	2042	..	..	..	11.4	5.9	−1.0	5.6	42	−5	0.5	−0.7	2.3	0	0	20	4	1	0	4	7	2	0	2	10	0
	1730	,,	..	..	..	11.0	7.8	4.9	8.7	66	..	0.8	..	3.5	0	0	28	4	4	0	9	10	1	0	0	2	0
Mukteswar	0830	2311	3144.1	774.6	−0.4	9.9	3.9	−5.7	3.8	37	−7	0.7	−0.6	7.4	0	0	28	0	4	9	1	2	4	6	2	2	0
	1730	,,	3129.3	773.7	..	9.2	5.6	1.1	6.6	55	..	1.0	..	7.7	0	0	25	0	2	1	1	0	6	14	1	5	0
Nainital	0830	1953	1516.4	807.0	−0.5	11.0	5.9	−0.4	5.9	47	−6	0.9	+0.2	3.5	0	2	12	0	0	6	4	0	0	2	2	16	0
	1730	,,	1493.1	804.7	..	9.7	6.0	1.7	6.9	59	..	1.4	..	6.0	0	0	30	0	0	0	0	1	1	28	0	0	0
Kalimpong	0830	1209	..	..	..	21.8	20.3	19.5	22.7	86	+12	2.0	−2	3.8	0	0	30	1	0	0	10	0	0	0	19	0	0
	1730	,,	..	..	..	23.4	21.6	20.7	24.4	85	..	2.2	..	3.3	0	0	30	0	0	0	24	0	0	0	6	0	0
Darjeeling	0830	2128	1555.2	794.5	+3.1	11.7	9.0	6.6	9.7	71	+10	3.2	+0.3	0.9	0	0	7	4	1	0	0	0	1	0	1	23	0
	1730	,,	1528.4	791.8	..	11.0	9.3	7.9	10.7	80	..	4.2	..	0.2	0	0	2	0	0	0	0	0	2	0	0	28	0
Kohima	0830	1406	1544.1	864.1	..	16.5	15.3	14.5	16.5	91	..	2.5 (b)	..	2.0 (b)	0	0	25	0	0	0	7	0	2	1	15	5	0
	1730	,,	1473.3	856.9	..	17.1	16.2	15.7	17.8	93	..	4.0	..	2.0	0	0	29	0	0	0	0	0	2	9	18	0	0
Shillong (R)	0830	1500	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cherrapunjee (R)	0830	1313	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Abu	0830	1195	1505.0	882.3	−2.6	14.8	9.6	3.9	8.1	48	+3	0.3	−0.7	0.3	0	0	3	2	0	0	0	0	0	0	1	27	0
	1730	,,	1521.0	882.7	..	20.3	11.1	0.2	6.2	27	..	2.5	..	0.4	0	0	6	2	0	0	0	0	1	0	3	24	0
Aijal	0830	..	..	..	..	19.9	17.0	15.0	17.0	76	..	2.7	..	1.8	0	0	29	3	0	19	0	2	1	4	0	1	0
	1730	..	..	..	..	20.2	18.0	16.6	18.9	79	..	3.0	..	1.9	0	0	30	6	0	3	0	1	2	18	0	0	0
Pachmarhi	0830	1075	1535.5	897.2	−0.4	17.8	11.6	5.1	9.1	45	−12	1.4	−0.1	2.8	0	0	28	0	8	14	2	2	0	0	2	2	0
	1730	,,	1517.4	895.0	..	19.8	12.6	5.7	9.3	41	..	1.8	..	1.6	0	0	23	3	13	5	0	0	0	0	2	7	0
Mahabaleshwar	0830	1382	1521.0	864.4	−0.3	17.2	13.1	9.2	12.1	62	−4	1.6	−0.6	10.1	0	0	30	0	12	1	17	0	0	0	0	0	0
	1730	,,	1503.0	862.3	..	20.5	16.0	12.5	14.9	62	..	2.6	..	9.6	0	0	30	1	17	0	4	0	0	0	8	0	0
Mercara	0830	1152	1512.0	886.7	−0.1	18.3	15.4	12.7	15.4	74	−9	3.4	−1.4	8.7	0	0	29	5	9	12	1	0	0	2	0	1	0
	1730	,,	1493.6	884.5	..	21.0	17.9	16.0	18.3	75	..	4.0	..	3.8	0	0	29	2	5	3	1	0	1	3	10	1	4
Ootacamand	0830	2249	1515.1	780.0	+0.1	12.0	10.5	8.8	11.7	80	+4	3.2	−1.4	1.1	0	0	10	0	5	4	0	0	0	1	0	20	0
	1730	,,	1493.8	778.7	..	14.1	12.6	11.5	13.6	84	..	4.5	..	1.1	0	0	11	3	3	5	0	0	0	0	0	19	0
Coonor (R)	0830	1747	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kodaikanal	0830	2343	3148.3	771.4	−0.1	12.8	10.5	7.6	11.2	79	0	5.0	+0.1	8.0	0	1	21	8	3	1	1	1	0	0	8	8	0
	1130	,,	3154.0	771.2	..	15.4	12.2	9.1	12.2	72	..	5.8	..	8.0	0	2	25	10	4	1	1	2	0	0	9	3	0
	1730	,,	3131.5	769.8	..	12.8	11.7	10.8	13.0	89	..	5.9	..	6.4	0	1	20	9	1	0	1	1	0	0	9	9	0
Nepal Katmandu	0830	1324	1530.0	871.3	..	11.5	10.4	9.6	12.1	89	..	2.5	..	0.3	0	0	2	0	1	0	0	0	0	0	1	28	0
	1130	,,	1522.8	870.0	..	20.3	14.3	9.5	12.1	50	..	2.3	..	1.0	0	0	9	1	3	1	0	2	0	0	2	21	0
	1730	,,	1504.5	868.3	..	16.1	13.0	10.5	12.9	70	..	2.1	..	0.4	0	0	2	0	1	1	0	0	0	0	0	28	0
Sikkim Lachen	0830	..	..	..	..	9.4	5.3	0.5	6.3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
HYDROMETEOROLOGICAL OBSERVATORIES—Damodar Catchment																											
Tilaiya	0830	..	..	..	..	22.0	15.8	10.7	12.9	50	..	1.0	..	5.7	0	0	28	6	0	2	0	0	1	14	5	2	0
	1730	..	..	..	..	21.5	16.3	12.3	14.3	57	..	0.5	..	2.4	0	0	21	5	0	2	0	0	1	8	5	9	0
Hazaribagh	0830	615	1014.4	945.1	..	19.4	15.1	12.1	14.1	63	..	0.9	..	2.6	0	0	18	4	0	2	0	0	2	1	9	12	0
	1730	,,	1011.7	942.4	..	18.7	15.6	13.5	15.5	72	..	1.4	..	0.6	0	0	6	1	0	0	0	0	0	2	3	24	0
Konar	0830	..	..	..	..	21.3	16.3	12.3	14.3	57	..	1.6	..	3.9	0	0	26	2	3	0	0	0	0	13	8	4	0
	1730	..	..	..	..	24.5	18.3	13.9	15.9	52	..	0.2	..	5.0	0	0	30	1	2	2	0	0	0	25	0	0	0
Bokaro	0830	242	1014.1	986.1	..	18.6	15.2	12.4	14.4	68	..	1.7	..	2.3	0	0	21	1	0	0	0	0	5	7	8	9	0
	1730	,,	1011.5	984.0	..	22.3	17.7	14.5	16.5	61	..	2.0	..	2.6	0	0	20	8	2	0	0	0	1	4	5	10	0
Maithon	0830	..	..	..	..	24.1	18.1	13.6	15.6	53	..	1.8	..	3.4	0	0	30	2	5	0	0	2	4	7	10	0	0
	1730	..	..	..	..	26.2	19.4	14.9	16.9	52	..	1.9	..	3.8	0	0	30	1	4	0	1	0	3	6	15	0	0
Ramgarh	0830	..	..	..	..	18.8	17.2	16.1	18.2	84	..	1.2	..	1.2	0	0	12	0	2	3	2	0	3	1	1	18	0
	1730	..	..	..	..	21.5	21.0	20.7	24.4	95	..	1.6	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Panchet Hills	0830	..	..	..	..	21.2	17.4	14.8	16.8	67	..	1.2	..	5.1	0	0	19	0	0	0	0	0	7	0	12	11	0
	1730	..	..	..	.	24.1	18.6	14.8	16.8	57	..	2.0	..	1.2	0	0	6	0	2	0	0	0	1	0	3	24	0
Durgapur	0830	..	..	..		21.7	18.2	15.9	18.1	69	..	1.5	..	10.9	0	1	29	3	3	0	0	0	0	1	23	0	0
	1730	..	..	..	.	25.5	19.9	16.3	18.5	58	..	1.4	..	6.3	0	0	26	7	4	2	1	0	1	1	10	0	0

(b) Mean of 29 days.

Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Mahanadi Catchment																											
Girabahar	0830	..	..	..	..	19·3	15·5	12·6	14·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakund	0830	159	1014·5	996·3	..	23·4	19·0	16·2	18·4	63	..	1·8	..	3·3	0	0	27	12	4	5	1	0	1	0	4	3	0
	1130		1013·1	995·2	..	27·0	20·1	15·8	17·9	49	..	1·6	..	3·2	0	0	29	7	5	7	0	0	1	1	8	1	0
	1730	"	1010·9	992·9	..	25·6	19·4	15·4	17·5	53	..	2·1	..	1·2	0	0	15	1	5	0	3	0	1	2	3	15	0
Bhimkunda	0830	..	..	..	..	19·1	16·8	15·2	17·3	77	..	2·0	..	2·6	0	0	23	3	0	0	0	0	0	0	20	7	0
	1730	..	..	..	..	24·2	18·9	15·4	17·5	57	..	2·5	..	0·1	0	0	2	0	0	0	0	0	0	0	2	28	0
Sonepur	0830	..	..	..	..	22·3	20·2	19·0	22·0	80	..	..	..	3·8	0	0	27	6	0	7	4	5	2	3	0	3	0
Khujrawan	0830	..	..	..	..	20·2	17·5	16·0	17·8	78	..	0·7	..	1·8	0	0	23	1	0	2	6	2	8	0	4	7	0
	1730	..	..	..	..	24·8	20·0	16·5	19·5	62	..	0·2	..	2·3	0	0	27	2	12	0	1	0	5	2	5	3	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	17·7	13·3	9·1	11·7	57	..	1·0	..	5·7	0	0	27	1	4	7	1	1	7	6	0	3	0
	1730	..	..	..	..	25·8	16·9	16·1	12·0	41	..	1·7	..	1·9	0	0	14	0	0	6	4	2	1	1	0	16	0
Punasa (R)	0830																										
(R)	1730																										
Thikri	0830	..	..	..	..	21·5	14·1	7·0	10·1	40	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	18·2	13·3	8·4	11·3	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·8	18·9	11·3	13·7	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	7·4	(c) 3·6	(c) —1·0	(c) 5·7	(c) 55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·4	5·5	2·6	7·5	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	17·7	13·8	11·2	13·6	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·2	16·6	13·9	16·1	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timme	0830	..	..	..	..	7·7	5·6	3·2	7·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·8	10·2	7·0	10·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	17·2	14·0	11·5	13·8	70	..	1·8	..	1·1	0	0	11	1	0	0	4	2	3	0	1	19	0
	1130	..	..	..	..	21·9	16·0	11·7	14·1	53	..	2·3	..	4·6	0	0	28	0	0	2	19	6	1	0	0	2	0
	1730	..	..	..	..	18·8	15·2	12·6	14·8	68	..	3·1	..	0·4	0	0	3	1	0	0	1	0	0	0	1	27	0
Gorkha	0830	..	..	..	..	17·5	14·2	11·7	14·0	69	..	1·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	20·4	15·8	12·5	14·7	61	..	0·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·5	13·5	10·2	12·7	63	..	0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	17·5	14·8	12·9	15·1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·8	14·7	10·9	13·2	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh	0830	..	..	..	..	17·2	13·9	11·4	13·7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·3	15·4	13·4	15·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																											
Dadeldhure	0830	..	..	..	..	11·8	7·3	2·6	7·5	54	..	0·8	..	2·7	0	0	24	0	0	8	12	3	0	0	1	6	0
	1130	..	..	..	..	14·1	8·5	2·7	7·6	47	..	1·0	..	3·6	0	0	29	9	2	7	3	0	0	0	8	1	0
	1730	..	..	..	..	11·6	7·7	3·8	8·1	59	..	0·8	..	1·4	0	0	18	2	0	0	1	0	4	3	8	12	0
Sallyana (R)	0830																										
(R)	1730																										
Butwal	0830	..	..	..	..	21·6	16·8	13·2	15·4	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	18·7	16·2	18·6	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu*																											
Kosi Catchment																											
Chautwra	0830	..	..	..	..	14·1	11·5	9·3	12·0	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·0	12·4	8·7	11·7	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Kosi Catchment—contd.																											
Chepua	0830	..	..	..	..	10·9	7·8	5·5	9·3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·3	9·3	7·9	10·8	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchang Gole	0830	..	..	..	..	5·5	2·2	—2·3	5·2	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	4·0	3·1	2·1	7·2	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taple thok	0830	..	..	..	..	15·2	11·8	8·7	11·5	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·9	12·1	8·7	11·4	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	17·2	13·0	9·8	12·2	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	.	..	..	13·7	11·4	9·5	12·1	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tapiejung	0830	..	.	.	..	13·0	10·4	8·3	11·2	74	..	3·0	..	0·3	0	0	3	1	1	0	0	0	0	1	0	27	0
	1130	..	..	..	..	16·5	12·3	9·1	11·8	62	..	3·9	..	3·8	0	0	23	2	0	1	0	1	4	7	8	7	0
	1730	..	..	..	..	13·8	10·6	8·1	10·9	68	..	3·5	..	6·4	0	0	23	1	0	0	0	21	0	1	0	7	0
Oshaidhunga	0830	..	..	..	..	13·9	10·9	8·5	11·3	71	..	1·4	..	0·3	0	0	3	0	0	0	0	3	0	0	0	27	0
	1130	..	..	..	..	16·8	12·2	8·6	11·4	61	..	2·2	..	1·5	0	0	14	0	0	0	0	2	4	7	1	16	0
	1730	..	..	..	..	12·7	10·7	9·2	11·7	79	..	3·0	..	3·1	0	0	20	1	0	0	0	0	0	14	5	10	0
Chainpur	0830	..	..	..	..	16·5	14·1	12·3	14·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·9	14·7	13·1	15·2	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	18·4	15·3	13·0	15·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	18·3	16·5	19·6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1015·6	998·6	..	19·1	16·3	14·2	16·6	74	..	0·7	..	5·8	0	1	23	0	4	4	5	5	6	0	0	6	0
	1130	,,	1013·3	996·6	..	25·4	20·0	16·5	19·1	58	..	1·3	..	3·8	0	0	22	0	1	1	0	1	14	3	2	8	0
	1730	,,	1011·4	994·8	..	20·6	18·3	16·9	19·4	80	..	1·1	..	3·4	0	0	26	0	1	19	5	1	0	0	0	4	0
Tista Catchment																											
Gangtok	0830	1812	1528·8	822·2	..	12·2	9·9	8·0	10·9	76	..	3·4	..	1·0	0	0	8	2	6	0	0	0	0	0	0	22	0
	1130	,,	1512·2	822·1	..	17·1	12·7	9·3	11·9	61	..	3·4	..	3·5	0	0	27	1	0	0	2	9	12	3	0	3	0
	1730	,,	1501·8	819·6	..	13·1	10·8	8·9	11·6	76	..	4·9	..	2·1	0	0	16	0	1	0	8	3	4	0	0	14	0
Gezing	0830	..	..	..	..	15·6	12·4	9·9	12·5	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·7	12·1	10·0	12·5	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MONTHLY MEANS OF UPPER WINDS

November, 1964 (*Kartika* 10—*Agrahayana* 9, 1886 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observation were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9.0 km. a.m.s.l. are given under Table IV and data above 9.0 km. a.m.s.l. under Table V.

In Tables IV and V :

n—represents the number of observations;

V—represents the mean wind speed in metres per second irrespective of direction;

v—represents the resultant mean velocity in metres per second;

D—represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0.15 km. a.g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, and 36.0 km. a.m.s.l. Of these, the levels 1.5, 3.0, 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18.0, 21.0, 24.0, 27.0 and 30.0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1.	Agartala	23°53′	91°15′	17	28th November, 1951	0530		1730	2330
2.	Ahmadabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3.	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
4.	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1130	1730	2330
5.	Anantapur	14°41′	77°37′	365	12th February, 1946	0530		1730	2330
6.	Asansol	23°41′	86°59′	135	29th May, 1942	0530		1730	2330
7.	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October, 1951	0530		1730	2330
8.	Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1130	1730	
9.	Bangalore	12°58′	77°35′	936	19th May, 1915	0530@	1130	1730@	2330
10.	Bareilly	28°22′	79°24′	181	12th January, 1943	0530		1730	
11.	Begampet	17°27′	78°28′	543	1st September, 1929	0530		1730	2330
12.	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530		1730	
13.	Bhopal/Bairagarh	23°17′	77°21′	532	26th February, 1943	0530		1730	2330
14.	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530		1730	2330
15.	Bhuj/Rudramata	23°15′	69°48′	90	14th September, 1937	0530		1730	2330
16.	Bikaner	28°00′	73°18′	229	18th October, 1946	0530		1730	2330
17.	Bombay/Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
18.	Calcutta/Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
19.	Cochin/Willingdon†	09°56′	76°14′	13	16th March, 1942	0530		1730	2330
20.	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530		1730	
21.	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
22.	Gadag	15°25′	75°38′	650	3rd May, 1943	0530		1730	2330
23.	Gangtok	27°03′	88°16′	2115	1st June, 1963	0830		1730	
24.	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
25.	Gaya	24°45′	84°57′	119	19th March, 1937	0530		1730	2330
26.	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530		1730	2330
27.	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530		1730	
28.	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1130	1730	2330
29.	Imphal/Tulihal	24°46′	93°54′	782	8th March, 1952	0530	1130	1730	2330
30.	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530		1730	2330
31.	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530		1730	2330
32.	Jaipur/Sanganer	26°49′	75°48′	403	6th June, 1953	0530		1730	2330
33.	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530		1730	
34.	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530		1730	2330
35.	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
36.	Lucknow/Amausi	26°45′	80°53′	133	20th November, 1950	0530		1730	2330
37.	Madras/Minambakkam	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38.	Mangalore/Bajpe	12°55′	74°53′	104	25th May, 1959	0530		1730	2330
39.	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1130	1730*	2330
40.	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41.	New Delhi/Safdarjung	28°35′	77°12′	227	28th October, 1936	0530*		1730*	2330
42.	Poona	18°32′	73°51′	593	5th January, 1925	0530		1730	2330
43.	Port Blair	11°40′	92°43′	95	29th October, 1945	0530*	1130	1730*	2330
44.	Raipur	21°14′	81°39′	308	15th July, 1944	0530		1730	2330
45.	Raxaul	26°59′	84°51′	83	28th October, 1957	0530		1730	
46.	Siliguri/Baghdogra	26°38′	88°19′	140	7th June, 1953	0530		1730	2330
47.	Srinagar	34°06′	74°48′	1588	1st August, 1962	0530*		1730*	
48.	Tiruchchirappalli	10°46′	78°43′	96	22nd June, 1936	0530		1730	2330
49.	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June, 1947	0530		1730	2330
51.	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530		1730	2330
52.	Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53.	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April, 1942	0530		1730	2330
54.	Vishakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

* Radio wind ascents.

@ Radiosonde ascents followed by optical theodolite.

† Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·4	0·1	061	30	0·5	0·2	283	30	0·4	0·2	107	30	1·5	1·4	066	30	3·1	2·7	091	30	1·3	0·8	051
0·15 a. g. .	29	3·4	2·2	025	30	2·5	1·1	330	30	3·0	1·4	321	30	7·2	6·2	062	30	3.5	3·0	092	30	3·3	1·5	025
0·3 a. m. s. l. .	29	3·4	2·7	022	30	2·3	1·0	332	29	2·7	1·7	327	30	7·2	5·8	062	30	3·9	3.3	095	30	3.4	1.4	026
0·6 ,, .	29	3·3	2·1	020	30	2·2	0·4	300	29	2·6	1·6	327	30	6·2	4·3	064	30	4·3	3·3	093	30	3·1	1·7	032
0·9 ,, .	29	3·5	1·1	013	30	2·7	1·0	274	29	2.5	0·9	290	30	4·7	2·3	064	30	3·4	2·2	085	30	3·1	2·0	034
1·5 ,, .	29	4·1	1·1	246	30	3·5	2·1	247	28	4·0	2·2	245	30	3·1	0·0	090	30	3·1	0·7	347	30	3·3	1·8	028
2·1 ,, .	28	5·5	3·7	234	30	5·1	3·6	248	28	5·4	3·5	235	30	4·2	1·9	273	30	4·0	1·7	301	30	4·2	2·2	340
3·0 ,, .	28	7·4	6·4	254	29	7·7	6·6	262	25	7·2	5·6	258	30	6·3	4·0	284	30	5·6	3·2	284	30	5·6	3·8	296
3·6 ,, .	27	9·6	8·1	266	25	9·4	8·2	274	3	11·5	11·0	274	30	7·3	5·2	290	30	6·8	5·0	280	30	7·9	5·9	289
4·5 ,, .	25	12·2	11·6	270	23	12.0	11.2	278					30	8.2	6.4	280	30	8·2	7·0	273	30	8·9	7·3	284
5·4 ,, .	22	13.7	13.0	275	20	12.1	11.4	279					30	11.3	9.4	278	30	10·1	9·2	273	30	11·5	10·1	275
6·0 ,, .	20	13·6	12.6	275	20	13.9	13.1	276					30	13.4	12.0	279	30	11·5	10·6	273	30	13.1	11.5	271
7·2 ,, .	6	16.6	15.6	272	9	18.0	16.7	274					29	16.3	15.3	275	21	14·1	12·9	269	30	14.3	13.0	277
9·0 ,, .	2	14.5	12.6	253	3	13.0	12.4	256					28	21.3	19.6	266	12	19.7	17.8	273	29	18.6	16.9	273

Station	AHMEDABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·7	0·4	019	30	C	A	L	M	30	0·5	0·3	298	30	0·5	0·5	308	30	0·1	0·2	045	30	0·2	0·2	315
0·15 a. g. .	30	5·9	3·8	035	30	3·8	2·9	293	30	1·0	0·9	317	30	3·7	3·2	323	30	3·1	1·9	329	30	4·7	3·8	331
0·3 a. m. s. l. .	30	5·6	3.8	038	30	3·9	2·9	293	30	1·9	0·9	323	30	3.7	3·2	323	30	3.0	1·9	330	30	1.7	1.3	338
0·6 ,, .	30	4.7	3·1	040	30	3·5	2·4	312	30	2·5	1·3	322	30	3.7	3·3	330	30	3·1	2·1	325	30	4.5	4·1	323
0·9 ,, .	30	4·0	3·0	047	30	3·5	2·3	330	30	2·9	1·3	344	30	3·5	2·8	326	30	4·0	2·5	320	30	4·7	4·1	318
1·5 ,, .	30	4·0	1·9	069	30	4·7	2·9	322	30	4·1	2·1	330	30	4·0	2·7	302	30	4·8	3·1	318	30	5·0	3·7	308
2·1 ,, .	30	4·1	0·6	008	30	5·1	3·5	310	30	4·5	3·1	318	30	5·1	3·9	308	28	5·4	4·4	302	30	4·5	3·3	322
3·0 ,, .	30	5·1	2·6	289	30	6·6	5·7	300	30	6·3	5·4	297	30	6·9	6·2	292	25	6·8	6·1	303	30	5·1	3·7	304
3·6 ,, .	17	5·9	4·1	290	30	8·2	6·9	288	30	7.9	6.7	289	30	8·8	7·9	288	1	3·0	3·0	260	8	4·7	3.5	287
4·5 ,, .	7	9.3	8.4	270	30	11·1	9·9	276	29	10.6	9.8	282	30	11·8	11·1	281					1	8.5	8.5	245
5.4 ,, .	2	14.3	14.1	257	30	15.4	14.1	275	29	14.2	13.4	278	30	15·8	15·1	280					1	21.0	21.0	240
6·0 ,, .	2	17.7	17.7	256	30	17.7	16.7	273	26	15.9	15.2	276	30	18·2	17·4	277					1	14.0	14.0	250
7·2 ,, .					30	20.2	18.3	267	26	18.6	17.6	270	30	21.6	20·9	273								
9.0 ,, .					30	25.6	24.3	264	21	24.5	18.3	271	30	27·6	25.6	267								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I.S.T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·3	307	30	1·2	1·1	302	30	0·5	0·5	319	30	0·7	0·4	023	30	2·7	1.8	050	30	1·9	1·1	080
0·15 a. g.	30	2.4	1·4	308	30	4.4	3·9	298	30	6·5	6·2	328	29	3·9	3·1	062	29	5·1	4·2	047	29	5·4	4·3	070
0·3 a. m. s. l.	30	1.2	0.4	310	30	2.1	1.9	297	30	2·3	2·0	340												
0·6 ,,	30	2·8	1·9	313	30	4·7	4·3	300	30	5·5	5·3	328	29	4·5	3·5	068	29	4·5	3·5	045	29	6·1	4·9	069
0·9 ,,	30	3·9	2·5	313	30	4·5	4·1	306	30	4·3	4·0	326	29	5·7	4·6	065	29	4·9	3·9	050	29	6·3	5·4	065
1·5 ,,	30	4·5	2·2	308	30	4.7	3·5	319	30	3·9	2·6	310	28	6·6	5·4	051	28	5·4	4.3	038	29	5·7	4·6	050
2·1 ,,	30	4·6	2·6	310	30	4·6	2.8	320	30	3·9	2.1	300	25	6·3	5·2	035	25	5·8	4·4	030	26	6·4	5·3	038
3·0 ,,	30	4·1	2·6	290	30	4·4	3·1	308	29	4·0	2.2	284	23	6·2	4·7	039	21	6·1	4·5	037	24	6·4	5·2	047
3·6 ,,	30	5 5	4·1	273	30	5·5	3·9	290	3	5·0	4·5	350	22	6.1	4.6	061	18	5·9	4·0	046	18	5·9	4·6	045
4·5 ,,	29	9·2	8·0	275	30	8·9	7·3	284					20	6.4	5.0	071	14	5·3	3·6	055	5	9·1	8·2	075
5·4 ,,	29	13·5	11·9	272	29	12·1	10·3	279					20	5.7	4.3	053	13	5·2	3·7	042	3	8·7	5·9	085
6·0 ,,	29	16·7	15·1	271	29	15·1	13·7	278					20	6.0	4.4	044	13	6·5	4·9	029	2	7·3	2·9	076
7·2 ,,	17	26·4	24·2	269	11	26.2	25.2	269					19	6·7	3·1	033	12	6.4	3.1	011	1	8·0	8·0	315
9·0 ,,	3	32·5	31·9	272									15	7·8	2·1	268	4	6.9	4.3	343				

Station	ASANSOL												AURANGABAD/ CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·8	311	30	1·0	0·8	347	30	0·9	0·9	314	30	C	A	L	M	30	2·5	2·1	049	30	0·6	0·3	114
0·15 a. g.	30	5·9	5·6	343	30	3·7	2·7	346	30	5·2	4·6	349	30	5·6	4·9	078	30	4·4	3·7	049	30	6·0	4·7	070
0·3 a. m s. l.	30	6·0	5·6	349	30	3·8	2.7	347	30	5·1	4·5	352												
0·6 ,,	30	5·6	5·2	360	30	4·1	3·4	351	30	4·5	4·3	347					30	4·2	3·8	048	30	7·1	6·7	064
0·9 ,,	29	4·2	3·8	360	30	4·1	3·5	346	30	4·6	3·6	342	30	6.8	6·1	085	30	4·3	3·8	046	30	6·7	5·9	066
1·5 ,,	29	4·5	2·7	334	30	4·4	3·9	337	30	4·4	3·0	318	30	6·1	4·8	075	27	4·3	3·5	037	26	5·7	4·1	054
2·1 ,,	27	4·5	2·9	297	30	5·3	4·1	304	30	5·4	3·6	305	30	5·7	3·1	035	22	5·8	4·0	020	22	5·4	2·5	009
3·0 ,,	24	7·1	6·1	276	28	7·8	6·7	288	30	7·9	6·0	279	27	6.0	3.7	018	20	7·5	3·4	360	14	6·4	3.5	322
3·6 ,,	12	8·2	6·7	281	27	11·0	9·8	291	17	8·2	7·0	281	5	5.8	3·6	028	19	7·8	3·2	307				
4·5 ,,	4	11·7	10·4	281	23	12.0	11.1	289	9	9·7	8·8	274					17	5·8	4·2	287				
5·4 ,,	3	16·2	15·4	260	22	13.5	12.7	289	5	14·1	13·4	290					16	9·0	5·0	289				
6·0 ,,	1	11·5	11·5	285	21	14.1	12.2	285	1	18·0	18·0	280					2	7·5	7·5	289				
7·2 ,,	1	5·0	5·0	235	10	13.1	12·5	268																
9·0 ,,	1	14·5	14·5	260	5	14.0	14·6	258																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·5	0·4	301	30	0·4	0·3	278	30	0·5	0·4	270	30	1·7	1·0	012	30	1·9	1·2	014	30	2·1	1·2	023
0·15 a. g.	30	3·4	2·8	316	30	1·9	1·7	278	30	3·4	3·1	289	18	6·1	4·9	003	27	4·0	2·9	036	27	4·8	3·6	031
0·3 a. m. s. l.	30	3·4	2·9	309	30	2·3	1·6	282	30	3·4	3.2	287												
0·6 ,,	30	3·7	2·7	313	30	2·7	1·6	294	30	3·5	3·3	295												
0·9 ,,	30	4·0	2·6	318	30	3·5	1·8	297	30	3·6	3·3	299												
1·5 ,,	30	5·1	1·2	327	30	4·8	0·5	338	30	4·6	2·2	306	18	6·4	5·3	004	27	4·1	2·7	036	27	4·5	3·3	023
2·1 ,,	30	5·6	0·8	300	30	5·7	0·6	293	30	5·5	2·4	313	18	6·9	4·6	015	20	5·3	3·4	026	27	5·0	3·7	027
3·0 ,,	30	6·8	2·3	344	30	5·6	2·8	297	30	5·9	3·7	298	16	6·5	5·3	016	16	6·3	4·6	044	22	6·1	4·1	041
3·6 ,,	30	8·2	6·6	293	30	6·9	5·8	295	30	7·1	6·2	300	15	5·3	4·1	047	15	5·9	5.1	038	21	6·9	4·5	042
4·5 ,,	28	9·7	8.3	288	30	10·1	9·0	281	30	9·8	9·2	293	15	5·8	4·8	052	14	6·5	5·6	055	20	7·1	5·5	052
5·4 ,,	26	12·3	11.4	385	30	13·9	13·0	283	30	13·7	13·1	286	15	6·2	5·1	035	11	5·8	5·1	065	19	7·3	5·8	040
6·0 ,,	23	15·8	15·2	286	30	16·2	15·3	282	30	16·0	15·0	272	15	6·0	4·2	039	11	5·8	4.9	050	14	6·8	5·1	050
7·2 ,,	12	19·5	18·0	276	27	21·8	20·8	273	29	22·0	21·1	275	15	6·8	3·6	014	10	5·1	2·5	062	14	7·2	2·7	058
9·0 ,,	3	32·0	31·4	270	18	28·0	26·1	269	9	28·0	27·0	270	14	7·2	3·5	272	8	5·6	1·6	168	14	6·7	2·1	252

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	1·6	050	30	0·5	0·3	332	30	0·6	0·5	289	30	1·3	0·9	029	30	2·7	2·1	036	30	1·7	1·3	036
0.15 a. g.	28	6·2	4·6	046	29	4·0	2·8	330	30	3·1	2·5	297	30	5·6	4·5	053	30	5·5	4·6	046	29	6·3	5·2	052
0·3 a. m. s. l.					29	3·8	3·0	331	30	3·1	2·5	297												
0·6 ,,					30	4·7	3·7	318	30	3·8	3·3	296	30	4·2	3·3	051	30	5·1	4·2	045	29	4·6	3·8	049
0·9 ,,					30	4·7	3·7	310	29	4·1	3·3	297	30	6·9	5·9	059	30	5·3	4·5	048	29	6·8	5.9	057
1·5 ,,	28	6·6	4·9	035	30	6·2	3·7	321	29	4·9	3·3	298	28	7·0	6·0	047	30	5·8	4·9	050	28	5·9	4·8	053
2·1 ,,	26	5·3	4·0	018	30	6·0	3·1	303	30	5·1	3·6	300	28	6·6	5·1	040	28	5·9	4·6	038	27	6·3	4·9	042
3·0 ,,	24	6·0	4·2	030	30	6·2	4·9	305	30	5·4	4·3	295	25	6·4	4·0	040	27	6·1	3·3	030	27	5·6	2·5	029
3·6 ,,	21	6·8	5·0	048	28	6·7	6·3	293	29	6·8	5·9	296	23	6·1	2·9	040	26	6·1	3·0	036	10	4·6	2·4	043
4·5 ,,	15	7·5	6·3	077	25	9·1	8·2	284	29	10·6	9·4	287	19	6·5	3·7	020	19	6·2	2·8	028				
5·4 ,,	11	6.4	4.9	074	21	11·9	9·0	275	26	13·4	11·6	284	18	6.3	3·3	016	17	5·9	2·6	360				
6·0 ,,	6	6.2	4.8	070	20	14·7	14·1	270	23	16·5	15·1	282	17	6·8	3·9	007	17	6·5	2·4	337				
7·2 ,,	4	6·6	5·2	102	7	21·1	19·9	270	11	20·9	20·1	282	13	7·5	5·8	317	13	7·4	5·1	322				
9·0 ,,	4	1.0	1.6	255					1	20·0	20·0	280	11	8·9	7·7	273	7	7·8	5·7	263				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·3	1·0	268	30	1·2	1·0	287	30	1·5	1·1	065	30	1·6	1·3	033	30	1·5	1·3	047	30	2·7	2·2	015
0·15 a. g.	30	3·7	2·9	300	30	2·9	2·2	293	30	5·6	4·7	080	30	4·1	3·4	028	30	7·5	6·4	068	30	5·7	5·5	029
0·3 a. m. s. l.	30	4·2	3·4	324	30	3·1	2·5	296													30	6·4	6·0	047
0·6 ,,	30	3·8	2·9	341	30	3·2	2·5	310	30	4·8	3·9	078	30	3·7	2·9	027	30	6·7	5·6	068	30	6·5	6·1	049
0·9 ,,	30	3·5	2·5	352	30	3·5	2·3	325	30	5·9	4·3	063	30	4·3	3·7	030	30	6·5	5·4	069	30	5·8	5·2	050
1·5 ,,	28	4·3	2·1	027	30	3·7	1·7	349	30	5·1	3·5	008	30	4·1	3·4	023	30	4·5	2·7	034	30	4·5	2·7	060
2·1 ,,	27	5·4	1·2	359	28	5·2	3·0	318	30	6·2	4·5	339	30	5·3	4·1	360	30	5·2	2·7	346	28	4·4	0·4	360
3·0 ,,	24	7·0	5·0	294	26	8·0	6·9	301	30	6·3	4·5	308	30	6·1	4·0	318	30	6·1	4·4	312	25	8·3	2·4	313
3·6 ,,	22	9·0	7·9	292	24	10·5	9·9	294	28	6·8	5·6	300	30	7·5	5·7	297	21	7·7	5·3	305	25	6·7	4·1	308
4·5 ,,	19	11·4	10·4	282	15	12·1	10·9	291	26	8·1	6·6	291	30	9·5	8·0	286	1	1·5	1·5	270	20	7·4	4·4	302
5·4 ,,	16	13·8	13·0	278	9	14·3	13·9	266	25	9·8	8·9	279	28	11·1	10·3	283					15	6·6	3·9	288
6·0 ,,	13	15·7	15·1	272	6	14·5	14.3	275	24	10.7	9.9	277	27	12·0	11·4	281					11	6·1	3·9	285
7·2 ,,	9	19·7	18.9	267	3	15·3	9·9	272	20	12·3	11·3	278	23	14·4	13·7	277					6	4·6	2·5	256
9·0 ,,	2	5·5	5·1	243	2	20·7	20·0	247	6	18·3	16·8	268	4	20·1	19·3	270					2	5·0	0·2	090

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·5	1·9	039	30	2·0	1·3	050	30	0·3	0·3	032	30	2·6	2·0	011	30	0·7	0·6	325	30	0·1	0·1	112
0·15 a. g.	30	4·5	3·7	040	30	5·4	3·8	060	30	5·3	4·4	020	30	4·2	3·3	010	30	5·5	3·3	357	30	5·2	3·6	114
0·3 a. m. s. l.	30	4·5	3·8	035	30	5·6	4·2	057	30	6·0	5·0	028	30	4·3	3·3	011	30	5·9	3·9	010	30	4·8	3·4	117
0·6 ,,	30	4·6	4·0	030	30	5·0	4·0	047	30	6·6	5·2	035	30	4·1	3·2	010	30	6·4	5·1	025	30	4·3	2·0	091
0·9 ,,	30	4·3	3·5	023	30	4·6	3·4	034	30	4·9	3·3	034	30	3·9	2·9	009	30	5·7	4·6	037	30	3·5	0·9	022
1·5 ,,	29	3·8	1·6	007	28	4·3	2·1	021	30	4·1	1·1	276	30	3·8	2·2	355	30	4·9	1·8	043	30	4·0	1·8	044
2·1 ,,	28	4·6	1·6	321	28	4·3	1·1	010	30	5·1	2·7	281	30	4·5	1·7	295	30	5·0	0·7	280	30	4·2	2·3	314
3·0 ,,	28	6·3	3·0	310	23	5·6	2·3	322	30	5·8	3·5	292	30	5·8	3·4	279	30	4·7	2·7	283	29	6·0	4·0	300
3·6 ,,	25	7·0	3·9	304	5	5·1	3·2	285	30	6·8	4·4	277	30	7·0	4·9	280	8	6·5	3·8	272	28	7·8	6·3	280
4·5 ,,	19	5·8	3·1	308					30	8·1	5·9	278	30	8·4	6·9	279					27	11·7	10·1	280
5·4 ,,	14	6·2	3.9	298					30	10·0	8·6	279	30	10·7	9·0	275					25	14·4	13·0	275
6·0 ,,	7	3·8	1·9	219					30	11·1	10·0	277	30	11.3	9·9	273					24	16·7	13·1	277
7·2 ,,	4	3·7	3·1	232					26	13·7	12·3	277	14	13·9	13·0	265					15	21·4	20·5	277
9·0 ,,									6	10·7	9·6	256	2	21·3	16·1	284					1	16·0	16·0	285

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	BIKANER								BOMBAY/SANTACRUZ															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·4	0·2	007	30	0·2	0·1	005	30	0·7	0·6	070	30	1·6	1·2	078	30	2·9	2·7	313	30	1·2	1·0	028
0·15 a. g.	30	2·9	1·4	346	30	4·7	3·3	051	30	4·6	4·1	040	30	3·4	2·8	084	30	5·1	4·6	311	30	5·0	4·3	011
0·3 a.m.s.l.	30	2·5	1·2	347	30	4·2	2·8	051	30	4·5	4·1	049	30	3·7	3·1	084	30	4·7	4·1	322	30	5·6	5·2	013
0·6 „	30	2·9	1·5	343	30	4·0	2·6	050	30	4·2	3·7	066	30	3·9	3·1	088	30	3·9	3·0	348	30	5·4	5·0	019
0·9 „	30	3·1	1·2	349	30	3·2	1·0	056	30	4·3	3·8	069	30	4·3	3·1	082	30	3·7	2·7	027	30	4·7	4·4	030
1·5 „	30	3·0	0·5	007	30	3·2	1·1	228	30	4·0	2·8	077	30	4·3	2·8	059	30	4·7	3·7	060	30	4·5	3·9	060
2·1 „	30	3·9	1·0	294	30	4·6	2·5	252	30	3·6	1·8	054	30	4·5	3·0	053	30	5·3	3·5	055	30	5·1	4·2	078
3·0 „	29	5·8	4·5	289	30	7·6	6·3	286	30	4·6	1·5	040	30	5·2	2·0	066	30	4·5	2·4	052	30	4·9	1·7	094
3·6 „	28	8·8	7·6	283					30	4·7	1·2	028	28	5·4	1·9	054	30	4·9	1·6	049	28	5·2	0·3	107
4·5 „	28	12·3	11·2	283					30	5·7	1·6	324	28	5·6	0·4	045	30	5·5	0·6	296	24	5.8	0.4	021
5·4 „	26	15·7	13·9	287					30	5·8	2·3	303	26	6.9	1·5	316	30	5·5	1·5	307	14	5·9	2·8	271
6·0 „	23	17·1	15·3	287					30	6·0	2·3	305	25	7·0	1·8	319	30	6·1	2·7	306	14	6·7	3·8	255
7·2 „	8	20·8	19·6	293					30	6·2	3·2	292	23	8·7	4·6	283	30	7·7	4·5	273	4	5·7	4·7	236
9·0 „									30	9·5	6·1	246	23	11·4	8·2	268	30	10·2	6·3	260				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·2	0·2	352	30	1·8	0·9	001	30	0·3	0·1	048	30	0·4	0·3	349	30	1·1	0·5	083	30	3·1	2·6	279
1·15 a. g.	30	5·0	4·7	003	30	3·5	2·8	004	30	3·7	3·0	342	30	4·1	3·3	351	30	3·5	1·4	048	28	4·9	3·7	281
0·3 a.m.s.l.	30	4·8	4·6	010	30	3·7	3·0	003	30	3·8	3·2	347	30	3·8	3·1	360	30	3·7	1·7	342	28	5·7	4·3	284
0·6 „	30	4·5	4·3	010	30	3·8	2·9	360	30	3·9	3·3	356	30	3·9	3·0	002	30	4·2	2·9	308	28	5·5	4·0	292
0·9 „	30	4·3	3·8	003	30	4·2	3·0	352	30	3·7	3·2	355	30	3·9	2·7	360	30	4·8	3·2	311	27	4·2	2·2	309
1·5 „	30	3·9	1·9	309	27	4·9	2·3	316	30	3·5	2·1	324	30	4·2	2·5	316	30	5·8	3·0	329	27	4·6	2·6	003
2·1 „	30	3·9	2·3	270	25	5·0	2·9	278	30	4·3	3·3	281	26	4·9	3·0	282	29	6·1	3·4	334	24	5·0	3·0	354
3·0 „	30	6·0	5·0	268	22	7·7	6·7	272	30	6·1	5·3	285	22	6·7	5·3	286	24	5·5	3·3	342	21	4·8	2·3	360
3·6 „	30	6·9	5·9	276	20	9·6	8·3	276	30	7·7	6·5	288	9	7·9	6·7	283	17	5·7	2·5	340	19	6·4	3·3	046
4·5 „	30	9·2	8·2	282	18	11.4	1.3	312	30	9·5	8·1	285					9	6·1	3·6	049	16	7.7	4.6	044
5·4 „	30	10·5	9·3	283	8	13.3	12.2	294	30	10·9	9·7	284					4	4·9	2·9	052	11	9.0	6.5	067
6·0 „	30	10·8	9·7	280	8	14.1	12.8	289	30	11·3	10·7	278					3	5·0	3·9	070	9	9.6	6.6	063
7·2 „	30	11·8	10·7	273	6	15.9	15.5	275	30	11·7	10·7	278									8	6·9	1·1	013
9·0 „	30	14·8	13·3	265	2	26.5	25.0	278	29	14·8	13·8	266									3	10·5	9·0	254

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRADUN								DIBRUGARH/MOHANBARI											
Time in I.S.T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0·4	331	30	0·2	0·2	020	30	0·5	0·4	247	30	0·8	0·7	049	30	0·2	0·1	045	30	0·2	0·1	066
0·15 a.g.	29	4·3	2·2	333	30	1·3	0·9	060	30	2·3	1·7	263	30	4·1	3·9	052	30	1·9	1·5	050	30	1·6	1·1	080
0·3 a.m.s.l.	29	4·8	2·9	316									30	4·1	3·7	050	30	1·9	1·4	049	30	1·5	1·0	078
0·6 ,,	29	5·2	3·5	306									30	3·5	3·3	039	30	2·1	1·7	042	30	1·8	1·5	061
0·9 ,,	29	5·1	3·2	316	30	1·1	0·7	102	30	2·7	2·1	267	30	3·5	3·0	052	30	2·3	1·9	044	30	2·0	1·6	043
1·5 ,,	27	6·0	3·1	347	30	1·9	0·4	155	30	1·9	1·2	277	30	2·9	2·2	057	29	2·3	0·9	065	30	1·6	0·7	059
2·1 ,,	24	6·7	3·4	345	30	2·6	0·4	249	30	2·1	0·5	315	30	2·5	0·4	118	28	2·4	1·0	185	30	2·5	1·8	186
3·0 ,,	16	6·3	3·1	041	30	3·9	1·2	266	28	3·2	0·8	285	29	3·4	1·7	172	27	3·5	2·4	193	30	4·2	3·2	205
3·6 ,,	6	6·3	3·6	055	27	4.8	2·8	271	28	4·2	1·8	290	28	4·1	1·8	194	26	3·8	2·1	212	27	4·3	2·5	210
4·5 ,,	1	6·5	6·5	075	16	7·8	6·1	267	26	6·7	5·0	284	25	6·0	2·9	248	25	6·7	3.8	252	26	5·6	3·2	266
5·4 ,,					2	14·5	14·3	250	25	10·7	9·5	276	24	9·6	6·8	256	21	10·6	9.0	253	23	10·3	7·1	261
					1	21·5	21·5	250	21	13·2	12·4	278	16	12·2	9·9	246	19	12·7	11·1	266	21	14·3	7·6	277
6·0 ,,									11	19·9	19·0	268	5	22·0	19·3	270	8	19·2	18·6	270	9	19.3	18.9	277
7·2 ,,																	8	29·9	27·5	271	4	26·4	26·4	284
9·0 ,,																								

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I.S.T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·6	0·4	045	30	2·5	1·7	080	30	3·3	2·5	072	30	2·8	2·1	089	30	0·3	0·2	360	30	1·1	1·0	160
0·15 a.g.	30	1·8	1·4	038	29	5·4	3·9	085	30	5·2	4·1	063	30	5·9	4·5	078	25	1·3	0·5	356	25	2·2	2·1	176
0·3 a.m.s.l.	29	2.7	2.3	050																				
0·6 ,,	29	2.7	2.3	050																				
0·9 ,,	29	2·3	1·9	055	29	6·2	5·0	083	30	5·3	4·4	061	30	6·3	5·5	070								
1·5 ,,	29	2·5	2·1	058	28	7·3	6·3	068	30	5·7	4·9	059	30	7·7	6·6	056								
2·1 ,,	29	1·8	1·0	090	28	7·1	5·8	056	30	5·7	4·5	058	30	6·5	5·4	048	25	1·1	0·3	283	25	1·9	1·7	174
3·0 ,,	29	2·1	1·2	180	24	5·9	4·3	059	30	6·3	4·5	059	28	5·3	3·7	057	24	1·6	0·7	138	23	1·3	0·4	295
3·6	28	4·1	3·3	215	24	5.9	3·7	068	29	6·0	3·7	069	26	5·2	3·3	071	23	1·8	0·5	151	20	2·3	1·6	264
4.5 ,,	20	3·8	2·4	197	22	6·4	3.9	073	25	5·8	3·6	070	20	4·7	2·1	069	20	6.0	3.1	263	14	6·5	5·9	257
5·4 ,,					20	6.1	4.4	048	24	5·9	3·8	073	9	4·3	0·4	146	18	10·7	8.4	255	10	13·3	13·0	252
6·0 ,,					19	6·3	4.2	033	22	5·9	3·3	045	5	4·5	2·1	206	15	14·7	1·8	245	8	15·9	12·6	259
7·2 ,,					18	5.7	2.6	350	20	6·3	2·5	015	3	3.5	2.5	250	10	20.1	10.4	266	4	16·5	15·5	263
9·0 ,,					15	8.3	6.2	266	17	8.1	3.1	258					2	43.0	38.6	245				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I.S.T.	0530				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·7	0·7	045	30	1·4	1·1	035	30	0·1	0·1	045	30	0·2	0·1	214	30	0·3	0·2	193	30	0·8	0·6	314
0·15 a.g. .	30	2·1	1·8	081	30	2·9	2·5	050	30	3·0	2·5	057	30	2·2	0·7	119	30	3·1	2·1	284	30	3·2	2·3	313
0·3 a.m.s.l. .	30	2·4	2·1	085	30	3·0	2·8	063	30	3·1	2·6	057	30	2·6	1·5	090	30	3·1	2·2	304	30	3·2	2·3	313
0·6 ,, .	30	4·3	3·7	085	30	4·5	4·3	082	30	3·4	2·8	071	30	3·3	2·5	083	29	3·8	3·0	342	30	3·2	2·6	318
0·9 ,, .	30	4·5	4·2	082	30	5·2	5·0	090	30	3·2	2·3	088	30	3·0	1·9	085	29	4·1	3·4	345	30	3·2	2·4	323
1·5 ,, .	30	4·0	3·3	092	30	4·3	3·7	108	30	3·4	1·5	137	28	3·1	1·4	077	30	4·3	2·7	332	30	3·5	2·4	323
2·1 ,, .	30	3·7	2·6	110	29	4·0	2·8	135	30	3·5	1·9	203	28	3·0	1·1	127	29	5·1	2·5	328	30	5·4	3·6	317
3·0 ,, .	30	4·5	1·7	223	28	4·3	1·8	183	30	4·8	3·1	228	26	4·0	1·4	194	29	7·2	2·2	297	30	7·8	7·3	301
3·6 ,, .	29	7·3	4·7	251	26	5·2	3·7	244	30	5·8	4·1	250	16	7·4	4·7	245	29	8·8	7·4	279	29	9·8	9·1	295
4·5 ,, .	29	10·7	9·6	260	25	10·9	10·2	264	28	11·9	11·3	266	6	14·2	13·9	270	28	11·9	10·8	283	28	12·5	12·1	292
5·4 ,, .	28	16·1	15·0	267	22	15·3	14·8	267	28	16·4	15·8	270	2	14·5	12·9	258	27	13·8	12·8	280	28	14·7	14·2	287
6·0 ,, .	28	18·0	17·2	268	21	17·8	17·2	270	28	19·7	18·8	272	1	20·0	20·0	285	23	13·8	12.8	275	27	15·9	15·3	283
7·2 ,, .	27	21·4	20·3	267	17	22·2	21·2	268	27	22·3	21·5	268					17	15·0	14·5	267	19	17·4	16·8	269
9·0 ,, .	20	30·3	28·5	260	11	25·4	23·2	273	22	29·3	27·5	263					3	27·7	26·7	255	7	19·0	18·6	250

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·3	0·3	193	30	1·8	1·7	333	30	2·2	1·9	075	30	1·0	0·7	344	30	0·4	0·3	281	30	0·3	0·3	270
0·15 a. g. .	30	3·3	2·2	301	28	7·3	6·4	360	30	5·2	4·5	065	30	4·6	3·8	039	30	4·0	3·5	307	30	3·3	2·8	284
0·3 a.m.s.l. .	30	3·3	2·4	298	28	7·4	6·8	027	30	5·1	4·7	058	30	4·7	4·0	050	30	4·2	3·8	305	30	3·4	3·0	285
0·6 ,, .	30	3·6	3·1	318	28	6·6	6·2	044	30	4·7	4·6	039	30	4·9	4·6	051	30	4·2	3·5	295	30	3·7	3·4	286
0·9 ,, .	30	4·0	3·4	320	27	6·4	5·9	045	30	5·5	4·8	021	28	4·9	4·4	048	30	4·1	2·9	294	30	4·1	3·6	291
1·5 ,, .	30	4·2	2·8	318	26	5·4	4·2	051	28	4·9	3·3	008	26	4·9	3·3	041	29	4·5	1·5	302	30	4·5	2·7	295
2·1 ,, .	30	5·4	3·3	310	24	5·2	2·7	070	24	4·9	1·9	350	23	4·2	2·5	012	26	5·2	1·9	308	30	5·7	2·2	291
3·0 ,, .	28	7·0	5·6	299	21	5·5	1·7	040	22	6·1	3·0	350	17	5·1	2·4	001	21	7·6	5·3	307	30	6·2	4·6	303
3·6 .	9	5·4	4·6	308	19	5·7	2·1	340	21	6·1	3·1	337	1	2·0	2·0	355	21	9·8	8·9	297	29	8·4	7·2	301
4·5 ,, .	2	8·3	8·1	292	17	6·2	3·3	324	18	7·9	4·5	341					17	10·9	10·4	291	25	11·1	10·6	292
5·4 ,, .					14	6·5	4·2	300	18	7·2	4·8	323					15	14·1	13·6	280	18	14·1	13·1	286
6·0 ,, .					12	6·9	5·4	288	15	6·4	4·7	310					10	14·1	13·9	271	12	16·6	16·0	274
7·2 ,, .					5	9·1	6·4	317	11	6·2	4·5	280					2	10·7	10·7	261	7	22·9	21·8	269
9·0 ,, .									8	7·4	4·6	295					1	20·0	20·0	255	1	24·0	24·0	260

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I.S.T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·2	0·1	270	30	1·0	0·2	280	30	0·9	0·7	327	30	0·3	0·1	297	30	0·3	0·3	045	30	0·3	0·3	161
0·15 a.g.	30	2·7	0·7	346	30	1·7	0·6	325	30	3·0	2·2	345	30	3·6	2·0	030	22	2·1	2·1	052	30	1·4	1·1	185
0·3 a.m.s.l.	30	2.4	1·0	304	30	1.7	0·5	330	30	2·7	2·1	345	30	2·9	1·5	035								
0·6 ,,	30	3·3	0·9	360	30	2·2	0·9	308	30	3·4	2·7	345	30	3·8	2·0	009								
0·9 ,,	30	3·6	1·9	351	30	3·1	1·6	323	30	3·4	2·5	334	30	3·8	2·1	337	22	2·3	2·0	053	30	1·4	1·1	194
1·5 ,,	30	5·1	4·2	331	30	4·5	3·6	334	30	4·1	3·4	328	30	4·6	3·7	321	22	2·1	1·7	088	30	2·2	1·9	215
2·1 ,,	30	5·9	5·3	328	30	5·4	4·2	327	30	5·1	4·5	319	30	5·4	4·5	308	22	4·3	2.6	168	28	3.5	2·1	196
3·0 ,,	29	6·3	5·1	300	30	6·2	5·1	292	30	7·1	6·4	297	30	6·6	5·8	299	18	6·3	5·4	236	26	6·4	5·9	243
3·6 ,,	29	8·1	6·7	288	29	8·0	7·0	279	30	9·3	8·3	291	4	10·1	8·5	285	14	9·0	8·1	250	22	10·0	9·5	251
4·5 ,,	28	11·3	10·1	276	29	11·5	10·6	277	29	11·9	11·0	288					7	12·8	12·3	266	15	14·7	13·8	266
5·4 ,,	26	14·3	13·3	276	29	15·4	14·3	277	28	15·2	14·5	281					2	16.3	16·3	285	71	18·0	17·4	280
6·0 ,,	25	16·8	15·4	274	28	17·8	17·2	274	27	17·5	16·5	278									2	15·3	14·9	283
7·2 ,,	21	22·0	19·9	270	21	21·8	20·6	269	24	22·2	21·1	273									1	18·0	18·0	295
9·0 ,,	8	26·5	24·2	278	11	25·1	24·2	266	7	21·8	21·5	262												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·1	0·9	236	30	0·8	0·7	049	30	0·2	0·2	149	30	0·9	0·8	036	30	0·3	0·2	090	30	0·3	0·1	332
1·15 a.g.	28	2·8	1·7	215	29	1·5	1·3	044	30	3·3	2·3	079	30	3·5	3·2	029	30	4·6	3·7	056	28	4·5	4·3	042
0·3 a.m.s.l.																								
0·6 ,,									30	3·8	3.0	063	30	3·7	3·4	026	30	5·1	4·1	051	28	2·1	1·9	044
0·9 ,,	28	2·7	1·5	218	29	1·9	1·5	045	30	4·6	3·9	038	30	3·9	3·6	016	30	4·5	4·0	041	28	5·8	5·6	055
1·5 ,,	28	2·3	1·4	193	29	2·2	1·1	165	30	5·3	4·0	016	30	4·5	3·8	360	30	4·4	3·4	016	27	4·8	3·7	052
2·1 ,,	28	3·2	2·0	219	27	3·8	3·0	212	30	5·6	3·6	341	30	5·0	3·4	340	30	5·0	3·2	335	26	5·6	2·4	035
3·0 ,,	27	6·9	6·4	206	14	7·3	5·9	243	28	6·0	4·4	303	30	6·5	5·1	302	29	6·4	4·9	304	25	5·2	1·8	025
3·6 ,,	25	9·4	8·5	199	10	9·3	8·6	257	27	6·9	5·3	300	29	7·6	6·7	295	14	8·0	7·0	289	23	5·4	1·9	360
4·5 ,,	19	13·9	12·6	275	1	12·5	12·5	270	26	9·7	8·7	298	29	10·0	9·2	287	6	4·3	3·3	292	20	6·9	3·5	352
5·4 ,,	9	14·3	13·8	273					24	10·8	9·4	298	27	12·1	11·3	282	2	3·7	3·1	233	20	6·4	3·1	330
6·0 ,,	4	15·3	14.5	270					23	11·0	10·3	286	26	12·4	11·6	279	1	6·0	6·0	245	20	6·3	4·3	313
7·2 ,,									12	12·6	11.6	278	16	16·1	15·4	272					19	6·4	4·2	287
9·0 ,,									4	10.1	10.1	259	4	18·5	17·6	262					12	8·2	4·1	275

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·7	020	30	0·2	0·2	036	30	0·7	0·5	061	30	0·6	0·4	329	30	0·5	0·4	038	30	0·9	0·7	313
0·15 a.g.	30	4·0	3·7	031	29	6·1	5·7	046	30	4·2	2·4	071	30	2·8	0·9	312	30	4·6	1·6	040	30	3·5	3·1	322
0·3 a.m.s.l.																					30	3.5	3.0	340
0·6 „	30	2.7	2.4	032	29	4·2	4·0	043	30	4·4	2·0	074	30	2·8	0·9	320	30	4·7	1·5	043	30	4·1	3·7	014
0·9 „	30	4·4	4·0	032	29	6·2	5·9	052	30	4·1	0·7	015	30	2·8	1·1	321	30	3·7	0·9	028	29	4·7	4·0	013
1·5 „	30	4·0	3·1	043	29	3·9	3·1	054	30	4·1	2·1	299	30	3·1	1·7	329	30	3·4	1·0	288	29	4·3	2·3	339
2·1 „	27	3·9	2·1	029	27	3·8	2·1	047	30	5·6	3·7	297	30	4·3	3·0	315	30	4·4	2·2	298	28	4·6	3·3	310
3·0 „	22	5·1	2·3	350	26	5·2	2·3	022	30	6·2	4·7	298	29	7·0	6·1	295	30	6·4	4·9	298	24	6·3	5·2	293
3·6 „	21	6·4	3·1	331	16	5·1	2·8	350	30	8·2	7·0	287	29	9·3	8·1	288	23	7·8	7·0	290	24	7·7	6·4	288
4·5 „	21	7.4	4.3	339	8	5·2	3·3	313	30	11·1	10·1	278	29	11·5	10·2	284					21	9·6	8·5	292
5·4 „	20	7.6	4.8	328	4	4·0	0·9	294	29	14·9	14·1	274	29	14.5	13.3	282					18	10·1	9·1	283
6·0 „	18	7.4	5.6	310	1	5·0	5·0	180	27	17·3	16.5	272	28	17·5	16·3	278					11	10·8	10·1	277
7·2 „	17	8.9	6.8	290					13	21·2	20·0	271	20	21·6	20·6	275					2	5·5	5·5	270
9·0 „	13	9.5	6.1	270					1	18·0	18.0	265	4	28·1	28·0	256					1	6.0	6.0	220

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I.S.T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	0·8	345	30	2·0	1·9	028	30	1·1	0·9	040	30	1·2	0·9	019	30	1·6	1·5	025	30	1·1	0·7	070
0·15 a.g.	30	2·7	2·2	353	30	4·8	4·6	045	30	2·9	2·3	032	30	3·7	1·8	014	30	6·4	4·7	037	30	3·2	1·5	083
0·3 a.m.s.l.	30	2.7	2.3	352	30	4.1	4.0	035	30	2.7	2.1	031	30	3.3	2·2	010	30	6·4	4·7	038	30	2·7	1·6	077
0·6 „	30	3·3	2·8	353	30	5·8	5·5	051	30	3·3	2·7	035	30	3·7	1·9	028	30	5·2	2·7	042	30	3·3	1·0	091
0·9 „	30	3·6	3·0	353	30	4·9	4·1	053	30	3·1	2·4	030	30	3·7	2·1	032	30	3·8	1·0	043	30	3·3	0·6	025
1·5 „	30	3·9	2·9	335	29	3·8	2·0	026	29	3·5	2·6	008	30	3·9	2·3	043	30	3·9	1·6	298	30	3·6	1·0	336
2·1 „	28	5·3	3·8	306	27	4·5	2·8	314	29	4·4	2·9	329	29	3·5	1·4	297	30	4·9	3.2	290	30	3·9	1·8	290
3·0 „	26	7·5	6·7	297	25	5·9	4·4	291	26	6·9	5·9	307	25	6·1	4·0	304	30	6·6	5·1	286	30	6·3	4·5	280
3·6 „	24	9·0	7·9	296	24	7·3	6·0	302	26	8·2	6·7	302	5	5·0	3·9	298	30	7·7	6·7	274	30	8·1	5·8	276
4·5 „	23	11.3	10·4	295	24	9·2	7·9	305	24	10·2	9·1	299					29	11·7	10·3	272	30	11.2	9.9	276
5·4 „	19	10.2	9.2	285	21	9·8	7·7	293	24	11·8	10·8	297					29	15·6	14·6	266	30	14.5	13.6	274
6·0 „	15	9.7	8.9	275	17	7·9	6·7	278	22	10·5	9·2	286					29	18·9	17·4	265	28	17.1	16.2	274
7·2 „	2	3.5	3.5	355	9	8·5	8.2	274	12	8.6	7.7	272					28	22·2	21·1	262	28	21.9	20.9	270
9·0 „	1	1.0	1.0	315	1	19.0	19.0	285	4	5.6	5.1	234					21	27.6	26.2	264	21	28.4	27.0	272

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/ MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·6	0·7	335	30	1·9	1·6	027	30	0·4	0·4	279	30	1·1	0·9	293	30	0.5	0·2	324	30	4·9	4·2	006
0·15 a.g.	30	4·8	3·5	006	30	6·5	4·1	035	30	3·8	2·3	305	30	3·1	2·6	302	30	3·5	2·5	312	30	7·0	5·8	008
0·3 a.m.s.l.	30	4·8	3·5	006	30	5·8	3·8	035	30	3·5	1·7	265	30	3·1	2·7	302	30	3·4	2·5	314	30	7·4	6·1	018
0·6 ,,	30	4·0	1·9	001	30	5·9	3·7	039	30	3·4	2·3	305	30	3·4	2·9	300	30	3·7	3·3	307	30	8·2	5·7	041
0·9 ,,	30	3·4	1·2	002	30	4·7	2·4	039	30	4·1	3·1	305	30	3·5	3·0	300	30	3·8	2·8	303	30	8·5	6·9	037
1·5 ,,	30	3·8	1·2	353	30	3·9	0·9	055	30	5·5	3·7	310	30	4·3	3·3	309	30	4·5	3·8	304	30	8·1	6·4	035
2·1 ,,	30	3·8	1·8	296	30	4·5	1·1	248	30	5·9	3·7	315	30	4·9	3·7	305	30	5·4	3·9	295	30	7·8	6·2	037
3·0 ,,	30	6·2	4·7	276	30	6·4	4·4	278	29	7·1	5·8	304	30	7·0	6·2	294	29	6·7	5·7	295	30	8·1	6·8	047
3·6 ,,	29	8·7	6·4	279	9	7·9	6·3	299	27	8·3	7·4	299	30	8·9	8·1	289	13	6·5	4·7	282	30	8·9	7·1	055
4·5 ,,	29	11·8	10·4	275	2	7·0	6·6	339	24	9·3	7·3	288	30	12·3	11·5	283	4	8·0	7·7	290	30	9·3	7·4	557
5·4 ,,	29	15·1	14·1	268					24	14·0	12·3	288	28	15·7	15·1	281					30	8·9	6·8	054
6·0 ,,	29	17·8	16·6	267					22	16·7	15·0	286	28	18·5	17·9	276					30	8·1	5·7	056
7·2 ,,	29	23·2	22·0	267					20	22·8	21·0	276	27	24·9	23·9	273					29	8·5	4·5	057
9·0 ,,	27	29·0	26·5	263					7	30·5	28·5	271	15	33·0	30·1	267					28	10·5	1·9	078

Station	MADRAS/MINAMBADKM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·1	3·6	005	30	5·5	4·3	023	30	3·7	3·1	356	30	1·3	0·9	095	30	3·4	2·5	262	30	1·1	0·2	075
0·15 a.g.	29	6·0	4·9	008	29	7·4	6·5	030	30	7·1	6·2	016	30	3·7	1·6	094	30	5·2	3·9	264	29	4·2	1·4	332
0·3 a.m.s.l.	29	6·1	4·9	016	29	7·5	6·7	029	30	7·7	6·7	022	30	3·8	1·4	087	30	5·2	3·9	267	29	4·2	1·4	314
0·6 ,,	28	7·3	5·9	022	29	7·6	6·6	032	29	8·9	7·5	025	30	3·9	1·0	049	30	3·7	1·5	281	29	4·4	1·5	325
0·9 ,,	28	7·9	6·3	032	29	7·6	6·5	030	28	9·5	8·5	020	28	3·8	1·6	062	30	3·2	0·4	342	28	4·2	1·5	352
1·5 ,,	24	8·3	6·7	032	29	7·6	6·0	032	28	9·1	7·7	019	28	4·8	2·9	063	28	5·1	3·6	067	27	5·3	4·0	057
2·1 ,,	21	8·5	6·8	035	29	7·8	6·1	038	26	9·1	7·3	030	28	5·3	3·4	065	27	5·7	4·0	058	25	5·6	4·4	072
3.0 ,,	17	9·1	7·6	037	29	8·6	6·9	044	24	8·5	7·3	048	24	4·4	2·9	065	28	6·3	3·9	051	23	5·1	3·5	069
3·6 ,,	15	10·5	8·3	047	29	7·9	6·5	055	21	8·5	6·3	042	22	5·0	3·3	069	27	6·3	3·8	062	20	5·8	4·0	068
4.5 ,,	14	9·0	6·9	050	29	7·8	6·1	053	14	9·5	7·1	047	21	6·0	4·1	070	20	6·1	4·5	065	18	5·3	4·0	090
5.4 ,,	13	9·4	6·5	047	29	8·3	6·4	053	8	8·8	6·6	013	19	6·5	4·9	048	20	5.8	4.7	047	8	4·6	3·5	070
6.0 ,,	11	8·8	6·5	041	29	7·9	5·5	055	5	14·0	13·4	004	18	6·6	5·5	041	18	5·8	4·5	040	6	4·7	3·4	054
7.2 ,,	10	9·5	4·2	035	29	8·9	5·1	050	5	14·4	13·1	360	15	7·4	4·7	038	16	7·3	4·4	047	3	5·0	4·0	074
9.0 ,,	9	12·2	1·2	076	29	7·6	1·6	075	4	17·0	9·7	360	10	7·7	2·3	328	9	6·6	2·0	328				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1·7	1·4	285	30	2·3	1·6	289	30	3·4	3·0	291	30	2·1	1·6	281	30	2·0	2·6	039	30	2·1	1·9	047
0·15 a.g. .	30	4·5	3·4	287	30	4·6	3·5	295	30	5·5	4·7	288	21	4·4	2·7	299	30	5·4	4·9	042	30	3·7	3·3	043
0·3 a. m. s. l.,	30	5·0	3·9	278	30	5·0	3·9	290	30	5·5	4·7	291	29	4·9	3·3	301								
0·6 „ .	30	5·3	4·2	283	30	5·4	4·3	291	30	5·6	4·7	291	29	5·2	3·7	300	30	5·7	5·2	049	30	3·9	3·7	050
0·9 „ .	30	5·5	4·3	285	30	5·7	4·6	286	30	6·1	4·9	293	29	4·9	3·5	302	30	5·0	4·8	059	30	4·2	3·5	053
1·5 „ .	29	5·9	4·2	287	27	5·5	4·4	291	30	5·4	3·7	291	28	4·4	3·3	301	30	4·9	3·7	031	30	4·9	3·6	030
2·1 „ .	26	4·8	3·4	301	25	4·9	3·6	283	30	5·4	4·4	273	24	4·4	3·7	302	30	4·8	3·6	042	30	4·7	2·5	003
3·0 „ .	24	4·0	1·9	303	21	4·9	2·1	274	30	5·4	3·5	276	18	3·9	1·7	339	30	4·3	2·3	326	29	4·8	2·6	317
3·6 „ .	22	4·0	0·8	306	20	4·2	0·5	277	30	5·6	2·6	286	11	4·7	1·5	062	30	4·8	3.1	316	27	5·4	3·4	300
4·5 „ .	21	5·1	1·3	037	17	5·3	1·2	061	30	6·2	1·4	321	2	6·5	3·1	064	30	6·4	4·3	303	27	6·6	4·3	299
5·4 „ .	18	5·2	3·4	059	16	6·2	3·3	062	30	5·9	1·0	349					30	6·5	4·8	298	24	7·6	5·5	289
6·0 „ .	16	5·1	3·4	071	14	5·5	3·2	066	30	5·6	1·5	023					30	7·2	5·3	297	24	8·3	6·0	285
7·2 „ .	13	5·3	2·7	062	11	5·3	2·0	040	30	4·8	1·2	049					30	8·9	6·6	293	22	9·1	6·7	283
9·0 „ .	7	6·6	2·6	084	5	7·5	2·6	207	27	7·3	3·6	076					30	10·7	9·5	277	16	16·8	14·0	274

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	1·7	1·6	037	30	1·5	1·1	031	30	0·8	0·7	315	30	1·6	1·2	301	30	1·1	1·0	319	30	0·7	0·4	304
0·15 a.g. .	30	3·8	3·5	042	30	5·3	4·5	060	30	4·5	3·5	336	30	3·1	2·2	325	30	3·7	3·3	322	30	5·3	4·3	341
0·3 a.m.s.l. .									30	2·4	2·0	333	30	3·0	2·3	325	30	2·4	2·2	321	30	4·7	3·6	335
0·6 „ .	30	3·9	3·6	043	30	5·5	4·9	064	30	4·3	3·4	332	30	3·6	2·5	315	30	3·8	3·4	323	30	5·1	4·3	335
0·9 „ .	30	3·5	3·2	050	30	5·1	4·7	060	30	4·4	3·4	323	30	4·4	3·3	321	30	4·1	3·4	321	30	4·8	4·0	323
1·5 „ .	30	4·3	3·5	025	30	5·1	3·9	028	30	5·6	4·9	312	30	5·8	4·1	316	30	4·4	3·6	318	30	5·6	4·4	315
2·1 „ .	30	5·5	4·1	360	30	4·8	2·5	007	30	6·9	6·2	308	30	5·5	4·2	303	30	5·2	4·3	308	30	7·1	6·0	299
3·0 „ .	30	4·8	2·6	330	28	4·9	3·1	319	30	7·5	6·0	309	30	6·3	4·5	287	30	6·0	5·0	296	27	6·9	5·7	247
3·6 „ .	30	5·4	3·8	308	23	5·0	3·8	296	30	8·5	7·2	295	30	8·1	6·5	281	30	7·5	6·5	292	4	9·2	8·8	248
4·5 „ .	30	6·8	4·7	293	11	5·9	4·4	290	30	10·9	9·8	288	29	11·0	10·2	282	30	9·7	8·6	292				
5·4 „ .	30	7·2	5·8	290	4	8·0	5·9	270	30	14·5	13·1	281	28	14·4	13·1	282	30	13·7	12·5	283				
6·0 „ .	30	7·5	5·6	290	1	4·0	4·0	260	30	17·9	16·0	280	28	17·5	16·1	281	30	15·9	14·5	280				
7·2 „ .	30	9.3	7·6	283	1	3·5	3·5	245	29	23·5	21·5	279	24	25·5	24·2	270	30	22·7	21·0	278				
9·0 „ .	29	11·7	9·7	267					29	30·1	27·9	272	15	36·5	35·1	264	29	34·5	32·4	275				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	CALM			30	0·4	0·4	074	30	0·7	0·7	090	30	2·2	1·4	124	30	2·8	1·9	107	29	2·4	1·4	118
0·15 a.g. .	29	2·9	2·4	090	30	2·7	1·6	053	30	3·3	1·8	060	30	5·0	2·7	126	29	5·1	3·1	113	29	5·5	3·3	131
0·3 a.m.s.l. .													30	5·0	2·7	126	29	5·0	3·4	119	29	5·5	3·3	131
0·6 „ .	29	1·3	0·4	207	30	1·9	1·2	056	30	1·6	0·5	184	30	6·1	3·5	125	29	6·1	3·7	115	29	5·9	3·1	131
0·9 „ .	29	4·8	4·5	090	30	3·1	2·3	056	30	4·9	3·7	063	30	6·1	3·6	132	24	5·2	2·8	115	29	6·1	3·2	127
1·5 „ .	29	6·4	6·0	090	30	3·3	2·6	064	30	6·0	5·6	072	30	6·2	3·0	130	17	5·2	1·8	147	29	6·2	2·8	132
2·1 „ .	26	5·0	3·7	059	30	4·2	3·3	063	28	5·5	4·9	072	30	6·1	3·3	129	16	4·9	1·7	148	29	6·2	2·8	130
3·0 „ .	24	5·1	2·7	042	27	5·5	3·3	062	23	5·2	2·7	058	30	5·7	2·9	114	11	3·9	0·7	057	29	5·5	2·1	131
3·6 „ .	19	4·4	2·0	358	24	5·3	1·8	044	23	5·4	1·0	069	30	5·8	2·3	112	9	3·9	1·1	080	29	5·1	2·0	106
4·5 „ .	6	3·6	2·3	113	20	5·9	0·9	323	9	4·9	1·9	333	30	5·8	2·4	104	7	4·6	1·9	057	29	5·6	2·6	082
5·4 „ .	2	5·3	5·0	134	19	6·8	2·7	330	3	2·5	1·8	308	30	6·0	2·9	091	3	2·3	0·8	090	29	6·3	3·2	085
6·0 „ .	1	1·0	1·0	135	19	7·2	3.3	303					30	6·8	2·6	087	3	3·2	0·9	084	29	6·0	3·2	085
7·2 „ .	1	2·0	2·0	180	16	7·7	5·7	276					28	7·0	3·4	099	2	5·7	2·0	099	29	6·9	3·5	088
9·0 „ .	1	2·0	2·0	195	8	15·6	12·4	287					20	7·8	5·8	102	1	8·5	8·5	105	27	6·5	4·2	105

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·5	1·4	127	30	1·3	1·2	039	30	1·7	1·5	023	30	1·6	1·2	058	30	0·7	0·2	036	30	1·6	1·5	261
0·15 a.g. .	29	4·8	2·2	130	30	5·5	5·2	051	30	3·5	3·3	027	30	4·7	4·3	057	30	2·7	1·3	329	30	3·6	3·3	257
0.3 a.m.s.l.	29	5·1	2·2	123													30	2·9	1·6	311	30	3·7	3·5	257
0·6 „ .	27	5·3	0·7	126	30	5·9	5·4	057	30	3·9	3·7	030	30	4·7	4·2	058	30	3·2	2·2	290	30	3·4	3·1	267
0·9 „ .	20	4·8	0·9	132	30	4·8	4·3	057	30	3·7	3·3	035	30	4·1	3·4	052	30	2·8	1·6	287	30	3·1	2·5	281
1·5 „ .	19	3·0	0·7	078	30	4·7	3·3	034	30	4·3	2·9	029	30	4·8	3·1	034	30	2·7	0·8	113	30	2·5	0·6	295
2·1 „ .	16	5·7	0·6	130	29	4·5	2·4	349	29	5·0	2·5	354	30	3·8	1·4	350	30	3·5	1·5	097	29	3·2	0·9	080
3·0 „ .	12	4·5	0·9	308	27	5·6	3·9	307	28	6·0	3·7	312	29	5·6	3·2	294	26	6·2	3·1	306	27	6·0	2·4	300
3·6 „ .	12	4·6	0·3	325	26	6·5	4·9	299	26	6·5	4·5	293	22	6·4	4·6	296	21	8·2	7·0	297	22	7·7	6·3	289
4·5 „ .	7	5·3	3·1	012	26	8·0	6·3	298	25	8·3	7·1	300	3	5·5	5·0	278	12	9·3	8·6	277	8	11·2	11·1	289
5·4 „ .	5	6·3	4·0	011	25	7·8	6·5	290	23	9·1	7·7	287	1	5·0	5·0	270	7	12·4	12·2	266	4	12·7	12·3	281
6·0 „ .	4	7·6	4·9	028	25	8·2	7·1	282	22	8·9	7·5	283					4	15·7	15·3	265	1	14·0	14·0	255
7·2 „ .	2	5·7	4·5	321	23	9·5	7·7	275	21	9·7	8·0	278					1	25·5	25·5	245				
9·0 „ .	2	7·5	7·4	263	6	10·2	9·4	252	9	9·6	7·8	265												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHI-RAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·9	0·8	010	30	1·1	0·5	211	30	1·4	1·1	356	26	0·2	0·2	124	21	0·5	0·0	090	30	2·6	2·0	297
0·15 a.g. .	29	2·2	1·7	052	30	2·4	1·2	217	30	2·0	0·4	356	26	1·7	1·3	138	21	1·6	0·8	335	28	5·5	3·5	327
0·3 a.m.s.l. .	29	2·2	1·7	066	30	2·4	1·2	227	30	1·9	0·2	287									28	5·8	3·5	327
0·6 ,, .	29	2·3	1·4	081	30	2·5	1·1	238	30	2·4	0·9	277									28	6·2	3·3	339
0·9 ,, .	29	2·3	1·5	075	30	2·3	0·4	230	30	2·6	0·2	013									28	6·4	3·5	342
1·5 ,, .	29	4·0	2·8	090	29	3·3	2·1	109	30	3·2	1·6	102									26	6·5	4·3	342
2·1 ,, .	29	4·6	3·1	095	29	3·9	2·1	085	30	3·8	2·2	084	26	1·2	0·2	073	21	2·1	0·5	183	25	6·2	4·3	349
3·0 ,, .	28	4·9	1·5	088	29	5·1	1·4	360	22	4·8	1·7	285	26	1·9	0·9	142	21	2·3	1·1	163	22	5·7	3·5	010
3·6 ,, .	26	6·5	3·2	282	28	7·3	4·9	297	3	8·3	8·3	277	26	3·7	2·8	152	21	3·3	1·6	142	18	6·0	3·3	035
4·5 ,, .	24	12·7	11·7	279	27	14·4	13·7	281					26	4·7	3·1	193	21	4·0	2·4	187	16	7·8	4·4	053
5·4 ,, .	20	16·9	14·8	277	26	17·3	16·9	280					26	7·8	5·7	233	21	6·9	3·7	228	13	7·8	5·8	047
6·0 ,, .	16	19·1	18·7	265	25	19·7	19·2	279					26	9·8	7·7	251	21	8·8	5·4	262	12	8·1	4·9	041
7·2 ,, .	8	22·7	22·1	264	18	22·5	22·0	272					26	15·7	13·6	260	20	15·8	13·0	263	8	8·5	2·1	034
9·0 ,, .					3	21·0	20·4	256					24	25·9	24·2	262	20	26·4	23·3	268	4	6·3	1·5	308

Station	TIRUCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·8	1·6	321	30	3·2	0·8	044	30	1·5	1·2	346	30	2·5	1·8	294	30	2·8	2·5	285	30	1·5	1·1	354
0·15 a.g. .	29	3·8	2·2	339	28	5·9	2·5	040	30	5·1	4·7	233	30	4·5	3·6	292	30	5·7	5·4	289	28	4·3	3·4	320
0·3 a.m.s.l. .	29	3·9	2·4	335	28	6·3	2·8	040	30	5·1	4·6	331	30	4·5	3·7	294	30	5·7	5·4	290	28	4·9	4·1	319
0·6 ,, .	29	4·6	3·0	336	28	6·6	3·3	014	30	5·2	4·5	311	30	4·5	3·7	296	30	5·7	5·4	295	28	5·7	5·1	312
0·9 ,, .	29	4·9	3·4	341	28	6·0	3·5	353	30	5·3	4·7	310	27	4·5	3·8	311	30	5·2	4·7	311	28	5·5	4·9	311
1·5 ,, .	27	5·8	4·2	343	26	6·6	4·4	337	30	5·5	4·2	309	15	4·6	2·9	307	30	5·8	4·3	326	22	6·0	4·8	314
2·1 ,, .	25	6·6	5·3	338	21	6·7	4·4	353	30	6·1	4·7	310	6	3·9	3·2	282	30	6·5	5·1	315	20	5·1	3·9	313
3·0 ,, .	23	6·7	4·5	353	15	5·9	3·4	022	30	6·7	4·8	298	2	3·5	3·3	310	30	6·6	4·9	309	15	6·3	3·9	335
3·6 ,, .	22	6·3	4·1	012	13	6·3	4·5	049	30	6·6	5·0	300	1	4·0	4·0	295	30	6·3	3·5	308	8	5·7	2·6	037
4·5 ,, .	16	6·8	4·9	046	8	6·1	3·1	055	30	5·7	2·0	331					30	6·6	2·5	344	3	6·0	1·5	314
5·4 ,, .	13	7·3	4·3	038	2	6·0	5·6	031	30	5·7	2·0	013					30	6·4	2·5	355	1	4·5	4·5	045
6·0 ,, .	10	7·3	4·5	032	1	2·0	2·0	025	30	5·9	2·4	004					30	7·1	2·6	352				
7·2 ,, .	7	6·4	3·9	329					30	5.0	1.9	030					30	5·6	2·8	019				
9·0 ,,	6	6·6	6·5	250					29	5·6	2·1	106					30	6·7	2·8	090				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	C	A	L M	30	0·2	0·2	242	30	C	A	L M	30	0·6	0·6	355	30	1·7	1·4	267	30	0·9	0·8	354
0·15 a.g.	30	2·0	1·2	052	30	2·5	0·7	088	30	2·6	1·5	035	30	3·5	2·3	051	30	3·5	2·7	280	30	4·6	3·8	360
0·3 a.m.s.l.													30	4·1	2·6	062	30	3·7	2·3	283	30	5·3	4·3	356
0·6 „													30	4·7	3·3	069	30	3·2	1·2	349	30	4·7	3·5	360
0·9 „	30	2·7	1·2	075	30	2·6	0·9	087	30	3·5	1·8	052	30	5·4	4·3	075	29	3·2	2·1	029	30	4·3	3·1	028
1·5 „	30	3·2	0·3	260	30	2·7	1·1	347	30	3·1	1·7	108	27	5·6	4·5	087	29	5·7	5·0	062	27	5·8	5·2	073
2·1 „	30	4·3	2·7	276	30	3·8	2·3	310	30	3·4	0·3	062	25	5·0	4·2	070	27	6·1	5·1	066	25	6·2	5·7	081
3·0 „	30	5·7	4·2	296	30	5·4	2·0	336	30	5·3	3·0	291	20	3·9	2·3	072	24	5·9	4·1	065	21	5·0	3·7	076
3·6 „	30	6·9	5·5	283	30	7·5	6·6	293	28	6·4	4·8	295	1	6·0	6·0	150	20	5·3	2·8	067	13	4·6	2·7	050
4·5 „	30	9·8	8·8	291	30	10·2	8·8	282	9	9·8	8·0	280					16	4·9	2·6	069				
5·4 „	30	12·9	11·8	273	30	13·4	12·2	280	3	12·8	10·1	290					15	4·8	2·3	019				
6·0 „	30	14·6	13·7	273	30	13·9	12·9	275	1	9·5	9·5	280					15	5·2	2·4	360				
7·2 „	30	18·1	17·1	273	25	17·3	15·0	278	1	12·0	12·0	265					15	6·2	3·2	326				
9·0 „	18	19·7	18·7	268	8	18·3	1·73	267									4	11·4	7·1	285				

Station	VERAVAL												VIJAYWADA/GANNAVARAM											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·8	3·5	025	30	4·5	3·2	262	30	1·7	1·3	006	30	3·3	3·0	025	30	4·0	2·6	047	30	1·7	1·3	057
0·15 a.g.	30	9·7	8·7	035	30	5·0	3·4	263	30	5·0	3·5	004	29	5·6	4·9	049	29	4·4	2·9	063	28	5·5	4·4	064
0·3 a.m.s.l.	30	8·3	7·0	042	30	4·7	2·8	262	30	5·5	4·0	006	29	6·8	6·2	062	29	4·6	3·5	060	28	6·2	5·0	065
0·6 „	30	5·8	4·4	048	30	3·4	1·9	324	30	5·6	4·1	024	29	6·7	5·9	064	29	5·2	4·1	058	28	6·6	5·3	063
0·9 „	30	3·9	2·5	066	30	3·3	2·4	005	30	5·1	3·9	035	29	5·9	5·1	064	29	5·6	4·3	056	28	5·8	4·9	060
1·5 „	30	3·6	1·3	071	30	4·2	3·7	028	30	4·3	3·4	066	29	5·7	4·3	060	28	5·5	4·3	053	28	5·7	4·7	052
2·1 „	30	4·7	1·1	123	30	4·9	2·8	030	30	4·1	2·5	091	29	5·3	3·7	059	27	5·4	4·1	048	25	5·5	4·2	054
3·0 „	30	4·1	1·0	329	30	4·5	0·9	345	30	5·0	0·4	295	28	6·2	4·6	065	23	5·3	3·7	047	24	5·1	3·6	053
3·6 „					30	5·5	0·9	270	4	6·0	3·3	220	24	6·3	4·4	060	22	5·9	4·3	047	17	5·2	3·7	055
4·5 „					29	6·6	3·9	281					23	6·7	4·9	053	22	6·1	4·3	046	17	5·2	3·2	050
5·4 „					29	6·6	4·9	283					22	6·3	3·9	047	22	5·1	2·7	027	12	3·6	1·3	360
6·0 „					29	7·9	6·3	286					22	6·3	2·4	035	22	5·8	3·2	024	9	5·6	2·8	343
7·2 „					25	9·8	7·9	274					19	6·2	1·6	324	16	7·1	2·6	303	2	7·7	3·7	319
9·0 „					7	17·4	15·5	265					16	9·6	6·2	256	13	9·7	4·5	265				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	6·6	6·0	024	30	2·7	2·5	054	30	6·2	5·9	040	30	2·5	2·2	051
0·15 a.g. .	30	9·5	9·2	027	29	6·4	6·3	052	30	9·4	9·1	043	28	6.2	5.9	054
0·3 a.m.s.l. .	30	9·0	8·2	034	29	6·7	6·6	051	30	8·8	8·5	047	28	7·0	6·6	057
0·6 ,, .	30	8·2	7·8	048	29	7·5	7·3	053	30	7·8	7·5	052	28	7·3	7·1	063
0·9 ,, .	30	7·5	6·7	062	28	6·8	6·5	056	30	7·4	6·5	053	27	5·9	5·6	062
1·5 ,, .	30	6·2	5·1	074	24	5·9	4·5	056	30	7·5	5·0	049	22	5·7	4·9	043
2·1 ,, .	30	6·1	3·8	083	20	5·7	3·9	069	30	6·3	4·1	051	15	4·3	3·3	050
3·0 ,, .	30	6·2	3·6	070	18	6·1	3·5	052	30	6·8	3·2	055	14	5·5	3·9	044
3·6 ,, .	30	6.7	4.6	058	18	6·1	4·3	046	30	6·9	3·4	049	11	6·7	3·9	034
4·5 ,, .	30	7.3	4.0	050	15	5·9	4·1	048	30	6·4	3·2	042	7	5·9	3·9	024
5·4 ,, .	30	6.4	2.9	047	10	7·0	3·0	055	30	6·5	2·1	037	3	5·8	3·6	051
6·0 ,, .	30	6.5	1.5	027	10	7·1	2·0	022	30	6·0	1·0	050	3	6·7	3·6	043
7·2 ,, .	30	6.4	0.3	288	8	7·4	1·4	259	30	7·5	0·5	218	1	12.0	12.0	055
9.0 ,, .	29	11.0	4.3	253	4	14·1	7·5	218	28	11·6	5·3	262	1	15.0	15.0	105

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

JAGDALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	9·7	6·1	240
12·0	5	5·5	3·4	183
14·1	5	7·7	4·3	205
16·2	4	10·6	5·2	195
18·0	3	7·8	6·1	196
21·0	2	3·7	2·2	152
24·0	1	13·0	13·0	065

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	16·4	13·0	256
12·0	2	10·7	10·5	299

JHARSUGUDA

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	10·0	10·0	230
12·0	1	14·0	14·0	245

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	19	29·0	27·6	262
12·0	9	30·9	28·9	260
14·1	1	33·5	33·5	265

1130 hr.

Ht. in Km.	n	V	v	D
10·5	13	32·5	30·7	268
12·0	9	41·2	38·4	267
14·1	8	37·9	34·4	259
16·2	4	36·6	35·0	254
18·0	3	35·2	34·8	257

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	21	32·4	31·2	261
12·0	12	32·3	31·1	266
14·1	2	28·3	28·1	257

LUCKNOW/AMAUSI

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	36·5	36·2	260

MADRAS/MINAMBAKKAM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	26	10·0	5·3	124
12·0	26	11·5	6·9	133
14·1	22	11·8	7·6	133
16·2	18	6·3	5·5	085
18·0	13	5·7	3·9	103
21·0	2	2·3	2·2	138
24·0	1	3·0	3·0	340

MADRAS/MINAMBAKKAM—*Contd.*

1130 hr.

Ht. in Km.	n	V	v	D
10·5	8	13·4	4·9	068
12·0	8	13·6	7·2	123
14·1	5	10·9	3·9	106
16·2	5	9·7	6·1	103
18·0	5	9·2	7·8	140
21·0	1	12·5	12·5	090

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	29	10·1	3·0	123
12·0	27	12·0	6·9	130
14·1	25	12·8	7·9	130
16·2	17	8·1	5·8	103
18·0	11	8·0	4·9	119
21·0	3	5·7	1·5	302
24·0	1	14·0	14·0	115

MANGALORE/BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10·5	9	8·3	4·3	228
12·0	5	13·8	5·5	218
14·1	2	5·3	3·3	311
16·2	1	14·0	14·0	045
18·0	1	4·5	4·5	115
21·0	1	4·0	4·0	235

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	5·6	2·4	243
12·0	5	9·7	4·3	196
14·1	2	13·3	11·8	121
16·2	2	16·3	16·0	117
18·0	2	10·0	10·0	125
21·0	2	9·0	9·0	130

MINICOY

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	9·3	8·8	093
12·0	2	14·5	13·7	105
14·1	1	4·0	4·0	105
16·2	1	3·0	3·0	045
18·0	1	4·5	4·5	275

1130 hr.

Ht. in Km.	n	V	v	D
10·5	3	11·3	11·1	252
12·0	1	2·0	2·0	020

MINICOY—*Contd.*

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	22	9·6	3·3	119
12·0	20	13·2	5·7	106
14·1	15	10·6	4·9	094
16·2	13	9·9	7·9	092
18·0	12	6·7	0·4	038
21·0	5	6·7	5·2	285
24·0	1	5·5	5·5	100

NAGPUR/SONEGAON

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	29	13·9	12·4	257
12·0	24	16·6	15·3	252
14·1	16	16·6	14·5	244
16·2	5	10·6	10·1	270
18·0	3	7·7	1·7	311
21·0	1	6·0	6·0	080

1130 hr.

Ht. in Km.	n	V	v	D
10·5	11	21·3	20·0	262
12·0	8	19·9	19·2	246
14·1	2	24·3	24·1	258

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	28	15·8	14·0	263
12·0	26	17·7	16·3	247
14·1	23	18·0	15·0	245
16·2	10	11·9	8·7	267
18·0	2	6·7	6·7	235

NEW DELHI/SAFDARJUNG

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	28	32·3	30·1	267
12·0	24	34·2	31·7	265
14·1	19	33·0	31·6	260
16·2	12	24·5	21·9	254
18·0	7	18·4	17·6	258
21·0	3	5·8	5·4	260
24·0	1	6·0	6·0	310
27·0	1	7·0	7·0	310

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	26·2	26·2	275
12·0	1	28·0	28·0	275

NEW DELHI/SAFDARJUNG—*Contd.*

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	27	34·6	33·3	267
12·0	23	33·6	32·1	265
14·1	19	33·4	32·1	263
16·2	16	30·4	29·1	262
18·0	11	18·8	15·2	274
21·0	5	3·7	2·8	262
24·0	3	6·2	5·9	234
27·0	1	6·0	6·0	345

POONA

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	5·0	5·0	250
12·0	1	6·0	6·0	180

1730 hr.

Ht. in Km.	n	V	v	D
10·5	7	17·9	15·4	263
12·0	5	18·5	18·0	257
14·1	3	9·5	7·0	273

PORT BLAIR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	16	8·4	6·2	108
12·0	14	12·2	9·6	113
14·1	10	16·9	14·7	116
16·2	8	11·6	8·9	102
18·0	5	4·6	2·0	089

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	22	6·9	5·2	125
12·0	17	8·2	6·5	132
14·1	12	15·9	12·0	123
16·2	5	16·4	15·8	104
18·0	2	5·7	1·3	075

2330 hr.

Ht. in Km.	n	V	v	D
10·5	2	9·7	9·5	195
12·0	2	14·0	13·8	172
14·1	2	7.5	7·4	165
16·2	1	10·0	10·0	170

RAIPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	2	15·0	14·6	251

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	21·0	21·0	250

SRINAGAR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	20	33·1	31·5	264
12·0	18	36·1	34·6	267
14·1	2	33·3	32·7	276

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	19	33·4	28·1	274
12·0	17	33·5	29·6	274
14·1	3	41·2	41·0	262

TIRUCHCHIRAPPALLI

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	7·0	7·0	170
12·0	1	10·0	10·0	145
14·1	1	8·5	8·5	160

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	11·4	6·7	194
12·0	3	10·5	7·4	219
14·1	1	6·0	6·0	270

TRIVANDRUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	29	10·0	4·9	094
12·0	29	14·8	8·7	099
14·1	25	13·0	9·2	100
16·2	21	8·9	6·6	074
18·0	11	5·7	2·0	093
21·0	4	10·6	7·8	277

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	30	10·9	5·5	107
12·0	30	14·4	8·9	104
14·1	25	13·3	8·6	095
16·2	20	13·0	12·0	082
18·0	9	7·0	1·6	107
21·0	5	6·8	2·2	080
24·0	1	12·0	12·0	295

UDAIPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	11	22·9	21·8	270
12·0	2	18·8	16·9	255
14·1	1	15·5	15·5	255
16·2	1	15·0	15·0	235

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	1730 hr.			
10·5	2	15·5	15·5	283
	AHMADABAD			
	0530 hr.*			
10·5	26	22·7	21·5	263
12·0	25	25·5	24·2	258
14·1	4	23·5	21·9	244
16·2	4	20·6	15·3	252
18·0	3	12·3	9·6	250
	1130 hr.			
10·5	4	15·5	14·7	271
12·0	2	18·7	18·7	270
14·1	1	10·5	10.5	285
16·2	1	6·0	6·0	360
18·0	1	7·0	7·0	305
	1730 hr.*			
10·5	26	25·3	22·9	270
12·0	20	27·1	25·2	268
14·1	10	22·1	19·4	264
16·2	5	18·5	15·1	266
18·0	1	3·5	3·5	320
	ALLAHABAD/ BAMHRAULI			
	0530 hr.*			
10·5	28	31·5	29·8	263
12·0	24	32·5	31·3	254
14·1	15	34·3	32·5	253
16·2	4	26·4	26·1	267
	1130 hr.			
10·5	10	23·9	22·5	264
12·0	4	34·5	33·9	266
14·1	1	20·0	20·0	275
	1730 hr.*			
10·5	28	28·4	27·2	263
12·0	24	31·4	30·4	252
14·1	18	31·5	30·3	255
16·2	4	31·3	30·4	272
18·0	3	16·5	16·0	266
21·0	1	15·0	15·0	285
	AMBALA			
	1130 hr.			
10·5	1	50·0	50·0	270

Ht. in Km.	n	V	v	D
	ANANTAPUR			
	0530 hr.			
10·5	11	9·5	4·8	210
12·0	6	13·1	7·8	327
	ASANSOL			
	1730 hr.			
10·5	3	14·2	14·1	240
12·0	1	7·5	7·5	235
	BAHRAICH			
	1130 hr.			
10·5	5	30·3	29·5	268
12·0	1	31·5	31·5	250
	1730 hr.			
10·5	1	34·0	34·0	290
	BANGALORE			
	0530 hr.@			
10·5	13	8·9	5·1	219
12·0	13	10·9	6·6	184
14·1	11	7·2	3·4	200
16·2	10	9·0	7·1	086
18·0	8	6·1	5·0	090
21·0	1	3·0	3·0	255
	1130 hr.			
10·5	8	9·5	1·9	165
12 0	7	9·0	3·2	170
14·1	5	6·7	4·0	180
16·2	4	4·4	1·7	003
18·0	3	5·2	5·2	103
21·0	1	10·0	10·0	320
	1730 hr.@			
10·5	12	9·5	6·8	228
12·0	11	11·5	9·6	220
14·1	11	9·3	6·0	234
16·2	8	7·9	5·0	110
18·0	5	6·8	6·3	060
21·0	3	3·3	1·1	245
	2320			
10·5	1	4·0	4·0	200
	BEGAMPET			
	0530 hr.			
10·5	3	13·8	11·5	273
12·0	1	25·0	25·0	220

Ht. in Km.	n	V	v	D
	BEGAMPET—*contd.*			
	1730 hr.			
10·5	3	10·2	8·9	254
12·0	1	10·0	10·0	285
	BHOPAL/BAIRAGARH			
	0530 hr.			
10·5	3	26·0	23·5	277
12·0	2	30·8	30·4	254
	1730 hr.			
10·5	1	20·0	20·0	295
	BHUBANESHWAR			
	0530 hr.			
10·5	1	5·5	5·5	270
12·0	1	7·5	7·5	270
	BHUJ/RUDRAMATA			
	0530 hr.			
10·5	1	17·0	17·0	245
	BIKANER			
	0530 hr.			
10·5	1	19·5	19·5	290
	BOMBAY/SANTACRUZ			
	0530 hr.*			
10.5	29	11·5	8·6	244
12·0	27	13·7	10·6	229
14·1	15	14·5	9·7	241
16·2	10	13·8	11·3	234
18·0	5	12·9	8·4	346
	1130 hr.			
10·5	18	15·8	12·1	261
12·0	17	17·6	15·0	246
14·1	7	18·6	16·4	250
16·2	6	13·5	12·2	271
18·0	6	7·5	5·0	288
21·0	3	3·7	3·0	068
	1730 hr.*			
10·5	28	13·5	10·1	242
12·0	27	15·7	12·1	229
14·1	16	14·5	8·9	223
16·2	12	9·1	4·2	234
18·0	4	5·4	1·8	078
21·0	1	5·5	5·5	095

Ht. in Km.	n	V	v	D
	CALCUTTA/DUMDUM			
	0530 hr.*			
10·5	30	17·9	16·3	255
12·0	30	22·3	20·7	249
14·1	29	18·0	16·7	253
16·2	26	13·8	11·7	253
18·0	17	10·9	6·1	270
21·0	2	10·5	6·5	063
	1130 hr.			
10·5	1	37·0	37·0	300
	1730 hr.*			
10·5	29	17·2	15·8	263
12·0	28	17·1	15·7	252
14·1	26	18·2	17·3	256
16·2	25	12·6	10·5	252
18·0	12	9·3	5·9	280
21·0	2	4·5	1·5	295
	DIBRUGARH/ MOHANBARI			
	1130 hr.			
10·5	7	45·1	40·0	267
12 0	7	47·0	37·1	276
14·1	2	47·7	47·7	273
16·2	1	55·0	55·0	265
	1730 hr.			
10·5	1	16·0	16·0	250
	GADAG			
	0530 hr.			
10·5	14	11·8	9·0	254
12·0	13	12·3	10·0	239
14·1	13	9·1	4·8	249
16·2	11	4·5	1·0	090
18·0	9	5·2	3·2	097
21·0	7	4·4	0·7	100
24·0	1	6·0	6·0	110
	1730 hr.			
10·5	17	9·7	5·7	236
12·0	14	13·3	10·7	226
14.1	13	8·5	6·6	216
16·2	10	5·7	2·8	090
18·0	10	4·3	2·7	126
21·0	6	6·1	2·9	110
24·0	2	11·3	6·5	186
27·0	1	33·0	33·0	210

Ht. in Km.	n	V	v	D
	GAUHATI			
	0530 hr.*			
10·5	17	35·2	33·7	251
12·0	15	36·3	34·3	250
14·1	6	30·9	30·3	256
16·2	3	21·5	21·3	258
18·0	1	5·0	5·0	250
21·0	1	5·0	5·0	095
24·0	1	13·5	13·5	030
	1130 hr.			
10·5	3	33·2	33·2	273
12·0	3	35·0	35·0	275
14·1	1	45·5	45·5	260
	1730 hr.*			
10·5	11	32·4	31·5	256
12.0	5	31·4	31·2	269
	GAYA			
	0530 hr.			
10·5	2	31·0	29·8	258
	1730 hr.			
10·5	1	5·5	5·5	230
	GOPALPUR			
	1730 hr.			
10.5	5	8·7	5·4	230
12·0	3	4·0	3·1	145
14·1	2	9·7	9·3	164
	GWALIOR			
	1130 hr.			
10·5	3	25·3	25·3	270
	1730 hr.			
10·5	3	23·5	23·3	262
12·0	1	27·5	27·5	260
	JABALPUR			
	0530 hr.			
10·5	3	14·0	13·5	250
12·0	2	12·7	12·3	234
	1730 hr.			
10·5	1	18.0	18·0	255

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above Mean sea level

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Ht. in Km.	n	V	v	D
	UDAIPUR—*Contd.*			
	1730 hr.			
10·5	2	14·7	14·5	246
12·0	1	20·5	20·5	260
14·1	1	23·0	20·5	240
	VERAVAL			
	1730 hr.			
10·5	5	18·9	17·2	254
12·0	1	16·0	16·0	200
	VIJAYAWADA/GANNAVARAM			
	0530 hr.			
10·5	15	11·2	8·4	224
12·0	13	13·5	10·4	208
14·1	9	8·7	4·6	186
16·2	9	6·8	2·7	108
18·0	7	4·3	1·4	078
21·0	4	7·6	3·4	180
	1730 hr.			
10·5	11	11·1	9·9	226
12·0	7	14·9	13·9	229
14·1	3	3·8	1·9	239
	VISHAKHAPATNAM			
	0530 hr.*			
10·5	29	12·5	6·5	219
12·0	29	13·7	9·1	209
14·1	29	13·9	6·7	227
16·2	18	9·7	3·0	203
18·0	9	8·1	1·3	250
21·0	2	6·5	6·5	060
	1130 hr.			
10·5	4	16·3	11·4	215
12·0	3	25·8	22·4	203
14·1	2	9·3	7·5	168
16·2	2	11·3	6·9	187
18·0	1	7·0	7·0	205
	1730 hr.*			
10·5	28	13·3	8·7	222
12·0	26	16·4	11·8	210
14·1	22	16·3	9·2	225
16·2	17	10·1	3·1	204
18·0	12	12·4	2·2	257
21.0	1	12·5	12·5	050

Ht. in Km.	n	V	v	D
	VISHAKHAPATNAM—*Contd.*			
	2330 hr.			
10·5	1	14·5	14·5	130
12·0	1	21·0	21·0	145
14·1	1	20·0	20·0	150
16·2	1	7·0	7·0	090

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmadabad	Clock type	20th July 1961	00 and 12	Fan type upto 24-2-1963
2	Allahabad/Bamhrauli	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay/Santa Cruz	Fan type	7th September 1954	00 and 12	Clock type upto 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June 1946	00 and 12	
9	Minicoy	Fan type	12th May 1963	00 and 12	
10	Nagpur/Sonegaon	Fan type	1st October 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December 1943	00 and 12	
12	Port Blair	Fan type	4th December 1949	00 and 12	
13	Srinagar	Clock type	1st August 1962	00 and 12	
14	Trivandrum	Fan type	1st July 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours GMT.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mbs.	AHMADABAD Surf. Pr. (1006 mb)						ALLAHABAD/BAMHRAULI (1002 mb)						BANGALORE (910 mb)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	288·9	297	286	280·0	30	098	286·4	291	283	283·0	30	921	290·2	296	284	288·5
1000	30	101	..	..	..	..	30	114	..	..	..	..	30	107	..	..	..	..
900	30	1023	293·8	301	289	273·2	30	1016	288·9	293	285	274·7	30	1011	290·5	296	285	287·5
850	30	1514	290·5	295	286	271·0	30	1495	285·3	291	281	272·2	30	1501	289·5	292	288	282·9
800	30	2030	287·4	292	282	267·0	30	2006	284·3	289	277	268·1	30	2015	287·2	290	235	276·5
700	30	3145	281·1	287	278	261·0	30	3106	278·5	282	274	257·1	30	3135	281·9	285	279	272·4
600	30	4402	274·4	280	269	253·0	30	4349	272·1	278	267	..	30	4398	275·9	287	273	257·6
500	30	5846	265·7	272	260	..	30	5781	263·6	269	259	.	30	5851	267·4	271	263	..
400	28	7556	254·0	260	246	..	30	7474	253·2	260	245	..	30	7567	256·6	261	253	..
300	27	9621	239·3	246	232	..	30	9531	238·3	248	231	..	29	9671	241·6	248	236	..
250	27	10876	230·5	236	224	..	30	10794	229·4	240	222	..	26	10903	231·8	239	227	..
200	27	12353	221·0	225	214	..	30	12265	220·1	228	213	..	27	12411	220·2	226	215	..
175	25	13219	215·4	221	207	..	30	13110	215·2	221	208	..	26	13259	214·3	220	200	..
150	24	14177	209·1	214	200	..	29	14074	209·9	218	202	..	26	14219	208·0	214	200	..
125	21	15263	202·0	207	192	..	26	15204	204·5	209	197	..	24	15297	202·2	208	191	..
100	15	16564	197·4	203	187	..	12	16519	198·4	207	187	..	21	16609	196·3	202	190	..
80	12	17823	196·0	203	192	..	7	17856	199·6	207	193	..	13	17921	197·0	201	187	..
70	11	18590	198·6	203	194	..	7	18646	200·6	210	193	..	11	18690	198·4	205	191	..
60	10	19485	202·8	208	199	..	5	19588	202·2	208	201	..	8	19624	202·4	207	199	..
50	6	20623	209·0	212	205	..	..	..	..	..	..	..	7	20714	203·7	210	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1009 mb)						CALCUTTA/DUM DUM (1012 mb)						GAUHATI (1007 mb)					
Surface	30	013	294·2	298	289	290·3	30	06	291·8	296	287	290·2	30	49	291·1	296	288	290·7
1000	30	090	..	..	..	..	30	105	..	..	..	..	30	114	..	..	..	..
900	30	1013	295·4	299	291	283·1	30	1011	290·0	294	286	283·5	30	1021	291·4	296	286	284·2
850	30	1508	291·9	296	289	280·6	30	1501	287·1	292	283	280·1	30	1508	288·3	293	283	279·2
800	30	2026	287·9	291	285	278·0	30	2012	285·2	290	280	274·1	30	2019	284·9	289	280	275·7
700	30	3145	281·9	285	277	270·2	30	3124	280·8	286	273	263·9	30	3123	278·7	283	273	264·5
600	30	4410	276·1	281	273	263·2	30	4379	274·0	281	267	..	30	4367	272·5	279	265	..
500	30	5864	267·2	271	264	..	30	5748	266·2	271	261	..	30	5806	266·4	272	259	..
400	30	7577	256·1	260	253	..	30	7534	256·0	262	250	..	30	7524	255·5	261	247	..
300	30	9677	240·7	246	235	..	30	9633	241·5	249	235	..	23	9606	241·2	248	235	..
250	30	10938	230·9	236	226	..	30	10899	232·5	240	227	..	20	10875	233·1	239	226	..
200	28	12408	219·7	227	214	..	30	12386	221.8	227	216	..	18	12362	224·3	232	220	..
175	22	13249	214·0	218	209	..	29	13250	215·7	220	207	..	16	13210	219·6	226	211	..
150	20	14208	208·8	215	203	..	28	14234	210·2	217	204	..	11	14169	215·5	221	208	..
125	17	15317	203·9	210	196	..	27	15324	203·5	211	196	..	9	15293	209·2	213	203	..
100	17	16626	199·3	207	191	..	26	16637	197·1	205	187	..	5	16567	204·6	208	200	..
80	14	17939	198·6	209	193	..	22	17904	193·9	202	187		5	17749	211·8	219	207	..
70	13	18696	200·3	205	195	..	20	18683	197·5	207	188	..	5	18585	214·2	219	207	..
60	12	19631	203·5	209	201	..	14	19561	201·8	207	194	..	..	..	..	..	..	..
50	9	20713	208·3	213	203	..	12	20654	208·3	213	201	..	..	..	..	..	..	..
40	6	22076	214·3	217	211	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mbs.	JODHPUR Surf. Pr. (988 mb.)						MADRAS/MINAMBAKKAM (1007 mb.)						NAGPUR/SONEGAON (977 mb).					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	287·7	294	284	275·8	30	15	295·7	298	292	294·7	30	311	288·4	294	283	284·1
1000	29	117	..	..	..	..	30	079	..	..	..	..	30	116	..	..	..	..
900	29	1018	291·8	297	289	269·6	30	993	292·0	295	289	287·7	30	1010	291·4	297	287	282·5
850	29	1505	287·9	293	285	266·1	30	1484	289·3	291	285	284·2	30	1498	288·6	294	284	279·6
800	29	2013	284·7	290	281	264·7	30	2000	287·4	290	281	279·1	30	2011	286·1	291	280	275·5
700	29	3117	278·9	283	273	255·0	30	3119	282·2	285	275	273·2	30	3128	281·7	287	270	..
600	29	4362	272·2	275	267	..	30	4382	275·5	279	267	..	30	4389	275·0	278	271	..
500	29	5823	263·6	269	257	..	30	5835	267·4	272	260	..	30	5836	265·9	271	261	..
400	28	7492	253·2	260	246	..	29	7554	256·7	261	247	..	30	7540	254·8	263	249	..
300	21	9563	238·2	245	230	..	29	9659	241·5	246	235	..	29	9627	239·9	247	233	..
250	20	10808	229·4	231	221	..	29	10924	232·2	237	227	..	29	10885	230·8	240	222	..
200	18	12246	219·7	225	215	..	28	12403	219·6	225	215	..	28	12345	219·6	225	212	..
175	16	13097	215·0	223	210	..	23	13235	213·4	221	210	..	28	13197	213·9	221	209	..
150	13	13961	210·5	217	203	..	23	14169	206·5	215	202	..	28	14151	208·4	216	203	..
125	11	15140	206·4	211	199	..	19	15266	201·6	208	193	..	27	15224	202·1	211	196	..
100	10	16481	201·0	204	194	..	19	16587	196·0	204	192	..	26	16542	197·0	207	190	..
80	7	17768	201·3	205	196	..	13	17844	197·1	206	189	..	18	17874	199·5	207	192	..
70	..	..	..	..	..	..	11	18601	201·8	215	197	..	17	18653	203·4	210	194	..
60	..	..	..	..	..	..	10	19506	204·6	213	199	..	14	19558	207·0	217	199	..
50	..	..	..	..	..	..	9	20614	209·1	221	202	..	12	20659	212·0	219	202	..
40	..	..	..	..	..	..	6	21991	211·0	215	206	..	6	22030	214·2	220	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI/SAFDARJUNG (989 mb.)						PORT BLAIR (999 mb.)						SRINAGAR (844 mb.)					
Surface	30	209	284·9	289	282	282·8	30	79	297·3	299	295	295·7	26	1588	271·1	277	269	..
1000	30	119	..	..	..	..	30	076	..	..	..	..	26	220	..	..	..	..
900	30	1018	290·6	294	287	271·6	30	1002	293·3	296	290	290·3	26	1073	..	..	..	..
850	30	1504	287·0	291	283	268·3	30	1491	290·8	293	287	288·0	26	1514	..	..	..	..
800	30	2013	284·3	289	280	265·7	30	2008	288·1	291	285	284·1	26	2000	275·6	280	272	..
700	30	3115	277·9	284	271	..	30	3130	282·4	286	280	278·5	26	3097	272·5	277	266	..
600	30	4358	271·2	277	262	..	30	4325	275·7	280	271	..	26	4313	265·2	269	261	..
500	30	5788	262·0	268	254	..	30	5851	267·9	271	262	..	26	5704	254·8	259	251	..
400	30	7468	251·3	259	245	..	29	7570	257·5	261	249	..	26	7335	243·7	248	239	..
300	30	9531	237·8	245	230	..	21	9687	243·3	247	237	..	25	9341	231·4	238	225	..
250	30	10774	229·3	239	220	..	18	10972	233·5	237	228	..	22	10558	226·1	233	219	..
200	30	12255	221·3	229	210	..	16	12458	221·3	226	214	..	18	12112	220.3	225	216	.
175	29	13109	216·3	223	208	..	13	13311	214·5	219	207	..	16	12856	218·0	223	214	..
150	29	14074	211·5	219	203	..	12	14272	208·9	213	201	..	13	13841	215·8	221	210	..
125	28	15228	206·1	212	197	..	11	15380	203·4	209	200	..	9	14964	213·2	218	208	..
100	28	16522	200·9	207	193	..	10	16702	199·1	209	194	..	9	16341	210·7	218	208	..
80	23	17811	201·0	207	195	..	..	..	..	..	..	..	5	17749	211·8	219	207	..
70	21	18580	202·8	210	196	..	..	..	..	..	..	..	..	..	..	..	..	..
60	20	19522	207·2	214	198	..	..	..	..	..	..	..	..	..	..	..	..	..
50	17	20616	212·1	218	206	..	..	..	..	..	..	..	..	..	..	..	..	..
40	11	21981	215·3	219	210	..	..	..	..	..	..	..	..	..	..	..	..	..
30	8	23767	219·0	227	216	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mb.	TRIVANDRUM (1002 mb.)						VISHAKHAPATNAM (1006mb)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	064	297.1	299	295	295.4	30	041	297·4	300	293	294·0
1000	30	086	..	..	..	..	30	093	..	..	..	..
900	30	1004	292.6	294	291	289.3	30	1008	291·5	295	288	288·1
850	30	1498	289.7	292	287	286.4	30	1498	289·3	292	285	284·6
800	30	2014	287.7	289	286	282.7	30	2013	288·0	296	285	278·9
700	30	3133	281.9	285	279	275.4	30	3134	282·9	287	279	271·6
600	30	4395	275.0	279	270	..	30	4398	275·5	280	271	..
500	30	5851	267.8	273	263	..	30	5851	266 8	271	263	..
400	30	7567	256.6	263	251	..	30	7564	255·9	259	252	..
300	29	9670	241.1	246	236	..	29	9662	241·8	246	237	..
250	29	10933	231.3	239	227	..	29	10925	231·4	238	227	..
200	29	12408	219.3	227	214	..	29	12403	220·3	225	214	..
175	27	13247	213.5	221	209	..	29	13265	214·2	223	206	..
150	27	14217	206.7	216	201	..	28	14203	207·7	212	199	..
125	23	15269	200.0	207	196	..	25	15278	193·9	211	192	..
100	21	16571	194.9	201	191	..	20	16609	197·3	205	189	..
80	16	17856	199.4	205	192	..	18	17932	197·4	203	188	..
70	16	18641	202.9	209	197	..	17	18713	200·2	207	192	..
60	10	19558	206.4	212	201	..	15	19639	204·2	215	197	..
50	9	20679	211.3	217	207	..	14	20670	207·6	213	200	..
40	5	21100	216·2	220	213	..	6	2,977	211·2	215	205	..
30												
20												
10												

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1005 mb.)						ALLAHABAD/BAMHRAULI (1001 mb.)						BANGALORE (908 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	304.0	311	298	282.1	30	098	300.3	304	298	284.5	30	921	296.4	299	289	288.9
1000	30	098	..	..	..	..	30	105	..	..	..	..	30	077	..	..	..	..
900	30	1031	296.1	301	290	275.6	30	1024	292.7	297	289	275.9	30	1000	296.1	298	288	288.0
850	30	1525	291.7	297	285	272.6	30	1512	291.8	295	284	271.8	30	1495	292.1	295	286	284·5
800	30	2043	288.4	294	283	268.6	30	2023	285.4	292	281	265.9	30	2013	288.0	291	285	282.4
700	30	3162	282.5	285	279	259.8	30	3134	281.0	286	274	253.0	30	3135	283.1	286	280	273.6
600	30	4426	275.4	278	269	..	30	4390	273.9	279	273	..	30	4402	276.3	279	274	267.4
500	30	5879	266.9	271	262	..	30	5831	265.4	271	260	..	30	5860	268.1	273	265	..
400	30	7587	255.7	262	251	..	30	7529	254.9	262	247	..	30	7584	257.3	261	253	..
300	29	9682	241.3	251	235	..	30	9618	240.1	250	233	..	28	9692	242.7	247	239	..
250	29	10949	232.1	239	225	..	30	10811	231.4	241	225	..	28	10964	232.9	238	228	..
200	27	12437	221.4	227	216	..	29	12355	222.0	231	214	..	25	12440	221.2	226	216	..
175	23	13285	216.1	221	210	..	29	13215	217.4	226	212	..	22	13219	215.1	220	210	..
150	21	14249	211·2	218	203	..	29	14192	212.4	221	208	..	21	14260	208.0	213	202	..
125	17	16679	199·3	205	189	..	27	15293	206.6	212	199	..	18	15330	202.7	209	198	..
100	12	18000	198·0	204	190	..	20	16638	201.9	206	196	..	14	16662	196.7	201	192	..
80	11	18768	200·0	210	194	..	12	17947	202.1	211	195	..	10	17978	197.2	200	195	..
70	8	19636	202·6	208	195	..	8	18666	203.1	209	197	..	10	18751	200.6	205	196	..
60	6	20769	207·0	218	201	..	6	19591	205.3	214	200	..	5	19681	204.0	207	202	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1008 mb.)						CALCUTTA/DUMDUM (1010 mb.)						GAUHATI (1005 mb.)					
Surface	30	013	302.4	305	300	292.6	30	6	298.9	303	295	291.7	30	049	297.2	301	295	294.4
1000	30	084	..	..	..	..	30	094	..	..	..	..	30	090	..	..	..	..
900	30	1012	296.1	299	293	284.3	30	1016	292.9	296	290	283.2	30	1007	292·7	296	289	286·0
850	30	1508	292.3	296	288	281.8	30	1506	289.7	293	287	277.5	30	1464	289·5	294	286	279·6
800	30	2026	288.9	295	285	288.9	30	2021	287.6	292	282	271.4	30	2011	286.2	289	282	275.7
700	30	3148	283.2	287	277	268.1	30	3141	282.5	286	278	263.7	30	3119	278.9	284	273	266.0
600	30	4414	276.1	279	273	262.2	30	4404	275.5	280	271	..	30	4364	272.4	278	267	..
500	30	5869	267.7	271	265	..	30	5857	267.5	273	262	..	30	5807	266.2	273	260	..
400	30	7585	256.2	260	252	..	30	7574	256.9	262	251	..	29	7515	255.5	262	248	..
300	29	9687	241·2	246	236	..	29	9682	242.6	247	237	..	23	9595	240.4	248	237	..
250	28	10951	231.2	236	227	..	28	10958	233.2	238	226	..	20	10840	232.3	237	228	..
200	27	12424	219.6	223	214	..	27	12454	222.4	227	217	..	18	12311	221.5	227	212	..
175	20	13265	213.9	218	209	..	26	13315	216.4	222	211	..	16	13179	216.9	223	209	..
150	19	14219	209.2	215	203	..	26	14281	209.9	216	204	..	11	14157	212.2	218	203	..
125	17	15331	203.4	208	198	..	25	15376	202.5	212	195	..	6	15295	207.0	212	197	..
100	17	16649	197.6	202	192	..	25	16682	195.7	206	185	..	..	..	..	..	..	..
80	14	17916	197.4	205	191	..	13	17966	193·4	201	185	..	..	..	..	..	..	..
70	11	18720	199.8	209	194	..	12	18716	196·2	203	193	..	..	..	..	..	..	..
60	8	19657	205.9	215	198	..	10	19651	201·4	205	195	..	..	..	..	..	..	..
50	5	20749	208·4	213	203	..	8	20765	208.5	212	204	..	..	..	..	..	..	..
40	..	..	..	..	..	..	6	22174	214·7	219	212	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(B) From Ascents at 12 Hours G.M.T.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (987 mb.)						MADRAS/MINAMBAKKAM (1007 mb.)						MINICOY (1010 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	301·7	309	295	280·0	30	15	299·5	302	295	294·7	30	002	299·7	301	297	295·5
1000	29	101	..	..	..	..	29	077	..	..	..	..	30	089	..	..	..	..
900	29	1024	295·2	306	290	270·4	29	997	293·0	297	289	289·4	30	1011	292·3	295	288	288·1
850	29	1514	290·5	297	286	264·7	29	1489	290·5	295	286	284·6	30	1502	290·3	293	288	283·3
800	29	2026	286·5	292	281	264·0	29	2007	288·4	291	285	280·8	30	2018	287·6	291	285	279·5
700	29	3134	280·2	284	275	248·9	29	3130	283·3	289	280	275·0	30	3137	282·0	285	279	272·0
600	29	4384	273·5	277	269	..	29	4399	276·4	280	271	269·2	30	4397	275·0	277	272	..
500	29	5823	264·7	270	258	..	29	5855	268·2	271	263	..	30	5846	267·1	271	262	..
400	29	7521	254·0	261	248	..	29	7577	257·3	261	254	..	30	7555	256·1	262	252	..
300	25	9601	239·0	244	233	..	29	9684	241·4	247	236	..	27	9647	240·0	245	233	..
250	22	10844	230·5	237	223	..	29	10949	232·0	238	227	..	24	10899	229·7	233	223	..
200	19	12305	221·0	225	214	..	27	12422	220·0	225	214	..	22	12364	218·1	221	213	..
175	16	13143	216·5	225	211	..	25	13252	214·4	220	209	..	20	13196	212·2	217	207	..
150	12	14084	212·3	218	206	..	25	14226	207·2	215	203	..	17	14159	205·2	211	199	..
125	8	15236	209·2	214	203	..	20	15283	200·3	204	192	..	15	15218	199·3	205	194	..
100	..	..	..	..	..	..	20	16593	195·0	199	190	..	15	16517	194·6	201	189	..
80	..	..	..	..	..	..	14	17931	196·4	202	191	..	14	17798	198·5	206	191	..
70	..	..	..	..	..	..	11	18705	199·9	214	192	..	10	18549	202·4	209	197	..
60	..	..	..	..	..	..	5	19621	203·3	209	197	..	8	19441	204·5	206	199	..
50	..	..	..	..	..	..	5	20703	206·6	211	203	..	5	20489	206·8	208	203	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NAGPUR/SONEGAON (976 mb.)						NEW DELHI/SAFDARJUNG (988 mb.)						PORT BLAIR (999 mb.)					
Surface	30	311	299·2	303	289	285·1	30	209	296·9	301	291	288·3	30	079	298·3	300	297	296·2
1000	30	093	..	..	..	..	30	105	..	..	..	..	29	074	..	..	..	..
900	30	1016	293·6	296	289	283·0	30	1020	291·9	297	287	276·3	29	994	293·8	297	289	290·1
850	30	1508	289·0	295	287	281·0	30	1508	288·9	295	284	270·9	29	1486	290·2	294	285	287·3
800	30	2022	286·6	291	283	275·7	30	2023	285·4	292	278	266·3	29	2002	287·2	290	285	283·7
700	30	3141	282·6	287	279	268·5	30	3126	278·7	285	271	..	29	3122	282·1	285	279	277·7
600	30	4405	275·8	279	272	..	30	4350	271·6	277	264	..	29	4384	274·9	279	271	..
500	30	5854	266·5	272	263	..	30	5799	262·1	268	256	..	29	5835	267·0	271	262	..
400	30	7547	255·2	260	249	..	30	7480	251·6	260	245	..	29	7551	256·0	259	251	..
300	30	9646	239·7	246	235	..	30	9543	237·9	247	230	..	27	9649	241·2	245	238	..
250	30	10903	230·4	236	227	..	30	10799	229·5	239	217	..	24	10937	236·6	245	227	..
200	30	12378	219·0	224	215	..	30	12271	221·3	229	214	..	21	12389	219·1	224	214	..
175	30	13226	213·9	219	209	..	30	13129	217·0	228	210	..	18	13245	212.7	219	210	..
150	30	14181	208·7	219	203	..	30	14096	212.7	223	204	..	14	14233	205.2	212	201	..
125	29	15263	202·5	212	195	..	29	15219	207·0	218	197	..	10	15266	197.3	200	195	..
100	29	16585	197·8	206	189	..	29	16558	202·4	211	193	..	5	16570	196.0	199	193	..
80	28	17901	198·3	212	192	..	28	17879	202.1	207	195	..	..	..	..	..	..	..
70	26	18649	199·9	212	193	..	28	18644	204.7	211	199	..	..	..	..	..	..	..
60	22	19568	202·6	209	195	..	23	19616	208.5	215	202	..	..	..	..	..	..	..
50	20	20622	206·3	215	196	..	18	20743	212.4	220	205	..	..	..	..	..	..	..
40	13	22059	210·3	219	201	..	14	22157	215·0	222	207	..	..	..	..	..	..	..
30	..	..	..	..	..	..	13	23985	218·5	223	212	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours GMT.

November, 1964 (Kartika 10—Agrahayana 9, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pt. (842 mb.)						TRIVANDRUM (1002 mb.)						VISHAKHAPATNAM (1005 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	23	1588	287·5	290	284	274·3	30	064	300·4	302	297	296·2	30	041	300.0	303	297	295.9
1000	23	119	..	..	..	..	30	078	..	..	..	..	30	087	..	..	..	..
900	23	1026	..	..	..	..	30	1002	293·0	296	291	289·6	30	1007	293.0	298	389	289.0
850	23	1511	..	..	..	..	30	1494	290·0	293	285	286·7	30	1498	290.7	296	287	285.8
800	23	2012	283·5	287	280	268·5	30	2009	287·4	291	282	282·3	30	2015	288.4	294	285	280.9
700	23	3119	276·3	281	271	..	30	3127	281·2	285	275	274·6	30	3137	283.4	289	279	272.9
600	23	4348	267·1	272	262	..	30	4387	274·6	279	270	..	30	4405	276.5	383	272	..
500	23	5747	256·4	263	251	..	30	5837	267·1	273	263	..	30	5864	267.7	274	264	..
400	22	7390	244·9	249	239	..	30	7562	256·3	262	251	..	30	7582	256.9	263	252	..
300	22	9399	231·9	238	226	..	30	9655	241·3	247	236	..	29	9679	241.3	250	233	..
250	21	10624	225·9	232	219	..	30	10917	231·7	239	227	..	27	10940	231.6	242	222	..
200	21	12083	220·0	227	217	..	30	12395	220·0	227	215	..	26	12414	219.8	226	213	..
175	20	12931	217·7	225	213	..	26	13237	213·2	223	204	..	25	13240	213.8	220	210	..
150	20	13904	214·1	225	207	..	26	14193	207·1	217	202	..	25	14212	208.0	216	202	..
125	16	15033	212·4	223	206	..	25	15264	201·4	209	193	..	24	15278	201.6	208	194	..
100	11	16401	210·1	217	207	..	21	16568	195·7	205	188	..	21	16612	197.3	204	189	..
80	11	17696	210·2	216	206	..	13	17893	199·6	210	192	..	18	17911	196.6	202	192	..
70	9	18616	211·3	216	209	..	9	18651	200·3	205	194	..	14	18697	200.0	207	191	..
60	8	19550	213·7	217	210	..	7	19585	206·3	209	203	..	10	19585	202.6	208	194	..
50	6	20723	216·0	218	213	..	7	20693	208·6	215	204	..	8	20648	206.3	213	199	..
40																		
30																		
20																		
10																		

NOTE.—Number of observations refer to those of dynamic height.

Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273° A.

Means are not worked out for less than five observations at standard pressure surfaces.

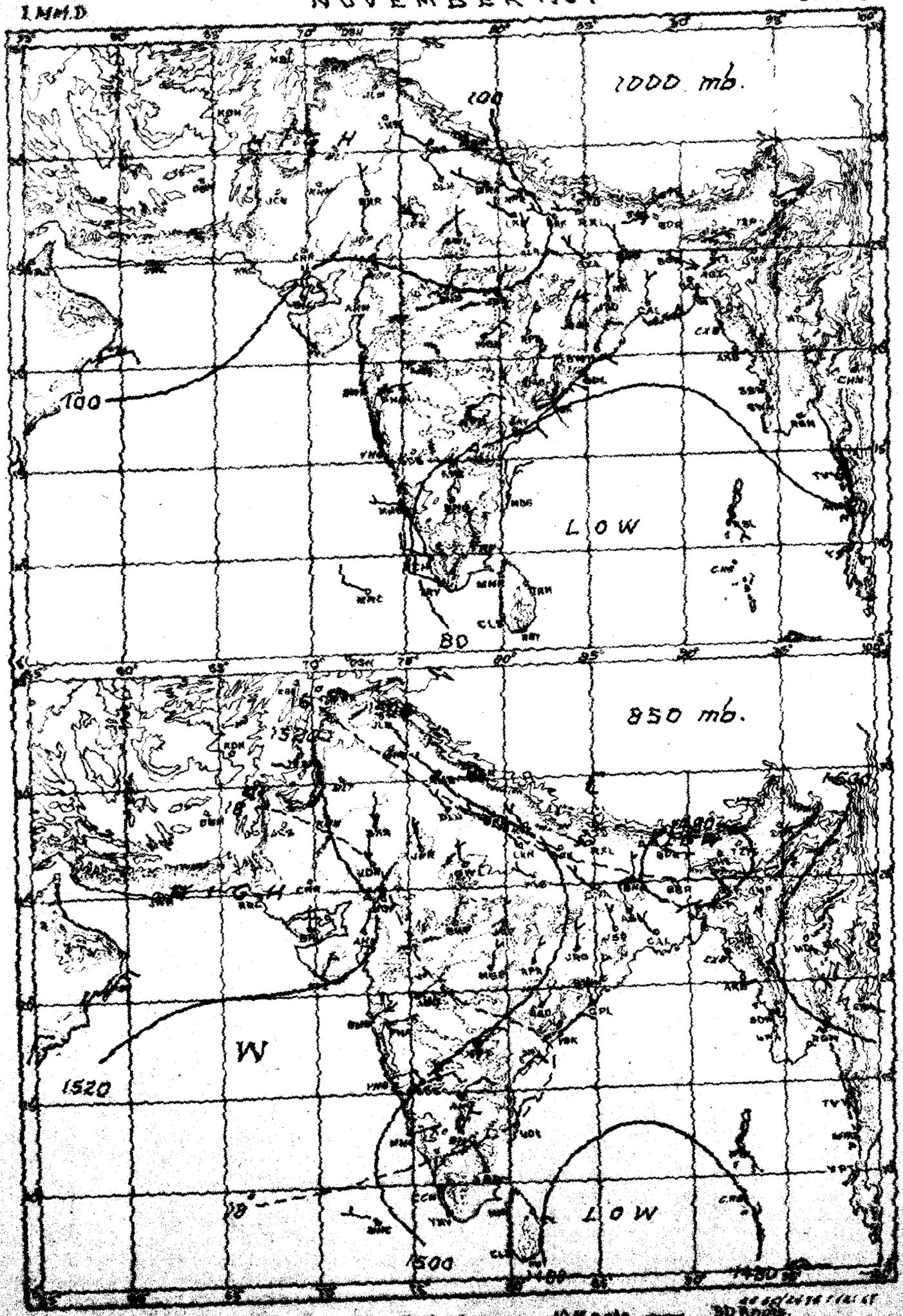
GIPN—82—2 D.D.G.Obs. P/68—4-10-68—200

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER 1964

Plate I

I.M.D.

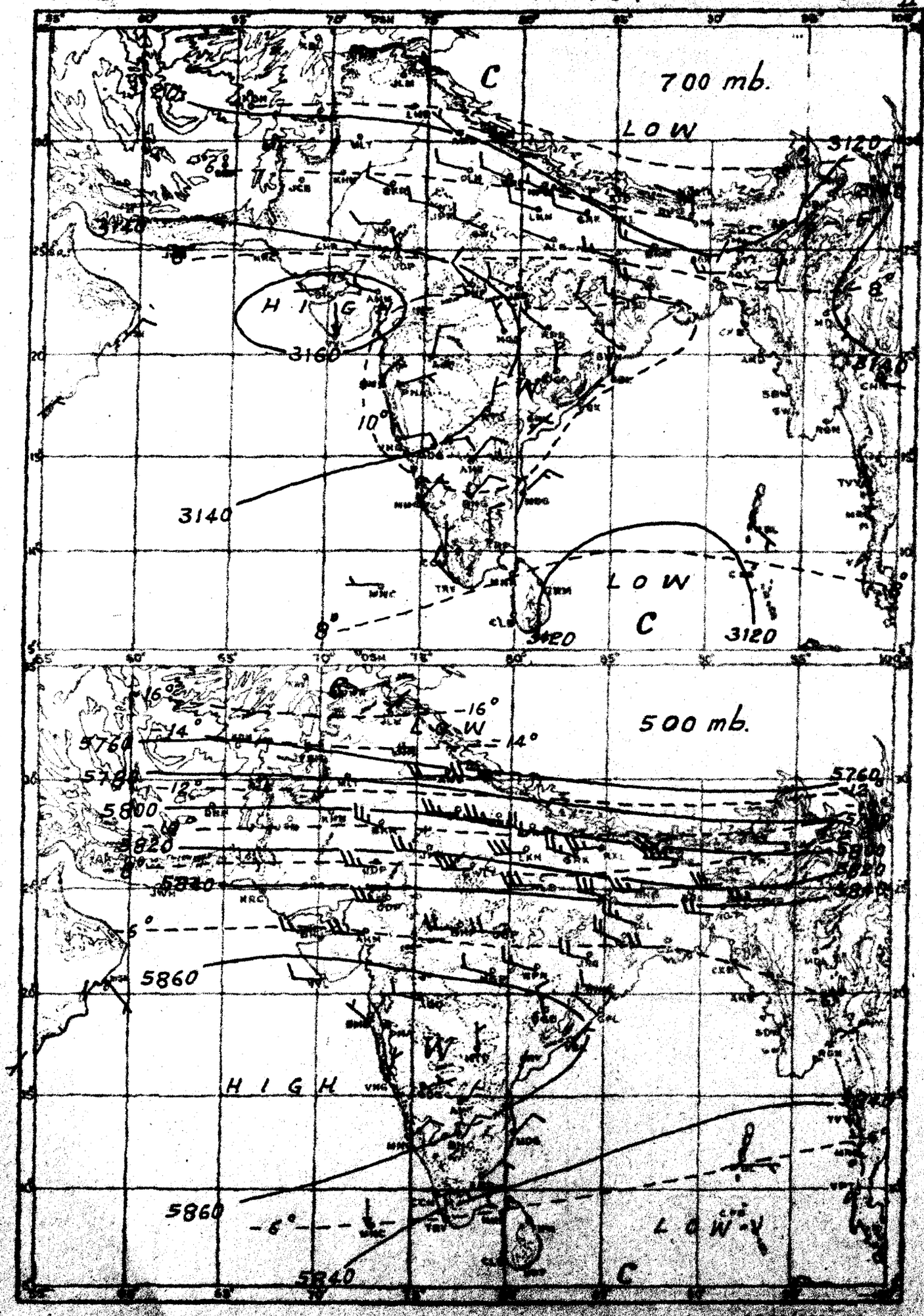


RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 30 Knots.

- - - - Isotherms in degrees centigrade —— Contours in geopotential metres

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. NOVEMBER 1964 Plate II



RESULTANT WIND —— 5 Knots —— 10 Knots —— 20 Knots

Registered No. MH-75

INDIA WEATHER REVIEW, 1964

Monthly Weather Report

DECEMBER

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f features :

(i) Movement of three western disturbances across northwest India, one of them developing into a depression ing the second week;

(ii) Formation and movement of a severe cyclonic storm in the Bay of Bengal causing serious damage and loss e in Rameswaram Island; and

(iii) Moderate to severe cold wave conditions in most parts of north India.

The western disturbance which was lying over west Rajasthan and the adjoining Punjab (I) on 30th November d away northeastwards across the Western Himalayas by 1st December. It caused a few falls of rain or snow in Punjab (I) and Jammu and Kashmir on 1st. A fresh western disturbance lay as an upper air trough on 1st over chistan. Moving slightly eastwards, it persisted over West Pakistan from 2nd to 5th and later moved away northwards across Jammu and Kashmir. Under its influence, the Western Himalayas received precipitation on 3rd 4th.

nother fairly active western disturbance moved into West Pakistan on 9th. Moving slowly eastwards it intensi- nto a depression by the next day. It, however, weakened on 12th and moved away eastwards across Western layas by 13th. Under its influence there was a spell of good precipitation over northwest India and Uttar Pradesh g the second week. Srinagar recorded 10 cm of rain and Dalhousie 4 cm on 11th and Dharamsala 4 cm on According to press reports, the heavy snowfall in Kashmir led to the suspension of the air service between u and Srinagar for nearly 12 days from the beginning of the second week, besides disrupting telephone electrical channels.

No western disturbances affected northwest India during the second fortnight and dry weather prevailed during the period.

Two spells of rain or thundershowers occurred in Assam during the first week and in the middle of second week respectively. Otherwise the weather over northeast India was mainly dry.

A low pressure wave from the east moved into the south Andaman Sea on 1st. It moved away west- s accross the Maldive area by 5th. In association with it a few showers occurred in the extreme south insula during the first week. Otherwise weather remained mainly dry over the Peninsula during the first ee weeks.

Another low pressure wave from the east moved into the south Andaman Sea on 15th. Moving west- rds it intensified and concentrated into a depression over the extreme southeast Bay of Bengal and adjoining h Andaman area by the morning of 17th when it lay centred near Lat. 5°N and Long. 93°E. It remained rly stationary for the next two days but intensified into a deep depression by 19th. Moving slightly west- rds it further intensified into a severe cyclonic storm of small extent with a core of hurricane winds by the ng of 20th with centre near Lat. 5°N and Long. 91°E. It took a westnorthwesterly course and was tred near Lat. 7°N and Long. 84°E. on the morning of 22nd. Thereafter it moved rapidly northwestwards l lay centred near Lat. 9°N and Long. 82°E in the evening of 22nd. It again changed its course to a tnorthwesterly direction and moving across the Palk Strait crossed the Madras coast near Tondi on the rnoon of 23rd. It weakened into a cyclonic storm by the evening of 23rd and emerging into the southeast bian Sea off Kerala coast as a depression on the morning of 24th moved away westwards as a low pressure a by 27th. Under its influence, fairly widespread rainfall occurred in the Bay Islands during the third week l in the south Peninsula during the fourth week. Some of the noteworthy amounts of rainfall recorded were ndul 10 cm on 16th and 8 cm on 17th, Nancowry 8 cm on 18th, Vedaranyam 10 cm and Tondi 8 cm on 23rd. durai 23 cm, Kodaikanal 19 cm, Ootacamund 11 cm, Kallakuruchi 9 cm, Coonoor 8 cm and Nagapattinam 7 cm 24th and Tondi 8 cm on 25th. The cyclone and tidal waves associated with it swept off Dhanushkodi and er places in Rameswaram Island on the night of 22nd-23rd. The estimated death toll was over 900 including e, passengers in an entire train that was caught up in the raging waters which was travelling from Rameswaram hanushkodi. The railway bridge between Mandpam and Pamban was also washed off by the tidal waters and mmunication between Dhanushkodi and the Mainland was completely cut off.

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Night temperatures were appreciably to markedly above normal over northwest India and Uttar Pradesh, till 5th. Later they were above normal till 11th over the other parts of north India and over central parts of the country. They were below normal over northwest India from 6th and in the wake of the western depression mentioned earlier, a moderate to severe cold wave began to affect west Rajasthan and Gujarat State on 11th. The cold wave spread to the other parts of north and central India where it persisted till 18th. The minimum temperatures in the Punjab (I) were as much as 11°C to 13°C below normal on 12th and sub-freezing temperatures were reported from a few places in northwest India. Anupgarh in northwest Rajasthan recorded the lowest minimum temperature of minus 3·0°C on 14th. According to press reports, a number of persons died due to the cold wave in the Punjab (I), Uttar Pradesh and Gujarat State. In Rajasthan hundreds of cattle were also reported to have perished and standing crops damaged. The night temperatures were generally above normal during the last week over northwest India, most parts of northeast India and the Peninsula but were below normal in the central parts of the country.

The total rainfall during the month was in large excess in east Uttar Pradesh and coastal Mysore, in moderate excess in Assam and normal in west Uttar Pradesh and the Punjab (I). It was in slight defect in Jammu and Kashmir and north interior Mysore, in moderate defect in Madhya Maharashtra, Rayalaseema and the Madras State and in large defect in the Bay Islands, west Rajasthan, west Madhya Pradesh, coastal Andhra Pradesh south Interior Mysore, Kerala and the Arabian Sea Islands. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands and Bihar Plains and below normal in Jammu and Kashmir. It was normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in west Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Punjab(I) and the Arabian Sea Islands and below normal in Gujarat State and Marathwada. It was normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Assam, Sub-Himalayan West Bengal, Bihar Plains, east Uttar Pradesh, Jammu and Kashmir, east Rajasthan, Madhya Pradesh, Gujarat State, the Konkan, Madhya Mahrashtra and Vidarbha and below normal in Gangetic West Bengal and Andhra Pradesh. It was normal over the rest of the country outside the Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

The highest maximum temperature given for any station in the accompanying tables is that recorded within the 24 hours ending at 0830 hrs. I. S. T. of the date noted in the succeeding column similarly the heaviest rainfall in 24 hours for any station denotes the amount recorded during the 24 hours ending at 0830 hrs. I. S. T. of the date given in the succeeding column.

Poona 5;
The 20th September, 1966.

R. ANANTHAKRISHNAN,
for *Director General of Observatories.*

TABLE I — DIVISIONAL AND SUB-DIVISIONAL MEANS—DECEMBER, 1964 (AGRAHAYANA 10—PAUSA 10, 1886 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C.	Relative Humidity % 08 IST.	Relative Humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur & Tripura)	12·9	137	23·9	11·4	86	75	2·9	2·4
	+3·5		0	+1·0	0		+0·5	
2. West Bengal	0	0	26·6	13·2	72	61	1·0	1·2
	−3·6		+0·8	+0·6	−1		−0·2	
3. Orissa	0	0	28·1	13·6	67	53	1·3	1·3
	−4·8		+1·0	−0·6	−5		−0·2	
4. Bihar	0	0	25·4	10·5	73	59	1·3	1·3
	−4·4		+1·0	+0·2	−1		+0·2	
5. Uttar Pradesh	12·1	132	23·8	8·7	78	60	1·4	1·5
	+2·9		+0·1	+0·3	+3		+0·1	
6. Punjab (I) Including Delhi*	15·0	92	21·7	6·5	80	59	2·3	2·1
	−1·3		−0·5	0	+7		+0·2	
7. Jammu and Kashmir	44·5	83	6·0	−2·5	75	67	5·9	4·8
	−9·0		−4·3	+0·1	+5		+1·1	
Sub-Division								
1. Bay Islands	23·9	12	29·9	22·2	70	76	4·2	4·4
	−177·3		+1·2	−0·5	−1		0	
2. Assam (Including Manipur, Tripura).	12·9	137	23·9	11·4	86	75	2·9	2·4
	+3·5		0	+1·0	0		+0·5	
3. Sub-Himalayan West Bengal	0	0	25·3	11·7	80	65	1·6	1·7
	−2·8		+0·3	+0·6	+2		+0·5	
4. Gangetic, West Bengal	0	0	27·0	13·7	70	59	0·9	1·1
	−3·8		+0·9	+0·5	−1		−0·4	
5. Orissa	0	0	28·1	13·6	67	53	1·3	1·3
	−4·8		+1·0	−0·6	−5		−0·2	
6. Bihar Plateau	0	0	25·4	10·4	67	54	1·2	1·0
	−5·6		+0·9	+0·3	−2		−0·1	
7. Bihar Plains	0	0	25·4	10·5	77	63	1·4	1·5
	−3·7		+1·1	+0·1	0		+0·4	
8. Uttar Prodesh, East.	11·8	176	24·4	9·2	79	58	1·4	1·5
	+5·1		−0·3	+0·5	+3		+0·3	
9. Uttar Pradesh West	12·5	95	22·9	7·8	75	64	1·5	1·7
	−0·6		−0·1	0	+2		−0·1	
10. Punjab (India) (Including Delhi).	15·0	92	21·7	6·5	80	59	2·3	2·1
	−1·3		−0·5	0	+7		+0·2	
11. Himachal Pradesh	21·5	..	23·3	5·3	85	63	3·5	1·7
	..		...	..	..		..	
12. Jammu and Kashmir	44·5	83	6·0	−2·5	75	67	5·9	4·8
	−9·0		−4·3	+0·1	+5		+1·1	
13. Rajasthan East	0	0	26·3	9·1	59	33	1·6	2·0
	−5·1		+0·8	−0·6	+1		+0·3	
14. Rajasthan West	0·5	10	25·0	7·7	60	34	1·6	1·9
	−4·3		−0·3	−1·1	0		−0·1	

	Rainfall (milimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C.	Relative humidity % 0830 hrs. IST.	Relative humidity % 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*Contd*								
8. Rajasthan	0·3	6	25·7	8·3	59	33	1·6	1·9
	−4·7		+0·3	−0·8	+1		+0·1	
9. Madhya Pradesh	0·5	8	26·6	9·6	63	40	2·1	2·3
	−6·1		+0·6	−0·3	−3		+0·6	
10. Gujarat State	0	0	29·4	13·1	50	34	1·9	2·8
	−1·3		0	−0·6	−8		+0·6	
11. Maharashtra State	1·1	22	29·4	14·1	60	40	2·2	2·6
	−3·8		+0·1	−0·6	−2		+0·7	
12. Andra Pradesh	4·7	34	28·9	16·3	74	53	1·8	2·1
	−9·0		+0·1	−0·6	+2		−0·6	
13. Madras State	77·5	70	28·9	20·9	78	66	3·8	4·1
	−33·4		+0·1	−0·1	−3		−0·1	
14. Mysore	8·4	100	28·6	16·1	71	46	2·3	2·5
	0		−0·3	−0·4	+4		−0·1	
15. Kerala	5·3	12	31·0	21·9	75	65	3·0	3·5
	−39·0		+0·2	−0·7	−2		−0·2	
Sub-division (*Contd*)								
15. Madhya Pradesh West.	1·0	14	26·9	9·4	57	35	2·2	2·5
	−6·3		+0·8	−0·4	−5		+0·7	
16. Madhya Pradesh East.	0	0	26·3	9·8	70	47	1·9	2·0
	−5·7		+0·5	−0·2	−1		+0·4	
17. Gujarat Region	0	0	31·2	12·9	53	29	1·7	2·3
	−0·9		+0·5	−0·1	−10		+0·5	
18. Saurashtra and Kutch	0	0	28·2	13·2	49	36	2·1	3·1
	−1·5		−0·3	−0·9	−7		+0·6	
19. Konkan	0	0	30·1	19·0	68	64	2·3	2·4
	−2·1		−0·5	−0·2	−1		+0·6	
20. Madhya Maharashtra	3·2	59	29·7	11·7	59	33	2·5	2·9
	−2·2		+0·2	−1·0	−1		+1·0	
21. Marathwada	0	0	29·5	12·5	49	28	1·9	2·3
	−5·9		+0·5	−0·5	−7		+0·2	
22. Vidarbha	0	0	28·6	12·9	57	33	2·0	2·6
	−6·9		+0·2	−0·5	−5		+0·4	
23. Coastal Andhra Pradesh	7·2	35	28·6	17·9	77	61	2·1	2·3
	−13·3		+0·2	−0·6	+2		−0·6	
24. Telangana	0	0	29·1	13·6	71	44	1·5	1·7
	−5·9		+0·2	−0·8	+1		−0·6	
25. Rayalaseema	6·8	62	29·2	16·9	75	51	1·6	2·0
	−4·2		−0·5	−0·4	+2		−0·8	
26 Madras State	77·5	70	28·9	20·9	78	66	3·8	4·1
	−33·4		+0·1	−0·1	−3		−0·1	
27. Coastal Mysore	25·0	325	32·3	20·3	71	66	2·2	2·6
	+17·3		+0·1	−0·4	+5		−0·3	
28. Interior Mysore, North	4·9	77	28·5	15·4	65	38	2·1	2·7
	−1·5		−0·4	−0·2	+3		+0·3	
29. Interior Mysore, South	4·4	42	27·1	14·9	77	43	2·5	2·2
	−6·0		−0·5	−0·4	+3		−0·5	
30. Kerala	5·3	12	31·0	21·9	75	65	3·0	3·5
	−39·0		+0·2	−0·7	−2		−0·2	
31. Arabian Sea Islands	24·1	39	30·9	22·5	79	67	3·0	4·4
	−37·7		+0·7	−0·8	+7		−0·1	

The entries in the second line for each division and sub-division indicate departures from normal.

* Data of Himachal Pradesh not included.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squa
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28.5	..	30·1	1	23·2	..	20·0	27	12·0	43·0	..	39·0	2	2	..	16·5	11·6	..	0	3	0	0	1	0	0	0	0	0	0
Long Island	28.9	..	29·7	7	22·3	..	19·0	27	32·4	73·5	..	32·2	29	5	..	5·9	4·5	..	0	5	0	0	0	0	0	0	0	0	0
Port Blair	29.9	+1·2	30·8	15	22·2	−0·5	18·2	27	14·3	23·9	−17·3	7·4	19	3	−4·2	9·8	8·5	−6·1	0	8	0	0	0	2	0	0	0	0	0
Car Nicobar	29.1	..	30·3	2	24·0	..	19·6	3	39·2	118·5	..	24·1	21	7	..	8·9	7·4	..	0	8	0	0	0	0	0	0	0	0	0
Nancory	30.1	..	32·4	14	23·8	..	22·3	8,17	97·5	331·0	..	80·0	18	13	..	1·3	1·0	..	0	14	0	0	5	0	0	0	0	0	0
Kondul	27.1	..	28·1	1,14	23·9	..	22·2	2,17	209·6	464·2	..	96·0	16	17	..	..	..	..	0	17	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	22·7	..	25·2	3	11·8	..	9·4	30	38·1	71·9	..	23·0	14	5	..	7·4	12·4	..	0	6	0	1	1	0	0	0	0	0	0
Dibrugarh (Mohanbar)	22·9	+0·2	26·1	4	8·6	−0·3	3·5	31	4·8	47·3	+31·3	13·9	6	6	+4·6	3·6	2·1	+0·4	0	8	0	0	2	10	0	0	0	0	0
Digboi	23.6	..	28·7	6	11·4	..	6·3	31	3·9	18·7	..	7·7	9	4	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
North Lakhimpur	2 ·2	−1·0	27·0	4	9·4	+0·1	5·0	20,31	3·3	46·4	+14·2	24·6	8	4	+0·7	4·4	2·5	..	0	5	0	0	1	9	0	0	0	0	0
Sibsagar	2 ·	+1·2	27·3	3	11·8	+1·3	7.5	31	1·5	33·1	+18·4	25·2	8	2	+0·5	2·7	2·1	+0·5	0	5	0	0	0	25	0	0	0	0	0
Gohpur	22 4	..	24·9	4	10·7	..	6·2	31	0	8·8	..	4·4	8	2	..	3·7	2·6	..	0	3	0	0	0	21	0	0	0	0	0
Majbat	24 0	..	27·5	3	10·5	..	3·2	26	0	0	..	0	..	0	..	4·4	2·4	..	0	0	0	0	0	2	0	0	0	0	0
Jorhat (Aerodrome)	23 8	..	27·7	4,5	11·5	..	7·2	19	1·3	14·7	..	8·9	25	3	..	..	..	..	0	4	0	0	0	22	0	0	0	0	0
Tangla	25 9	..	29·5	1	11·1	..	6·7	18	0	0	..	0	..	0	..	1·1	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Tezpur	24 1	+0·1	27·5	4	13·4	+1·1	10·1	16,31	0	2·6	−3·7	2·6	25	1	+0·3	3·0	3·3	+1·0	0	1	0	0	0	0	0	0	0	0	0
Golaghat	24 2	..	27·6	5	12·6	..	7·4	29	0	33·6	..	21.4	4	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Rangia	25 3	..	29·2	5	11·8	..	7·5	15,21	0	4·2	..	4·2	5	1	..	(a) 5·7	3·9	..	0	1	0	0	0	1	0	0	0	0	0
Chaparmukh	25 4	..	..	..	12·7	..	..	..	(l) 0	(n) 9·2	..	..	..	..	..	(m) 3·4	(n) 3·0	..	..	..	0	0	0	0	0	0	0	0	0
Goalpara	26 4	..	28·1	5	10·9	..	4·9	15	0	0	..	0	..	0	..	4·0	1·9	..	0	0	0	0	0	0	0	0	0	0	0
Gauhati (R)																													
Gauhati (Bhorjor)	24·4	+0·6	27·2	5	11·7	+2·0	8·0	15	0	0·2	−3·9	0·2	25	0	−0·5	4·8	2·5	..	1	0	0	0	0	23	0	0	0	0	0
Dhubri (Rupsi)	24·8	..	27·6	5	11·0	..	3·3	15	0	0	..	0	..	0	..	6·3	5·1	..	0	0	0	0	0	2	0	0	0	0	0
Dhubri	23·8	+0·4	27·3	5	14·0	+0·8	9·3	15	0	0	−1·8	0	..	0	−0·1	5·3	7·1	+1·5	0	0	0	0	0	0	0	0	0	0	0
Lumding	25·4	+2·1	29·5	14	14·7	+4·3	9·8	17	1·6	3·5	−0·1	1·6	15	0	−0·4	3·6	2·4	..	0	3	0	0	0	0	0	0	0	0	0
Tura	23·9	..	26·6	28	10·7	..	7·3	16	0	0	..	0	..	0	..	6·0	5·1	..	0	0	0	0	0	0	0	0	0	0	0
Haflong	20·9	..	22·7	7	10·7	..	8·0	18	0	0	−9·1	0	..	0	−0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Silchar (Khumhirgram)	26·3	..	28·7	28	13.4	..	10·4	31	0	0·8	..	0·8	15	0	..	5·1	7·4	..	0	1	0	0	0	0	0	0	0	0	0
Silchar	23·2	−3·4	28·1	10	14·2	+1·6	11·2	18	0	1·7	−9·0	1·1	15	0	−0·7	2·2	1·1	−0·3	0	2	0	0	0	0	0	0	0	0	0
Imphal (Tulihal)	21·6	−0·5	22·9	4	4·6	−0·5	0·2	28	0	7·5	+4·4	6·8	5	1	+0·5	5·5	3·0	−0·5	0	3	0	0	0	12	0	0	0	0	0
Kailashahar	26·4	..	28·1	30	12·0	..	7·1	28	0	0	..	0	..	0	..	2·8	1·5	..	0	0	0	0	0	6	0	0	0	0	0
Agartala	26·6	−0·1	29·4	9	11·3	−0·5	4·6	16	0	0	−1·7	0	..	0	−0·1	5·3	2·7	−0·2	0	0	0	0	0	5	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	24·9	−1·1	27·3	1,4	9·6	−0·3	4·4	15	0	0	−1·1	0	..	0	−0 1	6·2	4·6	+1·3	0	0	0	0	0	2	0	0	0	0	0
Jalpaiguri	25·3	+0·5	27·4	4	12·3	+0·5	5·7	15	0	0	−4,3	0	..	0	−0 4	3·1	2·1	+0·8	0	0	0	0	0	3	0	0	0	0	0
Cooch Behar	25·0	..	27·4	1	10·5	..	4·1	15	0	0	−4·1	0	..	0	−0·3	5·3	2·2	..	0	0	0	0	0	15	0	0	0	0	0
Balurghat	26·8	..	29·0	3,5	11·6	..	8·4	17	0	0	..	0	..	0	..	3·9	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Malda	25·8	+1·5	28·7	9	13·1	+1·7	7·0	15	0	0	−1·8	0	..	0	−0·2	2·6	1·6	−2·9	0	0	0	0	0	0	0	0	0	0	0
Gangetic west Bangal																													
Berhampore	26·8	+1·7	29·9	9	13·2	+0·4	7·4	16	0	0	−4·1	0	..	0	−0·4	(f) 1·1	(d) 0·5	−0·9	0	0	0	0	0	25	0	0	0	0	0
Suri	26·4	..	29·9	9	12·8	..	5·6	16	0	0	..	0	..	0	..	..	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Asansol	27·2	+1·3	30·1	8	11·8	−0·1	7·1	16	0	0	−4·6	0	..	0	−0·4	6·3	4·7	−0·6	0	0	0	0	0	0	0	0	0	0	0
Shanti Niketan	26·6	..	30·1	9	12·7	..	7·8	16	0	0	..	0	..	0	..	6·6	5·8	..	0	0	0	0	0	0	0	0	0	0	0
Krishnanagar	28·0	+2·1	31·8	9	12·4	+0·7	5·8	16	0	0	−2·8	0	..	0	−0·2	1·7	1·5	−0·3	0	0	0	0	0	0	0	0	0	0	0
Purulia	25·9	−0·2	29·1	9	12·0	−1·2	7·4	17	0	0	−1·3	0	..	0	−0·3	5·3	4·2	+1·5	0	0	0	0	0	0	0	0	0	0	0
Bankura	27·0	..	30·9	9	12·9	..	8·1	16	0	0	−2·8	0	..	0	−0·3	3·1	2·5	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	27·6	+1·5	31·0	9,10	..	..	..	..	0	0	−4·8	0	..	0	−0·3	(b) 5·5	(d) 3·2	+1·3	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome,)	26·5	..	29·3	9,13	13·0	..	7·3	16	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	4	0	0	0	0	0
Calcutta (Dumdum)	27·3	+0·7	31·4	9	13·5	+0·2	8·7	16	0	0	−3·6	0	..	0	−0·3	4·9	2·4	−1·1	0	0	0	0	0	10	0	0	0	0	0
Calcutta	27·4	+1·1	30·3	9	14·4	+1·6	9·3	16	0	0	−4·6	0	..	0	−0·3	6·9	3.6	+0·5	0	0	0	0	0	3	0	0	0	0	0
Midnapore	26·8	+0·2	30·1	9	13·5	+0·4	8·1	16	0	0	−4·1	0	..	0	−0·3	5·7	5·7	+1·4	0	0	0	0	0	0	0	0	0	0	0
Contai	27·2	+0·3	30·4	8	14·4	−0·3	8·8	16	0	0	−4·3	0	..	0	−0·2	4·9	3·1	−0 1	0	0	0	0	0	6	0	0	0	0	0
Sagar Island	25·5	+0 6	27·9	8·10	18·3	+3·2	14·1	17	0	0	−5·3	0	..	0	−0·4	12·7	9·9	+1·0	0	0	0	0	0	10	0	0	0	0	0
Sandheads	·4	..	30·5	14	20·1	..	14·6	30	0	0	−3·8	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Registeres not received. (a) mean of 30 days. (b) mean of 29 days. (m) mean or total for 18 days. (n) Mean or total for 17 days. [l] Total for 19 days. (d) Mean of 27 days. (f) Mean of 27 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimeters					No. of rainy days (2.5mm or more)		Wind speed km. per hour			Weather phenomena—No of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from Normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (1.1 and 0.2 mm.)	Precipition (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Orissa																													
Baripada	28·4	..	31·8	8	12·0	..	7·4	17	0	0	..	0	..	0	..	4·0	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Jharsuguda	27·7	+0.1	30·3	7	11·3	−0·8	6·9	18	0	0	−1·4	0	..	0	−0·2	6·0	5·0	−0·1	0	0	0	0	0	0	0	0	0	0	0
Keonjhargarh	25·5	..	29·4	9	..	..	..	..	0 (i)	0 (j)	..	0	..	0	..	4·3 (j)	3·3 (k)	..	0	0	0	0	0	0	0	0	0	0	0
Balasore	27·7	+1·0	..	..	12·4	−0·8	..	..	0	0	..	0	..	0	..	6·3	3·5	..	..	..	0	0	0	0	0	0	0	0	0
Sambalpur	27·9	+1·1	29·6	7 days	11·0	−1·1	7·2	18	0	0	−4·3	0	..	0	−0·3	3·3	2·4	−0·7	0	0	0	0	0	0	0	0	0	0	0
Angul	27·3	+0·6	29·6	7	13·5	+0·7	9·3	18	0	0	−3·6	0	..	0	−0·4	5·0	4·9	+0·1	0	0	0	0	0	0	0	0	0	0	0
Cuttak	29·7	+2·4	32·6	7,8	14·9	+0·1	11·7	18	0	0	−5·8	0	..	0	−0·4	4·2	2·6	+1·2	0	0	0	0	0	0	0	0	0	0	0
Chandbali	27·9	+1·1	31·1	8,9	13 6	−0·7	8·9	17	0	0	−0·8	0	..	0	−0·1	6·2	3·6	−1·7	0	0	0	0	0	2	0	0	0	0	0
Bolangir	27·7	..	30·5	8	13·1	..	8·5	19	0	0	..	0	..	0	..	3·2	2·8	..	0	0	0	0	0	0	0	0	0	0	0
Phulbani	25·8	..	28·1	9	8·8	..	4·5	18	0	0	..	0	..	0	..	2·6	1·0	..	0	0	0	0	0	2	0	0	0	0	0
Titlagarh	27·8	..	30·3	10	11·9	..	7·3	18	0	0	..	0	..	0	..	3·1	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	28·3	+0·1	31·0	8	14·5	−1·3	10·6	18	0	0	−2·9	0	..	0	−0·4	10·0	7·1	+0·6	0	0	0	0	0	1	0	0	0	0	0
Puri	27·9	+1·0	31·4	8	15·6	−1·3	11·8	18	0	0	−6·1	0	..	0	−0·4	9·6	6·2	−3·1	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	28·1	+1·2	31·1	7	15·5	−0·6	11·7	18	0	0	−13·5	0	..	0	−0·7	11·5	8·6	−1·2	0	0	0	0	0	0	0	0	0	0	0
Koraput (R)																													
Bihar Plateau																													
Dumka	26·5	+1·8	30 0	9,10	11·7	+0·8	6·4	15, 16	0	0	−3·3	0	..	0	−0·3	5·8	3·4	+1·6	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	25·4	+0·7	29·4	10	9·1	+1·0	3·2	15	0	0	−6·3	0	..	0	−0·5	3·4	2·3	−0·1	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	22·9	+0·5	27·4	10	9·6	−0·4	3·2	16	0	0	−6·9	0	..	0	−0·5	9·5	7·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Dhanbad	26·0	..	30·0	10,12	13·7	..	8·5	16, 17	0	0	..	0	..	0	..	5·4	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Ranchi	23·5	+0·8	25·9	11,12	8·4	−1·9	3·6	17	0	0	−6·9	0	..	0	−0·6	3·7	2·8	−1·9	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	23·5	..	27·5	12	10·5	..	6·2	15	0	0	..	0	..	0	..	10·8	8·1	..	0	0	0	0	0	1	0	0	0	0	0
Jamshedpur	27·5	+0·9	30·1	10,12	13·0	+2·2	6 8	16	0	0	−5·8	0		0	−0·4	4·2	2·5	+0·1	0	0	0	0	0	24	0	0	0	0	0
Jamshedpur (P.B.O.)	26·5	..	29·5	9	11·8	..	6·7	16	0	0	..	0	..	0	..	5·3	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Chaibasa	26·7	+1·0	30·0	7	10·7	−0·2	5·5	17	0	0	−4·6	0	..	0	−0·4	5·5	2 7	+0·9	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	24·4	+0·4	27·1	7	..	..	..	..	0	0	−3·8	0	..	0	−0·4	4·7 (b)	2·2 (d)	+0·1	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	25·9	..	28·0	3,12	9·2	..	4·8	15	0	0	..	0	..	0	..	4·9	2·6	..	0	0	0	0	0	5	0	0	0	0	0
Darbhanga	25·6	+0·9	27·6	5	10·5	−0·5	5·4	15	0	0	−3·1	0	..	0	−0·3	2·5	1·7	−0·1	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−3·1	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	25·1	..	28·8	2	11·8	..	6·4	15	0	0	−3·6	0	..	0	−0·4	2·5	2·1	..	0	0	0	0	0	2	0	0	0	0	0
Purnea	25·5	+0·9	27·6	4	8·7	−1·0	2·5	15	0	0	−3·1	0	..	0	−0·3	5·0	2·5	+0·7	0	0	0	0	0	0	0	0	0	0	0
Patna	25·4	+1·7	28·1	4	12·0	+0·7	6·1	15	0	0	−5·6	0	..	0	−0·5	4·7	4·4	+1·7	0	0	0	0	0	3	0	0	0	0	0
Patna Aerodrome	24·7	..	27·4	9	9·4	..	4·0	15	0	0	..	0	..	0	..	6·6	3·5	..	0	0	0	0	0	6	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−4·3	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	26·3	+0·8	28·7	28	13·0	+0·2	7·5	16	0	0	−1·6	0	..	0	−0·2	6·5	4·3	+0·4	0	0	0	0	0	2	0	0	0	0	0
Sabaur	25·2	+0·9	28·0	4	8·9	+0·1	2·2	15	0	0	−3·1	0	..	0	−0·1	6·8	3·1	−1·2	0	0	0	0	0	1	0	0	0	0	0
Jamui	26·0	..	29·1	10	..	..	..	..	0	0	..	0	..	0	..	4·0	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	25·5	..	29·4	10	12·5	..	7·4	15	0	0	−4·6	0	..	0	−0·5	5·6	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	25·5	+1·8	29·3	10	10·2	+1·0	3·9	15	0	0	−4·6	0	..	0	−0·4	7·1	4·4	−0·6	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh East																													
Kheri	23·3	−1·0	29·0	7	9·5	−0.1	4·0	14, 16	7·6	24·4	..	13·0	11	3	+2·3	3·7	2·2	..	0	3	0	1	3	10	0	0	0	0	0
Baharaich	24·2	+0·3	29·4	7	9·6	+0·6	4·6	15	5·0	26·0	+17·4	18·2	11	2	+1·1	5·1	3·4	+1·5	0	3	0	0	0	3	0	0	0	0	0
Nautanwa	24·4	..	28·1	2	..	..	..	..	3·2	7·6	..	4·4	10	2	..	1·9	1·6	..	0	2	0	0	0	3	0	0	0	0	0
Hardoi	23·4	−0·9	28·7	4	9·6	+0·7	3·8	16	0	26·2	+24·1	14·2	10	2	+1·5	5·8	4·5	+2·3	0	2	0	0	0	4	0	0	0	0	0
Gonda	23·6	−0·7	28·0	7,10	8·6	−0·1	3·8	14	9·6	16·8	+8·7	9·6	11	2	+0·9	2·9	2·7	−0·7	0	2	0	0	0	0	0	0	0	0	0
Lucknow	23·4	−1·0	28·5	5	8·7	+0·2	3·9	14	14·2	26·2	+18·1	14·6	11	2	+1·3	3·5	2·7	+1·1	0	2	0	0	2	12	0	0	0	0	0
Lucknow (Amausi)	23·9	−0·5	29·4	5	8·1	+1·2	3·0	14	7·9	28·3	+20·2	20·4	10	2	+1·3	9·6	5·6	..	0	2	0	0	2	6	0	0	0	0	0
Faizabad	24·8	..	30·0	7	9·4	..	4·4	15	17·3	30·0	..	17·3	11	2	..	4·2	2·1	..	0	2	0	0	1	15	0	0	0	0	0
Gorakhpur	25·1	+1·5	29·0	8	11·2	+1·3	5·7	15	0	0	−4·8	0	..	0	−0·4	..	..	..	0	0	0	0	0	5	0	0	0	0	0
Kanpur	24·0	+0·7	29·3	2	10·0	+1·9	4·3	16	2·6	15·6	+8·5	13·0	10	2	+1·2	9·9	6·9	+3·5	0	2	0	0	1	7	0	0	0	0	0
Kanpur (Aerodrome)	24·2	..	29·4	1	9·1	..	3·1	14	0	17·1	..	17·1	10	1	..	..	..	..	0	1	0	0	2	8	1	0	0	0	0
Sultanapur	24.7	..	29·0	9	8·6	..	4·8	17	0	0	..	0	..	0	..	4·0	3·1	..	0	0	0	0	1	0	0	0	0	0	0
Azamgarh	25·6	..	29·2	8	9·7	..	4·8	1415	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	24·9	+0·4	29·6	2	8·1	−0·5	2·4	11	0	0·8	−7·8	0·8	10	0	−1·1	7·0	3·9	+1·3	0	1	0	1	0	0	0	0	0	0	0
Ballia	24·8	..	28·5	7,9	8·2	..	2·5	15	0	0	..	0	..	0	..	2·4	2·4	..	0	0	0	0	0	5	0	0	0	0	0

(R) Register not received. (b) Mean of 29 days. (d) Mean of 27 days (i) Total for 22 days (j) Mean or total for 21 days (k) Mean of 20 days

Sub-Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hour	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation 0.3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squal
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh East—(*contd*)																													
Banda	24·5	..	30·2	4,8	9·4	..	4·2	14	0	3·8	..	3·8	10	1	..	2·4	1·4	..	0	1	0	0	0	0	1	0	0	0	0
Allahabad (Bamhrauli)	25·7	+1·4	30·3	12	9·8	+1·4	4·0	14	0	0	−8·6	0	..	0	—0·7	4·1	2·6	—0·8	0	0	0	0	0	1	0	0	0	0	0
Varanasi (Babatpur)	25·2	+0·6	29·4	7	8·9	−0·7	3·6	15	0	0	−2·4	0	..	0	−0·3	8·8	6·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Varanasi	25·4	+1·4	28·8	21	8·9	−0·1	3·6	17	0	0	−6·9	0	..	0	−0·5	5·7	4·4	+1·5	0	0	0	0	0	2	0	0	0	0	0
Uttar Pradesh West																													
Mukhim	15·0	..	19·4	22	5·7	..	1·0	10,14	5·2	6·2	..	4·0	11	1	..	..	..	..	0	2	1	0	2	3	0	0	0	0	0
Tehri	20·9	..	26·6	6	4·9	..	1·9	29	22·2	31·9	..	17·8	10	3	..	1·5	0·8	..	0	4	0	1	2	6	0	0	0	0	0
Dehra Dun	21·1	+0·7	25·6	6	6·2	−1·1	2·0	15	11·6	25·7	−0·2	15·4	10	3	+1·3	3·0	2·4	0	0	3	0	0	2	0	0	0	0	0	0
Mansiari	12·0	..	15·5	28	1·4	..	−3·1	14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorakee	21·4	−0·4	26·9	2	7·2	+0·9	2·8	13,14	11·5	14·8	−2·5	7·4	10	1	—0·3	5·6	3·5	+1·4	0	1	0	0	1	0	0	0	0	0	0
Najibabad	22·5	..	26·9	2	5·9	..	1·9	14	13·3	31·3	..	25·8	10	2	..	5·4	4·8	..	0	3	0	1	1	10	0	0	0	0	0
Meerut	23·7	+1·0	30·0	4	6·7	—0·3	1·1	13	..	21·0	+8·8	15·0	9	2	+0·8	..	5·5	..	0	2	0	0	0	0	0	0	0	0	0
Bareilly	23·6	+0·8	29·3	4	9·5	+1·4	3·1	15	5·8	14·4	+4·0	6·4	10	2	+1·0	8·0	5·5	+3·6	0	4	0	0	3	11	0	0	0	0	0
Aligarh	20·9	−2·4	27·6	2	8·4	0	2·5	13	0	0·6	—10·3	0·6	9	0	—1·2	9·4	6·2	+1·4	0	1	0	0	1	0	0	0	0	0	0
Mainpuri (R)																													
Agra	23·8	—0·3	30·0	2	8·2	+0·3	2·9	13,14	0	3·1	—4·5	3·1	9	1	+0·2	3·5	2·8	—0·9	0	1	0	0	0	0	0	0	0	0	0
Agra Aerodrome	24·0	..	29·4	2	7·4	..	0·7	14	0	1·0	..	1·0	10	0	..	..	..	..	0	1	0	0	2	1	0	0	0	0	0
Orai	23·6	..	30·0	1	9·7	..	3·0	14	0	9·0	..	9·0	10	1	..	5·8	4·8	..	0	1	0	0	0	0	0	0	0	0	0
Jhansi	25·6	0	30·6	5	8·1	−1·0	1·5	14	3·0	8·0	+0·6	8·0	10	1	+0·2	3·4	3·1	+0·4	0	1	0	0	0	0	0	0	0	0	0
Panjab (India) (Including Delhi)																													
Pathankot	19·8	−1·3	25·8	3	5·2	—1·7	−1·4	12	23·6	49·6	+22·9	22·6	10	3	+1·2	..	..	..	0	5	0	2	3	0	0	0	0	0	0
Amritsar (Rajasansi)	20·8	—0·4	27·3	3	4·7	+0·2	−0·1	15	2·4	13·2	−0·8	12·1	10	1	—0·4	7·9	6·3	+0·9	0	1	0	0	3	2	0	0	0	0	0
Adampur (Aerodrome)	21·2	..	27·4	3	4·0	..	—1·7	13,15	0·5	8·6	..	4·8	10	2	..	..	..	..	0	3	0	0	1	6	0	0	0	0	0
Ludhiana	21·5	—0·1	27·8	3	6·3	—0·5	0	13	0·6	13·6	−4·7	6·6	11	2	+0·6	4·5	3·3	+1·5	2	1	0	1	2	2	0	0	0	0	0
Ferozepur	20·2	..	27·0	3	6·5	..	1·4	14	0	14·8	..	14·0	10	1	..	2·6	2·2	..	0	2	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	20·7	..	26·9	4	4·4	..	−0·1	8,9,16	0	11·4	..	8·7	11	2	..	..	..	..	0	2	0	1	3	5	0	0	0	0	0
Chandigarh	21·5	−0·1	28·0	4	8·2	+0·8	2·0	12	12·6	18·9	+0·5	12·6	12	3	+1·6	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Ambala	22·7	+0·3	29·2	4,7	7·5	+0·9	2·4	1,2,13	0·7	5·6	—13·7	2·6	10	1	−0·5	8·8	8·2	+4·8	0	3	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	21·4	..	27·6	3	6·0	..	0·4	16	4·2	6·2	..	4·2	12	1	..	..	..	..	1	1	0	0	2	1	0	2	0	0	0
Patiala	20·6	..	29·4	4	7·3	..	1·7	13	2·1	2·1	−10·8	2·1	10	0	—1·2	8·7	7·6	..	0	1	0	0	0	0	0	0	0	0	0
Bhatinda	22·6	..	28·9	3	4·4	..	0	14,17	0	0	..	0	..	0	..	1·9	1·6	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	21·2	..	27·0	4 days	6·3	..	0·1	12	14·0	15·1	..	15·0	10	1	..	..	..	..	1	1	0	0	0	0	0	0	0	0	0
Hissar	23·1	—0·3	29·7	4	5·8	+0·4	−0·2	13	1·2	1·2	—8·7	1·2	10	0	—1·0	6·2	5·8	+1·0	0	1	0	0	1	0	0	0	0	0	0
New Delhi (Safdarjung)	22·4	—0·7	28·6	4	7·8	+1·0	2·2	13	0	15·7	+4·8	15·2	9	1	+0·1	12·8	8·4	0	1	1	0	0	1	8	0	0	0	1	0
Palam (Aerodrome)	22·2	..	28·8	2	7·7	..	0	14	0	22·1	..	22·1	9	1	..	..	..	..	0	1	0	0	1	4	0	0	0	0	0
Himachal Pradesh																													
Mandi	20·8	+0.7	25·1	24	3·2	−0·5	1·0	16	17·2	23·0	—10·1	21·2	12	1	—1·7	1·4	1·4	−0·4	0	3	0	0	0	11	0	0	0	0	0
Bilaspur	25·8	..	33·8	9,10	7·5	..	3·9	23	17·0	20·0	..	12·0	12	2	..	1·0	0·6	..	0	2	0	0	0	9	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	2·6	—51·0	0·5	4 days	0	—6·1	..	..	..	2	5	3	..	..	..	..	..	..	..	..
Sonamarg	..	..	..	..	..	..	..	..	..	35·4	—107·3	20·5	12	3	—4·3	..	..	..	1	5	6	..	..	..	..	..	..	..	..
Leh	−0·2	−2·0	7·0	3	—11·2	+0·5	—17·1	1	0·4	0·4	—4·4	0·4	24	0	−0·6	4·8	4·4	+2·1	0	1	0	0	0	0	0	0	0	0	0
Srinagar	2·2	−6·8	11·5	6	—4·0	+1·6	—12·8	13	53·8	152·9	—119·4	97·5	11	4	+0·6	..	..	..	0	7	2	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	1·9	..	10·4	3	—4·8	..	−16·6	13	40·2	136·3	..	78·9	11	3	..	..	..	..	0	5	10	0	0	0	0	0	0	0	0
Gulmarg	Closed during winter months																												
Qazigund	2·5	..	10·8	6	—4·4	..	—14·4	13	43·5	147·1	..	75·9	11	5	..	1·7	1·4	..	0	7	4	0	2	12	0	0	0	0	0
Banihal	10·2	..	15·1	21	0·3	..	—13·6	12	60·0	149·3	..	55·9	11	6	..	..	..	..	0	7	4	0	1	0	0	0	0	0	0
Jammu	21·1	+1·1	27·2	22	7·8	—1·7	2·1	12	1·6	31·4	—1·6	22·8	10	2	—0·4	7·1	6·8	..	0	2	0	0	0	0	0	0	0	0	0
Jammu (Aerodrome)	19·4	..	25·8	3	8·1	..	1·4	12	3·6	29·0	..	24·4	10	2	..	..	..	..	0	3	0	0	3	2	0	0	0	0	0

(R) Register not received.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0930-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan West																														
Ganganagar	22·8	—1·0	28·4	3	4·4	—3·0	—1·0	11	0	0·6	—11·0	0·6	10	0	—3·3	3·4	1·6	—0·7	0	1	0	0	1	2	0	0	0	0	0
Anupgarh (R)																														
Mahajan	23·9	..	29·0	3	..	..	..	..	0	0	..	0	..	0	..	8·0	5·4	..	0	0	0	0	0	0	0	0	0	0	0
Churu	23·9	..	29·9	4	5·1	..	—2.1	13	1·8	2·6	..	1·8	10	0	..	6·6	4·6	..	0	2	0	0	1	0	0	0	0	0	0
Bikaner	24·7	0	30·3	23	4·8	—0·8	—2·3	13	0	0·6	—4·5	0·6	9	0	—0·5	3.4	2·3	—1·7	0	1	0	0	0	0	0	0	0	0	0
Nagaur	25·4	..	30·4	23	8·5	..	—0·6	13	0	0	..	0	..	0	..	5·8	5·0	..	0	0	0	0	1	0	0	0	0	0	0
Phalodi	24·7	..	30·9	23	6·6	..	0·4	13	0	0	—2·0	0	..	0	—0·1	8·5	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	24·3	..	28·0	20,21	7·6	..	—0.1	14	0	0	..	0	..	0	..	8·2	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	26·7	+0·6	32·6	23	10·3	0	2·3	13	0	1·2	—1·6	1·2	9	0	—0·3	7·7	7·1	—2·7	0	1	0	0	1	0	0	0	0	0	0
Barmer	26·6	—0·1	31.5	22,23	11.5	—0·4	3·7	11	0	0	—2·5	0		0	—0·3	6.5	5.6	—1·0	0	0	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	28.1	..	33.1	22.23	9·4	..	0 9	14	0	0	..	0	..	0	..	2.2	1·4	..	0	0	0	0	0	0	0	0	0	0	0
Munabao	(g) 28.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rajasthan East																														
Pilani	(m) 23.7	..	..	..	(m) 4·4	..	..	..	..	..	..	..	..	..	..	(m) 6·1	(m) 6·0	..	..	..	..	..	..	..	..	..	..	..	..
Sikar	23·9	..	30·2	23	5·7	..	—2.4	14	0	11·1	..	11·1	9	1	..	6.5	3.5	..	0	1	0	0	0	0	0	0	0	0	0
Alwar	23.7	..	29·1	4	9.0	+0·1	2.7	14	0·2	0·2	..	0.2	6	0	..	3.0	1·6	..	0	1	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	24·6	+0·2	29·4	24	8.8	..	0	13	0	0	—7·6	0	..	0	—0·7	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dholpur	24·5	..	30.5	1,2	6.5	—0·6	0.4	16	0·8	2·2	..	2·2	10	0	..	3.6	2·1	..	0	1	0	0	1	0	0	0	0	0	0
Ajmer	25·4	+1.3	30·6	31	7 5	..	0·3	14	0	0	—6.6	0	..	0	—0·4	5·4	2·9	+1.0	0	0	0	0	2	0	0	0	0	0	0
Tonk.	25·9	..	31·4	4,24	(k) 5·6	..	..	..	0	0·5	..	0.5	10	0	..	5.1	4 4	..	0	1	0	0	0	0	0	0	0	0	0
Bhilwara	25·6	..	30·7	24	8·0	..	1·8	13,14	0	0	..	0	..	0	..	5.4	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	25·8	..	30·8	10	10.6	—0·4	3·8	14	0	0	..	0	..	0	..	7·1	5.6	..	0	0	0	0	0	0	0	0	0	0	0
Kota	26.7	+0·5	31·1	4	10·8	..	5·4	14	0	0	—5.3	0	..	0	—0 5	2.0	1·3	—0·3	0	0	0	0	0	0	0	0	0	0	0
Cambal (Rawat Bhatta Dam)	27·2	..	31·6	24	9·6	..	3.1	14	0	0	..	0	..	0	..	4.8	3 0	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	26·8	+1·1	31·5	24	7.8	—1·4	1.5	13	0	0	—2.8	0	..	0	—0·3	2·8	1·2	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	27·1	+1·4	31·6	5	..	..	..	..	0	0	—4·8	0	..	0	—0.3	4·8	2.5	+0·1	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh West																														
Gwalior	24.4	—0.2	30.0	3	7.3	+0·2	04	14	0.4	11.7	+5.0	11·7	10	1	+0 3	6.6	3·5	..	0	1	0	0	2	0	0	0	0	0	0
Shivpur	26·4	+0.3	31·4	5	7.7	—0.6	1.4	13	0	0.2	—3·2	0.2	10	0	—0·5	5.9	4·6	+0·6	1	0	0	0	1	0	0	0	0	0	0
Shivpuri	25·3	..	30·8	2	5.8	..	—1·5	14	6·4	10.4	..	10.4	10	1	..	4·1	3·1	..	0	1	0	0	1	1	0	0	0	0	0
Nowgong	25·8	+2·2	30·3	3	7·2	—0.8	0·8	14	0	0	—10·2	0	..	0	—0.7	4.4	2 3	+0·9	0	0	0	0	0	0	0	0	0	0	0
Guna	27·4	+1·9	31·5	5	6.7	—0.8	—1.1	14	0	1.6	—9.1	1·6	10	0	—1·2	7·3	4·7	..	0	1	0	0	2	0	0	0	0	0	0
Nimach	26·6	+0.8	30·1	5	10·3	+0.6	4.1	13	0	0	—4·6	0	..	0	—0 5	6·5	5·2	—0.4	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	27·6	..	30·6	4,22	7.7	..	1.4	15	0	0	..	0	..	0	..	6·7	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	25.9	+0·5	28.9	3,4	12·9	+0.7	4·5	14	0	0	—12.9	0	..	0	—0.8	5·2	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Ratalm	28·5	+0·6	31·7	5	10·7	—1·2	3.9	14	0	0	—0·5	0	..	0	—0·1	9·2	7·2	+0.7	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	26·3	+0·6	28·8	24	10.2	+0.4	3·9	14	0	0	—5 1	0	..	0	—0·5	6·9	5·6	—0·2	0	0	0	0	0	0	0	0	0	0	0
Ujjain	27·8	..	31·8	23	7.2	..	3.3	17	0	0	..	0	..	0	..	8·4	4·7	..	0	0	0	0	0	4	0	0	0	0	0
Narsinghpur	27·1	..	30·4	25	6.5	..	1.0	15	0	0	..	0	..	0	..	3·5	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	27·0	+0·3	29·9	25,26	11·4	—0·8	6.2	15	0	0	—11·9	0	..	0	—0.7	5 8	3·9	+0·8	0	0	0	0	0	0	0	0	0	0	9
Indore	27·1	+0 6	30.5	23	9·9	+0 1	2·4	14	0	0	—6.9	0	..	0	—0.6	9·7	6.9	...	0	0	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	28.8	..	32.0	24	10·1	..	6.0	17	0	0	..	0	..	0	..	5.4	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	27·2	+0·9	29·5	25	8·5	—1.3	4·4	17	0	0	—3·8	0	..	0	—0·5	3·3	1.6	—1·5	0	0	0	0	0	0	0	0	0	0	0
Seoni	26·5	+1·1	28·5	8	9.7	—0·6	5·0	17	0	0	—13.2	0	..	0	—0.9	6·4	4·2	+1.0	0	0	0	0	0	0	0	0	0	0	0
Betul	27·0	+0·2	29·0	9	9·2	—1·0	4.3	16	0	0	—4.4	0	..	0	0 5	4 7	2·8	—1·1	0	0	0	0	0	0	0	0	0	0	0
Khandwa	29·9	+1.0	32·4	23	9·7	—1·1	5·4	16	0	0	—8·1	0	..	0	0 5	6·1	4.2	+0·7	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh East																														
Satna	25·7	+1·4	29·8	5	8·4	—0·2	2.5	15	0	0	—10·9	0	..	0	—0 9	3.8	2.7	0	0	0	0	0	0	0	0	0	0	0	0
Rewa	(a) 25·2	..	30·4	2	(a) 8.7	..	3.2	15	0	0	..	0	..	0	..	(a) 4·0	(b) 2·0	..	0	0	0	0	0	0	0	0	0	0	0
Sidhi	25·6	..	28.9	3,7	7.6	..	1·4	15	0	0	..	0	..	0	..	4·6	2·2	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	25·7	+0·8	29.5	10	7.6	—0.1	2·1	15	0	0	—8·9	0	..	0	—0.9	3·8	2.2	—0·6	0	0	0	0	0	1	0	0	0	0	0
Jabalpur	26·5	+1·4	30·1	11	8.6	+0·5	2·8	15	0	0	—9·4	0	..	0	—0.7	4.6	3 1	+1.3	0	0	0	0	0	0	0	0	0	0	0
Ambikapur	24.0	—0·2	27·6	10,12	8·2	+0·2	3·2	15	0	0	—2·3	0	..	0	—0·2	5.8	4 5	—0·9	0	0	0	0	0	0	0	0	0	0	0
Pendra	23·6	+0·4	26.6	9	10·3	+0·5	5·2	15	0	0	—7.4	0	..	0	—0.5	7·5	5·2	..	0	0	0	0	0	1	0	0	0	0	0
Mandla	26·3	—0·3	29·0	5	6·6	—1.2	2·2	15,16	0		—5·9	0	..	0	—0·5	4.1	1·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Champa	26.9	—0.6	29.6	8	11·4	—2·1	7.5	18	0	0	—4·1	0	..	0	—0.4	4·9	4·3	0	0	0	0	0	0	0	0	0	0	0	0

(g) Mean of 24 days. (k) Mean of 20days. (m) Mean of 18 days. (a) Mean of 30 days. (b) Mean of 29 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena No. of days										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh East—(*contd.*)																													
Raigarh	27·9	—0·5	30.8		12·3	—1.1	7·4	17	0	0	—1·3	0	..	0	—0·3	3·3	2·3	—0·9	0	0	0	0	0	0	0	0	0	0	0
Raipur	26·9	+0·2	29·4	8	12·3	—0·2	8.7	18	0	0	—5·1	0	..	0	—0.3	4·7	3·2	—1.1	0	0	0	0	0	0	0	0	0	0	0
Kankar	28·0	+1.3	29·1	9 5days	11.4	+1.0	8·0	28	0	0	—3.6	0	..	0	—0·4	2·6	1·8	—0·9	0	0	0	0	0	0	0	0	0	0	0
Jagdalpur	28 2	+1·5	30.0	9	11.1	+0.2	7·7	17	0	0	—4·1	0	..	0	—0·4	4·1	2·0	..	0	0	0	0	0	12	0	0	0	0	0
Gujarat Region																													
Deesa	29·5	..	32.9	4	..	..	..	..	0	0	..	0	..	0	..	8.9	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	29·1	..	33.6	23,24	10.8	..	4·3	14	0	0	..	0	..	0	..	7.4	6.1	..	0	0	0	0	0	0	0	0	0	0	0
Idar	29·7	..	33·0	24	14·4	..	8·7	11	0	0	..	0	..	0	..	6.5	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	30·3	+1·0	35.0	6	11.7	—0·4	5.4	13	0	0	—1·0	0	..	0	—0 1	8.8	4.4	+1·2	0	0	0	0	0	0	0	0	0	0	0
Dohad	28·9	—0·2	39.5	24	11.8	—0.5	5.9	14	0	0	—1·3	0	..	0	—0·2	7·4	5·8	—1·5	0	0	0	0	0	0	0	0	0	0	0
Vallabh Vidyanagar	30.6	..	34·0	4	10.8	..	5.8	12	0	0	..	0	..	0	..	8·5	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	31·2	..	34.0	4,5	11.8	..	6.6	11	0	0	..	0	..	0	..	7·2	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	32 0	+0.9	35·0	4	12·6	+1.3	7·8	12	0	0	—0.1	0	..	0	—0.1	0.8	0·6	—2·5	0	0	0	0	0	0	0	0	0	0	0
Broach	32·4	—0·6	35·4	22,23	12·7	—1·3	6·3	12	0	0	—0·1	0	..	0	0	4·5	3·4	—1 6	0	0	0	0	0	0	0	0	0	0	0
Surat	32·6	+1·5	35·4	27	15·6	+0·4	10·4	12,13	0	0	—2·0	0	..	0	—0·1	8·8	6·5	+2·2	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Naliya	28·3	..	33·2	22	8·8	..	0·6	11	0	0	..	0	..	0	..	10·1	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	27·5	—0·2	33·5	23	10·4	—1·1	4·1	12	0	0	—1·8	0	..	0	—0·1	12·6	8·5	+1·6	0	0	0	0	0	0	0	0	0	0	0
Kandla Aerodrome	28·3	..	31·5	21,23, 25	12·7	..	6·4	11	0	0	..	0	..	0	..	16·9	17·4	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	25·9	..	29·3	3	14·6	..	8·9	11,12	0	0	..	0	..	0	..	12·4	13·0	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	26·4	—0·5	31·0	24,25	13·7	—1·9	7·5	11	0	0	—2·9	0	..	0	—0·1	14·9	14·3	0	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	29·9	0	33·6	23	13 6	—0 6	6 2	13	0	0	—0·2	0	..	0	0	6·8	6·5	—1·1	0	0	0	0	0	0	0	0	0	0	0
Okha	24 2	..	26·1	5,6,8	18·8	..	15·4	11	0	0·5	..	0·5	30	0	..	15·6	17·8	..	0	1	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	26 7	—1·4	30·0	25	11·9	+1·1	7·5	11	0	0	—2·0	0	..	0	—0 1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	26·9	—0·4	31·1	21,22	15 9	—0·7	11·0	12	0	0	—2·3	0	..	0	—0 2	16·9	13·0	+0·9	0	0	0	0	0	0	0	0	0	0	0
Rajkot	29·4	—0·4	33·5	23	12·3	—0·4	5·4	12,13	0	0	0	0	..	0	0	15·0	11·4	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar Aerodrome	28·6	+0·3	31·2	3	13·3	—1·0	7·8	12	0	0	—1·5	0	..	0	—0·1	15·0	12·2	+2·2	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	30 2	—0 2	33 7	25,26	14·6	2 2	11·2	12	0	0	—0·8	0	..	0	—0 1	14·9	11·2	..	0	0	0	0	0	0	0	0	0	0	0
Keshod	30·8	..	34 2	2.	12·7	..	8·5	11,12, 13	0	0	..	0	..	0	..	16·1	13·3	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva†	31·0	..	34·0	14	16·1	..	12 0	11,17	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	31 0	..	35·1	26	15·3	..	9 7	13	0	0	—1·8	0	..	0	—0 2	16·1	13·1	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	28·7	—0 7	33·1	23	16·9	—0 6	12·2	13	0	0	0	0	..	0	0	(d) 13·5	(b) 10·8	—0·2	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	31·7	+0·6	34·5	26	16·7	+1·0	14·0	11	0	0	—1·8	0	..	0	—0 1	9·3	6·6	..	0	0	0	0	0	0	0	0		0	0
Bombay	30·6	+0·3	34·0	25	20·4	0	16·4	12	0	0	—2·0	0	..	0	—0 2	9·1	8·2	—2.3	0	0	0	0	0	0	0	0	0	0	0
Alibag	29·1	—0 5	32 8	25	18·1	—0·3	16·2	20	0	0	—3·8	0	..	0	—0 4	..	7·4	+0·2	0	0	0	0	0	0	0	0	0	0	0
Bhira	34·2	..	35·6	16	15·5	..	12·6	20	0	0	..	0	..	0	..	3 6	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Harnai	29·2	—0·3	32·6	28	22·7	—0·1	20·3	11	0	0	—1·3	0	..	0	—0 1	11·0	9·7	—1·8	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31·3	..	33·6	28	18·1	..	15·3	19	0	0	—3·8	0	..	0	—0 3	10·9	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Devgarh	29·2	—2·0	32·4	25	20·4	—0·9	18·2	30	0	0	—4·3	0	..	0	—0·4	13·1	9·9	—1·1	0	0	0	0	0	0	0	0	0	0	0
Vengurla	31 9	—0 6	34·5	25	17·7	—0 8	14·9	19,20, 29	0	0·3	0	0 3	26	0	—0·1	9·6	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Panjim	32·0	..	33·8	4	18·2	..	16·0	30	1·5	1·5	..	1.5	26	0	..	9·3	8·6	..	0	1	0	0	0	0	0	0	0	0	0
Mormugao	30·2	..	32·6	4	21·0	..	19·4	14	2·3	3·2	..	3·1	26	1	..	10·5	9·2	..	1	1	0	0	0	0	0	0	0	0	0
Dabolim (Naval Air Station) (R)																													
Madhya Maharashtra																													
Nandurbar	30·8	..	33·6	4	14·6	..	10·6	29	0	0	..	0	..	0	..	7·0	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	30·2	—0·1	31·9	24	10·9	—1·2	7·4	29	0	0	—5·6	0	..	0	—0·5	10·4	9·1	+2·4	0	0	0	0	0	0	0	0	0	0	0
Malegaon	30·4	+1·0	34·5	26	10·1	—1·2	7·1	30	0	0	—5·3	0	..	0	—0·4	7·1	4·7	0	0	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	29·9	..	31·4	23	10·7	..	6·1	29	0	0	..	0	..	0	..	9·6	5·7	..	0	0	0	0	0	1	0	0	0	0	0
Ahmadnagar	30·4	+2·0	31·5	4,10,14	10·9	—0·7	6·7	29	0	0	—6·6	0	..	0	—0·5	8·4	4·8	—0·7	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	—3·1	0	..	0	0	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	29·3	..	30·9	9	12·9	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Poona	29·2	0	31·0	9	9·7	—0·7	5·7	30	0	0		0	..	0	—0·5	5·9	2·4	..	0	0	0	0	0	2	0	0	0	0	0

(a) Mean of 30 days (R) Register not received. †Data copied from daily weather telegrams. (b) Mean of 29 days. (d) Mean of 27 days.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm or more		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall in 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and ·02 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madhya Maharashtra—(Contd).																													
Jeur	29·5	−0·6	31·8	8,17	10·9	−2·0	5·9	29	0	0	−5·0	0	..	0	−0·2	8·5	4.6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Baramati	29·6	0	31·2	9	11·8	−1·8	8·5	30	0	0	−4·3	0	..	0	−0·4	8·1	6·4	+0·1	0	0	0	0	0	0	0	0	0	0	0
Sholapur	28·6	−1·1	31·4	8	14·2	−0·5	10·9	28	6·8	10·4	0	10·4	26	1	+0·3	10·3	7·7	−1·5	0	1	0	0	0	0	0	0	0	0	0
Miraj	29·4	+0·5	31·2	8,9	13·4	−0·5	9·7	19	3·4	12·4	+5·3	4·4	25	3	+2·4	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Kolhapur	29·8	+0·2	32·4	9	13·8	−0·8	10·4	19	6·7	9·3	+6·5	9·0	26	1	+0·8	13·6	8·8	−0·4	0	2	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	30·1	+1·5	31·6	24	13·0	−0·2	9·3	30	0	0	−6·9	0	..	0	−0·5	6·7	5·5	−1·4	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29·2	..	30·3	9,10	8·1	..	3·9	29	0	0	..	0	..	0	..	6·8	3·1	..	0	0	0	0	0	0	0	0	0	0	0
Parbhani	28·9	−0·5	31·0	9	12·0	−0.7	8·5	29	0	0	−4·8	0	..	0	−0·3	6·5	4·2	−0·5	0	0	0	0	0	0	0	0	0	0	0
Nander	29·9	..	31·0	5days	10·3	..	7·1	19	0	0	..	0	..	0	..	5·8	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Bir	29·5	..	31·6	9	9·8	..	6·0	28	0	0	..	0	..	0	..	4·5	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	27·6	0	30·5	9	11·6	−1·2	7·7	17	0	0	−2·2	0	..	0	−0·3	(a) 2·3	1·3	−0·9	0	0	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	28·2	−0·2	30·4	9	10·9	−0·8	7·1	28	0	0	−11·9	0	..	0	−0·8	8·3	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Amraoati	29·7	+1·3	31·4	9	14·9	+0·2	12·4	28,29	0	0	−11·2	0	..	0	−0·8	8·3	8·7	+3·4	0	0	0	0	0	0	0	0	0	0	0
Akola Aerodrome	29 8	..	32·0	9,10	11·1	..	7·6	28	0	.0	..	0	..	0	..	8·6	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Akola.	30·1	+0·8	32·1	10	12·0	+0·2	8·5	18	0	0	−13 7	0	..	0	−0·9	5·2	3·6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Brahampuri.	28·1	..	30·0	8,9	13·0	..	8·4	18	0	0	..	0	..	0	..	4·4	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Buldana	27·9	+0·5	29·7	8	14·0	−1·1	11·7	29	0	0	−5·9	0	..	0	−0·5	7·9	5·7	−0·7	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	28·2	−0·2	30·2	9	14·8	−0·3	11·6	19	0	0	−3·3	0	..	0	−0·3	9·7	8·6	+1·1	0	0	0	0	0	0	0	0	0	0	0
Chanda	28·3	+0·2	29·8	9	11·4	−0·2	7·4	28	0	0	−6·9	0	..	0	−0·7	5·4	3·4	+1·3	0	0	0	0	0	0	0	0	0	0	0
Pusad	29·7	..	31.8	13	10·4	..	6·2	28	0	0	..	0	..	0	..	6·6	3·7	..	0	0	0	0	0	0	0	0	0	0	0
Sironcha	29·1	−0·7	30·4	7,8	13·4	−1·2	9·2	19	0	0	−0·3	0	..	0	−0·1	3·9	2·6	0	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	27·6	+0·8	29·5	8	16·7	−0·6	12·7	18	0	0	−13·7	0	..	0	−0·4	9·9	6·7	−2·2	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatanam	28·6	−0·5	31·3	8	17·9	−0·5	14·9	7	0	7·3	−7·2	7·3	30	1	+0·1	14·9	7·9	+2·4	0	1	0	0	0	0	0	0	0	0	0
Kakinada	27·9	+1·0	29·1	2	17·5	−1·6	15·7	28	0	2·4	−15·4	2·4	31	0	−0·8	13·3	10·3	0	0	1	0	0	0	0	0	0	0	0	0
Nidadavole	29·4	..	31·0	18	17·4	..	15·0	4	0	0	..	0	..	0	..	6·1	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	30·2	+0·3	31·2	7,14	16·0	−0·6	13·7	10,20	0	0	−3·1	0	..	0	−0·4	4·1	2·5	−2·6	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	29·1	−0·7	30·5	26	18·7	−0·4	17·0	20	2·4	0	−5·1	0	..	0	−0·8	11·5	7·9	−1.5	0	0	0	0	0	0	0	0	0	0	0
Nagarjuna Konda (R)																													
Masulipatam	28·0	−0·1	29·1	23	18·6	−0·6	17·0	10,20	0	0	−16·5	0	..	0	−0·9	5·7	3·7	−3·1	0	0	0	0	0	0	0	0	0	0	0
Ongale	28·9	..	30·0	23	18·8	..	17·4	29	0	0·8	..	0·5	31	0	..	5·7	4·6	..	0	2	0	0	0	0	0	0	0	0	0
Nellore.	29·9	+0·3	30·2	11	20·1	−0·1	17·7	20	13·2	40·4	−32·2	20·0	24	3	0	9·3	6·1	+1·3	0	4	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	29·9	−0·1	31·6	8,10	14·0	−0·7	10·3	19	0	0	..	0	..	0	−0.2	5·4	2·8	−0·6	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	29·1	+0·4	31·7	8	13·0	+0·2	8·5	28	0	0	−1·4	0	..	0	−0·4	4·5	3·8	+0·9	0	0	0	0	0	6	0	0	0	0	0
Hanamkonda	29·2	+0·8	30·6	9	14·8	−0·9	11·3	28	0	0	−4·6	0	..	0	−0·4	4·1	2·7	−1·5	0	0	0	0	0	0	0	0	0	0	0
Hakimpat (Aerodrome)	27·0	..	28·4	23	15·3	..	12·9	17	0	0	−5·8	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhadrachalam	29 7	0	31·3	25	14·6	−1·1	11·8	18	0	0	..	0	..	0	−0·6	3·9	3·0	−0·8	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	27·8	+0·1	30·0	23	11·7	−1·6	7·6	18	0	0	−1·1	0	..	0	−0·4	10·4	6·3	−0·5	0	0	0	0	0	0	0	0	0	0	0
Khammam	29·7	..	31·0	2,26	16·2	..	13·7	26	0	0	−1·6	0	..	0	..	3·6	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	28·0	..	29·6	17	15·3	..	12·9	8,29	0	0	..	0	..	0	..	11·9	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	29·7	−0·5	31·8	7	15·6	−0·4	11·9	9	0	0	−5.1	0	..	0	−0·3	7·4	5·1	+1·2	0	0	0	0	0	0	0	0	0	0	0
Nandyal (R)																													
Anantpur	28·9	0	30·5	7	16·4	−0·7	13·2	8	0	0·5	−6·8	0·5	24	0	−0·6	11·8	9·8	+1·0	0	1	0	0	0	0	0	0	0	0	0
Cuddapah	29·1	−0 9	30·6	7	18·7	0	16·2	29	4·4	20·0	−0·6	12·4	26	2	+0·5	1·2	0·9	−6·3	0	3	0	0	0	0	0	0	0	0	0
Arogyavaram	25·6	..	28·6	7	13·6	..	10·8	21	0	9·0	..	6·4	24	2	..	7·8	4·9	..	0	2	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	28·3	..	29·6	25	21·2	..	18·9	20, 28	..	24·8	..	13·8	24	3	..	..	7·4	..	0	4	0	0	0	0	0	0	0	0	0
Madras (Minambakham)	28·3	−0·6	29·1	25	20·8	+0·3	18·8	19, 28	19·3	15·8	−121·6	7·9	23	2	−3·4	12·2	7·8	−5·9	0	4	0	0	0	0	0	0	0	0	0
Vellore	28·1	+0·1	29·6	8	18·2	0	16·3	19	22·9	37·5	−29·0	21·6	25	3	−0·9	10·5	7·7	+4·0	0	3	0	0	0	2	0	0	0	0	0
Tambaram	28·5	..	29·5	7,10, 11	20·5	..	18·3	20, 28	2·5	10·3	..	4·8	23	2	..	..	..	..	0	3	0	0	0	1	0	0	0	0	0
Tiruppattur	28·6	..	30·1	7	16·2	..	14·0	16	0	0	..	0	..	0	..	5·8	4·3	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received. (a) Mean of 30 days.

Sub-Division and section	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State— (*Contd.*)																													
Metturdam R.S.	30·3	..	33·0	6	18·9	..	15·6	4	4·1	39·5	..	35·4	25	2	..	6·4	5·5	..	0	2	0	0	0	0	0	0	0	0	0
Cuddalore	28·2	+0·1	29·1	4	21·1	−0·1	19·2	19,20	22·2	84·2	−106·1	42·4	24	4	−2·3	17·0	11·9	+4·2	0	4	0	0	0	0	0	0	0	0	0
Kallakkurichchi	28·8	..	30·4	7	20·5	..	18·0	20	40·4	111·8	+34·8	87·6	24	3	−3·1	11·8	8·9	..	0	4	0	0	0	0	0	0	0	0	0
Salem	29·9	−0·2	31·4	7	19·5	+0·7	16·5	20	12·6	38·8	+12·6	36·4	24	1	−1·2	9·5	9·9	+4·6	0	2	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	28·1	..	29·8	14	17·6	..	14·6	20	10·3	70·8	..	56·6	24	3	..	17·0	11·0	..	0	3	0	0	2	1	0	0	0	0	0
Coimbatore	28·6	−0·5	30·1	1	18·1	−0·8	15·8	29	..	58·0	+23·5	48·6	24	2	−0·6	..	6·2	+2·2	0	4	0	0	1	0	0	0	0	0	0
Nagapattinam	28·0	+0·2	29·0	2	23·0	+0·6	20·5	19	70·2	85·1	−193·0	65·5	24	4	−5·1	20·8	20·8	+7·4	0	6	0	0	1	0	0	0	0	0	0
Tiruchchirappalli	29·7	+0·2	31·5	7	20·5	−0·3	18·2	20	50·0	74·1	+9·0	49·6	24	3	−1·5	14·9	12·7	+4·0	0	3	0	0	0	0	0	0	0	0	0
Vadaranniyam	29.7	..	30·8	18	22.6	..	19·2	19	12.2	116.0	..	96.9	23	3	..	15·4	10·7	..	0	3	0	0	0	0	0	0	0	0	0
Atirampattinam	29·2	..	30·8	26	24·8	..	18·6	20	4·0	63·8	..	56·8	23	2	..	14·6	10·0	..	0	4	0	0	0	0	0	0	0	0	0
Madurai	29·5	+0·2	30·6	13,23	21·2	0	18·9	20	..	260·0	+208·9	229·0	24	4	−0·4	..	7·2	−0·4	0	4	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	29·3	..	30·6	22,23	20·8	..	18·1	19	89·3	120·5	..	97·0	24	3	..	15·4	11·8	..	0	4	0	0	0	0	0	0	1	0	0
Tondi	29·0	..	30·1	14	21·9	..	19·6	19	2·2	85·2 (a)	..	78·8	23	1	..	23·4	17·0	..	0	5	0	0	0	0	0	0	0	0	0
Pamban	28·7	+0·6	29·5	25,26	24·2	+0·4	22·5	27	1·0	130·0	..	..	..	..	..	..	..	..	0	..	0	0	0	0	0	0	0	0	0
Tuticorin	28·5	+0·7	29·5	25	21·5	−1·1	18·4	19,29	5·2	14·6	−86·3	6·0	23	3	−1·0	24·1	23·2	+3·2	0	3	0	0	0	0	0	0	0	0	0
Palayankottai	30·9	+0·7	32·5	23	21·8	−0·8	19·8	19	8·6	8·6	−94.8	5·2	27	1	4·2	12·1	9·0	+0·2	0	3	0	0	0	0	0	0	0	0	0
Kanniyakumari	31·1	..	33·0	23	23·5	..	22·6	20,30	2·1	4·5	..	2·1	3	0	..	21·5	20·7	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·1	0	33·6	6,11, 17	19·7	+0·3	15·0	1	10·0	10·7	+4·9	10·7	26	1	+0·6	8·5	5.6	..	0	1	0	0	0	0	0	0	0	0	0
Honavar	32·2	−0·5	34·7	16	20·0	−0·9	17·4	1	0	4·3	0	4·3	25	2	+0.7	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	31·8	..	33·5	8	19·7	..	18·2	21	2·4	69·4	..	57·6	25	2	..	9·9	6·9	..	0	3	0	0	0	0	0	0	0	0	0
Mangalore	32·5	+0·8	34·0	8,16, 17	21·1	−0·7	19·4	19,30	6·2	59·9	+47·0	57·1	..	0	+1·3	11·0	8·6	+1·4	0	2	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	27·1	−0·2	29·2	9	15·6	−0·8	13·0	28	0	0	−5·8	0	..	0	−0·4	13·0	10·2	+1·3	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	29·6	−0·1	31·6	8	14·4	−0·4	11·0	18	0	0	−3.8	0	..	2	−0·3	12·3	8·2	+0·3	0	0	0	0	0	0	0	0	0	0	0
Bijapur	28·1	−0·9	30·4	8	15·2	+0·4	11·4	29	8·0	21·9	+15·6	12·2	..	2	+1·4	5·5	3·2	+0·5	0	2	0	0	0	0	0	0	0	0	0
Raichur	28·8	−0·5	31·4	8	18·0	+0·4	14·3	19	0	0	−3·3	0	..	0	−0·3	10·6	9·6	+1.1	0	0	0	0	0	0	0	0	0	0	0
Belgaum	28·5	−0·7	30·5	8	13·6	−0·3	10·5	19	0·7	3·1	−5·5	1·6	25	0	−0·5	5·5	3·8	−2·0	0	2	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	27·9	..	29·4	8	14·7	..	11·6	18	0·6	3·8	..	2·2	25	0	..	11·2	6·1	..	0	2	0	0	0	0	0	0	0	0	0
Gadag	28·8	+0·2	32·2	8	15·7	−0·6	13·5	29	0·7	4·2	−6·2	3·5	25	1	+0·4	10·8	7·6	+0·5	0	2	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·7	−0·1	31·7	8	16·5	−0·1	14·1	12	2·0	2·0	−1·3	2·0	25	0	−0·3	8·1	4·1	+0·2	0	1	0	0	0	0	0	0	0	0	0
Chitradurga	27·1	−0·9	29·4	7	16·1	−0·5	14·0	21	0	2·0	−11·2	1·4	25	0	−0·8	10·3	6·8	−0·6	0	2	0	0	0	0	0	0	0	0	0
Shimoga	28·1	−0·9	30·0	7	13·0	−1·2	10·0	15	0	1·4	−5.2	1·4	25	0	−0·5	..	..	..	0	1	0	0	0	27	0	0	0	0	0
Agumbe	26·9	..	28·8	8	12·1	..	9·4	21	..	4·4	..	1·9	25	0	..	..	4·8	..	0	3	0	0	0	0	0	0	0	0	0
Balehonnur	27·0	+0·9	29·2	15	14·0	−0·8	11·9	19	..	12·0	+0·1	10·0	25	1	+0·2	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hassan	26·3	−0·7	28·5	27	13·4	−0·8	11·4	21	0	2·0	−14·8	2·0	24	0	−1·1	7·7	4·8	0	0	1	0	0	1	0	0	0	0	0	0
Bangalore	25·2	−0·5	26·6	15	15·3	+0·7	12·0	29	0·2	8·3	−2·9	6·9	25	1	−0·2	12·1	9·9	+2·2	0	2	0	0	0	1	0	0	0	0	0
Bangalore Aerodrome	25·2	..	27·4	8	14·3	..	11·2	29	1·4	8·8	..	7·8	25	1	..	..	..	..	0	2	0	0	0	6	0	0	0	0	0
Mysore	26·3	−1·4	28·0	7,8,27	15·8	−0·4	13·6	1,29	0	3·2	−7·0	3·2	24	1	+0·1	11·6	11·9	+1·8	0	1	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	30·9	0	32·3	8	21·1	−0·7	19·6	20,21	0	17·4	−8·3	15·1	25	1	−0·6	10·8	8·4	+2·0	0	2	0	0	1	0	0	0	0	0	0
Palghat	31·2	..	33·0	15,23	21·5	..	19·8	1	2·2	40·2	..	39·2	24	1	..	11·4	8·3	..	0	2	0	0	0	0	0	0	0	0	0
Fort Cochin	30·2	−0·1	31·3	23	22·1	−1·3	20·9	17,22	1·6	3·0	−37·6	3·0	24	1	−1·5	11·6	8·2	+2·4	0	1	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station)	31·0	..	32·4	16	21·5	..	19·6	20	1·5	13·7	..	11·6	27	1	..	10·7	8·2	..	1	2	0	0	3	0	0	0	0	0	0
Alleppy	32·0	+0·6	33·4	9	22·1	−0·7	20·4	19,20	0	0	−48·1	0	..	0	−3·5	12·9	9·3	+1·3	0	0	0	0	1	0	0	0	0	0	0
Punalur	31·9	..	34·9	16	19·3	..	16·6	24	0	0	..	0	..	0	..	4 4	3·4	..	0	0	0	0	0	0	0	0	0	0	0
Trivandrum	30·0	+0·3	33·0	16	22·1	−0·3	20·0	20	0·1	0·8	−61·9	0·6	6	0	−3·7	7·6	6·0	+1·8	1	1	0	0	0	1	0	0	0	0	0
Trivandrum Aerodrome.	30·1	..	31·3	9	21·7	..	18·6	19	..	2	..	5·2	7	1	..	..	3·5	..	0	1	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5) mm. of more		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure form normal	Highest	Date	Mean Minimum	Departure form normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir																													
Dalhousie	14·7	−0·4	21·0	22	3·4	−1·7	0	14	32·0	95·0	+3·3	37·0	11	5	+0·9	4·1	4·0	+1·1	0	5	0	2	5	5	0	0	0	0	0
Dharmsala	16·9	0	20·9	5	6·7	−1·6	−1·0	10	45·0	61·4	+7·6	40·8	12	3	+0·5	5·3	4·6	+0·8	0	4	0	0	2	1	0	0	0	0	0
Simla	12·2	+1·9	17·2	27	..	..	..	..	2·6	6·0	−25·5	2·9	12	1	−1·4	4·5	3·5	+1·4	0	4	0	0	0	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	27·2	−18·0	15·4	12	3	+0·5	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Lokpal	−4·0	..	−0·3	3	9·6	..	−11·8	17,19	..	106·4	..	60·2	10	3	..	..	..	..	1	3	0	0	0	0	0	0	0	0	0
Badrinath										Closed	during	winter	months																
Joshimath	13·4	..	17·8	3	4·2	..	0·2	10	22·3	36·6	..	23·6	10	3	..	5·0	6·0	..	0	3	0	0	0	0	0	0	0	0	0
Mussoorie	13·9	+1·9	20·9	24	4·4	+0·2	−0·9	14	14·2	29·2	−5·9	18·6	10	3	+0·4	10·5	9·5	+2·3	0	3	0	1	1	0	0	0	0	0	0
Mukteshwar (Kumaun)	13·2	+1·4	21·1	4	3·7	+0·1	−2·5	14	14·8	34·4	+7·7	23·0	10	2	+0·2	13·9	13·7	+5·3	0	3	2	0	3	3	0	0	0	0	0
Nainital	13·8	+0·7	21·8	4	4·1	+0·6	−1·7	14	22·5	40·5	+5·2	24·0	10	2	+0·9	8·6	7·2	+0·5	0	5	2	0	0	0	0	0	0	0	0
Kalimpong	17·8	+1·0	23·8	5	14·2	+5·2	12·0	22,25, 31	0	0	−8·1	0	..	0	−0·7	10·9	8·1	−2·8	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	13·3	+2·1	16·6	3	3·5	−0·1	0·6	15	0	0	−6·9	0	..	0	−0·7	2·1	1·8	+0·5	0	0	0	0	0	0	0	0	0	0	0
Kohima	15·8	..	17·9	12	8·4	..	5·6	27	2·2	6·4	..	6·4	15	1	..	..	1·9	..	0	1	0	0	0	0	0	0	0	0	0
Shillong (R)																													
Cherrapunji (R)																													
Abu	23·2	+3·0	27·2	25	9·1	−2·3	4·2	13	0	0	−3·1	0	..	0	−0·3	5·6	4·6	−0·1	0	0	0	0	0	0	0	0	0	0	0
Aijal	20·5	..	25·0	12	12·7	..	8·9	17	0	0	..	0	..	0	..	5·4	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	22·6	+0·8	24·7	3	6·1	−1·6	2·4	4 days	0	0	−10·9	0	..	0	−0·8	3·6	2·3	−0·6	0	0	0	0	0	0	0	0	0	0	0
Mahabaleshwar	24·7	+2·1	27·0	18	13·8	+0·2	12·2	29	0	0	−6·6	0	..	0	−0·6	10·5	11·6	+0·2	0	0	0	0	0	0	0	0	0	0	0
Mercara	23·5	−0·3	25·6	10	11·5	−2·8	8·0	14	0·3	8·9	−9·4	3·6	24	2	+0·8	14·1	11·5	+4·1	0	3	0	0	0	0	0	0	0	0	0
Ootacamund (R)																													
Coonoor (R)																													
Kodaikanal	17·1	+0·6	19·9	20	7·9	−0·5	4·7	29	92·0	233·8	+102·7	185·9	24	6	−1·1	15·5	15·3	+2·1	0	7	0	0	0	11	0	0	0	0	0
Nepal																													
Katmandu	19·7	..	23·6	28	0·9	..	−3·3	18	0	0·3	..	0·2	1	0	..	1·1	0·7	..	2	0	0	0	0	10	0	12	0	0	0
Sikkim																													
Lachen	11·3	..	15·0	1	−0·5	..	−3·7	16	..	7·2	..	4·0	13	1	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories—																													
Damodar Catchment																													
Tilaiya	23·9	..	27·5	10	10·5	..	5·6	16,17	0	0	..	0	..	0	..	8·4	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	23·0	..	27·4	12	8·9	..	3·1	16	0	0	..	0	..	0	..	8·1	4·7	..	0	0	0	0	0	0	0	0	0	0	0
Konar	24.5	..	29.0	12	11.3	..	7.3	15	0	0	..	0	..	0	..	10.9	8.5	..	0	0	0	0	0	0	0	0	0	0	0
Bokaro	26.9	..	30.9	10	6.5	..	0.5	15	0	0	..	0	..	0	..	5.1	3.1	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	27.0	..	30.4	9,13	10.6	..	5.3	16	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Ramgarh	26.1	..	30.5	12	8.7	..	3.2	15,16	0	0	..	0	..	0	..	3.0	1.5	..	0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	26.3	..	29.7	9	13.2	..	8.5	15,16	0	0	..	0	..	0	..	3.5	3.1	..	0	0	0	0	0	0	0	0	0	0	0
Durgapur	26.9	..	30.2	9	13.5	..	9.1	16	0	0	..	0	..	0	..	6.4	3.5	..	0	0	0	0	0	7	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	26.2	..	..	..	9.0	..	2.9	17	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hirakud	27.2	..	29.7	8	13.4	..	9.6	18	0	0	..	0	..	0	..	4.1	2.5	..	0	0	0	0	0	0	0	0	0	0	0
Bhimkund	26.5	..	29.1	8	10.8	..	7.4	17	0	0	..	0	..	0	..	4.7	2.2	..	0	0	0	0	0	4	0	0	0	0	0
Sonepur	27.5	..	29.5	7,8	13.6	..	8.3	18	..	0	..	0	..	0	..	..	2.4	..	0	0	..	..	..	..	..	..	..	..	..
Khijrawan	26.8	..	30.1	15	10.5	..	5.1	18	0	0	..	0	..	0	..	5.2	3.2	..	0	0	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	27.0	..	30.9	9	8.8	..	4.0	16	0	0	..	0	..	0	..	(d) 2.6	(e) 1.7	..	0	0	0	0	0	0	0	0	0	0	0
Punasa (R)																													
Thikri	29.8	..	33.0	24	8.4	..	4.9	16,17, 18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																													
Daroi	30.5	..	34.0	23	11.6	..	6.2	11	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Gandak Catchment																													
Jomosom	14.1	..	20.1	4	0	..	−4.2	14	0	4.0	..	4.0	10	1	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Kuadi Bazar	..	..	..	..	..	..	..	..	0	0.4	..	0.4	10	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Tizmure	16.6	..	20.2	3	2.8	..	0.5	4days	1.8	4.0	..	2.2	10	0	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Pokhara	20.2	..	23.1	28	7.9	..	3.2	17	0	1.2	..	1.2	10	0	..	1.4	6	..	0	1	..	..	..	..	..	..	..	..	..

(R) Register not received. (d) Mean of 27 days. (e) Mean of 26 days.

Sub-Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	24	26	27	28	29
Hydrometeorological observatories—(contd.)																													
Gandak Catchment—(contd).																													
Gorkha	18.5	..	20.8	1,8	8.3	..	4.5	16	0.1	1.1	..	1.0	10	0	..	..	..		1	1	0	0	0	1	0	0	0	0	0
Nuwakot	20.9	..	25.5	3	9.2	..	5.5	19	0	0	..	0	..	0	..	..	..		0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans-Himalayan Region)																													
Dailekh	17.7	..	20.6	14	7.0	..	4.1	31	0	30.0	..	16.0	11	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Ghaghara Catchment																													
Dadeldhura	13.5	..	22.9	4	5.6	..	−0.3	10	29.5	45.9	..	33.9	10	3	..	6.5	5.7	..	0	3	0	0	0	2	0	1	0	0	0
Sallyana (R)																													
Butwal	24.1	..	26.9	8,9	13.0	..	6.7	14	3.0	7.0	..	4.0	11	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Bhagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	19.1	..	21.9	11	7.0	..	4.1	15		0	..	0			..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Chepua	..	..	..	..	..	..	..	..	0	0.4	..	0.4	25	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	
Walungchung Gola	7.7	..	13.3	3	−1.5	..	−4.9	16	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Taplethok (R)																													
Bhojpur	16.6	..	19.1	18	7.8	..	4.5	16	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Taplejung	15.4	..	18.1	12	5.5	..	1.8	15	0	0	..	0	..	0	..	5.0	3.2	..	0	0	..	..	..	..	..	..	..	..	
Okhaldhunga	15.4	..	19.1	28	5.9	..	2.1	16	0	0	..	0	..	0	..	2.5	1.8	..	0	0	..	..	..	..	..	..	..	..	
Dhainpur	19.0	..	22.1	1	9.6	..	6.8	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	
Angbung (R)																													
Harahkshetra	24.1	..	26.4	28	11.7	..	6.5	15	0	0	..	0	..	0	..	5.3	4.0	..	0	0	..	..	..	..	..	..	..	..	
Sta Catchment																													
Gangtok	16.3	..	20.2	28	5.8	..	2.5	15	1.4	17.5	..	14.6	25	1	..	4.0	3.6	..	1	5	0	0	0	4	0	0	0	0	
Kezing	18.6	..	22.6	28	6.8	..	3.5	15	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	

*Data included under Nepal.

Sub-Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5) mm. or more		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Arabian Sea Islands																														
January																														
Amini	32·8	+2.2	33.5	8,13,14	24.0	+0.5	22.0	5	0	0	−16.8	0	..	0	−1.1	7.4	6.1	0	0	0	0	0	0	0	0	0	0	0	0
Minicoy	30·6	+1.1	30.7	9	23.2	+0.4	21.4	15	0	4.9	−41.4	3.3	26	1	−1.6	8.9	6.5	−0.4	0	2	0	0	0	0	0	0	0	0	0
February																														
Amini	32.6	+1.5	33.8	23	24.5	0	21.5	7	0	0	−1.8	0	..	0	−0.3	7.4	6.6	−1.3	0	0	0	0	0	0	0	0	0	0	0
Minicoy	30.6	+0.9	31.4	2	22.9	−0.8	20.5	6,7	2.2	7.1	−10.9	4.9	1	1	−0.2	9.1	6.3	−1.1	0	2	0	0	1	0	0	0	0	0	0
March																														
Amini	32.8	+0.7	34.5	28	25.6	+0.2	23.0	12	0	0	−4.1	0	..	0	−0.2	5.7	5.5	−2.7	0	0	0	0	0	0	0	0	0	0	0
Minicoy	31.3	+1.1	33.4	26	24.9	0	22.1	6, 12	8.0	10.4	−11.9	5.8	30	1	−0.5	8.7	6.0	−1.1	0	3	0	0	2	0	0	0	0	0	0
April																														
Amini	33.0	−0.1	34.9	7	26.9	+0.2	24.4	28	0	2.8	−26.4	2.8	28	0	−0.6	7.0	6.9	−2.3	0	1	0	0	0	0	0	0	0	0	0
Minicoy	31.8	+1.0	32.6	30	26.1	−0.3	23.7	28	32.1	78.0	+19.6	45.0	28	9	−0.5	8.4	6.2	−3.1	0	4	0	0	3	0	0	0	0	0	0
May																														
Amini	33.5	+0.6	35.9	23	27.6	+0.3	24.9	16	0	0.1	−112.9	0.1	1	0	−4.8	9.7	8.5	−3.7	1	0	0	0	0	0	0	0	0	0	0
Minicoy	31.8	+0.5	32.8	25	26.9	+0.7	24.3	26	45.5	128.3	−49.5	49.9	26	9	+0.3	12.8	10.0	−2.1	0	14	0	0	9	0	0	0	0	0	0
June																														
Amini	30.4	−0.2	33.8	1	25.3	−0.3	22.3	19	273.7	457.9	+89.4	64.8	20	18	+1.2	13.1	13.0	−6.8	0	24	0	0	6	0	0	0	0	0	0
Minicoy	30.5	+0.5	32.4	1, 2	25.2	0	23.1	14	88.5	294.4	−0.2	55.0	4	17	0	15.3	14.8	−4.2	3	23	0	0	8	0	0	0	0	0	0
July																														
Amini	29.1	−0.6	31.8	28	24.7	−0·6	23.1	1	143.2	437.3	+137.3	83.2	10	20	+4.3	..	..	..	2	27	0	0	0	0	0	0	0	0	0
Minicoy	29.0	−0.4	30.8	1	24.6	−0.3	22.7	12	145.1	376.7	+151.7	80.3	8	18	+4.3	19.4	18.6	−0.2	1	25	0	0	1	0	0	0	0	0	0
August																														
Amini	29.7	+0.1	30.8	18	25.4	+0.1	23.4	16	43.6	124.0	−73.1	22.3	31	10	−1.3	..	..	..	3	14	0	0	1	0	0	0	0	0	0
Minicoy	29.7	+0.4	30.6	4 days	24.6	−0.5	22.6	31	41.5	225.1	+26.7	69.4	30	12	+0.2	14.8	13.1	−3.0	2	14	0	0	2	0	0	0	0	0	0
September																														
Amini	29.1	−0.7	31.9	6	24.5	−0.7	22.6	6	58.4	350.0	+198.6	73.3	2	16	+5.9	..	..	..	0	23	0	0	1	0	0	0	0	0	0
Minicoy	28.9	−0.5	29.7	6 days	24.3	−0.8	22.1	16	112.9	335.1	+175.1	89.6	1	17	+6.9	17.6	16.6	+2.4	2	24	0	0	3	0	0	0	0	0	0
October																														
Amini	29.8	−0.4	32.1	24	25.3	+0.3	23.8	25	4.0	75.8	−70.0	35.7	27	4	−4.6	..	..	..	2	9	0	0	3	0	0	0	0	0	0
Minicoy	29.3	−0.3	31.9	5	24.4	0	22.5	19	74.1	166.0	−18.9	41.6	27	11	+0.4	14.5	12 9	+2.3	3	18	0	0	4	0	0	0	0	0	0
November																														
Amini	30.8	+0.3	33.1	26	23.7	−0.6	19.5	28	28.8	61.5	−15.2	9.9	4	9	+4.1	..	..	..	0	11	0	0	1	0	0	0	0	0	0
Minicoy	29.7	+0.2	30.9	25	23.7	+0.2	19.6	30	40.7	120.2	−19.0	34.4	5	7	−0.7	10.1	9.0	+1.0	0	11	0	0	0	0	0	0	0	0	0
December																														
Amini	31.5	+0.9	32.5	12, 15	22.7	−0.7	20.5	19, 31	0.2	15.5	−22.4	15.5	25	1	−1.0	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Minicoy	30.2	+0.5	30.7	6	22.4	−0.9	19.1	1	5.8	32.6	−53.0	23.2	25	3	−1.3	6.8	4.4	−2.5	0	4	0	0	0	0	0	0	0	0	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1014·0	1010·9	..	26·1	23·4	21·9	26·3	79	..	2·9	..	9·5	0	7	21	6	19	2	0	0	0	0	1	3	0
	1730	,,	1011·0	1007·9	..	25·8	22·9	21·5	25·6	78	..	3·6	..	13·9	0	9	20	1	26	2	0	0	0	0	0	2	0
Long Island	0830	25	1013·8	1011·0	..	26·9	23·5	21·8	26·1	74	..	4·5	..	3·3	0	0	27	1	8	8	2	0	0	4	4	4	0
	1730	,,	1011·3	1008·5	..	25·1	22·7	21·5	25·6	80	..	4·6	..	1·9	0	0	21	1	12	6	1	0	0	1	0	10	0
Port Blair	0530	79	1011·8	1002·7	..	23·4	21·8	21·0	24·5	87	..	4·5	..	8·1	0	0	19	1	13	4	0	0	0	0	1	12	0
	0830	,,	1013·5	1004·6	+0·5	28·0	24·0	22·1	26·6	70	−1	4·2	0	13·3	0	7	21	2	18	8	0	0	0	0	0	3	0
	1130	,,	1011·8	1003·0	..	28·9	24·2	21·9	26·3	67	..	4·7	..	15·6	0	7	24	2	15	13	1	0	0	0	0	0	0
	1730	,,	1011·1	1002·1	..	25·3	22·4	20·9	24·7	76	..	4·4	..	12·5	0	5	25	2	17	10	1	0	0	0	0	1	0
	2330	,,	1012·4	1003·4	..	24·3	22·1	20·7	24·4	81	..	3·3	..	10·3	0	6	17	3	12	8	0	0	0	0	0	8	0
Car-Nicobar	0830	10	1012·5	1011·3	..	27·7	24·2	22·5	27·3	74	..	3·6	..	4·7	0	0	31	0	24	4	1	0	2	0	0	0	0
	1730	,,	1009·7	1008·5	..	26·2	23·5	22·1	26·6	79	..	3·8	..	4·2	0	0	27	0	23	3	0	0	1	0	0	4	0
Nancowry	0830	26	1012·3	1009·4	..	27·2	24·6	23·4	28·8	80	..	4·9	..	1·4	0	0	9	0	0	6	1	0	1	0	1	22	0
	1730	,,	1009·6	1006·7	..	26·0	23·9	23·0	29·7	84	..	4·9	..	1·4	0	0	6	0	0	3	2	0	1	0	0	25	0
Kondul	0830	8	..	..	..	26·6	24·3	23·3	28·6	82	..	5·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·4	24·3	23·3	28·6	83	..	5·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Assam (Including Manipur Tripura)																											
Pasighat	0830	157	1018·5	1000·1	..	16·2	14·6	13·4	15·3	83	..	2·7	..	17·7	0	15	15	1	2	0	0	1	1	0	25	1	0
	1730	,,	1014·7	996·3	..	16·0	15·1	14·5	16·6	91	..	3·3	..	3·5	0	0	16	5	0	0	1	0	1	1	8	15	0
Dibrugarh (Mohanbari)	0230	111	1015·7	1002·4	..	11·4	11·1	10·8	13·2	96	..	2·7	..	1·0	0	0	5	0	4	1	0	0	0	0	0	26	0
	0530	,,	1016·3	1003·0	..	10·6	10·3	10·0	12·3	96	..	3·0	..	1·3	0	0	6	1	1	1	0	1	0	1	1	25	0
	0830	,,	1018·3	1005·2	−0.4	15·8	14·5	13·5	15·5	85	−13	3·4	+0·8	4·5	0	0	27	1	14	10	2	0	0	0	0	4	0
	1130	,,	1015·5	1002·7	..	20·6	16·3	13·1	15·1	62	..	3·1	..	4·7	0	0	27	1	12	6	2	0	1	0	5	4	0
	1430	,,	1013·3	1000·6	..	22·0	16·5	12·3	14·3	56	..	3·3	..	3·3	0	0	21	3	13	3	0	0	0	0	2	10	0
	1730	,,	1014·4	1001·4	..	16·1	14·9	13·6	15·6	82	..	3·1	..	1·1	0	0	6	0	5	1	0	0	0	0	0	25	0
	2030	,,	1016·1	1003·0	..	13·8	13·0	12·3	13·4	91	..	2·9	..	1·2	0	0	5	0	4	0	0	0	0	0	1	26	0
	2330	,,	1015·2	1002·9	..	12·4	12·0	11·7	13·9	94	..	2·7	..	1·2	0	0	5	0	3	1	0	0	0	0	1	26	0
Digboi	0830	152	1019·6	1001·7	..	16·5	15·3	14·6	16·6	88	..	2·6	..	3·8	0	0	30	2	2	4	9	4	4	5	0	1	0
	1730	,,	1015·9	998·0	..	18·1	16·6	15·5	17·6	85	..	..	..	2·0	0	0	18	1	4	5	0	1	3	2	2	13	0
North Lakhimpur	0830	102	1018·6	1006·6	+0·3	17·1	15·2	13·7	15·7	81	+1	3·0	+0·4	3·1	0	0	20	2	11	5	2	0	0	0	0	11	0
	1130	,,	1016·0	1004·2	..	21·2	16·7	13·4	15·4	62	..	3·0	..	5·8	0	0	29	1	9	9	7	1	2	0	0	2	0
	1430	,,	1013·7	1001·9	..	21·9	16·9	13·1	15·1	59	..	3·8	..	4·8	0	0	27	3	7	6	3	4	1	0	3	4	0
	1730	,,	1014·8	1002·8	..	17·0	15·6	14·6	16·7	86	..	3·3	..	3·6	0	0	16	4	2	0	1	0	0	1	8	15	0
Sibsagar	0830	97	1018·6	1007·2	0	16·0	15·2	14·6	16·6	91	−3	6·2	+0·3	2·5	0	0	19	7	6	0	0	1	5	0	0	12	0
	1730	,,	1014·5	1003·3	..	20·4	17·1	14·8	16·8	71	..	3·1	..	1·5	0	0	14	8	3	1	0	0	2	0	0	17	0
Gohpur	0830	,,	..	1008·7	..	15·9	14·8	13·9	15·9	89	..	3·2	..	2·8	0	0	30	0	17	3	6	1	2	0	1	1	0
	1730	,,	..	1004·4	..	18·8	16·6	15·1	17·1	78	..	3·5	..	1·9	0	0	19	1	7	3	5	0	0	1	2	12	0
Majbat	0830	,,	..	..	..	17·8	15·6	14·0	16·0	77	..	1·9	..	2·7	0	0	25	0	7	7	6	2	2	1	0	6	0
	1730	,,	..	..	..	18·1	15·9	14·2	16·2	79	..	1·5	..	0·4	0	0	4	1	0	0	0	2	1	0	0	27	0
Jorhat (Aerodrome)	0530	90	1015·8	1005·2	..	12·1	12·1	12·1	14·1	100	..	5·1	..	0·2	0	0	1	1	0	0	0	0	0	0	0	30	0
	0830	,,	1018·2	1007·6	..	16·4	15·1	14·2	16·2	90	..	4·3	..	1·1	0	0	7	1	4	1	0	1	0	0	0	24	0
	1130	,,	1015·7	1005·2	..	21·4	17·6	14·8	16·8	67	..	3·4	..	5·0	0	0	24	2	14	3	1	1	0	2	1	7	0
	1730	,,	1014·1	1003·6	..	17·5	15·9	14·5	16·5	85	..	2·7	..	0·9	0	0	4	1	2	1	0	0	0	0	0	27	0
	2330	,,	1016·0	1005·4	..	13·4	13·2	12·9	14·9	98	..	2·0	..	0·6	0	0	2	0	2	0	0	0	0	0	0	29	0
Tangla	0830	78	1017·4	1008·2	..	16·9	15·3	14·1	16·1	83	..	..	..	0·6	0	0	7	0	1	0	6	0	0	0	0	24	0
	1730	,,	1012·9	1003·8	..	19·8	17·9	16·5	18·8	81	..	..	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1018·3	1009·0	−0·6	15·5	14·6	13·9	15·9	89	+1	1·6	−0·4	1·5	0	0	23	3	13	5	1	0	1	0	0	8	0
	1730	,,	1014·7	1005·4	..	19·4	16·6	14·5	16·5	72	..	1·9	..	0·3	0	0	3	0	2	0	0	0	1	0	0	28	0
Golaghat	0830	95	1017·8	1006·6	..	15·9	14·9	14·1	16·1	90	..	4·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1013·6	1002·6	..	21·4	17·8	15·4	17·5	69	..	(g) 2·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangia	0830	60	1018·7	1011·7	..	18·1	16·2	14·9	16·9	81	..	1·5	..	5·4	0	0	31	2	4	17	4	0	1	2	1	0	0
	1730	,,	1015·2	1008·3	..	19·8	17·3	15·6	19·7	80	..	(a) 1·0	..	(a) 0·5	0	0	3	0	0	2	0	0	0	1	0	27	0
Chaparmukh	0830	66	1018·9	1011·1	..	17·0	15·5	14·4	16·4	85	..	(f) 1·2	..	(f) 4·0	0	0	25	1	1	17	5	1	0	0	0	0	0
	1730	,,	1013·7	1006·0	..	20·3	17·7	16·0	18·2	73	..	(l) 1·0	..	(l) 1·6	0	0	10	0	5	1	2	2	0	0	0	9	0
Goalpara	0830	38	1019·0	1014·5	..	15·9	14·6	13·6	15·6	84	..	0	..	0·3	0	0	5	1	2	0	1	0	1	0	0	26	0
	1730	,,	1016·2	1011·6	..	21·0	18·6	17·1	19·5	79	..	0	..	0·3	0	0	5	1	2	0	0	0	1	0	1	26	0
Gauhati (R)	0830																										
Gauhati (Bhorjor)	0230	54	1015·2	1008·8	..	13·3	13·1	13·0	15·0	98	..	1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1015·6	1009·1	..	12·6	12·5	12·4	14·5	99	..	2·1	..	1·0	0	0	6	1	2	0	0	2	1	0	0	25	0

(R) Registes not received. (a) Mean of 30 days (f) Mean of 25 days. (d) Mean of 19 days. (g) Mean of 24 days. (l) Mean of 19 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	(Wind speed km. p.h.): 62 or more	(Wind speed km. p.h.): 20 to	(Wind speed km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (including Manipur; Tripura) – (*Contd*).																											
Gauhati (Bhorjor) —(*Contd*).	0830	54	1018·0	1011·6	−0·1	16·6	15·5	14·7	16·8	88	+5	3·0	+1·1	1.2	0	0	13	1	7	2	0	2	0	0	1	18	0
	1130	,,	1015·5	1009·2	..	22·0	17·8	14·9	16·9	64	..	1·8	..	6·7	0	0	29	8	9	2	0	0	0	1	9	2	0
	1430	,,	1012·8	1006·6	..	23·8	17·9	13·7	15·7	53	..	2·5	..	6·5	0	0	29	5	11	2	0	0	1	3	7	2	0
	1730	,,	1013·8	1007·5	..	18·7	17·0	15·9	18·0	83	..	2·7	..	1·2	0	0	7	1	1	1	1	1	1	1	0	24	0
	2030	,,	1015·9	1009·5	..	15·6	15·0	14·6	16·6	94	..	1·6	..	0·8	0	0	5	0	0	0	0	0	4	0	1	26	0
	2330	,,	1015·8	1009·3	..	14·3	13·9	13·7	15·7	96	..	1·3	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
Dhubri (Rupsi)	0530	45	1015·2	1009·8	..	11·9	11·5	11·2	13·3	96	..	1·3	..	4·7	0	0	16	0	14	1	0	0	1	0	0	15	0
	0830	,,	1017·5	1012·1	..	16·7	15·3	14·3	16·3	85	..	1·4	..	7·2	0	0	27	0	11	11	2	0	2	1	0	4	0
	1130	,,	1015·6	1010·4	..	22·7	17·7	14·2	16·2	60	..	1·4	..	9·0	0	0	27	0	9	13	1	0	3	1	0	4	0
	1730	,,	1013·2	1008·0	..	20·6	18·0	16·3	18·5	77	..	1·1	..	2·3	0	0	10	0	5	3	0	1	1	0	0	21	0
Dhubri	0830	35	1018 3	1014·1	+0·3	16·8	15·3	14·2	16·2	85	+2	0·5	−0·8	8·0	0	1	27	0	22	3	1	1	1	0	0	3	0
	1730	,,	1014·4	1010·3	..	20·5	17·3	15·1	17·1	70	..	0·2	..	0·5	0	0	6	0	5	0	0	0	0	0	1	25	0
Lumding	0830	149	1018·1	1000·3	..	14·2	13·7	13·3	15·3	94	+3	2·5	..	1·4	0	0	19	0	8	4	6	0	1	0	0	12	0
	1730	,,	1013·7	996·5	..	21·2	18·3	16·4	18·6	74	..	2·4	..	1·3	0	0	17	0	8	3	3	0	2	0	1	14	0
Tura	0830	370	1018 1	975·1	..	16·2	13·7	11·7	13·7	74	..	7·3	..	3·4	0	0	27	0	1	19	5	1	0	0	1	4	0
	1730	,,	1013·6	971·6	..	21·9	17·1	13·7	16·0	60	..	7·0	..	2·5	0	0	24	0	1	4	3	5	5	6	0	7	0
Haflong	0830	682	1017·2	939·6	..	15·6	13·7	12·3	14·3	79	..	2·9	..	7·1	0	0	31	0	0	0	0	0	0	0	31	0	0
	1730	,,	1012·4	935·7	..	17·7	14·6	12·4	14·5	71	..	2·3	..	5·7	0	0	31	0	0	0	0	0	0	0	31	0	0
Silchar (Kumbhirgram)	0530	97	1014·1	1002·7	..	13·8	13·1	12·5	15·0	91	..	1·9	..	8·1	0	0	30	0	0	30	0	0	0	0	0	1	0
	0830	,,	1016·2	1004·0	..	17·9	15·4	13·5	15·5	76	..	1·5	..	9·6	0	0	31	0	0	31	0	0	0	0	0	0	0
	1130	,,	1013·7	1002·6	..	23·0	17·2	12·9	14·9	51	..	2·0	..	7·6	0	0	31	0	1	12	11	5	2	0	0	0	0
	1730	,,	1012·3	1001·1	..	19·8	16·7	14·5	16·5	74	..	1·7	..	6·1	0	0	27	2	6	14	1	0	2	2	0	4	0
Silchar	0830	29	1017·5	1014·1	−0·2	17·5	15·9	14·5	16·5	83	0	1·9	−0.1	1·2	0	0	19	1	7	5	2	2	1	0	1	12	0
	1730	,,	1013·3	1009·9	..	21·3	17·9	15·5	17·6	70	..	1·9	..	0·2	0	0	3	0	1	1	0	0	0	0	1	28	0
Imphal (Tulihal)	0530	781	1019·4	928·5	..	7·5	7·2	6·9	9·9	95	..	5·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1020·1	930·3	−0·6	11·9	10·6	9·5	12·1	86	+5	5·1	+2·2	0·3	0	0	2	0	0	0	0	1	1	0	0	29	0
	1130	,,	1015·4	927·9	..	18·1	13·5	9·8	12·1	59	..	3·1	..	5·2	0	0	22	0	0	1	3	11	2	3	2	9	0
	1430	,,	1012·1	925·5	..	20·6	14·0	8·6	11·2	47	..	3·3	..	9·9	0	0	30	1	0	0	2	11	8	3	5	1	0
	1730	,,	1014·8	926·5	..	15·3	12·3	9·8	12·3	71	..	3·1	..	4·8	0	0	18	0	0	1	3	2	2	2	8	13	0
	2030	,,	1017 9	928·3	..	11·3	10·3	9·4	11·8	86	..	2·4	..	0·7	0	0	3	0	0	0	0	1	0	0	2	28	0
	2330	,,	1018·6	928·4	..	9·7	9·0	8·3	10·9	91	..	2·9	..	0·6	0	0	3	0	1	0	0	0	0	1	1	28	0
Kailashahar	0530	29	1015·8	1012·4	..	13·2	12·9	12·7	14·7	96	..	1·6	..	0·8	0		9	0	1	2	0	4	1	1	0	22	0
	0830	,,	1017·6	1014·1	..	17·9	16·2	15·0	17·0	83	..	1·9	..	1·6	0	0	18	1	1	0	1	4	8	1	2	13	0
	1130	,,	1015·8	1012·4	..	24·3	19·0	15·5	17·6	58	..	2·3	..	3·4	0	0	21	2	3	4	1	3	4	2	2	10	0
	1730	,,	1013·8	1010·4	..	20·9	18·4	16·8	19·1	76	..	1·5	..	0·3	0	0	3	2	0	1	0	0	0	0	0	28	0
Agartala	0230	16	1013·8	1011·9	..	14·2	13·5	12 9	14·9	92	..	1·0	..	1·0	0	0	4	1	2	0	1	0	0	0	0	27	0
	0530	,,	1014·0	1012·1	..	13·2	12·8	12·5	14·5	95	..	1·7	..	2·1	0	0	11	1	5	1	4	0	0	0	0	20	0
	0830	,,	1016·2	1014·3	−0·1	19·4	17·2	15·7	17·8	79	0	1·8	+0·6	3·5	0	0	16	4	4	0	2	2	2	0	2	15	0
	1130	,,	1014·4	1012·6	..	24·8	18·4	14·0	16·0	51	..	1·9	..	7·4	0	0	28	9	4	1	0	2	5	2	5	3	0
	1430	,,	1012·4	1010·6	..	25·8	18·5	13·4	15·4	46	..	2·7	..	6·4	0	0	25	2	4	2	1	0	2	5	9	6	0
	1730	,,	1012·9	1011·0	..	20·8	17·6	15·4	17·5	71	..	1·9	..	1·3	0	0	9	5	0	1	0	0	0	0	3	22	0
	2030	,,	1014·8	1012·9	..	17·1	15·8	14·9	16·9	86	..	1·7	..	2·6	0	0	13	0	6	3	2	0	0	0	2	18	0
	2330	,,	1014·5	1012·6	..	15·4	14·5	13·8	15·9	91	..	1·2	..	1·5	0	0	9	1	2	2	4	0	0	0	0	22	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1015·1	999·5	..	11·6	11·0	10·4	12·6	92	..	0·7	..	1·9	0	0	11	7	2	0	0	0	0	1	1	20	0
	0530	,,	1015·5	999·8	..	10·7	10·2	9·7	12·0	93	..	1·5		2·2	0	0	14	6	4	1	0	0	0	0	3	17	0
	0830	,,	1017·7	1002·3	−0·1	16·9	14·8	13·1	15·1	79	+3	1·8		3·5	0	0	17	4	8	1	0	0	1	0	2	14	1
	1130	,,	1015·9	1000·7	..	22·8	17·0	2·7	14·7	53	..	1·3	..	8·1	0	1	29	1	4	10	10	0	3	2	0	1	0
	1730	,,	1013·8	998·5	..	18·5	15·9	3·8	15·8	76	..	2·7	..	1·5	0	0	6	0	1	0	0	0	2	2	1	25	0
	2330	,,	1015·8	1000·2	..	12·6	11·9	11·3	13·4	91	..	1·2	..	3·7	0	0	20	14	3	0	0	0	0	2	1	11	0
Jalpaiguri	0830	83	1017·7	1007·8	−0·3	14·3	13·4	12·7	14·7	90	+6	1·5	+0·5	2·5	0	0	26	13	4	1	0	0	0	2	6	5	0
	1730	,,	1013·5	1004·0	..	21·7	16·9	13·4	15·4	59	..	0·5	..	0·3	0	0	5	0	0	2	0	0	1	2	0	26	0
Cooch Behar	0830	43	1018·0	1013·0	..	16·8	15·1	13·8	15·8	82	..	1·0	..	5·3	0	0	26	0	8	17	0	0	0	1	0	5	0
	1130	,,	1016·1	1011·1	..	22·7	17·4	13·6	15·6	56	..	1·4	..	9·8	0	1	29	0	5	19	2	0	1	2	0	1	1
	1730	,,	1014·1	1009·1	..	19·1	16·5	14·7	16·7	76	..	1·3	..	0·2	0	0	3	0	0	0	0	1	0	0	0	30	0
Balurghat	0830	26	1016·4	1013·4	..	18·4	15·3	12·9	14·9	71	..	1·2	..	2·6	0	0	23	6	4	1	1	1	2	3	5	8	0
	1730	,,	1012·7	1009·7	..	20.7	17·0	14·4	16·4	68	..	0·3	..	0·5	0	0	6	0	0	0	0	0	4	0	1	25	0
Malda	0830	31	1017·5	1013·8	−0·6	17·9	14·9	12·7	14·7	71	−2	1·5	+0·9	2·0	0	0	19	9	3	1	0	0	2	0	4	12	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (ktas): Mean amount	Cloud amount (ktas): Departure from normal	Mean wind speed in km. per hour	wind speed (km. p. h.): 62 or more	wind speed (km. p. h.): 20 to 61	wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West Bengal)—(*Contd.*)																											
Malda—(*Contd.*)	1730	31	1013·8	1009·9	..	21·6	17·0	13·7	15·8	61	..	1·8	..	1·2	0	0	14	6	1	0	0	0	0	2	5	17	0
Gangetic West Bengal																											
Berhampore	0830	19	1017·2	1015·0	−0·7	17·5	15·1	13·2	15·2	78	+2	1·6	+0·2	0·6 (d)	0	0	8	2	0	1	0	3	0	2	0	19	0
	1730	,,	1013·5	1011·2	..	21·4	17·4	14·6	16·6	65	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	27	0
Suri	0830	,,	..	..	..	19·5	15·0	11·3	13·4	59	..	0·5	..	3·0	0	0	31	6	0	1	0	2	0	17	5	0	0
Asansol	0230	126	1015·6	1000·6	..	13·1	11·7	10·4	12·6	83	..	0·5	..	1·2	0	0	9	0	0	0	0	0	0	1	8	22	0
	0530	,,	1016·1	1001·1	..	12·7	11·4	10·2	12·4	84	..	0·9	..	2·6	0	0	16	0	0	0	0	0	0	9	7	15	0
	0830	,,	1018·0	1003·3	+0·2	18·0	14·6	11·8	13·8	68	+1	1·2	−0·2	6·1	0	1	27	1	0	0	0	0	0	12	15	3	0
	1130	,,	1016·1	1001·7	..	24·9	16·9	10·6	12·8	41	..	0·9	..	8·5	0	0	31	5	5	2	1	0	1	7	10	0	0
	1440	,,	1013·3	999·0	..	26·3	17·1	9·7	12·0	35	..	1·7	..	9·2	0	0	31	2	7	2	0	0	1	5	14	0	0
	1730	,,	1014·1	999·5	..	21·0	15·9	12·0	14·0	56	..	1·2	..	2·2	0	0	13	4	0	0	0	0	0	2	7	18	0
	2330	,,	1016·3	1001·3	..	14·2	12·3	10·6	12·8	79	..	0·5	..	2·1	0	0	10	2	0	0	0	0	0	2	6	21	0
Shanti Niketan	0830	59	1016·5	1010·9	..	18·3	15·1	12·6	14·6	69	..	1·2	..	5·0	0	0	27	11	1	0	0	0	0	2	13	4	0
	1130	,,	1106·5	1009·7	..	24·5	17·1	11·4	13·5	45	..	1·3	..	4·8	0	0	30	13	3	0	0	0	1	3	10	1	0
	1730	,,	1014·0	1007·1	..	20·0	16·1	13·2	15·1	65	..	1·2	..	2·8	0	0	20	9	2	0	0	0	3	1	5	11	0
Krishnagar	0830	15	1017·3	1015·6	−0·5	18·8	15·8	13·6	15·7	72	−2	0	−1·3	0·4	0	0	4	2	1	0	0	0	0	0	1	27	0
	1730	,,	1013·4	1011·7	..	22·6	17·8	14·5	16·5	61	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Purulia	0830	255	1018·4	988·8	−0·1	17·7	13·8	10·4	12·6	62	+3	2·0	+1·1	4·1	0	0	31	7	1	0	0	2	2	6	13	0	0
	1730	,,	1014·0	985·0	..	22·2	16·5	12·1	14·1	53	..	2·1	..	1·5	0	0	15	7	0	0	0	0	0	4	4	16	0
Bankura	0830	100	1017·5	1005·8	..	18·1	14·7	12·0	14·0	69	..	0·6	..	1·5	0	0	23	1	2	1	0	0	1	7	11	8	0
	1730	,,	1013·6	1002·2	..	23·4	17·4	13·0	15·0	52	..	0·5	..	0·3	0	0	5	1	1	0	0	0	0	0	3	26	0
Burdwan	0830	32	1017·3	1013·5	−0·6	19·2	15·4	12·4	14·4	65	−3	0·5	−0·9	1·3	0	0	15	7	1	1	1	0	1	1	3	16	0
	1730	,,	1013·4	1009·7	..	23·9	17·0	11·7	13·7	47	..	0·3	..	1·2	0	0	15	5	0	1	1	0	1	0	7	16	0
Barrackpore (Aerodrome)	0530	7	1015·2	1014·4	..	13·8	13·0	12·3	14·3	92	..	0·5	..	1·5	0	0	7	4	1	1	0	0	0	0	1	24	0
	0830	,,	1017·4	1016·6	−0·1	18·6	16·1	14·3	16·3	76	+2	0·8	−0·3	4·8	0	0	25	10	3	2	0	0	0	2	8	6	0
	1130	,,	1016·0	1015·2	..	24·6	17·9	12·2	14·2	48	..	0·9	..	7·6	0	0	30	14	3	1	1	0	2	2	7	1	0
	1730	,,	1013·8	1013·0	..	21·9	17·9	15·1	17·1	66	..	1·1	..	2·3	0	0	16	4	2	1	0	1	1	2	5	15	0
	2330	,,	1015·7	1014·9	..	15·7	14·5	13·6	15·6	86	..	0·4	..	0·3	0	0	2	1	1	0	0	0	0	0	0	29	0
Calcutta (Dum-Dum)	0230	6	1014·4	1013·7	..	15·1	14·2	13·5	15·5	91	..	0·6	..	1·4	0	0	12	4	3	0	1	0	1	1	2	19	0
	0530	,,	1014·8	1014·1	..	14·2	13·5	12·9	14·9	91	..	0·6	..	0·9	0	0	11	4	3	0	0	0	0	1	3	20	0
	0830	,,	1017·1	1016·4	0	18·7	16·0	14·0	16·0	75	+2	0·8	−0·5	3·6	0	0	29	8	4	2	0	0	3	2	10	2	0
	1130	,,	1015·6	1014·9	..	24·9	17·9	12·7	14·7	47	..	1·7	..	5·1	0	0	30	7	6	0	2	1	0	3	11	1	0
	1430	,,	1013·1	1012·4	..	26·2	18·4	12·9	14·9	44	..	1·6	..	5·2	0	0	30	7	3	0	1	0	2	1	16	1	0
	1730	,,	1013·5	1012·8	..	22·4	17·9	14·8	16·8	62	..	1·7	..	1·0	0	0	12	5	1	0	0	1	1	1	3	19	0
	2030	,,	1015·3	1014·6	..	18·1	16·3	15·1	17·1	83	..	0·7	..	0·7	0	0	5	2	0	0	0	0	0	2	1	26	0
	2330	,,	1015·2	1014·5	..	16·3	15·2	14·4	16·4	88	..	0·6	..	0·6	0	0	5	2	2	0	0	0	0	0	1	26	0
Calcutta	0830	6	1016·9	1016·1	−0·8	19·8	16·1	13·3	15·3	67	−10	0·6	−0·8	3·4	0	0	22	6	2	2	0	0	1	2	9	9	0
	1130	,,	1015·1	1014·4	..	25·5	17·9	12·3	14·3	44	..	1·2	..	5·0	0	0	29	5	2	1	2	1	1	3	14	2	0
	173	,,	1013·2	1012·4	..	22·2	17·3	13·8	15·8	59	..	1·1	..	0·6	0	0	7	1	0	0	0	0	0	0	6	24	0
Midnapore	0830	45	1017·4	1012·0	−0·4	19·8	15·1	11·3	13·4	57	−6	0·4	−0·9	1·8	0	0	20	11	5	1	0	0	0	1	0	11	2
	1730	,,	1013·6	1008·3	..	23·6	17·3	12·7	14·7	50	..	0·8	..	0·3	0	0	5	2	3	0	0	0	0	0	0	26	0
Contai	0830	11	1017·1	1015·8	+0·3	19·2	16·3	14·2	16·2	73	−1	0·6	−0·3	4·0	0	0	30	27	0	0	0	0	1	0	2	1	0
	1730	,,	1013·5	1012·3	..	22·6	18·6	16·0	18·2	66	..	0·5	..	1·3	0	0	17	3	1	0	0	11	2	0	0	14	0
Sagar Island	0830	3	1016·5	1016·1	−0·9	20·3	17·5	15·6	17·7	75	−2	1·2	−0·7	11·3	0	2	29	12	8	1	0	0	0	2	8	0	0
	1730	,,	1012·9	1012·6	..	22·5	18·7	16·2	18·3	71	..	1·3	..	7·8	0	0	30	7	3	0	0	4	9	1	6	1	0
Sandheads	0530	10	1013·5	1012·4	..	22·1	18·8	16·7	19·0	71	..	0·9	..	11·3	0	5	20	10	8	0	0	0	1	2	4	6	0
	0830	,,	1016·6	1015·5	−0·7	24·3	19·7	16·9	19·3	63	+5	1·1	−0·7	12·1	0	5	22	13	11	0	0	0	0	1	2	4	0
	1130	,,	1015·5	1014·4	..	27·4	20·9	17·1	19·5	53	..	0·7	..	12·1	0	6	23	10	11	0	0	0	0	1	7	2	0
	1730	,,	1012·9	1011·8	..	23·8	19·1	16·1	18·3	62	..	1·1	..	8.0	0	1	22	11	3	1	0	1	2	2	3	8	0
	2330	,,	1014·7	1013·6	..	22·8	19·0	16·6	18·9	67	..	0·2	..	9·5	0	5	19	13	1	0	2	1	2	1	4	7	0
Orissa																											
Baripada	0830	54	1018·5	1012·1	..	18·2	14·7	11·9	13·9	66	..	0·9	..	2·2	0	0	21	11	7	0	0	0	0	0	3	10	0
	1730	,,	1014·7	1008·4	..	21·6	16·6	12·9	14·9	58	..	1·0	..	0·1	0	0	2	0	0	1	0	1	0	0	0	29	0
Jharsuguda	0230	230	1015·5	988·4	..	14·0	12·2	10·6	12·8	80	..	0·5	..	1·0	0	0	3	3	0	0	0	0	0	0	0	28	0
	0530	,,	1016·0	988·7	..	12·2	11·1	10·1	12·3	86	..	1·6	..	2·0	0	0	11	8	3	0	0	0	0	0	0	20	0
	0830	,,	1018·1	951·2	+0·2	16·8	13·4	10·4	12·6	66	−1	2·0	+0·7	5·5	0	0	21	10	10	0	0	0	1	0	0	10	0
	1130	,,	1016·3	990·0	..	24·0	15·9	9·0	11·5	39	..	1·7	..	5·7	0	0	23	8	5	4	3	1	1	4	2	8	0
	1730	,,	1013·5	987·2	..	23·2	15·6	9·1	11·5	41	..	1·9	..	1·7	0	0	8	0	1	1	0	0	4	2	0	23	0
	2330	,,	1016·0	989·1	..	16·0	13·3	11·0	13·1	71	..	0·6	..	1·3	0	0	6	2	1	0	3	0	0	0	0	25	0

(d) Mean of 27 days.

(a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(Contd.)																											
Keonjhargarh	0830	463	1018·1	965·4	..	19·4	16·0	13·7	15·7	71	..	1·3	..	1·8	0	0	29	16	1	1	0	0	0	6	5	2	0
	1730	,,	1013·3	961·5	..	22·6	18·1	15·4	17·5	65	..	0·9	..	1·2	0	0	19	4	1	0	0	0	0	10	4	12	0
Balasore	0830	20	1017·2	1014·9	−0·6	18·8	15·5	13·0	15·0	70	0	(j) 1·7	+0·2	(j) 3·4	0	0	(m) 18	12	2	0	0	0	0	0	4	3	0
	1730	,,	1013·5	1011·2	..	22·2	18·3	15·7	17·8	66	..	(i) 1·4	..	(i) 1·8	0	0	11	1	0	0	2	8	0	0	0	11	0
Sambalpur	0830	148	1017·9	1000·6	−0·2	19·2	15·4	12·4	14·4	66	−7	1·3	−0·1	2·3	0	0	25	4	10	5	5	1	0	0	0	6	0
	1730	,,	1013·6	996·6	..	22·7	16·7	12·1	14·1	52	..	0·7	..	0·2	0	0	3	1	0	0	0	0	0	0	2	28	0
Angul	0830	139	1017·9	1001·7	+0·3	18·1	15·0	12·5	14·5	70	−2	2·0	+0·4	4·5	0	0	29	1	0	0	1	0	2	16	9	2	0
	1730	,,	1013·9	998·0	..	24·5	17·6	12·5	14·5	47	..	2·0	..	3·3	0	0	28	11	7	3	0	0	0	5	2	3	0
Cuttack	0830	27	1017·5	1014·4	−0·3	19·5	16·1	13·6	15·7	69	−6	1·2	−0·6	2·4	0	0	15	1	1	1	0	0	1	5	6	16	0
	1730	,,	1013·6	1010·5	..	26·3	19·8	15·7	17·8	52	..	1·2	..	1·3	0	0	11	0	1	2	0	0	0	5	3	20	0
Chandbali	0830	6	1017·2	1016·5	0	19·5	16·4	14·1	16·1	71	−4	0·6	−1·1	6·0	0	0	29	8	0	1	0	0	0	3	17	2	0
	1730	,,	1013·7	1013·0	..	23·3	17·9	14·1	16·1	57	..	0·9	..	3·4	0	0	28	2	12	11	1	0	2	0	0	3	0
Bolangir	0830	190	1018·1	995·8	..	19·3	15·3	12·1	14·1	63	..	1·7	..	3·6	0	0	30	5	4	0	8	10	2	0	1	1	0
	1730	,,	1013·6	991·9	..	24·0	17·3	12·3	14·3	47	..	1·5	..	2·4	0	0	26	8	7	2	1	3	2	1	1	5	1
Phubani	0830	464	1016·8	963·1	..	14·3	12·5	11·1	13·2	80	..	0·2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1011·8	959·6	..	21·8	16·7	13·3	15·3	57	..	0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Titlagarh	0830	211	1018·0	993·4	..	18·2	15·1	12·7	14·7	71	..	0·5	..	1·7	0	0	27	1	1	5	7	5	5	0	3	4	0
	1730	,,	1014·0	990·0	..	24·0	17·8	13·4	15·4	51	..	0·6	..	1·0	0	0	16	2	9	1	1	0	0	0	3	15	0
Bhubaneswar	0230	46	1014·7	1009·3	..	16·6	14·7	13·2	15·2	80	..	0·4	..	4·1	0	1	23	4	7	0	0	0	2	1	8	7	0
	0530	,,	1015·2	1009·8	..	15·8	14·0	12·5	14·5	81	..	0·6	..	4·6	0	1	21	2	4	0	0	0	2	2	12	9	0
	0830	,,	1017·5	1012·1	+0·1	22·0	16·6	12·5	14·5	55	−13	1·0	−0·7	7·3	0	1	29	6	10	0	0	1	0	2	11	1	0
	1130	,,	1016·1	1010·9	..	26·2	17·6	11·0	13·1	39	..	1·2	..	10·8	0	4	26	4	13	7	1	0	2	1	2	1	0
	1430	,,	1013·1	1008·0	..	27·7	17·8	10·1	12·3	33	..	1·4	..	6·8	0	1	28	3	8	7	0	3	0	0	8	2	0
	1730	,,	1013·8	1008·6	..	24·3	17·4	12·3	14·3	47	..	1·3	..	4·8	0	0	29	6	4	6	2	1	0	1	9	2	0
	2330	,,	1015·7	1010·3	..	18·3	15·8	13·9	15·9	75	..	0·3	..	3·7	0	0	24	4	3	2	2	3	4	2	4	7	0
Puri	0830	6	1017·4	1016·7	+0·2	21·3	17·0	13·9	15·9	62	−10	0·7	−0·7	7·8	0	0	31	20	2	0	0	0	0	0	9	0	0
	1730	,,	1013·8	1013·1	..	24·4	19·4	16·2	18·4	60	..	0·9	..	7·8	0	1	27	12	4	2	1	1	7	0	1	3	0
Gopalpur	0530	17	1014·9	1012·9	..	16·6	15·1	13·9	15·9	84	..	1·1	..	6·9	0	0	31	16	0	0	0	0	0	0	15	0	0
	0830	,,	1017·3	1015·3	0	19·8	16·8	14·7	16·7	72	0	1·4	0	9·5	0	0	31	17	0	0	0	0	0	0	14	0	0
	1130	,,	1016·2	1014·2	..	26·5	19·0	13·9	15·9	45	..	1·5	..	7·3	0	0	27	11	3	7	3	0	0	0	3	4	0
	1730	,,	1013·8	1011·8	..	24·6	19·4	16·1	18·3	59	..	1·8	..	7·5	0	0	30	0	2	14	10	4	0	0	0	1	0
	2330	,,	1015·5	1013·5	..	19·3	17·1	15·6	17·7	79	..	0·4	..	3·8	0	0	26	10	0	0	0	0	0	0	16	5	0
Koraput (R)	0830	913																									
(R)	1730	,,																									
BIHAR PLATEAU																											
Dumka	0830	149	1017·9	1000·4	−0·2	17·1	14·2	11·8	13·8	71	+5	1·2	+0·3	3·7	0	0	22	2	1	7	7	3	4	5	0	9	0
	1730	,,	1014·1	997·0	..	21·2	16·2	12·4	14·4	57	..	0·2	..	0·3	0	0	2	0	0	0	0	0	0	0	2	29	0
Daltonganj	0830	221	1019·3	993·4	+0·6	15·6	12·7	10·1	12·3	70	−9	1·1	+0·1	1·9	0	0	23	1	4	2	3	7	3	1	2	8	0
	1730	,,	1012·8	987·6	..	22·2	16·1	11·3	13·4	50	..	0·5	..	3·2	0	0	31	8	3	0	0	1	8	7	4	0	0
Hazaribagh	0830	611	1017·9	947·7	−0·2	15·2	11·9	9·1	11·5	67	+6	1·1	−0·2	5·2	0	0	22	2	2	2	1	1	2	1	11	9	0
	1730	,,	1014·3	945·1	..	18·3	13·2	9·0	11·5	55	..	1·8	..	5·0	0	0	24	6	1	0	0	1	1	0	15	7	0
Dhanbad	0830	257	1017·3	987·4	..	18·0	14·0	10·6	12·8	61	..	0·3	..	1·5	0	0	14	0	3	0	1	0	1	5	4	17	0
	1730	,,	1013·8	984·3	..	20·7	15·2	10·7	12·9	52	..	0·1	..	0·8	0	0	8	1	0	0	1	0	0	4	2	22	0
Ranchi	0830	655	1016·7	941·2	−1·7	12·7	8·3	3·9	8·1	52	−6	1·0	−0·4	1·1	0	0	15	2	1	3	1	1	1	0	6	16	0
	1730	,,	1013·0	939·4	..	19·2	14·0	9·9	12·2	55	..	0·9	..	0·6	0	0	9	1	0	1	0	0	0	1	6	22	0
Ranchi Aerodrome	0530	652	1016·4	941·1	..	11·8	9·8	7·9	10·7	77	..	1·1	..	5·1	0	0	22	10	0	0	0	1	0	3	8	9	0
	0830	,,	1017·5	943·1	..	15·8	12·1	8·9	11·4	65	..	1·5	..	8·0	0	2	23	6	3	3	0	0	0	3	10	6	0
	1130	,,	1015·3	942·4	..	21·1	13·8	7·7	10·5	42	..	1·5	..	13·8	0	4	26	6	4	3	1	2	0	4	8	1	2
	1430	,,	1012·3	939·9	..	22·7	14·7	8·2	10·9	38	..	1·8	..	13·7	0	8	22	8	5	4	2	2	0	1	8	1	0
	1730	,,	1013·1	940·2	..	20·8	13·6	7·5	11·1	42	..	1·5	..	11·2	0	2	29	14	3	1	2	0	1	2	8	0	0
Jamshedpur	0830	129	1017·7	1002·5	−0·4	15·9	13·6	11·7	13·7	76	+1	0·9	−0·7	1·8	0	0	21	7	0	1	0	0	0	1	12	10	0
	1730	,,	1013·3	998·5	..	22·8	17·3	13·3	15·3	56	..	1·3	..	0·4	0	0	3	1	1	1	0	0	0	0	0	28	0
Jamshedpur (P.B.O.)	0530	142	1016·0	999·2	..	12·9	11·6	10·4	12·6	86	..	0·8	..	2·2	0	0	13	0	0	0	0	1	5	5	2	18	0
	0830	,,	1018·1	1001·4	..	16·9	13·7	11·0	13·1	68	..	1·0	..	3·3	0	0	23	1	0	0	0	1	5	10	6	8	0
	1130	,,	1016·2	999·9	..	23·0	16·3	11·0	13·1	46	..	1·0	..	4·4	0	0	26	4	0	1	0	1	1	6	13	5	0
	1430	,,	1013·1	996·9	..	25·5	16·9	10·0	12·3	37	..	1·5	..	6·5	0	0	31	3	4	1	0	2	2	1	18	0	0
	1730	,,	1013·7	997·4	..	22·7	16·6	11·9	13·9	51	..	1·6	..	0·8	0	0	6	3	2	0	0	0	0	1	0	25	0
	2330	,,	1016·0	999·3	..	15·3	13·3	11·6	13·7	80	..	0·6	..	2·2	0	0	15	0	1	0	0	2	1	4	7	16	0

(R) Register not received (i) Mean of 22 days. (j) Mean of 21 days. (m) Mean of 18 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau (*Contd.*)																											
Chaibasa	0830	226	1017·9	991·3	−0·3	16·6	15·5	10·8	12·9	68	−8	1·7	+0·2	2·5	0	0	21	0	1	0	1	0	18	0	1	10	0
	1730	,,	1013·3	987·4	..	22·4	16·3	11·5	13·6	51	..	1·5 (b)	..	0·3 (b)	0	0	3	0	0	0	0	0	3	0	0	28	0
Bihar plains																											
Motihari	0830	66	1018·1	1010·2	+0·1	16·3	14·3	13·0	15·0	81	+1	1·5	+0·3	2·1	0	0	22	3	5	7	0	0	0	4	3	7	0
	1730	,,	1014·2	1006·4	..	19·7	16·4	14·0	16·0	71	..	0·5	..	0·3	0	0	1	0	0	0	0	0	0	1	0	30	0
Forbesganj	0830	61	1017·7	1010·5	..	15·2	14·0	13·0	15·0	87	..	1·8	..	2·2	0	0	26	0	6	11	1	0	1	6	1	5	0
	1730	,,	1013·6	1006·6	..	20·1	16·6	14·0	16·0	68	..	1·3	..	0·6	0	0	7	0	0	0	0	0	1	5	1	24	0
Darbhanga	0830	49	1018·6	1012·8	+0·5	18·6	15·5	13·1	15·1	70	−13	1·0	+0·1	1·2	0	0	12	0	1	1	0	0	2	6	2	19	0
	1730	,,	1015·1	1009·3	..	21·9	17·2	14·0	16·0	61	..	1·1	..	0·2	0	0	2	0	0	0	0	0	0	2	0	29	0
Chapra	0830	58	1018·2	1011·3	..	15·5	13·9	11·0	13·1	75	..	1·1	..	1·9	0	0	25	1	4	0	0	0	15	2	3	6	0
	1730	,,	1014·4	1007·7	..	19·5	15·9	13·2	15·2	66	..	0	..	2·1	0	0	27	0	0	0	0	0	12	9	6	4	0
Purnea	0830	38	1017·5	1013·1	−0·6	16·2	14·0	12·2	14·2	77	−8	0·7	−0·2	1·6	0	0	19	0	1	6	0	0	3	9	0	12	0
	1730	,,	1014·2	1009·8	..	19·7	16·4	14·0	16·0	70	..	0·7	..	0.6	0	0	8	0	0	0	0	0	4	3	1	23	0
Patna	0830	53	1017·8	1011·5	−0·6	15·2	13·4	11·9	13·9	81	+11	1·7	+0·7	4·3	0	0	25	1	2	0	0	9	4	7	2	6	0
	1730	,,	1014·2	1008·1	..	21·0	16·2	12·6	14·6	58	..	1·4	..	3·9	0	0	23	3	1	0	0	0	0	15	4	8	0
Patna Aerodrome	0530	60	1015·2	1008·1	..	11·4	10·6	9·8	12·1	90	..	1·2	..	2·4	0	0	12	1	0	0	0	0	2	8	1	19	0
	0830	,,	1017·6	1010·5	..	15·6	13·3	11·3	13·4	76	..	2·2	..	5·0	0	0	23	2	1	0	2	0	6	9	3	8	0
	1130	,,	1016·4	1009·5	..	22·4	15·9	10·4	12·6	47	..	1·9	..	7·0	0	0	30	3	2	3	2	0	3	8	8	1	0
	1430	,,	1013·8	1007·0	..	24·1	16·1	9·5	11·9	39	..	2·5	..	9·4	0	4	27	3	4	0	0	0	1	9	14	0	0
	1730	,,	1014·0	1007·1	..	20·0	15·6	12·2	14·2	60	..	2·2	..	2·8	0	0	14	1	0	0	0	0	0	3	10	17	0
	2330	52	1015·7	1008·7	..	13·9	12·4	11·3	13·4	84	..	0·3	..	2·2	0	0	10	1	2	0	0	0	0	2	5	21	0
Bhagalpur	0530	49	1015·7	1009·8	..	13·5	12·3	11·2	13·3	86	..	2·1	..	2·7	0	0	17	1	0	0	1	3	10	2	0	14	0
	0830	,,	1018·1	1012·3	−0·1	16·1	13·8	11·8	14·0	76	0	2·3	+1·3	3·0	0	0	18	1	0	1	1	1	9	5	0	13	0
	1130	,,	1016·8	1011·1	..	21·5	16·1	11·9	13·9	54	..	2·7	..	6·2	0	1	26	0	3	2	3	0	1	12	6	4	0
	1730	,,	1014·3	1008·6	..	20·4	15·9	12·5	14·5	60	..	2·9	..	4·4	0	0	26	1	0	2	1	0	5	15	2	5	0
	2330	,,	1016·2	1010·4	..	16·0	13·8	12·0	14·0	77	..	1·7	..	3·3	0	0	19	0	0	1	1	0	15	2	0	12	0
Sabaur	0830	37	1017·9	1013·5	0	16·7	14·8	13·3	15·3	81	−1	1·7	+0·4	2·6	0	0	20	0	2	0	0	1	3	11	3	11	0
	1730	,,	1014·0	1009·7	..	20·8	17·3	14·9	16·9	69	..	2·0	..	1·5	0	0	15	1	0	0	0	0	0	1	13	16	0
Jamui	0830	82	1017·7	1008·0	..	16·0	14·8	13·9	15·9	87	..	0	..	3·4	0	0	31	1	7	13	2	1	0	2	5	0	0
	1730	,,	1013·0	1003·3	..	16·4	14·8	13·6	15·6	83	..	0	..	3·3	0	0	31	1	5	20	1	1	0	3	0	0	0
Dehri	0830	107	1017·7	1005·0	..	16·5	14·0	11·9	13·9	75	..	1·7	..	2·2	0	0	25	0	0	2	1	6	12	2	2	6	0
	1730	,,	1014·3	1002·2	..	22·7	16·2	11·0	13·1	48	..	1·7	..	3·8	0	0	30	1	1	1	0	2	1	22	2	1	0
Gaya	0230	116	1016·2	1002·3	..	11·9	10·9	9·9	12·2	88	..	0·1	..	1·2	0	0	15	0	0	0	2	6	5	0	2	16	0
	0530	,,	1016·3	1002·4	..	10·9	10·3	9·7	12·0	91	..	0·3	..	1·6	0	0	18	0	0	0	2	10	4	0	2	13	0
	0830	,,	1018·2	1004·5	+0·3	15·9	13·4	11·3	13·4	74	+7	1·2	+0·2	3·0	0	0	23	0	0	0	2	5	12	3	1	8	0
	1130	,,	1017·2	1003·8	..	22·9	16·4	11·3	13·4	48	..	1·4	..	6·9	0	0	31	3	3	1	1	2	2	5	13	0	1
	1730	,,	1014·5	1001·0	..	21·2	15·5	10·9	13·3	52	..	1·7	..	3·2	0	0	27	5	5	3	0	0	0	3	11	4	0
	2330	,,	1016·7	1002·9	..	13·8	12·1	10·6	12·8	81	..	0·1	..	1·2	0	0	16	0	0	0	2	7	4	1	2	15	0
Uttar Pradesh East																											
Kheri	0830	147	1017·1	999·4	−1·1	11·4	10·0	9·3	11·7	88	+8	1·7	+0·5	1·7	0	0	17	1	0	2	0	0	0	14	0	14	0
	1730	,,	1014·0	996·9	..	18·9	15·6	13·0	15·0	70	..	1·3	..	1·2	0	0	12	0	1	2	0	0	0	9	0	19	0
Bahraich	0830	124	1018·3	1003·4	+0·5	12·8	11·6	10·4	12·6	86	+6	2·2	+1·2	1·8	0	0	11	0	0	2	0	0	0	6	3	20	0
	1730	,,	1014·8	1000·4	..	19·7	15·6	12·5	14·5	64	..	2·5	..	1·5	0	0	12	0	0	1	0	0	0	9	2	19	0
Nautanwa	0830	99	1017·4	1005·7	..	13·1	12·2	11·5	13·6	90	..	0·7	..	1·0	0	0	15	0	2	5	3	1	1	1	2	16	0
	1730	,,	1014·7	1003·2	..	19·4	15·8	12.9	14·9	67	..	0·9	..	0·6	0	0	10	1	1	1	0	0	5	0	2	21	0
Hardoi	0830	142	1018·7	1001·7	+0·9	12·4	10·5	8·4	11·4	78	−5	1·2	−0·4	3·0	0	0	23	3	1	2	1	0	1	9	6	8	0
	1730	,,	1016·5	999·8	..	18·4	14·7	11·6	13·7	67	..	0·8	..	2·1	0	0	22	3	0	2	2	1	0	11	3	9	0
Gonda	0830	110	1017·7	1004.5	..	15·1	13·0	11·2	14·2	79	−3	1·1	−0·4	1·4	0	0	14	1	0	0	0	0	0	3	10	17	0
	1730	,,	1014·5	1001·7	..	18·8	15·5	11·9	14·9	69	..	1·4	..	0·1	0	0	2	1	0	0	0	0	0	1	0	29	0
Lucknow	0830	111	1017·5	1004·3	−0·6	13·5	11·8	10·0	12·3	80	+3	1·6	+0·6	1·0	0	0	13	0	0	0	0	0	0	13	0	18	0
	1730	,,	1014·7	1001·9	..	21·3	15·7	11·5	13·6	54	..	1·3	..	0·6	0	0	8	0	0	0	0	0	0	7	1	23	0
Lucknow (Amausi)	0230	128	1016·0	1006·6	..	10·4	9·5	8·6	11·2	89	..	0·5	..	2.7	0	0	19	1	1	3	0	0	2	5	7	12	0
	0530	,,	1015·9	1005·5	..	9·3	8·6	7·8	10·6	91	..	0·5	..	3·1	0	0	20	1	1	2	1	0	1	9	5	11	0
	0830	,,	1017·9	1002·6	−0·5	12.9	11·0	9·1	11·5	79	+11	1·6	+0.6	3·0	0	0	18	1	2	1	0	0	1	7	6	13	0
	1130	,,	1017·6	1002·7	..	20·7	14·6	9·3	11·7	50	..	1·8	..	7·2	0	0	28	3	1	2	3	2	1	7	9	3	0
	1430	,,	1014·9	1000·1	..	22·7	15·0	8·2	10·9	41	..	1·7	..	9·1	0	1	28	3	1	1	3	2	2	5	12	2	0
	1730	,,	1014.8	999·9	..	19·9	14·6	10·7	12·9	59	..	1·9	..	3·3	0	1	22	2	0	2	0	0	2	9	8	8	0
	2030	,,	1016·5	1001·4	..	13·8	11·7	9·9	12·2	78	..	0·6	..	2·6	0	0	19	0	3	1	0	0	3	8	4	12	0
	2530	,,	1016·6	1001·3	..	12·0	10·5	9·1	11·5	84	..	0·4	..	2·7	0	1	17	2	0	2	0	0	1	7	6	13	0

(b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level of height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh East —(*Contd.*)																											
Faizabad	0830	102	1017·4	1005·3	..	13·4	12·0	10·8	12·9	84	..	1·8	..	1·4	0	0	12	0	2	0	0	0	1	9	0	19	0
	1730	,,	1014·6	1002·7	..	18·4	15·3	12·8	14·8	71	..	2·1	..	0·6	0	0	5	0	0	0	1	0	0	4	0	26	0
Gorakhpur	0830	77	1017·3	1008·2	−0·5	15·6	13·2	11·1	13·2	76	−2	1·2	+0·3	0·9	0	0	14	2	0	0	0	0	4	4	4	17	0
	1730	,,	1114·0	1005·2	..	21·5	16·0	11·6	13·7	54	..	1·2	..	1·2	0	0	18	0	0	0	0	1	2	13	2	13	0
Gorakhpur (P.B.O.)	0230	78	1015·3	1006·0	..	15·1	12·7	11·2	13·3	80	..	0	..	1·4	0	0	8	2	0	0	0	1	0	3	2	23	0
	0530	,,	1015·4	1006·1	..	13.5	11·9	10·4	12·6	81	..	0·2	..	1·4	0	0	11	4	0	0	0	1	0	3	3	20	0
	1130	,,	1016·9	1007·5	..	20·9	15·8	12·5	14·5	59	..	1·1	..	4 6	0	0	27	3	1	0	6	8	2	4	3	4	0
	1430	,,	1014·3	1005·3	..	22·7	15·8	11·2	13·3	49	..	1·5	..	5·0	0	0	26	3	1	0	2	5	4	6	5	5	0
	2030	,,	1016·1	1006·9	..	17·0	13·9	12·6	14·6	76	..	0·5	..	1·1	0	0	8	2	0	0	0	0	0	2	4	23	0
	2330	,	1015·9	1006·7	..	15·5	13·7	12·2	14·2	76	..	0·2	..	1·0	0	0	9	1	0	0	1	1	0	4	2	22	0
Kanpur	0830	126	1017·4	1002·2	−1·2	11·2	9·9	8·5	11·1	84	+7	0·6	−0·1	3·5	0	0	18	2	0	5	0	0	0	10	1	13	0
	1730	,,	1014·6	999·9	..	21·7	15·3	9·9	12·2	48	..	0·7	..	5·2	0	1	26	4	0	7	0	0	1	15	0	4	0
Kanpur (Aerodrome)	0530	126	1016·1	1001·0	..	10·4	9 1	7·7	10·5	84	..	1·1	..	6·7	0	1	24	5	3	2	0	0	0	11	4	6	0
	0830	,,	1018·2	1003·1	..	13·3	10·9	8·5	11·1	74	..	1.8	..	8·5	0	1	24	1	2	2	2	1	0	14	3	6	0
	1130	,,	1017·7	1003·1	..	21·3	14·4	7·9	10·7	43	..	1·8	..	13·1	0	1	30	4	2	3	4	3	1	10	4	0	0
	1730	,,	1015·0	1000·4	..	20·0	14·3	9·2	11·6	51	..	2·0	..	8·7	0	2	27	3	3	5	0	0	0	13	5	2	0
	2330	,,	1016·7	1001·8	..	13·3	11·0	8·6	11·2	75	..	0·8	..	7·0	0	1	24	1	2	3	0	0	1	11	7	6	0
Sultanpur	0830	97	1018·0	1006·4	..	13·6	11·3	9·2	11·6	75	..	1·0	..	1·0	0	0	12	0	0	0	2	0	2	6	2	19	0
	1730	,,	1013.6	1002.3	..	21·8	17·0	13·2	15·2	58	..	1·2	..	0·4	0	0	5	0	0	0	0	0	0	4	1	26	0
Azamgarh	0830	78	1018·0	1008·7	..	13·8	12·5	11·3	13·4	85	..	0·8	..	6·0	0	0	30	6	1	2	0	4	1	16	0	1	0
	1730	,,	1014·5	1005·4	..	20·4	16·9	14·3	16·3	68	..	0·4	..	5·8	0	0	31	8	0	2	0	4	0	17	0	0	0
Fatehpur	0830	114	1018·4	1004·8	..	13·8	11·4	9·0	11·5	73	+4	1·5	+0·1	4·6	0	0	28	0	2	3	3	0	5	10	5	3	0
	1730	,,	1014·8	1001·6	..	20·7	15·1	10·1	12·3	52	..	1·2	..	3·1	0	0	18	2	3	2	1	0	0	3	7	13	0
Ballia	0830	64	1019·5	1011·3	..	16·8	13·7	11.1	13·2	71	..	1·7	..	1·5	0	0	17	0	1	2	0	0	4	7	3	14	0
	1730	,,	1015·4	1007·6	..	20·9	16·6	13·3	15·3	63	..	0·8	..	0·3	0	0	3	0	0	0	0	0	0	1	2	28	0
Banda	0830	121	1019·3	1004·8	..	13·7	11·3	8·9	11·4	73	..	1·5	..	1·1	0	0	12	0	2	0	1	0	5	2	2	19	0
	1730	,,	1015·8	1001·7	..	22·2	16·3	11·3	13·4	52	..	1·2	..	1·0	0	0	13	0	0	0	0	0	2	1	10	18	0
Allahabad (Bamhrauli)	0230	98	1016·3	1004·6	..	11·8	10·2	8·7	11·5	82	..	0·6	..	0·6	0	0	7	1	0	0	0	0	0	6	0	24	0
	0530	,,	1016·2	1004·4	..	10·6	9·5	8·3	11·2	86	..	0·8	..	1·1	0	0	8	0	0	1	0	0	0	6	1	23	0
	0830	,,	1018·2	1006·6	−0·3	13·6	11·4	9·2	11·7	76	−1	1·4	−0·1	2·5	0	0	14	0	1	0	0	1	0	12	0	17	0
	1130	,,	1017·7	1006·4	..	22·6	15·3	8·9	11·7	43	..	1·4	..	5·0	0	0	28	2	2	3	2	1	1	13	4	3	0
	1430	,,	1014·8	1003·6	..	24·4	16·0	8·1	11·2	35	..	1·6	..	6·6	0	0	26	0	2	1	3	0	0	12	8	5	0
	1730	,,	1014·8	1003·5	..	21·6	15·7	10·7	13·3	51	..	2·0	..	1·2	0	0	11	1	2	1	0	0	0	6	1	20	0
	2030	,,	1016·5	1005·0	..	15·8	12·8	10·1	12·6	69	..	1·0	..	1·1	0	0	9	1	1	2	0	0	0	5	0	22	0
	2330	,,	1016·8	1005·1	..	13·4	11·4	9·4	12·0	77	..	0·6	..	0·8	0	0	8	0	0	3	0	0	2	3	0	23	0
Varanasi (Babatpur)	0530	85	1016·9	1006·5	..	12·7	10·5	8·3	10·9	75	..	0	..	3·1	0	0	17	0	1	0	0	1	11	4	0	14	0
	0830	,,	1019·1	1008·8	+0·1	14·5	12·5	11·0	13·1	78	+4	1·6	+0·3	5·9	0	0	24	0	0	1	0	3	9	6	3	7	2
	1130	,,	1018·3	1008·2	..	21·4	15·5	10·7	12·9	51	..	2·0	..	11·0	0	0	29	0	2	5	1	0	3	13	2	2	3
	1730	,,	1015·5	1005·4	..	20·9	15·8	11·7	13·7	56	..	2·0	..	4·6	0	0	21	1	1	1	0	0	5	11	2	10	0
	2330	,,	1017·2	1007·2	..	16·4	12·8	9·3	11·7	67	..	0·7	..	2·9	0	0	14	0	0	0	0	0	6	6	1	17	1
Varanasi	0830	76	1016·7	1009·3	0	14·6	12·3	10·1	12·3	75	−1	1·5	+0·4	1·7	0	0	24	0	2	1	0	0	3	17	1	7	0
	1730	,,	1014·3	1005·6	..	22·3	16·4	11·8	13·8	52	..	1·7	..	1·4	0	0	21	0	2	1	0	0	0	16	2	10	0
Uttar Pradesh West																											
Mukhim	0830	,,	..	..	..	9·6	4·4	−2·8	4·8	45	..	1·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	9·8	5·1	−1·0	5·6	50	..	1·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	,,	..	..	..	6·7	6·3	6·0	9·5	95	..	2·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	..	..	..	14·4	10·1	5·9	9·3	58	..	1·9	..	0·7	0	0	5	0	0	0	0	1	3	0	0	26	1
	1730	,,	..	..	..	15·3	11·3	7·5	10·4	61	..	1·8	..	1·4	0	0	13	1	1	2	6	3	0	0	0	18	0
Dehra Dun	0530	632	1017·3	937·6	..	8·9	7·5	6·0	9·3	82	..	1·9	..	1·1	0	0	9	4	4	0	0	0	0	0	1	22	0
	0830	,,	1018·7	939·1	−0·2	9·5	8·1	6·6	9·7	82	+7	2·2	−0·3	0·6	0	0	9	3	2	0	0	0	0	4	0	22	0
	1130	,,	1017·1	939.8	..	18·0	12·6	8·0	10·7	54	..	2·8	..	1·9	0	0	17	2	0	1	3	6	2	1	2	14	0
	1730	,,	1014·9	937·4	..	16·6	12·8	9·5	11·9	64	..	2·6	..	0·5	0	0	5	0	0	0	0	2	0	3	0	26	0
	2330	,,	1018·0	938·8	..	10·8	9·1	7·4	10·3	80	..	1·7	..	1·2	0	0	10	3	6	0	0	0	0	1	0	21	0
Mansiari	0830	,,	..	..	..	7·9	2·4	−6·4	3·6	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	6·3	2·2	−4·0	4·4	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Roorkee	0830	274	1018·4	985·7	−0·1	10·6	8·8	6·9	9·9	78	−4	2·5	+0·7	0·7	0	0	11	0	2	0	2	0	0	0	7	20	0
	1730	,,	1015·52	983·7	..	17·4	12·7	8·3	10·9	56	..	2·5	..	0·7	0	0	11	0	1	1	1	0	0	0	8	20	0
Najibabad	0830	270	1018·9	986·6	..	9·7	8·5	7·3	10·2	85	..	1·7	..	2·4	0	0	23	1	2	9	0	0	0	4	7	8	0
	1730	,,	1016·6	985·2	..	17·4	12·2	7·2	10·1	54	..	1·3	..	3·5	0	0	24	0	0	3	0	0	0	21	0	7	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. speed): 62 or more	Wind speed (km. speed): 20 to 61	Wind speed (km. speed): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh West—(*Contd.*)																											
Meerut	0830	222	1018.7	992.3	+0.3	12.3	10.0	7.5	10.4	73	−2	0.9	−0.5	3.3	0	0	15	0	0	2	0	0	0	10	3	16	0
Bareilly	0830	173	1017.9	997.2	−0.3	11.9	10.5	9.2	11.6	84	+3	1.6	+0.2	3.9	0	0	22	7	2	3	1	0	0	1	8	9	0
	1730	,,	1014.7	994.5	..	19.2	14.9	11.3	13.4	61	..	1.7	..	2.1	0	0	17	5	0	0	2	0	0	6	4	14	0
Bareilly P. B. O.	0230	172	1016.1	995.5	..	12.9	10.7	9.0	11.5	76	..	0.6	..	2.6	0	0	19	3	2	3	0	0	0	10	1	12	0
	0530	,,	1015.8	995.1	..	11.9	9.9	8.2	10.9	79	..	1.3	..	3.3	0	0	17	0	2	4	0	1	0	9	1	14	0
	1130	,,	1017.9	997.6	..	17.8	13.4	9.8	12.1	62	..	1.5	..	5.3	0	0	30	1	2	3	2	1	0	10	11	1	0
	1430	,,	1015.0	995.3	..	21.5	14.7	10.0	12.3	51	..	1.7	..	6.0	0	1	27	0	3	2	2	0	2	12	7	3	0
	2030	,,	1016.4	996.1	..	15.6	12.7	10.4	12.6	73	..	0.5	..	2.8	0	0	19	1	2	1	0	0	0	14	1	12	0
	2330	,,	1016.7	996.2	..	14.0	11.6	9.4	11.8	76	..	0.3	..	2.3	0	0	16	0	0	2	1	0	1	12	0	15	0
Aligarh	0830	187	1018.6	995.8	..	11.8	9.7	7.3	10.2	74	+12	1.9	+0.5	2.8	0	0	24	4	1	4	1	0	0	11	3	7	0
	1730	,,	1015.5	993.3	..	19.8	14.3	9.3	11.7	51	..	2.3	..	2.0	0	0	22	6	0	1	0	1	1	11	2	9	0
Mainpuri (R)	0830	157																									
(R)	1730	,,																									
Agra	0830	169	1019.4	998.7	+0.1	11.4	9.0	6.1	9.4	71	+9	0.2	+12	0.9	0	0	3	0	0	0	0	0	0	0	3	28	0
	1730	,,	1015.4	996.0	..	19.3	14.5	10.2	12.4	57	..	0.3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agra (Aerodrome) (R)	0230	169																									
	0530	,,	1017.0	996.5	..	8.5	7.4	6.4	9.6	88	..	0.8	..	4.2	0	0	16	2	3	1	0	0	0	4	5	15	1
	0830	,,	1018.8	998.6	..	11.3	9.6	7.7	10.5	79	..	1.7	..	4.0	0	0	16	1	0	1	1	0	1	5	7	15	0
	1130	,,	1018.4	998.7	..	20.3	14.4	9.3	11.7	49	..	1.7	..	12.8	0	6	23	6	1	2	3	4	1	5	7	2	0
	1730	,,	1015.4	995.8	..	19.3	14.2	9.9	12.2	55	..	1.7	..	5.6	0	0	20	7	0	3	1	0	0	1	8	11	0
	2330	,,	1017.4	997.2	..	11.3	9.7	8.1	10.8	81	..	0.6	..	3.8	0	0	14	1	2	2	3	0	0	2	4	17	0
Orai	0830	141	1020.4	1003.8	..	16.2	12.6	9.1	11.5	63	..	0.7	..	2.2	0	0	30	6	10	0	2	1	0	0	11	1	0
	1730	,,	1015.4	999.0	..	21.2	15.7	11.1	13.2	53	..	0.2	..	2.1	0	0	31	4	6	0	3	0	0	1	17	0	0
Jhansi	0830	251	1020.1	990.6	+1.2	15.0	11.1	7.1	10.1	61	+1	0.9	−0.2	1.0	0	0	16	8	0	7	0	0	0	0	1	15	0
	1730	..	1015.2	986.3	..	22.3	15.0	8.4	11.0	42	..	0.5	..	1.1	0	0	13	4	0	5	0	0	0	2	2	18	0
Panjab (India) (Including Delhi)																											
Pathankot	0530	312	1017.6	980.2	..	8.3	7.5	6.5	9.7	89	..	2.6	..	2.6	0	0	6	3	0	1	0	2	0	0	0	25	0
	0830	,,	1018.9	981.6	+0.4	9.7	8.4	6.9	10.0	83	+8	3.0	0	2.3	0	0	11	2	4	4	0	0	1	0	0	20	0
	1130	,,	1018.8	982.3	..	16.4	12.0	7.7	10.5	58	..	3.3	..	6.7	0	0	29	4	3	0	1	7	8	2	4	2	0
	1730	,,	1016.2	979.8	..	16.2	12.4	8.6	11.2	60	..	3.2	..	4.0	0	0	21	2	0	0	1	2	3	11	2	10	0
	2330	,,	1018.6	981.3	..	10.3	9.3	8.3	10.9	88	..	2.2	..	2.6	0	0	11	1	5	1	1	1	0	2	0	20	0
Amritsar (Rajasansi)	0530	234	1017.7	989.2	..	6.3	5.6	4.7	8.8	90	..	1.6	..	2.1	0	0	9	1	0	2	0	0	1	1	4	22	0
	0830	..	1019.1	990.6	+0.1	6.8	6.1	5.3	8.9	90	+4	3.0	+0.4	2.5	0	0	13	2	1	3	1	1	0	2	3	18	0
	1130	,,	1019.0	991.5	..	16.6	11.8	6.9	9.9	54	..	2.3	..	6.0	0	2	15	2	1	0	3	2	1	0	8	14	0
	1430	,,	1016.5	989.4	..	19.8	12.9	5.8	9.2	41	..	2.7	..	8.3	0	5	19	2	1	0	2	3	0	5	11	7	0
	1730	..	1016.3	988.9	..	16.3	12.1	7.9	10.7	58	..	2.9	..	3.4	0	0	17	0	2	1	1	1	1	3	8	14	0
	2030	,,	1017.8	989.8	..	11.2	9.4	7.4	10.3	78	..	1.5	..	2.0	0	1	6	0	1	0	0	2	0	1	3	24	0
Adampur (Aerodrome)	0830	249	1019.1	989.0	..	7.1	6.7	6.6	9.7	95	..	2.7	..	2.7	0	0	10	4	0	0	3	0	0	0	3	21	0
	1730	,,	1016.6	987.3	..	15.7	12.4	9.4	11.8	68	..	2.7	..	6.7	0	0	22	2	0	1	1	3	0	6	9	9	0
Ludhiana	0830	247	1018.6	988.9	−0.2	9.0	8.3	7.6	10.4	91	+16	2.4	+0.3	2.0	0	0	24	1	1	1	3	3	4	3	8	7	0
	1730	,,	1015.8	987.0	..	17.1	15.3	13.9	15.9	82	..	1.4	..	1.0	0	0	18	0	3	0	2	0	4	0	9	13	0
Ferozepur	0830	200	1019.6	995.4	..	9.8	8.6	7.4	10.3	84	..	0.6	..	1.2	0	0	16	4	3	0	1	1	0	1	6	15	0
	1730	,,	1017.3	993.6	..	15.6	13.1	10.7	12.9	73	..	0.3	..	0.6	0	0	9	4	1	0	0	2	0	0	2	22	0
Halwara (Aerodrome)	0830	242	1018.9	989.9	..	7.7	7.2	6.5	9.7	92	..	3.5	..	3.4	0	1	12	2	0	1	1	3	0	1	9	18	0
	1730	,,	1016.0	988.2	..	16.4	12.1	8.5	11.1	60	..	2.3	..	5.6	0	1	21	3	1	0	1	2	1	3	11	9	0
Chandigarh	0830	347	1017.8	976.4	+0.5	12.6	9.6	6.4	9.6	68	+1	1.3	−0.2	1.4	0	0	14	0	0	0	7	0	0	0	7	17	0
	1730	,,	1014.9	974.4	..	18.3	12.9	7.3	10.2	48	..	1.8	..	2.0	0	0	24	0	0	0	8	0	0	0	16	7	0
Ambala	0830	272	1017.2	985.4	−0.5	10.6	8.2	5.3	8.9	71	−3	2.0	−0.2	0.7	0	0	7	0	1	0	3	0	0	1	2	21	0
	1730	,,	1014.9	983.4	..	18.4	13.9	9.5	12.4	58	..	0.8	..	2.1	0	0	18	0	2	0	9	0	0	1	6	13	0
Ambala (P. B. O.)	0230	278	1016.8	983.7	..	11.3	9.2	7.2	10.1	76	..	1.1	..	3.7	0	0	11	1	0	0	3	0	0	0	7	20	0
	0530	,,	1016.4	983.2	..	10.4	8.4	6.6	9.7	78	..	1.0	..	4.3	0	1	11	2	0	0	2	0	0	0	8	19	0
	1130	,,	1017.9	985.5	..	17.3	12.6	9.0	9.9	59	..	2.4	..	8.6	0	2	20	1	0	0	8	0	0	2	11	9	0
	1430	,,	1015.4	983.2	..	19.7	13.2	8.2	10.9	49	..	2.1	..	9.8	0	2	22	1	2	0	4	1	0	6	10	7	0
	2030	,,	1016.5	983.8	..	14.8	11.1	8.1	10.8	65	..	1.1	..	5.0	0	0	17	0	0	1	2	0	0	4	10	14	0
	2330	,,	1017.1	984.2	..	12.8	10.1	7.4	10.3	72	..	1.0	..	5.6	0	1	14	1	0	0	3	0	0	0	11	16	0
	0530	274	1017.0	984.0	..	7.1	6.8	6.6	9.7	97	..	1.2	..	4.3	0	0	8	0	0	0	1	1	0	0	6	23	0
Ambala (Aerodrome)	0830	,,	1018.3	985.7	..	8.9	8.2	7.5	10.4	95	..	2.6	..	4.6	0	0	14	0	0	1	2	1	0	0	10	17	0
	1130	,,	1018.0	985.9	..	17.3	13.4	9.5	11.8	60	..	2.6	..	12.1	0	0	26	1	1	2	6	4	0	1	11	5	0

(R) Register not Received

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) —(*Contd.*)																											
Ambala (Aerodrome) —(*Contd.*)	1730	274	1015·6	983·5	..	16·8	13·0	9·5	11·9	60	..	2·0	..	9·3	0	0	18	0	0	1	3	1	0	2	11	13	0
	2330	..	1017·7	984·8	..	9·3	8·6	7·9	10·6	92	..	0·5	..	3·5	0	0	8	0	0	0	1	1	0	0	6	23	0
Patiala	0830	251	1018·8	988·8	..	10·3	8·8	7·0	10·0	82	..	2·5	..	6·0	0	1	19	0	0	0	5	0	0	0	15	11	0
	1730	..	1016·3	987·1	..	17·2	12·6	9·9	12·2	64	..	1·9	..	4·8	0	0	12	0	0	0	2	0	0	0	10	19	0
Bhatinda	0830	211	1018·7	993·7	..	12.5	10·0	7·5	10·4	70	..	0·5	..	0·7	0	0	7	0	0	0	1	0	1	0	5	24	0
	1730	..	1014·4	989·6	..	19·0	14·6	10·8	13·0	60	..	1·1	..	1·1	0	0	9	0	1	0	3	0	1	0	4	22	0
Karnal	0830	249	1018·1	988·7	..	11·3	9·0	6·2	9·5	72	..	0·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	1014·9	986·2	..	18·9	12·9	6·8	9·9	47	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1017·5	990·8	..	7·7	6·6	5·2	8·8	85	..	1·4	..	2·4	0	0	17	0	0	3	5	1	1	2	5	14	0
	0830	..	1019·2	992·6	+0·3	8·4	6·9	4·5	8·4	80	+11	2·2	+0·5	3·7	0	0	23	0	0	3	3	2	10	1	4	8	0
	1130	,,	1018·7	993·0	..	18·2	13·3	8·5	11·1	55	..	1·7	..	5·0	0	0	27	4	0	3	7	4	0	5	4	4	0
	1730	..	1015·9	990.3	..	20·5	15·0	10·1	12·4	53	..	1·9	..	3·7	0	1	23	4	1	5	1	1	0	4	8	7	0
	2330	..	1018·0	991·6	..	10·8	8·7	6·2	9·5	75	..	1·0	..	2·6	0	0	15	0	2	2	4	0	0	3	4	16	0
New Delhi (Safdarjang)	0230	216	1017·1	991·2	..	11·1	9·6	8·0	10·7	82	..	1·5	..	5·9	0	0	22	0	1	1	1	1	3	8	7	9	0
	0530	..	1016·8	990·7	..	10·0	8·7	7·2	9·5	84	..	1·6	..	6·6	0	0	23	0	0	2	2	0	3	8	8	8	0
	0830	..	1018·7	992·7	+0·1	10·4	8·8	6·9	9·9	80	+15	2·4	+0·4	9·1	0	1	29	0	1	5	2	0	4	12	6	1	0
	1130	..	1018·4	993·2	..	18·6	13·1	8·1	10·8	52	..	2·4	..	13·0	0	8	23	0	1	6	3	1	4	9	7	0	0
	1430	,,	1015·6	990·6	..	21·5	14·6	8·5	11·1	44	..	2·3	..	14·1	0	7	23	0	0	3	5	0	4	6	12	1	0
	1730	..	1015·1	990·3	..	19·6	14·3	9·8	12·1	54	..	2·4	..	7·1	0	3	20	1	2	4	0	0	0	6	10	8	0
	2030	..	1017·2	991·6	..	14·4	12·0	9·8	12·1	75	..	1·6	..	4·1	0	1	16	0	0	3	0	0	1	9	4	14	0
	2330	..	1017·6	991·8	..	12·3	10·3	8.3	10·9	78	..	1·2	..	5·0	0	0	18	0	0	2	0	0	2	5	9	13	0
Palam (Aerodrome)	0230	233	1017·2	989·6	..	10·9	9·1	6·9	9·9	77	..	1·2	..	5·6	0	0	26	4	1	2	9	0	2	6	2	5	0
	0530	,,	1016·9	989·1	..	9·2	8·0	6·7	10·5	83	..	1·7	..	5·9	0	0	26	5	1	1	6	0	4	4	5	5	0
	0830	,,	1018·8	991·0	..	10·6	9·1	7·6	10·4	84	..	3·1	..	6·2	0	0	27	2	0	2	5	0	4	10	4	4	0
	1130	..	1018·7	991·5	..	18·2	13·5	9·3	11·7	57	..	1·8	..	9·1	0	0	30	5	0	1	4	3	3	7	7	1	0
(R)	1430	..																									
	1730	..	1015·6	988·7	..	19·4	14·3	9·9	12·2	57	..	2·3	..	6·8	0	0	29	7	2	0	4	1	0	7	8	2	0
(R)	2030	,,																									
	2330	..	1017·7	990·1	..	12·3	10·3	7·9	10·7	74	..	0·8	..	4·6	0	0	24	4	2	3	7	0	1	4	3	7	0
Himachal Pradesh																											
Mandi	0830	,,	1019·7	930·3	−0·9	5·9	5·2	4·6	8·5	88	−7	5·0	+0·2	0·1	0	0	1	0	0	0	1	0	0	0	0	30	0
	1730	,,	1016·4	930·1	..	15·5	10·8	6·4	10·3	55	..	3·9	..	0·5	0	0	6	1	0	0	0	0	2	0	3	25	0
Bilaspur	0830	587	1016·9	949·1	..	11·4	9·8	8·3	10·9	81	..	1·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1015·7	949·6	..	20·0	16·4	14·0	16·0	70	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu & Kashmir																											
Misgar (R)	0830	..																									
(R)	1730	..																									
Gilgit (R)	0830	..																									
(R)	1730	..																									
Skardu (R)	0830	..																									
(R)	1730	..																									
Leh	0530	3514	..	..	..	−11·1	12·3	−18·5	1·2	50	..	3·6	..	4·6	0	0	22	4	16	0	0	0	2	0	0	9	0
	0830	,,	..	..	..	−6·5	−8·4	−13·3	1·9	55	−3	4·5	−0·1	1·7	0	0	12	0	1	0	0	9	2	0	0	19	0
	1730	,,	..	..	..	−1·4	..	..	..	..	..	3·3	..	4·3	0	0	31	0	8	0	7	6	5	2	3	0	0
Srinagar	0830	1587	1569·3	848·3	+1·8	−2·6	−3·3	−4·1	4·8	89	−1	7·3	+2·4	1·4	0	0	12	2	1	1	3	3	0	1	1	19	0
	1130	,,	1574·0	848·8	..	−0·2	−1·3	−3·1	4·7	81	..	6·8	..	2·8	0	0	20	6	0	1	1	4	0	3	5	11	0
	1430	,,	1556·3	847·0	..	1·4	−0·8	−3·4	4·6	73	..	6·6	..	4·0	0	0	26	3	1	2	5	2	2	1	10	5	0
	1730	,,	1552·0	846·6	..	0·1	−1·4	−3·7	4·9	76	..	6·3	..	3·1	0	0	23	3	0	0	5	2	6	4	3	8	0
	2030	,,	1558·9	847·3	..	−1·3	−2·1	−3·8	4·5	85	..	6·2	..	1·3	0	0	8	0	0	0	1	3	1	1	2	23	0
Srinagar (Aerodrome)	0530	1666	1553·8	838·5	..	−3·6	−4·2	−5·5	3·9	87	..	4·1	..	0·2	0	0	1	0	0	0	0	1	0	0	0	30	0
	0830	,,	1562·2	839·4	..	−2·9	−3·7	−5·3	3·9	85	..	4·9	..	1·7	0	0	10	0	0	2	3	2	2	1	0	21	0
	1130	,,	1568·6	840·2	..	−0·5	−1·8	−4·0	4·4	78	..	4·8	..	2·2	0	0	11	2	1	1	0	1	0	2	4	20	0
	1730	,,	1547·9	838·0	..	−0·7	−1·8	−3·8	4·5	81	..	4.6	..	2·0	0	0	9	0	0	1	1	2	0	2	3	22	0
	2330	,,	1558·1	839·0	..	−2·8	−3·6	−5·0	4·0	84	..	3·5	..	0·7	0	0	3	0	0	0	1	0	0	0	2	28	0
Gulmarg	0830	2655	..	..	..																						
	1730	,,	..	..	..	closed during winter months																					
Qazigund	0830	,,	..	..	..	−2.8	..	..	..	..	..	7·3	..	0·7	0	0	11	0		0	8	1	1	1	0	20	0
	1730	,,	..	..	..	0·1	..	..	..	..	..	6·9	..	1·6	0	0	14	0		0	2	4	1	3	3	17	0

(R) Register not received.

Sub-Division and station	Hour of observation I. S. T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Banihal	0830	..	..	..	..	2·5	1·8	1·0	6·6	89	..	3·6	..	7·4	0	7	2	1	0	0	0	0	0	0	8	22	0
	1730	..	..	..	..	7·2	4·8	1·9	7·0	71	..	4·4	..	6·8	0	4	7	1	0	0	1	2	0	0	7	20	0
Jammu	0830	..	..	..	..	10·2	8·4	6·3	9·5	80	+18	3·5	+0·9	9·2	0	0	30	3	9	0	0	2	2	0	2	1	12
	1730	..	..	..	..	17·0	12·5	8·1	10·8	57	..	2·3	..	1·3	0	0	9	0	0	0	1	0	1	1	0	22	6
Jammu Aerodrome	0530	292	1017·9	982·5	..	9·6	8·1	6·3	9·5	81	..	2·4	..	7·0	0	0	23	1	19	1	1	1	0	0	0	8	0
	0830	,,	1018·6	983·6	..	9·8	8·2	6·3	9·5	81	..	4·0	..	5·5	0	0	23	2	13	2	3	1	2	0	0	8	0
	1130	,,	1019·3	984·6	..	15·0	11·2	7·3	10·2	59	..	3·6	..	5·8	0	1	20	2	7	0	3	5	2	2	0	10	0
	1730	,,	1016·1	982·6	..	16·5	12·5	8·6	11·2	61	..	2·5	..	2·6	0	0	11	2	0	1	1	5	1	0	1	20	0
	2330	,,	1018·5	983·5	..	10·9	9·4	7·5	10·4	80	..	1·7	..	4·6	0	1	17	0	15	1	1	1	0	0	0	13	0
Rajasthan (West)—Ganganagar	0530	177	1017·5	996·0	..	7·4	6·1	4·4	8·3	82	..	0·9	..	0·4	0	0	2	0	1	0	0	0	1	0	0	29	0
	0230	,,	1018·6	997·4	+0·2	7·2	6·1	4·4	8·3	80	+1	1·3	−0·7	0·9	0	0	9	0	2	1	0	0	4	1	1	22	0
	1130	,,	1019·0	998·2	..	17·9	11·8	5·0	8·7	44	..	2·1	..	4·7	0	0	24	1	4	2	3	2	4	3	5	7	0
	1730	,,	1015·8	995·3	..	20·1	13·1	6·2	9·4	42	..	1·1	..	1·1	0	0	7	2	1	0	2	0	1	0	1	24	0
	2330	,,	1018·0	996·8	..	10·3	8·1	5·3	8·9	72	..	0·9	..	1·2	0	0	8	0	2	4	0	0	1	0	1	23	0
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	0830	187	1017·8	995·2	..	8·4	5·7	1·5	6·8	63	..	(c) 1·6	..	(c) 3·3	0	0	23	2	5	5	2	2	2	1	5	4	0
	1730	,,	1014·8	993·4	..	19·3	12·3	4·3	8·3	39	..	(c) 0·7	..	(d) 5·0	0	0	23	7	2	3	0	1	6	2	2	4	0
Churu	0830	291	1019·6	984·5	..	8·5	5·3	0·3	6·2	59	..	1·8	..	2·0	0	0	16	1	0	5	1	2	4	2	1	15	0
	1730	,,	1015·4	982·0	..	21·2	11·7	−1·3	5·5	24	..	1·9	..	4·1	0	0	22	7	1	2	0	2	0	2	8	9	0
Bikaner	0830	224	1018·5	991·8	−0·1	7·6	4·4	−0·9	5·7	56	0	0·6	−1·2	0·7	0	0	5	1	2	0	0	0	2	0	0	26	0
	1730	,,	1014·9	989·1	..	22·3	12·3	−0·6	5·8	23	..	0·9	..	2·5	0	0	21	8	5	1	3	0	0	2	2	10	0
Bikaner (P.B.O.)	0530	224	1017·5	990·3	..	6·8	4·4	0·6	6·4	65	..	1·1	..	1·0	0	0	3	0	1	0	0	0	0	1	1	28	0
	1130	,,	1018·4	992·3	..	19·8	12·4	4·2	8·2	37	..	1·6	..	3·5	0	0	21	2	8	2	5	2	1	0	1	10	0
	2330	,,	1017·9	991·1	..	11·6	7·6	2·5	7·3	53	..	1·6	..	2·7	0	0	12	4	7	0	0	0	0	0	1	19	0
Nagaur	0830	298	1019·0	983·7	..	11·4	10·2	5·4	8·9	55	..	1·8	..	5·0	0	0	28	4	8	7	5	2	1	1	0	3	0
	1730	,,	1014·9	981·3	..	21·5	14·0	9·1	11·5	45	..	1·6	..	4·3	0	0	31	6	7	2	1	4	2	3	6	0	0
Phalodi	0830	234	1018·4	990·9	..	10·4	5·5	−2·0	5·1	43	..	1·8	..	3·5	0	0	21	2	5	2	5	3	2	0	2	10	0
	1730	,,	1015·5	988·4	..	23·0	12·4	−0·4	5·9	22	..	1·8	..	8·6	0	3	27	11	7	2	0	1	1	4	4	1	0
Jaisalmer	0830	242	1018·2	989·2	..	10·0	6·8	2·2	7·2	60	..	1·6	..	6·9	0	5	10	8	6	0	0	0	0	1	0	16	0
	1730	,,	1014·7	987·0	..	22·7	17·1	12·5	14·5	52	..	2·3	..	12·9	0	3	25	16	5	0	0	0	0	3	4	3	0
Jodhpur	0230	224	1016·4	989·9	..	13·8	8·7	2·0	7·1	45	..	2·0	..	9·4	0	0	29	10	18	0	0	0	0	1	0	2	0
	0530	,,	1016·5	989·7	..	11·8	7·7	2·2	7·2	53	..	2·4	..	8·0	0	0	29	8	19	2	0	0	0	0	0	2	0
	0830	,,	1018·1	992·0	+1·8	12·5	7·9	1·5	6·8	48	−2	2·6	+0·9	7·1	0	0	28	6	22	0	0	0	0	0	0	3	0
	1130	,,	1018·0	991·9	..	20·2	12·3	13·3	7·4	33	..	2·3	..	8·0	0	1	24	2	12	8	3	0	0	0	0	6	0
	1430	,,	1014·7	989·5	..	25·1	14·7	3·7	8·0	26	..	2·5	..	7·4	0	1	28	7	8	3	4	2	1	2	2	2	0
	1730	,,	1014·1	988·7	..	24·6	15·3	6·5	9·7	32	..	2·7	..	7·7	0	0	25	6	10	2	0	0	3	2	2	6	0
	2030	,,	1016·3	990·1	..	18·2	11·8	4·9	8·7	42	..	2·8	..	6·8	0	0	28	8	10	2	0	0	2	3	3	3	0
	2330	,,	1016·9	990·5	..	16·1	10·4	3·9	8·1	45	..	2·8	..	8·2	0	1	28	9	17	0	0	0	0	2	1	2	0
Barmer	0530	194	1015·6	992·5	..	13·3	8·9	3·3	7·7	53	..	1·3	..	5·2	0	0	25	2	2	0	0	0	0	1	20	6	0
	0830	,,	1017·5	994·4	+0·1	13·1	9·1	4·1	8·2	55	+2	2·0	+0·4	4·6	0	0	28	4	0	0	0	0	0	1	23	3	0
	1130	,,	1017·6	995·0	..	20·2	14·0	8·0	10·7	47	..	2·2	..	5·1	0	0	28	8	9	1	0	1	0	0	9	3	0
	1730	,,	1013·9	991·7	..	24·5	16·2	8·7	11·2	39	..	2·9	..	3·0	0	0	20	8	6	1	0	0	0	1	4	11	0
	2330	,,	1016·3	993·5	..	16·5	11·1	4·7	8·5	47	..	1·6	..	4·6	0	0	22	0	2	0	0	0	0	1	19	9	0
Erinpura (Jawai-Dams)	0830	295	1018·2	983·2	..	12·1	10·2	8·3	10·9	75	..	2·1	..	0·8	0	0	6	1	0	0	2	2	1	0	0	25	0
	1730	,,	1014·4	980·7	..	22·2	17.0	13·2	15·1	57	..	3·0	..	1·2	0	0	8	5	0	0	0	1	0	2	0	23	0
Munabao	*0830	80	1019·3	1009·4	..	6·7	3·7	−1·6	5·3	55	..	..	..	1·4	0	0	11	3	8	0	0	0	0	0	0	13	0
	**1730	,,	1016·0	1007·1	..	23·7	12·7	−1·4	5·4	18	..	..	..	5·6	0	0	21	10	6	0	0	0	1	0	4	2	0
Rajasthan (East) Pilani	0830	301	1018·5	982·2	..	9·2	6·3	2·3	7·2	63	..	0	..	6·1	0	0	18	0	1	2	4	6	4	1	0	0	0
	1730	,,	1015·2	980·3	..	19·6	12·2	3·7	8·0	36	..	0·4	..	4·4	0	0	15	3	3	5	0	0	0	1	3	3	0
Sikar	0830	433	1018·9	968·2	..	13·2	9·4	5·2	8·2	58	..	1·2	..	1·0	0	0	13	1	3	0	5	0	1	0	3	18	0
	1730	,,	1015·1	765.9	..	21·0	13·3	5·8	9·2	38	..	1·5	..	1·3	0	0	17	0	2	0	0	0	0	7	8	14	0
Alwar	0830	271	1017·7	985·4	..	11·0	8·7	5·8	9·2	73	..	2·6	..	1·3	0	0	11	1	3	2	1	1	1	1	1	20	0
	1730	,,	1014·9	983·6	..	19·5	13·6	7·8	10·6	48	..	2·1	..	0·6	0	0	7	2	3	1	0	0	0	0	1	24	0
Jaipur (Sanganer)	0230	390	1016·7	970·6	..	11·3	7·7	2·9	7·5	57	..	0·6		4·8	0	1	19	5	7	8	0	0	0	0	0	11	0
	0530	,,	1016·7	970·5	..	10·3	6·6	2·5	7·3	59	..	0·8	..	4·2	0	0	19	3	6	9	0	0	0	0	1	12	0
	0830	,,	1018·3	972·5	−0·6	12·7	8·3	2·4**	7·2	52	−3	1·9	+0·4	5·0	0	1	14	2	2	9	0	0	0	0	2	16	0

*Observations for 24 days. (c) Mean of 28 days. (d) Mean of 27 days. (R) Register not received. **Observations for 23 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.ph.): 62 or more	Wind speed (km.ph.): 20 to 61	Wind speed (km.ph.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan East—(*Contd.*)																											
Jaipur (Sanganer) —(Contd.)	1130	,,	1017·4	972·9	..	20·7	12·1	1·4	6·7	30	..	1·8	..	8·2	0	1	24	2	1	10	5	1	2	2	2	6	0
	1430	,,	1014·2	970·1	..	23·7	13·3	0·9	6·5	24	..	1·9	..	6·5	0	1	25	2	1	5	4	1	3	6	4	5	0
	1730	390	1014·4	969·9	..	20·9	12·7	3·5	7·8	33	..	1·8	..	3·1	0	0	13	4	1	2	1	0	0	0	5	18	0
	2030	,,	1016·8	971·2	..	14·7	9·7	3·5	7·8	48	..	0·9	..	4·5	0	1	19	4	3	10	0	0	0	0	3	11	0
	2330	,,	1017·2	971·3	..	13·0	8·6	3·0	7·5	51	..	0·8	..	5·3	0	1	19	3	4	12	0	0	0	0	1	11	0
Dholpur	0830	176	1018·3	997·2	..	11·7	9·3	6·6	10·0	72	..	1·3	..	1·3	0	0	13	3	0	0	1	2	0	2	5	18	0
	1730	,,	1014·7	994·3	..	20·6	14·5	9·3	11·8	48	..	1·0	..	0·2	0	0	3	1	0	0	1	0	0	0	1	28	0
Ajmer	0830	486	1019·4	962·2	−0·3	10·5	7·1	2·5	7·3	60	+3	2·7	+1·3	1·8	0	0	14	2	7	0	0	1	0	2	2	17	0
	1730	,,	1014·4	959·5	..	21·6	12·7	3·8	8·0	32	..	2·7	..	1·9	0	0	17	5	3	0	3	2	1	1	2	14	0
Tonk	0830	272	1018·0	985·5	..	10·6	8·7	6·7	9·4	74	..	2·3	..	5·6	0	0	30	5	2	4	3	1	1	2	12	1	0
	1730	,,	1014·4	982·8	..	21·1	15·9	11·5	13·5	50	..	2·0	..	2·5	0	0	31	6	5	6	1	0	3	4	6	0	0
Bhilwara	0830	425	1018·8	969·0	..	12·9	7·9	1·4	6·7	47	..	4·0	..	1·9	0	0	16	4	8	1	0	0	0	1	2	15	0
	1730	,,	1014·3	966·0	..	23·1	13·6	3·0	7·5	29	..	4·0	..	4·0	0	1	22	2	5	4	3	2	4	1	2	8	0
Kota (Aerodrome)	0530	274	1016·6	984·1	..	12·0	7·9	2·1	7·1	53	..	0·2	..	5·5	0	0	31	1	3	1	0	3	9	12	2	0	0
	0830	,,	1018·6	986·2	..	13·9	9·0	2·5	7·3	48	..	2·5	..	4·6	0	0	25	3	0	4	0	1	6	8	3	6	0
	1130	,,	1018·1	986·5	..	20·4	12·4	3·2	7·7	35	..	2·0	..	7·0	0	0	30	2	6	16	1	0	0	2	3	1	0
	1730	,,	1014·4	983·2	..	23·9	13·9	2·8	7·7	2	..	2·7	..	7·9	0	1	29	6	13	10	0	0	1	0	0	1	0
	2330	,,	1016·8	984·7	..	15·3	9·5	2·3	7·2	42	..	1·8	..	6·8	0	0	29	0	3	1	0	1	16	7	1	2	0
Kota	0830	257	1018·3	987·7	−0·6	13·2	10·0	6·7	9·8	63	+6	2·1	+0·7	0·1	0	0	4	0	0	1	0	0	1	0	2	27	0
	1730	,,	1013·7	984·8	..	23·0	15·0	7·5	10·4	38	..	2·2	..	1·0	0	0	5	0	2	2	0	0	1	0	0	26	0
Chambal (Rawat Bhatta Dam)	0830	351	1018·5	977·1	..	11·9	8·7	4·7	8·0	62	..	1·0	..	0·8	0	0	12	3	2	0	0	1	0	1	5	19	0
	1730	,,	1013·8	974·2	..	24·5	14·2	2·7	7·7	25	..	1·5	..	5·0	0	0	28	5	11	1	6	3	1	0	1	3	0
Udaipur	0230	582	1017·9	949·7	..	10·5	8·8	5·3	8·9	71	..	1·1	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
	0530	,,	1017·6	949·1	..	9·5	7·4	5·1	9·6	74	..	1·0	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
	0830	,,	1019·0	951·3	0	12·3	8·4	3·7	7·9	57	−1	1·7	+0·7	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1130	,,	1016·9	951·6	..	22·6	13·4	4·4	8·3	32	..	1·6	..	2·7	0	0	19	1	5	9	1	3	0	0	0	12	0
	1730	,,	1013·5	948·6	..	23·2	14·1	5·7	9·1	33	..	3·0	..	1·7	0	0	11	1	3	2	1	0	3	1	0	20	0
	2330	,,	1017·9	950·4	..	12·2	9·4	6·0	9·3	66	..	1·3	..	0·5	0	0	3	1	1	0	0	0	1	0	0	28	0
Jhalawar	0830	321	1018·3	980·2	−0·4	11·7	8·6	5·7	9·1	64	+1	0·8	−0·7	0·6	0	0	5	2	1	1	0	0	1	0	0	26	0
	1730	,,	1013·3	976·8	..	24·0	14·3	5·7	9·1	28	..	1·0	..	3·8	0	0	24	10	9	1	1	0	0	0	3	7	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1016·9	992·0	..	9·2	8·0	6·7	9·7	84	..	0·8	..	1·0	0	0	10	2	0	1	2	1	2	0	2	21	0
	0530	,,	1016·9	991·9	..	9·3	7·2	5·9	9·3	85	..	0·9	..	2·0	0	0	17	0	0	0	4	2	5	3	3	14	0
	0830	,,	1018·6	994·0	+0·5	12·9	10·0	6·8	9·9	67	+6	2·0	+0·7	2·6	0	0	15	2	1	0	2	3	0	0	7	16	0
	1130	,,	1017·8	993·9	..	21·1	13·6	5·9	9·5	39	..	1·8	..	7·0	0	0	28	4	5	2	3	4	1	2	7	3	0
	1430	,,	1015·0	991·3	..	23·5	14·5	5·3	9·2	32	..	1·8	..	7·1	0	1	28	7	4	3	4	0	0	0	11	2	0
	1730	,,	1015·0	991·1	..	20·6	14·4	8·7	11·4	47	..	1·9	..	3·3	0	0	25	3	11	3	1	0	0	1	6	6	0
	2030	,,	1017·1	992·6	..	13·2	10·8	8·3	11·0	73	..	1·3	..	1·6	0	0	14	3	2	3	2	0	0	1	3	17	0
	2330	,,	1017·5	992·7	..	10·6	9·0	7·2	10·2	79	..	1·0	..	1·3	0	0	10	1	1	1	2	0	1	1	3	21	0
Sheopur	0830	235	1018·7	990·6	0	11·7	8·9	5·7	9·1	67	−3	2·0	0	3·5	0	0	25	1	3	3	9	7	1	0	1	6	1
	1730	,,	1014·7	987·9	..	22·9	15·4	8·4	11·5	40	..	2·5	..	4·7	0	0	24	11	1	0	0	0	0	7	4	7	0
Shivpuri	0830	464	1018·5	964·4	..	13·9	10·0	6·0	9·5	60	..	1·5	..	2·8	0	0	19	2	3	3	5	1	3	2	0	12	0
	1730	,,	1014·7	961·9	..	20·1	12·7	5·8	8·8	40	..	1·8	..	2·6	0	0	21	4	9	2	3	0	1	0	2	10	0
Nowgong	0830	229	1018·8	991·6	−0·1	12·2	9·8	7·3	10·2	73	−3	1·8	+0·3	2·5	0	0	22	0	0	2	0	8	11	0	1	9	0
	1730	,,	1015·0	988·7	..	21·4	15·2	9·6	12·3	48	..	1·5	..	1·2	0	0	8	0	6	0	0	0	0	0	2	23	0
Guna	0530	478	1017·7	961·0	..	8·3	7·0	5·7	8·9	84	..	0·9	..	2·8	0	0	19	0	2	2	14	1	0	0	0	12	0
	0830	,,	1018·7	963·1	+0·2	14·2	10·3	6·5	9·7	60	−6	1·9	+0·5	3·5	0	0	29	0	1	11	10	6	0	1	0	2	0
	1130	,,	1016·6	962·8	..	23·8	15·3	8·6	11·2	38	..	2·0	..	6·1	0	0	31	1	4	7	3	6	2	2	3	0	3
	1730	,,	1013·9	960·1	..	23·1	15·0	8·4	11·2	39	..	2·4	..	4·0	0	0	27	4	4	3	6	1	2	2	5	4	0
	2330	,,	1017·9	961·8	..	11·5	8·8	6·1	9·4	70	..	0·6	..	2·4	0	0	22	3	1	4	8	4	0	1	1	9	0
Nimach	0830	496	1019·0	961·2	+0·1	13·3	8·0	1·1	6·9	44	−9	2·4	+1·0	3·4	0	0	26	2	14	7	2	1	0	0	0	5	0
	1730	,,	1014·1	959·0	..	24·5	13·1	1·2	6·8	22	..	3·3	..	5·0	0	1	25	5	9	1	1	0	2	5	2	5	1
Rajgarh	0830	382	1019·1	974·0	..	11·3	8·7	5·6	9·1	69	..	0·7	..	2·3	0	0	20	4	1	1	4	7	2	0	1	11	0
	1730	,,	1014·3	971·3	..	24·9	16·2	8·6	11·3	36	..	0·4	..	5·1	0	0	29	15	2	1	3	2	3	1	2	2	0
Sagar	0830	551	1017·8	954·8	+0·1	17·2	10·7	4·0	8·2	42	−8	1·0	−0·4	1·6	0	0	13	0	1	2	2	0	1	3	4	18	0
	1730	,,	1013·9	952·2	..	22·5	12·9	3·4	8·0	29	..	1·2	..	1·6	0	0	24	3	10	3	1	1	3	1	2	7	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh West—(*Contd.*)																											
Ratlam	0830	486	1018·0	961·7	+0·3	15·3	9·9	4·0	8·3	48	−16	2·2	+0·3	6·7	0	1	25	1	11	11	1	0	2	0	0	5	0
	1730	,,	1013.0	958·8	..	25·4	15·3	6·8	10·0	31	..	3·7	..	8·6	0	1	30	3	14	5	0	1	6	1	1	0	0
Bhopal	0230	523	1016·2	955·6	..	13·6	9·3	4·4	8·6	55	..	1·7	..	4·0	0	0	23	4	7	3	7	2	0	0	0	8	0
(Bairagarh)	0530	,,	1016·6	955·7	..	12·3	8·6	4·5	8·5	60	..	2·3	..	4·3	0	0	24	3	7	3	9	2	0	0	0	7	0
	0830	,,	1017·8	957·7	−0·2	16·7	10·8	4·7	8·7	46	−14	3·5	+1·8	5·0	0	0	21	1	5	4	10	1	0	0	0	10	0
	1130	,,	1016·4	957·6	..	22·8	13·4	4·4	8·5	31	..	3·2	..	6·7	0	0	29	0	5	5	12	5	1	1	0	2	0
	1430	,,	1013·0	955·0	..	25·5	14·1	3·3	7·8	24	..	2·8	..	6·1	0	0	30	7	6	2	4	6	2	1	2	1	0
	1730	,,	1013·5	955·0	..	23·2	13·5	4·1	8·4	30	..	3·5	..	4·5	0	0	27	5	12	2	3	3	1	0	1	4	0
	2030	,,	1016·3	956·6	..	18·5	11·5	4·4	8·5	40	..	2·5	..	4·4	0	0	26	3	8	5	7	2	0	0	1	5	0
	2330	,,	1016·6	956·5	..	15·7	10·3	4·6	8·6	48	..	1·8	..	4·0	0	0	24	5	5	1	9	4	0	0	0	7	0
Ujjain	0830	489	1018·5	961·4	..	12·5	9·1	5·2	9·1	62	..	3·0	..	2·5	0	0	19	0	2	5	7	0	0	0	0	12	5
	1730	,,	1013·3	958·6	..	24·3	14·6	6·1	9·5	31	..	3·5	..	5·3	0	0	28	4	6	4	3	2	1	3	3	3	2
Narsinghpur	0830	356	1018·9	976·9	..	12·8	9·9	6·6	9·9	67	..	1·9	..	1·7	0	0	26	5	15	0	3	0	1	0	2	5	0
	1730	,,	1014·1	973·7	..	22.7	16·2	10·6	13·1	48	..	1·8	..	0·8	0	0	11	2	6	1	0	0	1	1	0	20	0
Hoshangabad	0830	302	1018·6	983·1	0	14·8	11·9	9·1	11·5	69	+9	2·3	+0·9	2·8	0	0	31	4	11	1	0	6	8	1	0	0	0
	1730	,,	1013·8	979·5	..	24·3	17·1	11·5	13·7	46	..	2·3	..	2·6	0	0	31	3	10	9	3	1	3	2	0	0	0
Indore	0530	567	1016·4	950·4	..	11·6	7·7	3·2	7·7	57	..	1·4	..	4·1	0	1	15	0	0	2	1	3	3	1	0	15	0
	0830	,,	1017·9	952·5	−0·2	14·6	9·6	4·2	8·4	50	−2	2·5	+1·1	4·0	0	0	19	0	6	6	3	4	0	0	0	12	0
	1130	,,	1015·8	952·4	..	23·7	14·0	4·9	8·9	30	..	2·3	..	12·3	0	3	28	1	2	12	3	11	2	0	0	0	0
	1730	,,	1012·7	949·7	..	24·3	14·2	5·1	8·8	30	..	2·6	..	7·8	0	1	29	1	15	4	1	1	3	3	1	1	1
	2330	,,	1016·8	951·4	..	14·6	9·7	4·5	8·5	51	..	1·8	..	5·7	0	0	26	0	13	4	0	6	3	0	0	5	0
Rajpur (Jhabua)	0830	293	1017·9	983·3	..	13·2	9·4	4·7	8·6	58	..	2·5	..	0·3	0	0	2	0	0	2	0	0	0	0	0	29	0
	1730	,,	1012·6	979·8	..	27·3	16·2	5·8	9·4	26	..	2·5	..	1·6	0	0	10	2	1	2	0	0	0	4	1	21	0
Chhindwara	0830	685	1018·7	939·8	+0·2	13·0	9·8	6·4	9·8	65	0	2·1	+0·7	0·5	0	0	2	1	1	0	0	0	0	0	0	29	0
	1730	,,	1012·6	936·7	..	23·1	14·8	8·1	0·8	39	..	2·6	..	2·6	0	0	16	8	1	3	0	4	0	0	0	15	0
Seoni	0830	619	1018·2	947·3	+0·3	15·4	11·4	7·5	10·6	60	0	2·3	+0·9	2·4	0	0	16	4	5	3	0	1	2	1	0	15	0
	1730	,,	1013·2	944·4	..	23·1	14·6	7·1	10·4	37	..	1·8	..	6·0	0	0	30	4	7	6	9	4	0	0	0	1	0
Betul	0830	653	1018·1	943·4	+0·1	15·6	10·9	6·2	9·6	54	−10	2·4	+0·9	3·0	0	0	25	1	5	11	7	0	0	1	0	6	0
	1730	,,	1012·9	940·4	..	23·2	14·0	5·5	9·3	33	..	2·5	..	2·9	0	0	29	9	9	1	2	2	0	2	4	2	0
Khandwa	0830	318	1017·9	980·7	+0·3	15·7	10·6	4·7	8·7	49	−11	2·7	+1·3	1·8	0	0	21	1	9	0	6	1	3	0	1	10	0
	1730	,,	1012·8	977·1	..	26·9	15·9	4·8	9·1	26	..	2·7	..	3·7	0	0	31	2	18	0	2	3	3	0	3	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1017·2	979·3	..	9·4	8·1	6·6	9·7	83	..	1·4	..	1·4	0	0	20	3	0	4	1	9	1	2	0	11	0
	0830	,,	1018·8	981·4	+0·1	13·1	10·3	7·1	10·3	68	+2	2·1	+0·7	1·0	0	0	14	0	0	3	0	0	2	8	1	17	0
	1130	,,	1017·4	981·1	..	21·5	14·4	7·7	10·7	42	..	2·0	..	2·1	0	0	19	0	0	3	2	5	1	6	2	12	0
	1730	,,	1014·7	978·4	..	21·3	14·7	8·8	11·4	45	..	1·6	..	1·4	0	0	18	3	0	4	1	4	1	4	1	13	0
	2330	,,	1017·4	980·0	..	13·1	10·1	6·8	9·9	66	..	1·5	..	1·4	0	0	18	3	0	1	1	6	3	3	1	13	0
Rewa*	0830	299	..	..	..	12·7	10·5	8·0	10·9	74	..	2·0	..	1·6	0	0	16	0	0	1	0	0	6	6	3	14	0
	1730	..	..	..	..	21·9	15·2	9·4	11·9	45	..	2·3	..	1·7	0	0	16	8	1	0	0	0	1	2	4	14	0
Sidhi	0830	272**	1018·3	986·1	..	12·8	10·9	8·9	11·5	78	..	1·3	..	1·0	0	0	16	1	1	1	1	3	2	6	1	15	0
	1730	,,	1013·4	982·3	..	21·6	16·2	11·9	14·0	55	..	2·1	..	0·9	0	0	12	3	0	1	0	1	1	4	2	19	0
Umaria	0830	459	1019·4	965·5	..	11·8	9·9	8·1	10·8	78	+11	3·2	+1·4	0·8	0	0	8	2	1	2	2	0	0	0	0	23	1
	1730	..	1014·4	962·5	..	21·6	16·7	13·2	15·5	60	..	3·1	..	0·8	0	0	9	3	2	1	0	0	0	0	2	22	1
Jabalpur	0530	393	1017·3	970·7	..	9·7	8·6	7·4	10·3	85	..	0·7	..	0·8	0	0	7	2	0	1	3	1	0	0	0	24	0
	0830	,,	1019·0	973·1	+0·7	13·9	10·9	7·6	10·6	66	−7	2·3	+1·0	2·1	0	0	18	0	3	0	6	9	0	0	0	13	0
	1130	,,	1017·0	972·4	..	22·5	15·0	8·2	11·0	40	..	2·4	..	3·2	0	0	27	4	4	1	5	8	2	0	3	4	0
	1430	,,	1013·6	969·5	..	25·3	15·5	6·2	9·7	30	..	2·6	..	4·7	0	0	30	13	6	0	2	5	0	1	3	1	0
	1730	,,	1014·2	969·7	..	22·2	15·6	9·9	12·3	46	..	3·0	..	0·7	0	0	6	3	1	1	0	1	0	0	0	25	0
	2330	,,	1017·3	971·2	..	12·9	11·0	9·0	11·6	78	..	0·7	..	1·0	0	0	9	1	0	0	4	4	0	0	0	22	0
Ambikapur	0830	611	1019·1	948·4	0	12·9	10·9	9·1	11·5	78	+3	1·6	+0·7	0·8	0	0	5	1	1	0	0	1	2	0	0	26	0
	1730	,,	1013·9	945·3	..	20·6	14·1	8·7	11·4	47	..	1·6	..	6·1	0	0	28	19	7	0	1	0	0	0	1	3	0
Pendra	0530	625	1017·2	944·8	..	11·4	9·0	6·6	9·7	74		1·0	..	2·2	0	1	12	7	1	0	0	1	0	1	3	18	0
	0830	,,	1018·7	947·0	+0·1	14·8	11·6	8·0	11·3	64	0	2·2	+0·6	3·2	0	1	18	8	1	0	0	3	2	2	3	12	0
	1130	,,	1016·5	946·5	..	21·1	13·5	6·7	9·9	40	..	2·1	..	9·0	0	1	28	16	2	0	0	7	2	1	1	2	0
	1430	,,	1013·3	943·8	..	22·9	14·4	6·8	10·2	36	..	2·1	..	10·0	0	1	29	12	2	1	2	4	2	0	6	1	1
	1730	,,	1014·4	944·1	..	19·9	13·4	7·7	10·7	46	..	2·0	..	3·0	0	0	24	14	0	0	0	6	1	0	3	7	0
	2330	,,	1017·5	945·6	..	3·7	10·5	7·2	10·4	66	..	0·6	..	3·7	0	1	23	8	0	0	0	3	5	4	4	7	0

**Heights calculated, pressures [illegible]

*Observations for 30 days.

Sub-Division station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East) (*Contd.*)																											
Mandla	0830	443	1019·4	967·4	+0·2	12·0	10·0	7·8	10·7	76	−8	1·6	+0·1	0·3	0	0	2	2	0	0	0	0	0	0	0	29	0
	1730	,,	1013·8	963·7	..	21·4	14·4	7·7	10·8	42	..	1·6	..	0·3	0	0	3	2	0	0	0	0	0	0	1	28	0
Champa	0830	245	1018·4	989·5	+0·3	14·9	12·7	10·6	12·9	75	+5	2·2	+0·5	3·6	0	0	28	26	0	0	0	0	0	0	2	3	0
	1730	,,	1014·3	986·2	..	23·0	16·5	11·4	13·5	48	..	2·1	..	2·1	0	0	16	10	0	0	1	0	0	1	4	15	0
Raigarh	0830	220	1018·1	992·4	+0·3	17·5	13·7	10·1	12·6	64	0	1·6	+0·2	3·2	0	0	31	5	25	1	0	0	0	0	0	0	0
	1730	,,	1013·6	988·4	..	23·6	16·5	10·9	13·0	45	..	1·5	..	1·2	0	0	17	6	10	0	0	0	0	0	1	14	0
Raipur	0530	298	1016·5	981·2	..	13·3	11·6	9·9	12·3	79	..	0·9	..	2·3	0	0	17	7	2	1	4	2	0	0	1	14	0
	0830	,,	1018·3	983·5	+0·4	17·1	13·4	10·1	12·4	64	0	1·9	+0·7	3·2	0	0	21	6	8	2	3	2	0	0	0	10	0
	1130	,,	1016·7	982·8	..	23·7	16·0	9·3	12·0	40	..	2·2	..	5·2	0	0	30	4	8	3	6	3	0	0	0	1	6
	1430	,,	1013·6	980·0	..	25·8	16·2	7·8	9·9	33	..	2·3	..	5·3	0	0	28	4	4	2	9	2	0	0	7	3	0
	1730	,,	1013·9	980·1	..	23·1	16·1	10·2	12·6	44	..	1·7	..	1·7	0	0	13	5	6	1	0	1	0	0	0	18	0
	2330	,,	1016·2	981·6	..	17·3	13·3	9·5	12·0	61	..	0·4	..	3·7	0	0	25	2	2	10	7	4	0	0	0	6	0
Kanker	0830	402	1018	971·9	+0·7	19·0	15·3	12·4	14·4	66	−9	1·2	−0·5	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	..	1015·4	968·4	..	24·5	17·1	11·4	13·6	45	..	2·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jagdalpur	0530	553	1016·1	952·0	..	11·9	11·0	10·4	12·5	91	..	1·9	..	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
	0830	..	1017·7	954·3	+0·2	15·5	13·1	11·5	13·4	76	−5	1·3	−0·9	1·2	0	0	11	4	2	0	1	0	0	0	4	20	0
	1130	,,	1014·7	953·2	..	24·3	16·1	9·8	12·3	41	..	1·1	..	6·9	0	1	29	5	15	4	1	0	0	1	4	1	0
	1730	..	1012·6	950·7	..	24·0	16·7	11·6	13·7	46	..	1·6	..	1·9	0	0	15	5	10	0	0	0	0	0	0	16	0
	2330	..	1015·9	952·6	..	15·6	13·5	11·9	13·9	79	..	0·8	..	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
Gujarat																											
Deesa	0830	136	1017·2	1000·9	0	13·3	8·3	1·4	6·9	46	..	0·7	..	7·1	0	2	27	0	28	0	0	0	0	0	1	2	0
	1730	..	1013·8	998·2	..	26·2	14·4	1·7	7·6	21	..	1·6	..	8·4	0	2	29	0	4	0	3	0	4	0	19	0	1
Radhanpur	0830	30	1017·1	1013·5	..	14·5	10·2	5·2	9·0	55	..	0·1	..	3·2	0	0	26	11	9	0	0	0	0	0	6	5	0
	1730	,,	1013·7	1010·3	..	26·4	17·4	10·0	12·6	37	..	0	..	4·3	0	0	26	9	2	1	1	0	1	6	6	5	0
Idar	0830	219	1016·6	991·2	..	19·3	11·5	1·3	7·3	33	..	2·4	..	2·4	0	0	20	6	6	4	2	0	0	0	2	11	0
	1730	..	1013·1	988·3	..	25·9	15·6	5·2	9·4	28	..	3·3	..	1·1	0	0	14	1	1	1	2	1	1	7	0	17	0
Ahmadabad	0230	55	1014·7	1008·1	..	15·0	10·9	6·2	9·7	57	..	0·8	..	5·5	0	0	24	8	10	5	0	0	0	0	1	7	0
	0530	..	1014·5	1008·0	..	13·5	9·9	5·6	9·3	60	..	0·9	..	5·4	0	0	18	0	10	5	0	1	0	0	2	13	0
	0830	..	1016·6	1010·0	−0·3	15·4	10·7	5·1	9·1	51	−9	2·2	+1·2	8·1	0	1	23	3	3	15	2	0	0	0	1	7	0
	1130	..	1016·7	1010·3	..	25·4	16·1	7·5	10·8	33	..	1·9		14·1	0	9	22	1	3	12	13	0	0	1	1	0	0
	1430	..	1013·6	1007·3	..	29·3	17·7	7·5	10·8	26	..	2·7	..	11·5	0	1	28	1	6	5	8	1	1	5	2	2	0
	1730	..	1013·2	1006·9	..	27·5	17·0	7·5	10·9	30	..	3·5	..	7·2	0	0	25	7	3	5	3	3	1	2	1	6	0
	2030	..	1015·0	1008·5	..	19·6	13·8	8·0	11·1	48	..	1·7	..	3·2	0	0	12	2	3	1	0	1	0	0	5	19	0
	2330	,,	1015·3	1008·8	..	16·9	12·1	6·9	10·2	55	..	1·0	..	4·1	0	0	18	7	7	1	0	0	1	0	2	13	0
Dohad	0830	333	1017·4	978·5	+0·1	15·7	9·6	1·7	7·1	40	−20	1·5	+0·1	4·8	0	1	25	1	5	11	3	5	1	0	0	5	0
	1730	..	1012·6	975·3	..	27·4	14·5	−1·0	6·1	17	..	1·1	..	5·1	0	0	28	3	7	2	2	1	13	0	0	3	0
Vallabh Vidyanagar	0830	44	1016·1	1010·8	..	12·8	9·9	6·3	9·9	67	..	1·9	..	6·2	0	0	29	6	16	3	1	0	1	2	0	2	0
	1730	..	1013·0	1008·0	..	27·9	17·8	9·4	12·2	32	..	1·9	..	3·5	0	0	26	9	7	0	0	3	2	1	4	5	0
Baroda Aerodrome	0830	38	1016·3	1011·8	..	15·8	10·7	4·7	8·8	49	..	1·6	..	6·5	0	1	15	6	7	1	1	0	1	0	0	15	0
	1130	,,	1016·0	1011·7	..	26·8	15·8	4·9	9·1	25	..	1·5	..	11·3	0	4	22	2	10	6	6	1	0	0	1	5	0
	1730	,,	1012·7	1008·4	..	28·1	16·7	2·3	9·8	26	..	2·1	..	7·9	0	0	23	5	6	1	1	1	1	1	7	8	0
Baroda	0530	34	1014·4	1010·2	..	13·9	11·0	7·8	10·8	67	..	0·2	..	0·2	0	0	2	0	2	0	0	0	0	0	0	29	0
	0830	..	1016·5	1012·2	+0·3	14·9	11·	7·5	10·7	62	−11	1·4	+0·4	0·3	0	0	3	0	3	0	0	0	0	0	0	28	0
	1130	,,	1016·4	1012·3	..	27·3	17·	9·0	11·9	32	..	1·2	..	1·5	0	0	13	0	8	2	2	0	0	0	1	18	0
	1730	,,	1013·0	1009·1	..	28·5	18·8	11·5	13·8	35	..	2·1	..	0·8	0	0	7	0	5	0	0	0	0	1	1	24	0
	2330	..	1015·2	1011·1	..	18·1	13·6	9·4	11·9	58	..	0·9	..	0·5	0	0	4	0	3	0	0	0	0	1	0	27	0
Broach	0830	17	1015·3	1013·2	−0·4	14·3	10·9	7·0	10·3	63	−3	1·2	0	4·5	0	0	31	2	17	2	4	0	0	0	6	0	0
	1730	,,	1012·0	1010·0	..	30·3	18·9	10·0	12·5	29	..	1·8	..	5·4	0	0	31	1	21	1	4	0	0	0	4	0	0
Surat	0530	12	1013·6	1012·2	..	16·7	12·3	7·7	10·8	57	..	0·5	..	7·7	0	0	30	0	27	1	2	0	0	0	0	1	0
	0830	..	1015·7	1014·4	+0·2	17·6	12·4	7·0	10·2	51	−7	2·2	+0·9	7·4	0	0	30	0	25	1	4	0	0	0	0	1	0
	1130	,,	1016·1	1014·7	..	26·6	16·4	7·2	10·4	30	..	2·6	..	10·3	0	0	31	0	17	4	7	0	1	0	2	0	0
	1730	,,	1012·5	1011·2	..	28·9	18·9	11·3	13·7	35	..	2·9	..	7·0	0	0	26	1	10	1	1	1	2	1	9	5	0
	2330	,,	1014·9	1013·4	..	20·2	14·7	9·3	12·3	52	..	0·9	..	8·7	0	0	29	2	22	0	4	0	0	0	1	2	0
Saurashtra and Kutch																											
Naliya	0830	21	1016·9	1014·3	..	12·7	9·2	4·9	8·8	61	..	3·2	..	1·6	0	0	8	4	4	0	0	0	0	0	0	23	0
	1730	,,	1013·9	1011·5	..	25·6	16·2	7·0	10·8	32	..	3·5	..	5·9	0	0	28	6	12	0	0	0	5	2	3	3	0
Bhuj (Rudramata)	0230	80	1015·7	1006·1	..	14·2	9·0	2·3	7·3	47	..	1·1	..	2·5	0	0	7	4	0	0	0	0	0	2	1	24	0
	0530	,,	1015·6	1005·9	..	12·1	8·0	2·5	7·4	54	..	0·8	..	1·5	0	0	5	2	0	0	0	0	2	0	1	26	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra & Kutch—(*Contd.*)																											
Bhuj (Rudramata) (contd.)	0830	80	1017·3	1007·6	+0·2	13·3	8·7	2·7	7·6	50	+1	2·6	+1·5	2·0	0	1	4	1	2	0	0	0	1	0	1	26	0
	1130	,,	1017·4	1008·1	..	22·5	13·0	2·1	7·3	27	..	2·4	..	12·5	0	4	25	4	21	0	1	0	1	0	2	2	0
	1430	,,	1014·4	1005·2	..	26·5	14·7	1·9	7·2	21	..	3·3	..	13·7	0	24	4	7	17	1	2	0	0	0	1	3	0
	1720	,,	1014·0	1004·8	..	25·8	14·3	1·2	7·0	21	..	3·5	..	13·2	0	29	2	8	21	0	1	0	0	0	1	0	0
	2030	,,	1015·9	1006·5	..	19·5	11·9	3·1	7·9	35	..	1·8	..	3·8	0	1	10	6	3	0	0	0	0	0	2	20	0
	2330	,,	1016·3	1006·8	..	16·4	10·1	2·3	7·3	40	..	1·5	..	4·8	0	0	11	8	1	0	0	0	1	0	1	20	0
Kandla Aerodrome.	0830	35	1017·2	1013·0	..	16·5	10·0	1·4	7·1	38	..	1·8	..	16·0	0	7	24	13	2	0	0	0	0	0	16	0	0
	1130	,,	1017·4	1013·4	..	24·4	13·6	0·1	6·9	22	..	2·0	..	18·0	0	10	21	12	12	2	0	0	0	1	4	0	0
	1730	,,	1014·1	1010·1	..	26·5	14·5	0·3	6·8	20	..	2·9	..	15·5	0	9	20	19	3	2	0	3	0	0	2	2	0
New Kandla . .	0830	14	1017·2	1015·5	..	16·3	10·8	4·1	8·5	46	..	2·9	..	12·2	0	3	28	21	5	2	0	0	0	0	3	0	0
	1730	,,	1014·3	1012·6	..	24·9	16·0	7·6	10·0	34	..	4·5	..	12·3	0	2	29	13	9	3	1	0	3	1	1	0	0
Mandvi . .	0830	9	1016·8	1015·7	−0·1	15·6	10·3	4·3	8·3	47	−17	3·2	+1·4	12·5	0	7	24	2	23	6	0	0	0	0	0	0	0
	1730	,,	1014·1	1013·0	..	23·7	17·5	11·9	15·0	53	..	5·0	..	15·7	0	7	21	3	3	1	3	2	5	9	0	3	2
Surendranagar .	0830	74	1016·7	1007·9	+0·1	16·5	11·4	5·8	9·4	50	−3	2·0	+0·6	5·0	0	0	21	11	3	3	0	0	0	0	4	10	0
	1730	,,	1012·8	1004·4	..	28·3	18·3	10·5	12·9	33	..	3·4	..	4·9	0	0	24	14	4	2	1	0	0	1	2	7	0
Okha . . .	0530	7	1015·1	1014·3	..	20·2	16·0	12·3	14·8	62	..	0·7	..	20·8	0	16	14	8	16	3	0	0	0	0	3	1	0
	0830	,,	1016·9	1016·1	..	20·6	15·9	12·0	14·3	59	..	2·2	..	20·8	0	15	16	9	14	7	0	0	0	0	1	0	0
	1130	,,	1017·6	1016·8	..	22·1	16·6	12·2	14·5	55	..	2·9	..	20·1	0	16	15	5	16	8	0	0	0	0	2	0	0
	1730	,,	1014·4	1013·6	..	22·5	18·0	14·4	16·9	63	..	3·8	..	15·7	0	6	24	4	5	3	0	0	0	1	17	1	0
	2330	,,	1016·3	1015·5	..	21·3	17·2	13·8	16·3	65	..	1·3	..	20·6	0	14	17	12	7	0	0	1	0	0	11	0	0
Jamnagar (Aerodrome)	0530	23	1015·0	1012·4	..	13·6	9·9	5·4	9·3	59	..	1·2	.	8·7	0	4	15	8	9	0	0	0	0	1	1	12	0
	0830	,,	1016·8	1014·2	+0·2	15·4	10·8	5·4	9·3	53	−8	2·2	1·2	7·9	0	4	11	6	7	0	0	0	0	1	1	16	0
	1130	,,	1017·1	1014·4	..	22·6	14·3	5·8	9·6	35	..	2·7	.	20·9	0	14	17	9	14	5	1	0	0	0	2	0	0
	1730	,,	1013·8	1011·2	..	24·9	15·0	5·3	9·0	29	..	3·7	..	22·4	0	20	11	17	11	1	0	0	0	1	1	0	0
	2330	,,	1015·9	1013·3	..	17·8	13·8	9·9	12·5	61	..	1·8	.	9·0	0	4	17	11	6	0	0	0	0	1	3	10	0
Dwarka . .	0830	11	1016·2	1014·9	−0·4	18·1	14·4	10·9	13·4	65	−1	1·5	0	13·0	0	2	29	19	8	4	0	0	0	0	0	0	0
	1730	,,	1013·4	1012·1	..	24·3	17·0	11·2	13·5	46	..	2·1	.	15·0	0	5	26	13	6	2	0	0	0	2	8	0	0
Rajkot . . .	0530	138	1014·8	998·6	..	13·8	8·4	0·8	6·7	42	..	0·3	..	5·0	0	0	22	4	13	1	2	0	1	0	1	9	0
	0830	,,	1016·4	1000·3	−0·3	16·1	9·9	1·5	7·1	39	−14	0·9	−0·3	7·0	0	0	24	4	11	2	2	1	0	2	2	7	0
	1130	,,	1016·2	1000·5	..	25·8	14·4	1·4	7·2	22	..	0·9	..	17·0	0	11	17	4	15	5	2	0	0	0	2	3	0
	1730	,,	1012·8	997·3	..	27·9	15·2	1·1	7·0	19	..	1·5	..	15·7	0	12	19	10	12	1	1	0	0	1	4	0	2
Bhaunagar (Aerodrome)	0830	11	1016·4	1015·1	+0·1	16·1	10·5	3·8	8·2	45	+2	1·9	+0·5	10·5	0	2	24	5	0	0	0	0	2	3	14	5	2
	1130	,,	1016·5	1015·3	..	24·1	15·9	8·3	11·4	38	..	1·6	..	16·2	0	6	25	5	19	4	3	0	0	0	0	0	0
	1730	,,	1013·1	1011·9	..	27·3	17·2	8·2	11·5	32	..	2·3	..	16·0	0	8	23	3	14	5	6	3	0	0	0	0	0
Porbandar (Aerodrome)	0830	7	1016·1	1015·3	0	17·8	11·6	4·2	8·7	44	−18	2·4	+0·9	8·4	0	4	18	7	5	3	3	0	1	0	2	9	0
	1130	,,	1016·3	1015·5	..	26·8	15·7	4·3	8·9	25	..	2·5	..	17·3	0	17	14	5	14	8	2	0	0	0	2	0	0
	1730	,,	1012·9	1012·1	..	27·1	17·0	7·5	11·2	32	..	3·5	..	18·5	0	14	17	7	6	1	0	0	1	14	2	0	0
Keshod . . .	0830	51	1015·9	1009·8	..	16·4	10·0	1·2	7·2	38	..	1·6	..	13·9	0	5	26	3	16	10	0	0	1	0	0	0	0
	1130	,,	1015·8	1009·9	..	25·9	14·5	1·3	7·3	22	..	1·8	..	18·9	0	17	14	7	15	8	0	0	0	0	1	0	0
	1730	,,	1012·4	1006·6	..	29·0	16·0	1·3	7·7	19	..	2·3	..	19·1	0	14	17	9	7	2	0	1	6	4	2	0	0
Mahuva† . .	0830	9	1015·1	1014·1	..	19·3	13·7	8·2	11·2	50	..	4·3	..	2·4	0	0	20	4	14	0	0	0	0	1	1	11	0
	1730	,,	1012·2	1011·3	..	26·5	19·0	12·9	15·9	46	..	5·8	..	4·1	0	0	26	1	5	5	15	0	0	0	0	5	0
Veraval . .	0230	8	1013·9	1013·0	..	17·6	12·4	6·7	10·2	51	..	0·9	..	13·6	0	6	25	14	14	1	1	0	0	0	1	0	0
	0530	,,	1013·5	1012·6	..	16·9	11·5	5·3	9·3	49	..	0·9	..	14·1	0	4	27	12	15	2	0	0	0	0	2	0	0
	0830	,,	1015·3	1014·4	−0·3	18·7	12·5	6·1	9·5	45	−4	1·9	+0·7	14·2	0	9	20	6	20	2	1	0	0	0	0	2	0
	1130	,,	1015·6	1014·7	..	27·7	17·9	9·5	12·5	35	..	2·3	..	16·0	0	8	23	4	10	2	2	5	5	2	1	0	0
	1430	,,	1012·9	1012·0	..	27·4	20·5	15·5	18·5	50	..	2·5	..	17·1	0	14	17	1	3	1	2	5	11	5	3	0	0
	1730	,,	1012·6	1011·7	..	25·5	20·6	17·4	20·2	63	..	3·0	..	13·9	9	6	25	1	2	1	3	5	10	7	2	0	0
	2030	,,	1014·6	1013·7	..	22·4	18·5	15·4	18·1	68	..	1·4	..	7·5	0	1	24	7	1	2	1	1	3	4	6	6	0
	2330	,,	1014·9	1014·0	..	18·8	14·8	11·0	13·6	63	..	1·4	..	8·9	0	0	27	13	9	1	1	0	0	0	3	4	0
Konkan																											
Dahanu . .	0830	5	1014·5	1014·0	+0·1	19·1	16·3	14·4	16·3	74	+5	1·0	−0·6	6·4	0	0	28	2	6	14	6	0	0	0	0	3	0
	1730	,,	1611·8	1011·3	..	25·7	22·6	21·3	25·0	78	..	(b) 0·9	..	(b) 13·0	0	4	24	21	0	1	0	0	0	3	3	1	0
Bomb (Santa Cruz)	0230	14	1012·7	1011·0	..	18·5	16·1	14·3	16·3	77	..	0·8	..	3·2	0	0	15	0	7	7	1	0	0	0	0	16	0
	0530	,,	1012·6	1010·9	..	18·2	15·3	13·0	15·1	73	..	0·8	..	5·8	0	0	22	0	7	14	1	0	0	0	0	9	0
	0830	,,	1014·7	1013·0	−0·2	21·6	16·6	12·7	14·9	58	−7	2·5	+1·1	4·1	0	0	19	0	2	17	0	0	0	0	0	12	0
	1130	,,	1014·8	1013·1	..	29·1	18·6	10·6	12·9	33	..	2·9	..	9·5	0	0	30	1	3	13	9	0	0	1	3	1	0
	1430	,,	1011·8	1010·2	..	30·4	20·0	12·5	14·9	35	..	2·8	..	11·1	0	1	29	1	2	3	2	2	2	7	11	1	0
	1730	,,	1011·8	1010·2	..	27·2	19·9	15·1	17·3	48	..	2·5	..	12·4	0	0	31	5	1	0	0	0	0	2	23	0	0

†Data copied from daily weather telegrams. (b) Mean of 29 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or heigh in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan (*Contd.*)																											
Bombay (Santacruz) —(*contd.*)	2030	14	1013·6	1011·9	..	23·3	18·8	15·8	18·1	63	..	1·0	..	8·4	0	0	28	14	2	0	0	0	0	0	12	3	0
	2330	,,	1013·8	1012·1	..	20·4	17·2	14·9	17·0	71	..	0·9	..	3·4	0	0	19	3	12	1	1	0	0	1	1	12	0
Bombay	0830	..	1014·5	1013·3	−0·3	21·8	18·7	16·6	19·0	73	+3	2·5	+1·1	7·7	0	0	28	2	8	17	1	0	0	0	0	3	0
	1130	,,	1014·6	1013·4	..	27·3	20·5	16·1	18·5	51	..	2·7	..	6·6	0	0	29	2	6	14	5	0	0	0	1	2	1
	1730	..	1011·7	1010·5	..	26·3	21·6	18·9	22·0	64	..	2·4	..	10·0	0	2	29	5	0	0	0	0	0	6	20	0	0
Alibag	0830	7	1014·5	1013·7	−0·1	21·1	17·3	14·6	16·7	67	+3	2·3	+0·5	7·2	0	0	27	6	6	9	6	0	0	0	0	4	0
Bhira	0830	96	1014·3	1003·2	..	19·8	16·3	13·4	15·7	70	..	2·4	..	2·3	0	0	18	1	4	1	7	1	1	0	3	13	0
	1730	,,	1010·6	999·7	..	27·8	22·3	19·0	22·4	61	..	1·6	..	1·6	0	0	18	0	1	0	13	1	2	0	1	13	0
Harnai	0830	20	1013·9	1011·6	+0·2	24·5	18·9	15·0	17·3	57	+1	3·5	+1·6	7·2	0	2	22	2	2	15	5	0	0	0	0	7	0
	1730	,,	1011·3	1009·0	..	26·7	22·6	20·4	24·1	69	..	3·7	..	16·1	0	7	24	11	0	0	0	0	0	5	15	0	0
Ratnagiri	0330	35	1014·0	1009·9	−0·1	21·9	17·7	14·6	16·8	65	..	2·6	..	7·0	0	0	26	0	1	11	13	0	0	0	1	5	0
	1730	,,	1010·9	1006·9	..	27·8	22·2	19·1	22·2	59	..	2·5	..	6·6	0	0	30	3	0	0	1	0	1	8	17	1	0
Devgarh	0830	36	1013·9	1009·7	+0·2	22·6	18·5	15·8	17·9	67	0	2·1	+0·1	9·8	0	2	26	0	4	21	3	0	0	0	0	3	0
	1730	,,	1010·7	1006·7	..	27·7	22·9	20·4	24·0	65	..	2·5	..	18·5	0	6	25	0	0	0	1	0	1	3	26	0	0
Vengurla	0230	9	1012·4	1011·4	..	19·9	18·5	17·5	20·1	87	..	1·1	..	1·4	0	0	8	6	1	0	0	0	0	0	1	23	0
	0530	..	1012·2	1011·2	..	18·7	17·4	16·6	19·0	88	..	1·3	..	3·1	0	0	19	14	3	1	0	0	0	0	1	12	0
	0830	..	1014·4	1013·4	+0·3	20·7	18·1	16·3	18·6	77	..	2·0	+0·4	3·0	0	0	18	11	2	2	0	0	0	0	3	13	0
	1130	,,	1014·0	1013·0	..	30·1	20·7	14·6	16·7	40	..	1·5	..	5·9	0	0	28	2	4	12	3	4	2	1	0	3	0
	1730	..	1010·9	1009·9	..	28·0	22·4	19·4	22·5	60	..	2·4	..	6·2	0	0	30	0	1	1	0	0	4	23	1	1	0
	2330	,,	1013·3	1012·3	..	21·4	19·7	18·7	21·6	85	..	1·5	..	3·0	0	0	16	14	[illegible]	1	0	0	0	0	1	15	0
Ratnagiri	0530	60	1011·9	1005·0	..	20·2	18·6	17·6	20·1	86	..	1·0	..	9·2	0	0	30	1	7	21	1	0	0	0	0	1	0
	0830	..	1014·1	1007·2	..	20·9	18·4	16·8	19·1	77	..	1·9	..	8·5	0	0	30	1	11	17	1	0	0	0	0	1	0
	1130	,,	1013·9	1007·2	..	28·8	20·2	14·5	16·7	42	..	1·8	..	7·6	0	0	28	0	8	12	7	1	0	0	0	3	0
	1430	..	1010·8	1004·1	..	30·8	21·3	15·3	17·6	40	..	2·7	..	11·4	0	0	31	0	6	2	3	1	6	13	0	0	0
	1730	,,	1010·6	1003·9	..	28·1	21·9	18·5	21·3	57	..	2·7	..	10·9	0	0	30	1	1	0	0	1	4	16	7	1	0
	2030	..	1012·8	1006·0	..	24·7	21·3	19·4	22·5	73	..	1·7	..	6·4	0	0	29	22	6	1	0	0	0	0	0	2	0
	2330	,,	1013·3	1006·4	..	23·1	20·5	19·0	22·0	78	..	1·0	..	7·2	0	0	29	3	16	11	0	0	0	0	0	1	0
Mormugao	0530	62	1011·5	1004·4	..	22·1	19·2	17·3	20·0	75	..	1·2	..	10·3	0	1	28	0	12	12	5	0	0	0	0	2	0
	0830	,,	1013·6	1006·5	..	23·7	19·1	16·1	18·3	63	..	2·1	..	11·9	0	0	31	0	9	17	5	0	0	0	0	0	0
	1130	..	1013·4	1006·4	..	28·2	20·5	15·5	17·8	47	..	2·2	..	9·9	0	1	28	3	8	10	3	1	1	0	3	2	0
	1730	,,	1010·0	1003·1	..	27·4	22·1	19·1	22·2	61	..	2·8	..	14·5	0	4	26	1	2	0	1	0	13	7	6	1	0
Dabolim (Naval Air Station)	0530	52																									
(R)	0830	..																									
(R)	1130	,,																									
(R)	1730	,,																									
Madhya Maharashtra																											
Nandurbar	0830	206	1017·0	993·0	..	19·5	13·2	6·3	10·1	44	..	1·0	..	5·2	0	0	31	1	0	27	0	2	1	0	0	0	0
	1730	,,	1012·5	989·3	..	28·3	18·2	9·2	12·7	33	..	1·4	..	2·3	0	0	23	2	1	16	0	0	0	4	0	8	0
Jalgaon	0830	201	1017·5	993·7	+0·7	15·0	10·7	6·1	9·4	54	−9	4·6	+3·1	9·4	0	0	29	0	3	18	7	0	1	0	0	2	0
	1730	..	1012·9	990·1	..	27·8	17·1	8·0	10·8	29	..	3·7	..	6·4	0	0	27	2	6	15	2	0	0	0	2	4	0
Malegaon	0830	437	1017·6	966·7	0	14·3	9·8	4·4	8·5	51	−6	3·8	+2·2	3·4	0	0	28	2	1	1	0	0	3	8	13	3	0
	1730	,,	1011·7	963·3	..	27·8	16·2	5·3	8·9	25	..	3·3	..	6·6	0	0	30	0	12	13	0	2	1	1	1	1	0
Deolali (Aerodrome)	0830	571	1018·1	952·2	..	14·7	10·6	6·8	9·8	58	..	2·6	..	5·8	0	0	25	22	2	0	0	0	0	0	1	6	0
	1730	,,	1011·9	949·1	..	27·2	16·6	8·4	11·2	31	..	2·2	..	9·1	0	0	28	1	7	11	1	0	3	3	2	3	0
Ahmednagar	0830	657	1017·2	942·2	−0·1	15·8	11·0	6·7	9·7	55	0	2·2	+0·8	2·3	0	0	18	0	0	0	6	1	2	0	9	13	0
	1730	..	1010·9	939·1	..	27·1	16·7	8·5	11·4	32	..	3·8	..	7·6	0	0	30	0	17	0	4	3	5	0	1	1	0
Poona (Aerodrome)	0230	593	1014·6	946·9	..	16·1	12·0	8·1	11·0	62	..	0·7	..	3·7	0	0	12	0	6	1	0	0	1	3	1	19	0
	0530	..	1015·2	946·9	..	14·2	11·2	8·3	11·1	70	..	1·0	..	3·7	0	0	14	0	4	2	0	0	2	4	2	17	0
	0830	,,	1016·6	948·9	..	16·5	12·4	8·6	11·4	62	..	3.4	..	3·9	0	0	12	0	6	3	0	0	0	2	1	19	0
	1130	..	1014·5	948·7	..	25·3	16·0	8·3	11·4	36	..	3·2	..	9·2	0	13	18	0	8	19	4	0	0	0	0	0	0
	1730	,,	1010·5	945·5	..	27·5	16·4	7·1	10·6	29	..	3·2	..	13·0	0	6	23	1	11	12	0	0	0	3	2	2	0
	2330	..	1015·0	947·8	..	18·7	13·4	8·2	11·5	53	..	1·3	..	6·0	0	0	23	0	5	6	0	0	3	8	1	8	0
Poona	0530	559	1015·8	950·7	..	11·0	9·7	8·3	11·1	83	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1017·3	953·2	+0·4	15·1	12·4	10·0	12·4	73	+10	2·6	+1·2	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1014·3	952·3	..	25·1	16·9	11·0	13·3	42	..	2·5	..	5·1	0	0	23	0	2	20	0	1	0	0	0	8	0
	1430	,,	1010·5	949·2	..	28·3	17·7	10·0	12·5	33	..	2·9	..	5·2	0	0	26	0	3	16	4	0	1	2	0	5	0
	1730	,,	1010·6	949·1	..	27·0	17·3	10·1	12·7	36	..	2·3	..	2·1	0	0	12	0	0	8	1	0	0	2	1	19	0
	2030	,,	1014·6	951·3	..	19·2	14·1	9·9	12·3	56	..	0·8	..	0·2	0	0	2	0	1	0	0	0	0	1	0	29	0
	2330	,,	1015·6	951·5	..	15·4	12·1	9·2	11·7	67	..	0·8	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0

(R) Registers not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	wind speed (km. p. h.): 62 or more	wind speed (km. p. h.): 20 to 61	wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—(*Contd.*)																											
Jeur	0830	521	1017·0	956·9	0	15·8	11·4	7·3	10·3	58	−1	2·6	+1·0	2·0	0	0	20	4	8	6	2	0	0	0	0	11	0
	1730	,,	1010·6	953·3	..	27·3	16·8	8·7	11·5	32	..	2·9	..	4·6	0	0	25	2	6	11	4	2	0	0	0	6	0
Baramati	0830	551	1017·1	953·8	0	15·5	12·3	9·4	12·0	67	+1	1·6	+0·2	3·9	0	0	27	7	2	11	1	1	0	0	5	4	0
	1730	,,	1010·9	950·4	..	27·4	18·1	11·9	13·9	39	..	2·2	..	6·9	0	0	30	0	4	16	4	5	1	0	0	1	0
Sholapur	0530	479	1015·0	959·8	..	15·5	11·5	7·9	10·7	61	..	1·3	..	6·0	0	0	24	0	9	10	5	0	0	0	0	7	0
	0830	,,	1016·8	962·3	−0·6	19·8	14·3	10·1	12·3	53	0	0·5	−1·1	6·3	0	0	30	0	15	0	14	0	0	1	0	1	0
	1130	,,	1015·0	961·7	..	26·0	16·6	9·4	12·0	36	..	2·3	..	10·8	0	0	31	0	2	7	21	1	0	0	0	0	0
	1730	,,	1011·1	958·4	..	27·9	17·5	9·6	12·3	34	..	2·0	..	7·0	0	0	30	1	5	3	17	2	2	0	0	1	0
	2330	,,	1014·7	960·4	..	20·2	13·6	7·9	10·8	46	..	1·9	..	9·7	0	0	31	1	10	12	7	1	0	0	0	0	0
Miraj	0830	554	1016·0	953·3	+0·1	18·1	13·9	10·2	12·9	59	−1	2·9	8·0	..	..	..	..	0	0	10	0	0	0	0	0	21	0
	1730	,,	1010·3	949·7	..	27·7	17·4	9·5	12·3	35	..	3·4	..	..	..	..	..	0	0	16	0	0	0	0	1	14	0
Kolhapur	0530	570	1014·0	948·9	..	15·5	12·7	10·5	12·7	73	..	8·4	..	3·0	0	0	15	0	0	11	0	0	3	1	0	16	0
	0830	,,	1015·8	951·1	+0·1	18·3	14·1	10·6	13·0	62	−1	1·8	+0·6	3·6	0	0	24	0	2	20	2	0	0	0	0	7	0
	1130	,,	1013·9	950·8	..	25·5	17·4	11·8	13·9	43	..	1·6	..	9·9	0	2	27	0	0	23	3	2	0	1	0	2	0
	1730	,,	1009·9	947·4	..	27·5	16·9	8·7	11·5	32	..	2·4	..	9·4	0	0	31	0	2	25	3	0	0	1	0	0	0
	2330	,,	1014·2	949·9	..	19·5	14·9	11·2	13·6	60	..	1·0	..	7·7	0	0	28	0	2	14	2	3	2	5	0	3	0
Marathwada																											
Aurangabad	0830	581	1017·1	951·3	0	19·3	12·6	6·3	9·5	43	−10	2·5	+0·8	2·9	0	0	18	0	3	15	0	0	0	0	0	13	0
	1730	,,	1011·6	947·8	..	27·5	15·5	3·9	8·9	24	..	2·7	..	2·9	0	0	21	1	3	8	3	2	2	2	0	19	0
Aurangabad (Chikalthana)	0230	579	1016·3	948·8	..	10·6	7·8	4·7	8·6	67	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1016·6	948·8	..	9·3	6·9	4·2	8·2	70	..	0·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1016·9	951·0	..	17·6	12·9	8·9	11·5	57	..	2·7	..	0·6	0	0	3	0	0	1	2	0	0	0	0	28	0
	1130	,,	1014·9	950·7	..	25·3	18·4	13·9	16·1	50	..	2·2	..	11·5	0	1	29	0	0	10	15	4	1	0	0	1	0
	1430	,,	1011·2	947·7	..	27·9	19·8	15·0	17·1	46	..	3·0	..	8·8	0	0	25	1	2	10	9	1	0	2	0	6	0
	1730	,,	1011·2	947·5	..	26·8	19·3	14·8	16·9	48	..	2·8	..	5·1	0	0	18	0	0	5	9	1	2	1	1	13	0
	2030	,,	1015·6	949·5	..	16·9	12·4	8·6	11·2	58	..	1·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	2330	,,	1016·6	949·6	..	12·9	9·6	6·2	9·5	64	..	1·0	..	0·3	0	0	1	1	0	0	0	0	0	0	0	30	0
Parbhani	0830	423	1017·8	968·9	−1·1	16·6	11·8	6·7	10·0	54	−4	1·3	−0·4	2·0	0	0	22	3	8	4	6	0	0	1	0	9	0
	1730	,,	1012·4	965·3	..	26·5	16·6	8·0	10·9	32	..	2·0	..	3·2	0	0	26	1	9	11	4	1	0	0	0	5	0
Nander	0830	358	1017·4	976·0	..	18·1	13·9	10·1	12·5	60	..	0·1	..	0·8	0	0	6	0	0	0	1	0	2	3	0	25	0
	1730	,,	1012·2	972·3	..	27·4	17·5	9·4	12·0	33	..	1·9	..	3·7	0	0	25	2	13	2	6	2	0	0	0	6	0
Bir	0830	519	1017·8	958·2	..	16·6	13·5	11·4	13·2	71	..	1·9	..	0·7	0	0	6	0	0	0	3	2	1	0	0	25	0
	1730	,,	1012·5	954·9	..	25·7	17·8	12·5	14·7	45	..	1·9	..	4·3	0	1	20	0	15	3	1	0	2	0	0	10	0
Vidarbha																											
Gondia	0830	313	1018·5	981·9	+0·4	15·6	12·4	9·4	11·8	67	−4	2·3	+0·9	0·9	0	0	10	3	4	1	0	0	0	0	2	21	0
	1730	,,	1013·7	978·3	..	24·8	16·3	9·0	11·7	37	..	2·3 (a)	..	0·6 (a)	0	0	7	4	0	0	0	1	0	0	2	23	0
Nagpur (Sonegaon)	0230	310	1015·7	979·3	..	13·6	11·1	8·3	11·2	71	..	0·7	..	4·6	0	0	28	14	1	0	0	0	1	1	11	3	0
	0530	,,	1016·0	979·5	..	12·1	10·1	7·9	10·8	76	..	1·0	..	4·6	0	0	27	15	2	0	0	0	0	0	10	4	0
	0830	,,	1018·2	981·9	+0·2	16·0	12·1	8·0	10·9	60	−2	2·3	−0·6	4·3	0	1	27	17	5	2	0	0	0	0	4	3	0
	1130	,,	1016·4	981·2	..	24·5	15·6	7·4	10·5	34	..	2·3	..	6·5	0	0	30	3	7	13	5	1	0	1	0	1	0
	1430	,,	1012·9	978·1	..	27·1	16·1	5·6	9·4	26	..	2·5	..	5·0	0	0	31	2	7	9	8	1	3	1	0	0	0
	1730	,,	1013·4	978·3	..	24·0	15·4	7·4	10·6	35	..	2·9	..	6·2	0	0	31	0	4	20	7	0	0	0	0	0	0
	2030	,,	1016·1	980·0	..	17·7	13·2	9·0	11·5	57	..	1·0	..	3·9	0	0	24	0	6	13	5	0	0	0	0	7	0
	2330	,,	1016·4	980·1	..	15·4	11·9	8·2	11·1	63	..	0·9	..	4·4	0	0	25	9	2	3	3	0	1	0	7	6	0
Amravati	0830	370	1018·1	975·5	+0·9	19·2	12·7	5·7	9·4	43	−8	1·7	+0·1	3·0	0	0	28	3	16	8	1	0	0	0	0	3	0
	1730	,,	1012·9	971·6	..	26·6	15·4	4·2	8·5	25	..	2·5	..	2·6	0	0	26	3	1	8	11	0	0	1	2	5	0
Akola (Aerodrome)	0530	309	1015·0	978·6	..	13·2	9·0	3·9	8·1	54	..	1·4	..	10·6	0	0	30	7	6	8	5	1	1	0	2	1	0
	0830	,,	1016·8	980·8	..	17·4	11·4	4·7	8·7	44	..	2·3	..	8·1	0	0	31	1	8	13	6	1	1	0	1	0	0
	1130	,,	1015·7	980·7	..	25·3	15·3	5·9	9·3	29	..	2·2	..	9·2	0	0	31	3	9	12	4	1	3	0	0	0	0
	1730	,,	1011·9	977·2	..	26·8	15·6	4·7	8·7	25	..	5·8	..	7·4	0	0	31	13	8	6	0	0	0	1	2	0	0
	2330	,,	1014·9	979·1	..	18·2	11·6	4·2	8·4	40	..	0·8	..	9·2	0	0	30	4	4	5	9	3	0	1	4	1	0
Akola	0830	282	1017·4	984·5	0	16·4	11·7	6·9	8·9	54	−3	2·3	−0·7	0·1	0	0	2	0	0	0	1	0	0	1	0	29	0
	1730	,,	1012·0	980·5	..	27·7	17·1	8·0	10·9	29	..	3·1	..	0·2	0	0	3	0	2	1	0	0	0	0	0	28	0
Bramhapuri	0830	229	1017·7	990·8	..	15·3	13·0	10·8	13·1	75	..	2·0	..	1·6	0	0	22	0		1	1	0	0	1	1	9	0
	1730	,,	1013·2	987·2	..	23·4	18·0	12·4	14·7	45	..	3·0	..	2·0	0	0	28	11	7	4	0	5	0	0	1	8	0
Buldana	0830	650	1016·6	943·0	+0·3	17·9	14·8	5·7	9·4	47	−7	1·7	−0·2	3·6	0	0	25	6	7	1	6	1	1	0	6	6	0
	1730	,,	1011·6	940·1	..	25·5	14·8	5·2	9·0	28	..	2·3	..	3·5	0	0	27	3	10	2	8	0	0	0	3	4	0
Yeotmal	0830	451	1016·7	965·1	−0·2	19·5	12·8	5·8	9·4	42	−11	2·5	+0·7	6·5	0	0	31	2	4	19	2	4	0	0	0	0	0
	1730	,,	1012·5	962·2	..	25·8	15·1	4·2	8·5	25	..	9	..	6·6	0	0	31	3	10	12	3	2	0	1	0	0	0

(a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level of height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in k. m. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—(*Contd.*)																											
Chanda	0830	193	1017·6	991·3	−0·1	15·9	13·4	11·3	13·4	74	+2	1·8	+0·3	2·2	0	0	25	6	1	0	2	5	1	3	7	6	0
	1730	,,	1013·1	991·2	..	25·3	17·9	11·6	13·9	43	..	2·4	..	3·1	0	0	28	4	12	9	2	1	0	0	0	3	0
Pusad	0830	384	1018·3	979·2	..	15·3	11·9	8·5	11·2	64	..	1·8	..	1·8	0	0	18	4	2	2	0	0	0	5	5	13	0
	1730	,,	1013·2	975·8	..	27·0	18·5	12·2	14·4	41	..	2·3	..	4·8	0	0	29	0	12	9	6	2	0	0	0	2	0
Sironcha	0830	123	1018·0	1003·5	+0·8	18·1	14·9	12·4	14·4	70	−8	1·5	−0·3	2·4	0	0	31	11	8	3	3	0	0	2	4	0	0
	1730	,,	1013·2	999·1	..	26·1	19·0	13·7	16·0	46	..	2·1	..	2·5	0	0	22	7	5	5	4	0	0	0	1	9	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1017·1	1016·4	+0·3	20·6	18·1	16·4	18·8	77	−1	1·2	−0·7	5·0	0	0	31	10	0	0	0	0	0	2	10	0	9
	1730	,,	1013·7	1013·0	..	24·4	20·2	17·5	20·2	66	..	1·4	..	9·3	0	0	31	4	3	2	3	5	0	0	0	0	17
Vishakhapatnam	0230	3	1014·1	1014·0	..	19·3	17·6	16·5	18·8	84	..	1·4	..	2·3	0	0	10	1	2	1	0	0	0	0	6	21	0
	0530	,,	1014·8	1014·1	..	18·7	17·0	15·7	18·1	83	..	1·5	..	2·5	0	0	11	4	1	1	0	0	0	0	5	20	0
	0830	,,	1016·9	1016·5	−0·4	23·0	19·0	16·4	18·8	67	0	1·7	−1·0	4·2	0	0	17	6	2	0	0	0	0	1	8	14	0
	1130	,,	1015·8	1015·4	..	27·3	20·1	15·4	17·6	49	..	2·3	..	8·3	0	0	25	2	7	6	7	0	1	0	2	6	0
	1430	,,	1013·1	1012·7	..	27·5	20·0	15·0	17·1	47	..	2·1	..	16·5	0	8	23	0	0	8	23	0	0	0	0	0	0
	1730	,,	1013·6	1013·2	..	24·7	19·1	16·2	18·1	60	..	1·4	..	10·1	0	0	31	0	0	12	19	0	0	0	0	0	0
	2030	,,	1015·7	1015·3	..	22·0	19·3	17·6	20·0	76	..	1·1	..	2·6	0	0	11	0	3	5	2	0	0	0	1	20	0
	2330	,,	1015·5	1015·1	..	20·3	18·4	17·1	19·6	82	..	1·4	..	1·5	0	0	6	1	3	1	0	0	0	0	1	25	0
Kakinada	0830	8	1016·5	1015·6	+0·2	21·9	18·8	16·8	19·3	73	+1	1·5	−1·1	6·1	0	0	31	0	24	0	0	0	0	0	7	0	0
	1730	,,	1013·1	1012·2	..	25·7	20·5	17·4	20·0	61	..	1·4	..	10·5	0	3	28	0	23	8	0	0	0	0	0	0	0
Nidadavole	0830	12	1016·8	1015·3	..	20·9	18·3	16·6	19·0	77	..	3·4	..	6·2	0	0	31	1	12	5	0	0	0	0	13	0	0
	1730	,,	1012·7	1011·3	..	26·6	20·9	17·5	20·0	58	..	3·7	..	5·9	0	0	29	1	6	15	1	0	0	0	6	2	0
Rentachintala	0830	106	1016·8	1004·5	..	20·7	18·3	16·3	19·0	74	+3	1·5	−1·7	0·2	0	0	3	0	0	2	0	0	0	1	0	28	0
	1730	,,	1012·4	1000·1	..	27·4	19·4	13·9	16·0	44	..	2·0	..	1·0	0	0	15	0	1	12	1	1	0	0	0	16	0
Gannavaram	0230	24	1013·9	1011·1	..	19·8	18·6	17·9	20·5	89	..	1·2	..	4·1	0	0	17	12	3	2	0	0	0	0	0	14	0
	0530	,,	1014·2	1011·3	..	19·4	18·2	17·5	19·9	89	..	1·5	..	7·2	0	1	24	18	3	3	0	0	0	0	1	6	0
	0830	,,	1016·6	1013·8	+0·7	22·9	19·7	17·7	20·2	73	+1	2·0	−0·3	10·5	0	2	26	6	6	16	0	0	0	0	0	3	0
	1130	,,	1015·8	1013·0	..	26·9	20·6	16·7	19·1	54	..	3·2	..	14·5	0	9	22	3	1	23	4	0	0	0	0	0	0
	1430	,,	1012·5	1009·8	..	28·3	20·1	14·6	16·8	44	..	2·5	..	11·0	0	0	31	4	3	21	2	0	0	0	1	0	0
	1730	,,	1012·8	1010·1	..	26·4	19·9	15·7	17·9	52	..	2·0	..	7·0	0	0	27	3	0	21	3	0	0	0	0	4	0
	2030	,,	1015·0	1012·2	..	22·4	19·5	17·7	20·2	75	..	1·2	..	5·7	0	1	20	2	0	11	5	3	0	0	0	10	0
	2330	,,	1015·0	1012·2	..	20·9	19·0	17·8	20·4	83	..	1·2	..	5·5	0	0	23	11	2	7	0	0	0	0	3	8	0
Nagarjuna Konda (R)	0830	,,																									
(R)	1730	,,																									
Masulipatam	0830	3	1016·3	1015·9	0	21·6	19·8	18·8	21·7	84	+6	2·8	+0·8	3·6	0	0	30	10	10	10	0	0	0	0	0	1	0
	1730	,,	1012·9	1012·5	..	25·3	21·3	18·9	22·1	68	..	2·9	..	4·2	0	0	31	0	0	26	5	0	0	0	0	0	0
Ongole	0830	12	1016·2	1014·9	..	22·7	20·3	18·9	22·1	79	..	1·8	..	1·2	0	0	18	1	12	3	1	0	0	0	1	13	0
	1730	,,	1012·5	1011·2	..	26·0	21·4	18·7	21·7	64	..	1·8	..	2·2	0	0	28	4	4	20	0	0	0	0	0	3	0
Nellore	0530	20	1013·7	1011·4	..	20·3	19·9	19·8	22·9	96	..	2·6	..	1·5	0	0	19	2	2	0	0	0	0	1	14	12	0
	0830	,,	1015·9	1013·6	+0·5	22·8	21·4	20·7	24·4	88	+4	3·8	−0·2	5·3	0	0	26	0	1	0	0	0	0	0	25	5	0
	1130	,,	1015·2	1012·9	..	27·1	22·7	20·4	24·0	67	..	4·9	..	5·7	0	0	31	7	17	2	1	0	0	0	4	0	0
	1730	,,	1012·7	1010·4	..	25·5	22·3	20·6	24·3	74	..	4·9	..	7·0	0	0	30	0	27	0	0	0	0	0	3	1	0
	2330	,,	1014·7	1012·4	..	21·8	20·9	20·4	24·1	92	..	2·0	..	1·3	0	0	14	3	10	0	0	0	0	0	1	17	0
Telangana																											
Ramagundam	0830	156	1017·2	998·9	+0·1	18·7	15·2	12·3	14·4	67	−1	1·7	0	2·3	0	0	30	6	12	7	2	2	0	0	1	1	0
	1730	,,	1012·5	994·9	..	27·9	18·2	10·7	13·0	35	..	1·6	..	4·1	0	0	24	10	7	6	1	0	0	0	0	7	0
Nizamabad	0830	381	1017·4	973·3	+0·8	17·4	14·3	11·7	13·8	69	+2	1·0	−0·6	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1012·3	969·7	..	27·7	19·3	13·5	15·6	47	..	2·0	..	3·0	0	0	18	0	18	0	0	0	0	0	0	13	0
Hanamkonda	0830	269	1017·1	986·1	+0·1	19·5	16·1	13·6	15·6	69	−1	1·3	−0·9	0·8	0	0	12	6	0	0	1	5	0	0	0	19	0
	1730	,,	1013·3	983·1	..	25·6	17·9	12·6	14·3	45	..	0·8	..	1·2	0	0	18	13	0	1	3	1	0	0	0	13	0
Hakimpet (Aerodrome)	0530	613	1014·8	945·[illegible]	..	16·2	13·6	11·4	13·7	73	..	1·5	..	6·3	0	0	25	0	7	11	6	1	0	0	0	6	0
	0830	,,	1015·9	946·9	..	20·0	16·0	13·1	15·5	65	..	2·3	..	9·9	0	0	30	1	6	5	14	4	0	0	0	1	0
	1130	,,	1014·4	946·6	..	24·7	17·0	11·0	13·3	43	..	2·1	..	14·2	0	0	31	0	9	10	14	0	0	0	0	0	0
	1730	,,	1012·0	944·3	..	24·5	16·5	10·4	13·0	42	..	2·8	..	11·5	0	0	31	0	7	10	14	0	0	0	0	0	0
	2330	,,	1015·0	945·7	..	18·4	14·5	11·4	13·5	63	..	0·9	..	7·4	0	0	30	0	9	12	8	1	0	0	0	1	0
Bhadrachallam	0830	111	1016·8	1003·8	−0·5	19·1	16·9	15·4	17·5	79	0	1·5	−1·4	2·1	0	0	29	0	29	0	0	0	0	0	0	2	0
	0730	,,	1012·5	999·9	..	26·0	19·9	16·2	18·3	54	..	1·6	..	2·1	0	0	29	0	29	0	0	0	0	0	0	2	0
Hyderabad (Begampet)	0230	545	1015·1	952·5	..	14·4	12·3	10·6	12·8	78	..	1·2	..	0·5	0	0	4	0	2	2	0	0	0	0	0	27	0
	0530	,,	1015·6	952·7	..	13·3	11·8	10·5	12·8	83	..	1·3	..	0·6	0	0	6	2	2	1	1	0	0	0	0	25	0
	0830	,,	1017·2	955·0	+0·5	17·5	14·3	11·7	13·9	69	+3	2·0	−0·1	2·0	0	0	14	1	4	2	6	1	0	0	0	17	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—(*contd.*)																											
Hyderabad (Begampet)—(*contd.*)	1130	545	1014·9	954·4	..	25·1	16·7	10·6	12·9	41	..	2·1	..	9·5	0	0	30	0	4	10	15	1	0	0	0	0	1
	1730	,,	1012·0	951·9	..	25·4	16·4	9·5	12·1	38	..	2·7	..	8·1	0	0	31	1	4	11	15	0	0	0	0	0	0
	2330	,,	1015·9	953·6	..	16·9	13·6	11·2	13·2	71	..	1·2	..	2·6	0	0	19	3	5	5	5	0	0	0	0	12	1
Khammam	0830	112	1016·8	1003·8	..	19·9	17·7	16·3	18·5	80	..	1·7	..	0·2	0	0	3	0	1	2	0	0	0	0	0	28	0
	1730	,,	1012·3	999·6	..	27·3	19·1	13·6	15·5	42	..	2·9	..	1·9	0	0	15	0	1	14	0	0	0	0	0	16	0
Mahbubnagar	0830	505	1015·8	958·9	..	21·1	16·3	12·8	15·0	60	..	1·7	..	8·6	0	0	31	2	3	19	2	0	0	0	0	0	0
	1730	,,	1011·3	955·3	..	25·9	16·7	9·9	12·3	37	..	2·5	..	6·5	0	0	31	0	6	22	3	0	0	0	0	0	0
Rayalaseema																											
Kurnool	0830	281	1016·7	984·2	+0·6	19·8	17·0	15·0	17·1	74	+3	1·5	−0·5	3·7	0	0	30	0	9	0	3	0	3	2	13	1	0
	1730	,,	1011·1	979·8	..	28·4	20·6	15·7	17·9	47	..	1·3	..	4·8	0	0	30	1	5	3	16	1	1	0	3	1	0
Anantapur	0530	350	1013·7	973·4	..	17·3	15·8	14·8	16·7	85	..	1·4	..	2·1	0	1	3	1	1	2	0	0	0	0	0	27	0
	0830	,,	1015·7	975·8	+0·5	21·0	17·9	15·9	18·1	73	+1	2·0	0·4	5·3	0	1	10	0	3	8	0	0	0	0	0	20	0
	1130	,,	1014·3	975·0	..	25·7	18·9	14·3	16·3	50	..	2·1	..	12·1	0	3	26	0	5	23	1	0	0	0	0	2	0
	1430	,,	1010·5	971·7	..	27·9	19·0	12·7	14·7	40	..	1·9	..	13·0	0	3	27	0	6	21	3	0	0	0	0	1	0
	1730	..	1010·6	971·7	..	26·9	19·1	13·6	15·8	45	..	2·2	..	13·2	0	2	28	0	7	23	0	0	0	0	0	1	0
	2030	,,	1013·3	973·9	..	24·0	18·7	15·0	17·3	57	..	1·0	..	9·7	0	2	25	0	3	24	0	0	0	0	0	4	0
	2330	..	1014·0	974·2	..	22·2	18·1	15·3	17·4	66	..	1·0	..	11·9	0	4	25	0	1	25	3	0	0	0	0	2	0
Cuddapah	0830	130	1016·3	1001·3	+0·6	22·6	20·1	18·6	21·6	78	+2	1·2	−1·7	0·7	0	0	5	0	0	5	0	0	0	0	0	26	0
	1730	..	1012·0	997·3	..	26·6	21·2	18·0	20·8	60	..	2·6	..	3·2	0	0	23	0	0	21	2	0	0	0	0	8	0
Arogyavaram	0830	791	1015·9	937·4	..	19·2	17·0	15·7	17·7	80	..	3·3	..	3·9	0	1	19	2	4	1	3	1	0	0	1	11	0
	1730	,,	1011·3	934·2	..	23·4	18·3	15·1	17·3	61	..	3·4	..	8·1	0	0	31	1	16	11	2	1	0	0	0	0	0
Madras State																											
Madras	0830	6	1015·3	1014·6	..	24·5	21·8	20·3	23·8	78	..	3·4	..	5·0	0	0	24	2	8	1	0	0	0	0	0	7	3
Madras (Minambakkam)	0230	16	1012·9	1011·1	..	21·9	20·8	20·1	23·7	90	..	2·3	..	3·9	0	1	15	5	1	1	0	0	0	2	7	15	0
	0530	..	1013·1	1011·3	..	21·4	20·4	19·9	23·1	91	..	2·3	..	4·7	0	1	18	7	2	1	0	0	0	1	8	12	0
	0830	..	1015·3	1013·5	+0·4	23·7	21·5	20·3	23·8	82	−2	3·6	−0·4	6·5	0	1	27	15	2	1	0	0	0	1	9	3	0
	1130	,,	1014·7	1012·9	..	27·0	21·9	19·0	22·1	63	..	4·3	..	13·0	0	3	28	18	16	3	0	0	0	0	0	0	0
	1430	..	1011·8	1010·1	..	27·4	21·9	18·8	21·8	60	..	4·4	..	12·8	0	3	28	14	13	4	0	0	0	0	0	0	0
	1730	,,	1012·3	1010·5	..	25·8	21·5	19·0	22·1	66	..	3·2	..	11·0	0	2	29	17	8	6	0	0	0	0	0	0	0
	2030	..	1014·4	1012·6	..	23·9	21·4	19·9	23·5	79	..	1·9	..	7·0	0	1	25	14	8	2	0	0	0	0	2	5	0
	2330	,,	1014·3	1012·5	..	22·9	21·1	20·2	23·5	85	..	2·5	..	6·4	0	1	24	15	5	0	0	0	0	0	5	6	0
Vellore	0530	214	1015·6	988·9	..	19·1	18·6	18·2	21·0	94	..	2·8	..	0·6	0	0	3	1	0	2	0	0	0	0	0	28	0
	0830	,,	1015·7	991·0	+0·6	21·4	19·7	18·8	21·6	86	+1	4·1	−0·8	2·0	0	1	30	0	26	5	0	0	0	0	0	0	0
	1130	,,	1011·7	990·4	..	25·9	20·6	17·4	20·0	60	..	4·7	..	7·3	0	0	31	2	22	4	1	0	0	0	0	0	0
	1730	,,	1011·4	987·2	..	26·2	20·6	17·1	19·7	58	..	3·7	..	9·5	0	1	30	0	25	6	0	0	0	0	0	0	0
	2330	,,	1011·6	990·4	..	22·3	20·1	18·8	21·7	81	..	2·4	..	3·3	0	0	18	3	10	5	0	0	0	0	0	13	0
Tambaram (Aerodrum)	0830	29	1015·0	1011·6	..	24·1	22·3	21·3	25·5	85	..	4·3	..	11·5	0	1	30	9	1	1	0	0	0	3	17	0	0
	1730	,,	1011·8	1008·5	..	25·6	22·4	20·1	23·8	72	..	3·5	..	19·3	0	0	21	12	17	1	0	0	0	0	0	1	0
Tiruppattur	0830	390	1015·4	970·7	..	18·7	18·4	18·0	20·9	95	..	8·0	..	2·3	0	0	31	5	26	0	0	0	0	0	0	0	0
	1730	,,	1019·9	967·4	..	25·7	20·4	17·1	19·7	60	..	7·8	..	5·8	0	0	31	5	26	0	0	0	0	0	0	0	0
Metteur Dam R.S.	0830	,,	..	..	..	23·4	21·0	19·7	22·9	80	..	5·1	..	4·5	0	0	29	0	10	0	1	0	0	0	18	2	0
	1730	,,	..	..	..	27·9	24·2	22·5	27·1	73	..	5·7	..	5·0	0	0	31	0	13	0	3	0	1	0	14	0	0
Cuddalore	0530	12	1012·3	1010·9	..	21·9	20·7	20·0	23·4	89	..	3·9	..	3·2	0	1	13	1	13	0	0	0	0	0	0	17	0
	0830	,,	1014·7	1013·3	+0·2	23·8	21·5	20·3	23·8	81	−2	4·9	+0·7	6·7	0	1	29	7	17	1	0	0	0	0	5	1	0
	1130	,,	1014·1	1012·7	..	27·2	22·3	19·6	22·9	64	..	5·3	..	13·3	0	6	25	4	26	0	1	0	0	0	0	0	0
	1730	,,	1011·6	1010·3	..	26·0	22·2	20·1	23·5	71	..	4·4	..	16·0	0	10	21	0	31	0	0	0	0	0	0	0	0
	2330	,,	1013·8	1012·7	..	24·1	21·8	20·5	24·1	81	..	3·6	..	4·2	0	0	21	0	20	0	1	0	0	0	0	10	0
Kallakkurichchi	0830	127	1015·0	1000·4	..	23·4	20·8	19·3	22·4	78	..	3·8	..	9·5	0	0	31	20	2	0	0	0	0	0	9	0	0
	1730	,,	1011·1	996·8	..	26·6	21·4	18·3	21·3	62	..	3·9	..	9·5	0	0	31	2	28	1	0	0	0	0	0	0	0
Salem	0530	278	1012·6	980·8	..	20·1	17·9	16·5	18·8	80	..	2·0	..	4·3	0	1	11	1	2	9	0	0	0	0	0	19	0
	0830	,,	1015·0	983·2	+0·3	22·5	19·0	16·8	19·1	70	−5	2·8	−0·3	1·5	0	0	6	0	0	6	0	0	0	0	0	25	0
	1130	,,	1013·5	982·3	..	27·1	20·2	15·8	18·1	58	..	3·0	..	9·6	0	2	28	0	7	21	2	0	0	0	0	1	0
	1730	,,	1010·0	979·0	..	27·4	20·2	15·5	17·8	49	..	3·9	..	8·1	0	1	29	1	10	19	0	0	0	0	0	1	0
	2330	,,	1013·3	981·7	..	22·6	19·2	17·1	19·5	72	..	2·7	..	14·3	0	0	29	0	5	24	0	0	0	0	0	2	0
Coimbatore (Pilamedu)	0530	399	1013·2	967·6	..	18·6	17·8	17·2	19·7	92	..	2·9	..	7·3	0	0	24	6	16	2	0	0	0	0	0	7	0
	0830	,,	1014·9	969·8	..	21·5	19·3	18·0	20·5	81	..	3·7	..	11·6	0	1	27	3	19	6	0	0	0	0	0	3	0

(R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean Amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State-(*Contd.*) (Coimbatore/Pilameda) —(*contd.*)	1130	399	1013·6	969·0	..	25·4	19·7	16·0	18·3	57	..	4·0	..	15·3	0	4	27	5	18	7	1	0	0	0	0	0	0
	1730	,,	1010·1	965·8	..	26·4	19·5	15·1	17·0	51	..	3·2	..	14·5	0	2	29	3	18	10	0	0	0	0	0	0	0
	2330	,,	1013·6	968·3	..	20·7	18·2	16·4	18·9	77	..	2·7	..	10·7	0	1	25	4	15	7	0	0	0	0	0	5	0
Coimbatore .	0830	409	1015·0	968·8	+0·6	21·9	19·1	17·3	19·7	75	—4	5·0	+1·2	19·7	0	21	10	0	2	13	13	3	0	0	0	0	0
Nagapattinam .	0830	9	1014·5	1013·3	+0·6	25·0	22·0	20·5	24·0	78	—3	3·9	-1·1	13·9	1	6	24	7	10	1	1	0	0	0	12	0	0
	1730	,,	1011·2	1010·1	..	26·2	22·5	20·4	24·1	71	..	4·7	..	24·1	0	22	9	6	21	2	1	0	0	0	1	0	0
Tiruchchirapalli .	0230	88	1012·0	1001·9	..	21·6	20·2	19·4	22·5	87	..	1·7	..	11·5	0	3	27	11	17	1	0	0	0	0	1	1	0
	0530	,,	1012·2	1002·0	..	21·1	19·8	19·0	22·0	88	..	2·6	..	8·4	0	2	20	10	9	2	0	0	0	0	1	9	0
	0830	,,	1014·3	1004·2	—	24·0	20·8	18·9	22·0	74	—6	2·7	—1·1	15·3	0	5	26	17	10	2	0	0	0	1	1	0	0
	1130	,,	1013·4	1003·4	..	27·7	21·8	18·5	21·3	58	..	4·3	..	20·8	0	14	17	10	19	1	1	0	0	0	0	0	0
	1430	,,	1010·2	1000·3	..	28·8	21·9	17·8	20·6	53	..	4·5	..	19·1	0	10	21	0	21	9	1	0	0	0	0	0	0
	1730	,,	1010·4	1000·4	..	27·1	21·9	19·0	22·1	62	..	4·5	..	17·1	0	11	20	0	15	16	0	0	0	0	0	0	0
	2030	,,	1013·1	1003·0	..	24·0	21·5	20·1	23·5	79	..	2·3	..	13·9	0	4	27	2	13	16	0	0	0	0	0	0	0
	2330	,,	1013·3	1003·2	..	22·6	21·0	20·1	23·5	86	..	2·5	..	12·0	0	2	28	5	21	4	0	0	0	0	0	1	0
Vedaraniyam .	0830	4	1013·9	1013·4	..	25·0	22·4	21·1	25·0	79	..	2·6	..	6·5	0	1	30	13	16	0	2	0	0	0	0	0	0
	1730	,,	1011·0	1010·5	..	26·5	22·9	21·0	25·0	73	..	2·7	..	7·2	0	0	31	13	16	0	0	1	0	0	1	0	0
Adirampattinam .	0830	6	1013·9	1013·3	..	24·2	21·7	20·6	23·8	82	..	3·1	..	10·4	0	1	30	4	0	3	2	0	0	0	22	0	0
	1730	,,	1010·8	1010·1	..	26·5	22·4	20·2	23·8	69	..	3·7	..	11·9	0	1	30	3	25	3	0	0	0	0	0	0	0
Madurai . .	0830	133	1014·9	999·6	+0·7	24·6	21·1	19·0	22·1	71	6	3·2	—1·0	5·7	0	0	31	19	6	0	1	0	0	1	4	0	0
Madurai (Aerodrome)	0530	131	1012·5	997·3	..	21·1	19·9	19·2	22·1	89	..	2·1	..	9·9	0	1	29	5	23	2	0	0	0	0	0	1	0
	0830	,,	1014·6	999·5	..	24·0	20·9	19·1	22·1	75	..	2·8	..	11·0	0	1	30	17	10	2	0	0	0	0	2	0	0
	1130	,,	1013·3	998·4	..	27·3	21·7	18·3	21·3	59	..	3·9	..	16·9	0	11	20	4	26	0	1	0	0	0	0	0	0
	1730	,,	1010·3	995·5	..	27·1	21·5	18·1	21·0	58	..	3·4	..	15·4	1	1	29	0	21	8	1	0	0	0	1	0	0
Pondi . .	0830	5	1014·0	1013·4	..	24·2	21·4	19·9	23·2	77	..	3·0	..	12·9	0	4	27	28	0	1	1	0	0	0	1	0	0
	1730	,,	1010·8	1010·2	..	26·9	22·8	20·6	24·4	69	..	3·6	..	24·1 (a)	0	26	5	1	25	4	0	1	0	0	0	0	0
Pamban . .	0830	11	1013·9	1012·6	+0·6	25·5	23·7	23·1	27·7	85	0	4·4	+0·6	12·5 (a)	0	5	25	13	9	5	0	0	0	0	3	0	0
	1730	,,	1010·8	1009·5	..	26·2	23·8	22·7	27·6	81	..	4·1	..	11·5 (a)	0	3	27	6	21	3	0	0	0	0	0	0	0
Tuticorin . .	0830	4	1014·2	1013·8	0	24·5	21·8	20·4	23·8	78	0	2·9	—1·0	15·5	0	7	24	18	10	0	0	1	0	0	2	0	0
	1730	,,	1010·3	1009·9	..	27·1	24·0	22·5	27·3	76	..	3·2	..	29·0	0	27	4	0	14	15	0	1	1	0	0	0	0
Palavankottai .	0830	51	1014·2	1008·4	+0·1	24·7	21·4	19·5	22·3	73	—3	4·7	+0·3	6·8	0	0	31	31	0	0	0	0	0	0	0	0	0
	1730	,,	1009·9	1004·2	..	28·6	22·5	19·2	22·2	57	..	4·9	..	9·4	0	0	30	3	8	14	1	1	0	1	0	1	2
Kanniyakumari .	0830	37	1012·9	1008·8	..	25·7	21·4	19·0	22·0	67	..	3·5	..	25·9	0	26	5	11	18	1	0	0	0	1	0	0	0
	1730	,,	1009·5	1005·4	..	27·4	22·9	20·6	24·3	67	..	3·7	..	21·5	0	23	8	2	19	6	0	1	0	3	0	0	0
Coastal Mysore Karwar . .	0830	4	1014·2	1013·7	+0·3	22·1	19·1	17·2	19·7	75	+5	1·5	—0·5	4·5	0	0	29	0	1	17	1	0	0	0	0	2	10
	1730	,,	1010·4	1009·9	..	28·1	23·2	20·7	24·4	71	..	2·7	..	6·4	0	0	28	0	1	0	4	0	4	1	18	3	0
Honavar . .	0830	26	1013·9	1010·9	+0·5	22·6	18·4	15·4	17·7	64	+2	3·0	0	5·7	0	0	30	1	0	27	0	0	0	2	0	1	0
	1730	,,	1009·9	1007·1	..	28·9	22·7	19·1	22·5	56	..	3·1	..	5·8	0	0	30	3	1	0	0	0	0	22	4	1	0
Mangalore (Bajpe)	0230	102	1011·3	999·6	..	21·6	20·1	19·2	22·4	87	..	1·5	..	5·2	0	0	28	0	2	21	5	0	0	0	0	3	0
	0530	,,	1011·4	999·7	..	20·6	19·1	18·1	20·9	86	..	1·3	..	6·3	0	0	31	1	2	23	5	0	0	0	0	0	0
	0830	,,	1013·6	1001·9	..	23·3	19·7	17·5	20·0	71	..	2·0	..	5·9	0	0	30	0	3	26	1	0	0	0	0	1	0
	1130	,,	1012·7	1001·3	..	29·1	21·0	15·9	18·3	45	..	2·2	..	9·5	0	0	31	1	3	23	3	1	0	0	0	0	0
	1430	,,	1009·5	998·2	..	30·9	21·9	16·5	19·0	43	..	2·5	..	10·0	0	0	31	0	2	3	3	1	2	14	3	0	3
	1730	,,	1009·6	998·2	..	27·6	21·8	18·4	21·4	58	..	2·4	..	9·7	0	0	31	1	0	0	0	0	0	25	5	0	0
	2030	,,	1012·1	1000·5	..	24·6	21·7	20·0	23·5	78	..	1·4	..	3·6	0	0	20	1	0	0	0	0	1	9	9	11	0
	2330	,,	1012·4	1000·5	..	23·4	21·1	19·8	23·2	80	..	1·4	..	3·5	0	0	22	5	4	4	2	1	1	1	4	9	0
Mangalore . .	0830	22	1013·4	1010·9	+0·1	23·9	20·8	19·0	22·1	75	+8	2·1	—0·3	5·5	0	0	31	0	1	30	0	0	0	0	0	0	0
	1730	,,	1009·9	1007·5	..	28·4	24·6	22·7	27·7	72	..	[illegible]·9	..	5·3	0	0	31	1	0	0	1	0	8	2	8	0	11
Interior Mysore North Bidar . .	0830	664	1016·7	941·7	..	19·3	14·3	10·3	12·6	57	—5	1·1	—0·9	9·9		0	31	0	3	22	5	1	0	0	0	0	0
	1730	,,	1011·5	938·5	..	24·9	15·4	7·2	10·6	34	..	1·5	..	10·6	0	0	31	0	16	15	0	0	0	0	0	0	0
Gulbarga . .	0830	458	1016·6	964·4	+0·2	19·7	14·3	9·9	12·3	54	—5	1·8	+0·4	5·4	0	0	21	0	6	15	0	0	0	0	0	10	0
	1730	,,	1010·9	960·2	..	27·6	16·5	7·6	10·7	29	..	2·6	..	5·9	0	0	31	3	4	19	2	3	0	0	0	0	0
Bijapur . .	0830	594	1016·1	948·7	0	17·9	14·7	12·3	14·4	70	+9	2·0	+0·2	1·3	0	0	13	2	0	1	9	0	0	1	0	18	0
	1730	..	1011·3	946·1	..	26·5	17·5	11·3	13·4	40	..	3·4	..	1·6	0	0	23	4	8	3	4	1	0	2	1	8	0
Raichur . .	0830	400	1015·7	970·5	+0·1	21·5	17·2	13·6	16·1	62	—3	3·6	+1·9	5·5	0	0	25	6	4	0	11	1	3	0	0	5	1
	1730	,,	1010·9	966·8	..	27·2	18·0	11·4	13·2	38	..	3·6	..	4·8	0	0	27	1	20	0	4	0	1	0	1	4	0
Belgaum . .	0830	753	1015·0	930·6	—0·4	17·8	14·6	12·4	14·3	71	+7	1·8	0	1·4	0	0	12	0	1	11	0	0	0	0	0	19	0
	1730	,,	1009·5	927·9	..	26·4	16·8	9·5	12·1	36	..	2·5	..	5·7	0	0	31	0	0	21	8	2	0	0	0	0	0

(a) Mean of 30 days.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore. North—(*Contd.*)																											
Belgaum (Samra)	0530	747	1013·8	929·4	..	15·7	12·7	10·0	12·5	69	..	1·6	..	3·5	0	0	21	2	9	6	4	0	0	0	0	10	0
	0830	,,	1051·1	931·6	..	19·1	14·8	11·6	13·7	63	..	3·2	..	6·1	0	0	26	0	9	10	6	1	0	0	0	5	0
	1130	,,	1013·5	931·4	..	24·2	16·9	11·7	13·9	46	..	2·7	..	10·8	0	1	30	0	7	12	10	2	0	0	0	0	0
	1430	,,	1009·6	928·5	..	26·9	16·6	8·6	10·9	33	..	3·0	..	10·1	0	2	28	0	7	13	8	1	1	0	0	1	0
	1730	,,	1009·7	928·5	..	26·4	15·9	7·7	10·4	32	..	2·9	..	6·6	0	1	30	0	14	9	8	0	0	0	0	0	0
	2030	,,	1013·3	930·4	..	20·6	14·9	10·4	12·8	53	..	1·6	..	2·3	0	0	14	1	9	2	0	0	1	1	0	17	0
Gadag	0530	650	1014·0	940·4	..	16·5	14·4	12·8	14·9	79	..	1·0	..	4·3	0	0	22	0	2	17	3	0	0	0	0	9	0
	0830	,,	1015·6	942·3	0	18·6	16·4	14·8	17·0	79	+17	2·0	+0·2	5·1	0	0	30	0	10	16	4	0	0	0	0	1	0
	1130	,,	1013·7	942·2	..	25·3	19·5	16·1	18·4	57	..	1·8	..	9·3	0	1	30	0	9	17	4	1	0	0	0	0	0
	1430	,,	1010·2	939·5	..	27·8	20·0	15·4	17·7	49	..	2·2	..	9·3	0	0	30	0	13	13	4	0	0	0	0	[illegible]	0
	1730	,,	1010·3	939·2	..	26·4	19·2	14·6	16·9	51	..	2·3	..	5·2	0	0	31	0	20	9	2	0	0	0	0	0	0
	2030	,,	1013·5	941·1	..	21·6	16·8	13·5	15·7	61	..	1·0	..	4·3	0	0	27	0	6	18	3	0	0	0	0	4	0
	2330	,,	1014·4	941·2	..	19·3	15·6	13·2	15·1	67	..	1·2	..	5·3	0	0	29	0	1	26	2	0	0	0	0	2	0
Interior Mysore, South																											
Bellary	0830	449	1016·4	965·3	+0·7	20·3	17·4	15·3	17·6	74	−7	1·9	−0·7	3·5	0	0	18	0	0	1	15	1	0	0	1	13	0
	1730	,,	1010·6	960·6	..	27·7	18·9	12·6	14·7	40	..	2·1	..	8·1	0	0	31	0	3	2	25	1	0	0	0	0	0
Chitradurga	0830	733	1014·9	933·1	+0·2	19·4	16·4	14·4	16·5	73	+5	2·2	−0·5	4·1	0	0	24	0	0	23	1	0	0	0	0	7	0
	1730	,,	1009·6	929·7	..	25·6	16·3	9·1	11·7	36	..	2·0	..	1·9	0	0	13	0	0	13	0	0	0	0	0	13	0
Shimoga	0830	571	1015·2	950·4	−0·1	18·2	15·0	12·9	14·7	72	−4	2·8	0	2·6	0	0	31	2	5	10	3	3	5	3	0	0	0
	1730	,,	1009·1	946·5	..	26·9	17·7	11·3	13·6	39	..	2·5	..	5·5	0	0	27	2	5	18	2	0	0	0	0	4	0
Agumbe	0830	..	..	..	..	17·8	16·2	15·0	17·3	82	..	..	..	8·1	0	0	31	0	16	4	7	0	1	3	0	0	0
Balehonnur	0830	..	..	..	..	19·6	16·3	14·0	15·9	71	−5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1524·7	908·6	..	16·1	14·9	14·1	16·1	88	+13	3·1	+0·1	3·1	0	0	31	2	3	25	1	0	0	0	0	0	0
	1730	,,	1510·1	905·6	..	23·7	16·3	10·9	13·1	46	..	2·5	..	1·9	0	0	27	1	7	15	3	0	0	0	1	4	0
Bangalore	0230	921	1507·2	911·0	..	16·2	15·4	14·8	16·9	92	..	3·5	..	5·3	0	0	22	0	4	17	1	0	0	0	0	9	0
	0830	,,	1529·7	913·1	+0·3	17·7	15·8	14·6	16·5	82	+4	3·8	0·3	7·2	0	1	30	0	7	22	2	0	0	0	0	0	0
	1130	,,	1534·4	912·6	..	22·2	17·0	13·5	15·7	58	..	2·9	..	8·4	0	2	29	0	6	23	2	0	0	0	0	0	0
	1430	,,	15149	910·1	..	24·2	17·3	12·6	14·7	49	..	2·8	..	6·5	0	1	30	0	3	22	6	0	0	0	0	0	0
	1730	,,	1512·2	910·2	..	22·6	16·7	12·5	14·7	54	..	2·9	..	5·1	0	0	28	0	3	23	2	0	0	0	0	3	0
	2030	,,	1522·2	912·0	..	18·9	16·2	14·5	16·5	76	..	1·5	..	4·3	0	0	25	0	0	24	1	0	0	0	0	6	0
Bangalore (Aerodrome)	0530	897	1506·2	913·7	..	15·6	15·0	14·7	16·6	95	..	4·7	..	6·4	0	0	24	0	3	20	1	0	0	0	0	7	0
	0830	,,	1530·0	915·8	..	17·6	16·0	14·9	17·0	85	..	4·3	..	8·7	0	0	27	0	4	22	1	0	0	0	0	4	0
	1130	,,	1534·2	915·2	..	22·2	17·1	13·6	15·8	59	..	3·3	..	10·3	0	0	27	0	4	19	4	0	0	0	0	4	0
	1730	,,	1515·1	912·6	..	22·9	17·3	13·5	15·7	57	..	3·0	..	11·3	0	0	30	0	2	22	6	0	0	0	0	1	0
	2330	,,	1518·7	914·7	..	17·2	15·9	15·2	17·1	89	..	1·4	..	6·8	0	1	26	0	4	21	2	0	0	0	0	4	0
Mysore	0830	767	1015·3	929·5	+0·4	18·7	16·2	14·4	16·5	76	+2	1·5	−1·9	13·4	0	6	25	4	12	7	4	0	0	0	0	0	4
	1730	..	1009·7	926·2	..	25·4	17·3	11·5	13·8	43	..	1·4	..	9·4	0	3	28	2	10	8	8	2	0	0	0	0	1
Kerala																											
Calicut	0530	5	1011·4	1010·8	..	21·6	20·4	19·7	22·9	89	..	1·7	..	4·3	0	0	27	0	2	22	2	1	0	0	0	4	0
	0830	..	1013·4	1012·8	−0·4	24·0	20·9	19·1	22·1	75	−2	1·8	−0·9	5·5	0	0	28	0	3	23	2	0	0	0	0	3	0
	1130	,,	1013·0	1012·4	..	28·9	22·9	19·6	22·9	58	..	2·3	..	5·5	0	0	30	0	1	3	2	3	10	11	0	1	0
	1730	,,	1009·9	1009·3	..	28·7	23·7	21·1	25·2	62	..	2·1	..	8·2	0	0	31	0	0	0	0	1	5	15	10	0	0
	2330	..	1012·5	1011·9	..	24·6	22·3	21·1	25·0	81	..	1·5	..	3·6	0	0	22	4	11	7	0	0	0	0	0	9	0
Palghat	0830	97	1013·8	1002·7	..	25·3	21·1	18·8	21·6	68	..	1·8	..	10·8	0	0	30	0	0	30	0	0	0	0	0	1	0
	1730	,,	1008·8	998·0	..	28·9	21·7	17·4	20·0	51	..	1·8	..	5·9	0	0	22	0	0	22	0	0	0	0	0	9	0
Fort Cochin	0830	3	1013·1	1012·8	+0·2	26·0	22·0	20·0	23·2	70	−3	4·6	+2·0	6·1	0	0	31	3	16	10	1	0	0	1	0	0	0
	1730	,,	1009·4	1009·1	..	27·6	23·4	21·2	25·3	68	..	4·8	..	7·6	0	0	31	1	1	0	0	0	4	16	9	0	0
Cochin (Naval Air Station)	0230	3	1010·9	1010·6	..	23·1	21·6	20·9	24·7	88	..	1·8	..	0·4	9	0	1	0	0	0	1	0	0	0	0	30	0
	0530	,,	1011·0	1010·7	..	22·0	20·7	19·9	23·2	88	..	1·6	..	1·5	0	0	6	1	2	2	1	0	0	0	0	25	0
	0830	,,	1013·2	1012·9	..	25·2	21·6	19·5	22·8	71	..	2·4	..	1·7	0	0	6	1	0	3	1	0	0	0	0	25	1
	1130	,,	1012·7	1012·4	..	29·3	22·5	18·8	21·7	54	..	2·7	..	3·9	0	0	15	1	4	4	2	2	0	2	0	16	0
	1730	,,	1009·4	1009·1	..	28·3	23·0	20·2	23·8	62	..	3·7	..	8·9	0	1	25	0	0	0	0	1	7	14	3	5	1
	2330	,,	1012·1	1011·8	..	24·5	20·7	21·8	26·1	85	..	2·8	..	1·7	0	0	7	1	0	1	2	0	0	0	3	24	0
Alleppey	0830	4	1013·0	1012·6	+0·7	24·8	22·3	20·9	24·9	79	+3	2·6	−1·4	6·0	0	0	29	0	3	10	16	0	0	0	0	2	0
	1730	,,	1009·5	1009·1	..	29·1	24·3	22·0	26·4	66	..	3·5	..	17·2	0	7	24	0	0	0	0	9	1	8	22	0	0
Punalur	0830	34	1012·9	1009·0	..	22·5	21·2	20·0	23·8	83	..	3·3	..	0·5	0	0	4	0	0	1	2	1	0	0	0	27	0
	1730	..	1008·9	1005·1	..	28·0	25·3	24·0	30·0	80	..	5·3	..	3·7	0	0	31	0	1	5	12	9	3	1	0	0	0
Trivandrum	0230	64	1010·5	1003·2	..	23·5	21·7	20·7	24·4	84	..	1·7	..	2·5	0	0	15	10	2	1	0	0	1	1	0	16	0
	0530	..	1010·8	1003·4	..	22·6	20·9	19·9	23·2	85	..	2·5	..	6·3	0	0	30	9	17	5	1	0	1	0	1	1	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in mill bars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in mill bars: At station level	Mean pressure in mill bars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*(Contd.)*																											
Trivandrum—*contd.*	0830	64	1012·8	1005·5	+0·3	25·4	22·1	20·3	23·8	74	−6	3·0	−0·6	4.4	0	0	27	1	13	7	4	0	0	0	2	4	0
	1130	..	1011·9	1004·6	..	29·8	22·5	18·4	21·3	51	..	3·9	..	3·9	0	0	22	0	3	4	2	2	6	1	3	9	1
	1430	..	1009·2	1002·0	..	29·5	23·1	19·8	22·9	56	..	3·8	..	8·6	0	0	31	0	1	1	5	3	8	7	3	0	3
	1730	..	1009·7	1002·4	..	27·8	23·1	20·6	24·4	65	..	3·8	..	6·5	0	0	30	1	0	0	3	2	15	8	1	1	0
	2030	..	1011·9	1004·6	..	25·8	22·9	21·5	25·6	77	..	1·9	..	2·1	0	0	13	3	1	0	0	0	4	1	3	18	1
	2330	..	1012·0	1004·7	..	24·6	22·5	21·3	25·6	82	..	2·3	..	4·9	0	0	25	9	10	1	3	0	0	0	2	6	0
Trivandrum (Aerodrome) . .	0830	8	1013·0	1012·1	..	26·1	22·0	19·6	23·1	68	..	3·3	..	7·3	0	3	14	1	8	4	3	0	0	0	0	14	1
Arabian Sea Islands																											
Amini* . .	0530	4																									
	0830	..																									
	1103	..																									
	1730	..																									
	2330	..																									
Minicoy* . .	0530	2																									
	0830	..																									
	1130	..																									
	1430	..																									
	1730	..																									
	2030	..																									
	2330	..																									
Hill Stations excluding Kashmir																											
Dalhousie . .	0830	1959	1463·0	801·1	−0·1	8 2	4·5	0·4	6·3	58	+3	2·0	+0·2	3·0	0	0	24	2	8	4	1	0	0	1	3	7	5
	1730	..	1457·0	800·3	..	7·9	5·9	3·6	7·9	56	..	2·0	..	2·0	0	0	17	0	3	1	3	0	4	0	0	14	6
Dharmsala . .	0830	1211	1561·3	886·7	−0·2	11·3	6·4	0·6	6·4	50	..	3·8	+0·8	1·6	0	0	19	3	11	1	0	1	0	2	1	12	0
	1730	..	1561·2	886·5	..	13·5	9·0	4 1	3·2	55	..	4·8	..	2·3	0	0	30	0	0	0	1	1	24	3	1	1	0
Simla . .	0830	2202	1515·8	782·9	−0·2	7·7	3 1	−9 2	2·8	36	+2	2·4	−0·4	2·7	0	1	17	0	5	0	6	3	0	0	4	13	0
	1730	..	1505·6	782·1	..	7·5	3·8	−3·2	4·7	50	..	2·4	..	2·3	0	0	25	0	10	0	2	5	8	0	0	6	0
Lokpal . .	0830	..	..	..	..	−8·9	11·9	−23·9	0·7	24	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath . .	0830								Closed during winter months																		
Joshimath . .	0830	..	..	..	..	6·0	1.9	−4·9	4·1	47	..	2·3	..	5·0	0	0	31	0	0	13	11	3	2	2	0	0	0
	1730	..	..	..	..	9·3	4·8	−1·8	5·3	46	..	5·0	..	3·0	0	0	30	3	1	0	4	2	7	7	5	1	1
Mussoorie . .	0830	2042	..	..	..	8·6	3·0	−5·5	3·9	42	−3	2·7	+0·1	3·7	0	0	26	10	2	0	3	3	0	0	8	5	0
	.730	..	..	..	..	8·4	5·6	2·8	3·5	70	..	3.5	..	3·3	0	0	24	6	3	0	3	6	3	0	3	7	0
Mukteswar(Kumaun)	0830	2311	3134·8	774·2	+0·2	7·3	1·9	−7·9	3·1	40	+1	2·0	−0·3	11·8	0	3	27	1	5	7	2	0	0	8	7	1	0
	1730	..	3117·7	772·9	..	6·9	2·7	−3·8	4·5	51	..	2·2	..	11.5	0	5	23	0	2	4	2	0	0	12	8	3	0
Nainital . .	0830	1953	1530·7	807·0	+0·4	7·6	3·0	−4·0	4·4	48	−11	2·4	+0·1	6·5	0	3	20	2	4	3	2	0	0	7	5	8	0
	1730	..	1500·2	805·1	..	8·8	4·2	−1·5	5·4	50	..	2·3	..	8·0	0	0	31	1	1	1	1	1	1	25	0	0	0
Kalimpong . .	0830	1209	..	..	..	15·3	14·1	13·2	15·2	86	+13	2·1	−0·1	6·0	0	0	31	1	0	0	9	1	0	0	20	0	0
	1730	,,	..	..	..	15·3	14·6	13·8	15·8	88	..	2·1	..	5·9	0	0	31	0	1	0	20	0	1	0	9	0	0
Darjeeling . .	0830	2128	1553·2	793·6	+3·1	17·0	5·7	4·3	8·3	83	+17	3·1	+0·5	0·6	0	0	5	4	0	0	0	0	0	0	1	26	0
	1730	,,	1524·8	791·0	..	8·1	7·1	6·1	9·4	88	..	5 0	..	0·9	0	0	7	1	0	0	0	0	4	2	0	24	0
Kohima . .	0830	1406	1552·3	865·0	..	12·1	10·9	9·8	12·1	91	..	2·2	..	2·0	0	0	31	0	0	0	12	0	2	1	16	0	0
	1730	,,	1506·8	860·0	..	13·3	12·3	11.5	13·6	94	..	4·2	..	2·0	0	0	31	1	1	0	1	1	0	9	18	0	0
Shillong . (R)	0830	1500																									
(R)	1730	,,																									
Cherrapunjee (R)	0830	1313																									
(R)	1730	,,																									
Abu . . .	0830	1195	..	..	..	12·1	8·0	2·3	7·2	56	+12	0·9	−0·5	9·1	0	0	2	1	0	0	0	0	0	0	1	29	0
	1730	,,	..	..	..	17·9	10·7	2·7	7·4	37	..	1·8	..	0·6	0	0	7	2	0	0	0	0	1	1	3	24	0
Aijal . . .	0830	,,	..	..	..	16·5	13·0	10·2	12·4	67	..	1·1	..	1·9	0	0	31	7	0	17	2	2	0	3	0	0	0
	1730	,,	..	..	..	17·3	14·3	12·3	14·3	71	..	2·0	..	1·8	0	0	31	5	0	6	0	5	1	14	0	0	0
Pachmarhi . .	0830	1075	1540·8	898·5	+0·2	13·9	9·7	5·3	9·0	57	−5	2·3	+0·6	1·2	0	0	15	0	7	1	1	2	4	0	0	16	0
	1730	,,	1529·4	896·4	..	19·1	11·5	3·5	8·1	37	..	3·3	..	1·6	0	0	23	3	12	1	0	1	1	0	5	8	0
Mahabaleshwar .	0830	1382	1532·4	865·4	+0·1	15·3	10·7	6·0	9·5	55	0	0·2	−1·2	11·0	0	0	31	0	6	0	25	0	0	0	0	0	0
	1730	,,	1517·1	863·5	..	20·7	14·2	8·6	11·5	46	..	0	..	9·9	0	0	31	0	15	0	9	0	0	0	7	0	0
Mercara . .	0830	1152	1520·1	887·9	+0·5	15·4	14·2	13·4	15·4	88	+5	3·4	−0·8	13·8	0	4	27	1	7	23	0	0	0	0	0	0	0
	1730	,,	1505·4	885·6	..	22·0	15·9	11·8	13·7	54	..	2·0	..	4·4	0	0	31	4	18	5	0	0	0	1	3	0	0

*Data given as addenda. (R) Register not received.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir— *(contd.)*																											
Ootacamund (R)	0830	2249																									
(R)	1730	,,																									
Coonoor (R)	0830	..																									
Kodaikanal	0830	2343	3156·4	772·0	+0·3	13·1	8·6	2·7	8·3	59	−5	3·5	0	13·5	0	6	22	2	5	8	10	2	0	0	1	3	0
	1130	,,	3161·5	771·9	..	15·5	10·7	5·7	9·8	56	..	4·1	..	15·7	0	9	22	4	7	7	9	3	0	0	1	0	0
	1730	,,	3135·1	770·3	..	12·1	10·0	7·9	11·1	79	..	5·0	..	7·7	0	4	17	3	4	4	5	3	0	0	2	10	0
Nepal																											
Katmandu	0830	1324	1530·5	871·9	..	5·2	4·5	3·7	8·1	90	..	3·5	..	0·2	0	0	2	1	0	0	0	0	0	0	1	29	0
	1130	,,	1525·0	870·6	..	15·3	10·3	5·1	9·0	49	..	2·5	..	1·3	0	0	14	0	4	2	1	2	0	0	5	17	0
	1730	,,	1505·4	868·7	..	12·2	8·9	5·6	9·2	64	..	3·1	..	0·8	0	0	8	2	1	0	0	0	0	1	4	23	0
Sikkim																											
Lachen	0830	..	..	..	..	7·1	2·6	−4·1	4·3	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	17·7	13·6	9·8	12·1	61	..	1·1	..	6·3	0	0	21	1	0	1	0	0	5	8	6	10	0
	1730	..	..	..	..	20·5	14·3	8·7	11·2	47	..	1·8	..	3·4	0	0	26	4	0	2	0	0	0	9	11	5	0
Hazaribagh	0830	615	1017·0	946·8	..	16·7	12·8	9·5	11·9	63	..	0·8	..	5·0	0	0	24	0	4	6	0	1	2	4	7	7	0
	1730	,,	1014·1	944·2	..	16·8	13·0	9·9	12·2	64	..	0·8	..	2·9	0	0	20	6	0	0	0	0	1	5	8	11	0
Konar	0830	..	..	..	..	18·3	14·2	10·6	12·8	61	..	1·1	..	4·5	0	0	25	2	1	0	1	0	0	9	12	6	0
	1730	..	..	..	..	22·3	15·5	9·8	12·1	45	..	0·3	..	3·5	0	0	31	2	2	0	1	0	0	19	7	0	0
Bokaro	0830	242	1017·2	988·9	..	14·8	12·0	9·4	11·8	70	..	0·6	..	2·9	0	0	24	3	0	0	1	1	2	13	4	7	0
	1730	,,	1013·4	985·7	..	20·6	15·3	11·0	13·1	54	..	0·7	..	3·6	0	0	29	19	5	0	0	0	1	1	3	2	0
Maithon	0830	..	..	..	..	20·6	15·3	11·0	13·1	55	..	1·3	..	3·8	0	0	30	7	3	0	0	1	4	5	10	1	0
	1730	..	..	..	..	24·1	16·9	11·3	13·4	45	..	1·1	..	3·2	0	0	31	6	1	0	0	0	8	1	15	0	0
Ramgarh	0830	..	..	..	..	15·1	13·3	11·8	13·8	82	..	0·5	..	2·3	0	0	24	0	4	3	1	0	4	11	1	7	0
	1730	..	..	..	..	20·2	19·7	19·5	22·7	96	..	0·8	..	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
Panchet Hills	0830	..	..	..	..	18·1	14·5	11·5	13·6	66	..	2·3	..	4·7	0	0	21	0	0	0	0	0	12	0	9	10	0
	1730	..	..	..	..	21·7	15·4	10·3	12·5	49	..	2·5	..	1·8	0	0	11	0	0	0	1	0	3	0	7	20	0
Durgapur	0830	..	..	..	..	18·0	14·8	12·2	14·2	68	..	1·1	..	5·3	0	0	26	2	3	0	0	0	0	0	21	5	0
	1730	..	..	..	..	22·7	16·9	12·5	14·5	53	..	1·2	..	3·1	0	0	19	4	2	0	0	0	1	0	12	12	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	15·0	12·1	9·4	12·0	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hirakud	0830	159	1017·8	999·2	..	19·1	15·7	13·1	15·1	69	..	0·9	..	2·2	0	0	20	9	2	2	1	0	1	0	5	11	0
	1130	,,	1016·3	998·0	..	23·9	17·4	12·6	14·6	49	..	0·9	..	2·7	0	0	28	8	5	0	0	1	1	6	7	3	0
	1730	,,	1013·8	995·5	..	23·2	17·1	12·6	14·6	51	..	1·3	..	0·4	0	0	6	0	0	0	0	0	1	0	5	25	0
Bhimkund	0830	..	..	..	..	16·2	13·5	11·2	13·3	72	..	1·0	..	1·2	0	0	14	5	0	0	0	0	0	0	9	17	0
	1730	..	..	..	..	22·3	16·2	11·4	13·5	50	..	1·3	..	0·1	0	0	2	0	0	0	0	0	0	0	2	29	0
Sonepur	0830	..	..	..	..	18·3	16·1	14·5	16·5	79	..	..	..	4·9	0	1	24	5	0	2	0	13	1	4	0	6	0
Khijrawan	0830	..	..	..	..	17·1	14·1	11·4	13·6	71	..	0	..	1·6	0	0	25	0	4	2	15	1	3	0		6	0
	1730	..	..	..	..	23·3	16·0	9·9	12·3	44	..	0	..	2·5	0	0	31	1	15	1	2	1	6	0	5	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	14·3	10·7	6·9	9·9	61	..	2·4	..	(d) 3·6	0	0	15	0	6	3	0	1	3	2	0	12	0
	1730	..	..	..	..	22·9	15·7	9·4	12·0	43	..	2·7	..	(c) 0·8	0	0	6	0	2	2	0	1	0	1	0	22	0
Punasa (R)	0830																										
(R)	1730																										
Thikri	0830	..	..	..	..	17·4	11·6	5·4	9·0	45	..	2·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	15·5	10·9	5·7	9·3	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·1	17·1	9·6	12·2	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	4·2	(a) 1·6	(a) −2·1	(a) 5·3	(a) 67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·5	3·4	−0·2	6·1	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar**	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	5·5	2·4	2·3	5·3	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·6	6·8	2·5	7·5	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	12·3	9·9	7·6	10·6	73	..	2·3	..	0·8	0	0	8	6	1	0	0	0	0	0	2	23	0
	1130	..	..	..	..	17·7	12·4	7·7	10·6	53	..	2·5	..	3·0	0	0	18	0	0	0	11	6	0	0	0	13	1
	1730	..	..	..	..	15·5	11·8	8·5	11·2	63	..	3·4	..	0·2	0	0	2	1	0	0	1	0	0	0	0	29	0

**Observatory changed to class V from 1-12-1964. (R) Register not received. (c) Mean of 28 days. (d) Mean of 27 days. (a) Mean of 30 days.

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Meantemperature in °C: Dry bulb	Meantemperature in °C: Wet bulb	Meantemperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories (*contd*) **Gandak catchment**—*contd.*																											
Gorkha . .	0830	..	..	..	..	13·1	10·4	7·8	10·7	70	..	1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	16·3	12·3	9·0	11·6	62	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·7	10·5	7·6	10·6	67	..	1·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot . .	0830	..	..	..	..	13.0	10·5	8·0	10·9	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·2	11·6	7·3	10·4	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh . .	0830	..	..	..	..	11·1	8·9	6·9	10·0	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·3	9·9	7·6	10·5	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
GhagharaCatchment Dadeldhura . .	0830	..	..	..	..	9·3	4·3	−2·7	5·1	48	..	1·2	..	3·1	0	0	21	0	0	6	8	2	2	3	0	10	0
	1130	..	..	..	..	11·7	6·3	−0·2	6·1	48	..	1 9	..	3·2	0	0	24	4	1	4	6	2	2	2	3	7	0
	1730	..	..	..	..	9·4	5·0	−0·6	5·9	53	..	1·4	..	1·7	0	0	17	1	0	1	3	0	3	2	7	14	0
Sallyana . (R)	0830																										
(R)	1730																										
Butwal . .	0830	..	..	..	..	16·8	13·1	9·8	12.3	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·0	15·7	13·1	15·2	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhaghmati Catchment Katmandu* .	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment Chautara . .	0830	..	..	..	..	10·2	7·8	5·5	9·1	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·7	9·8	5·5	9·2	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua** . .	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	3·4	−0·4	−6·1	3·8	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	1·7	1·0	0·1	6·1	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok . .	0830	..	..	..	..	12 7	8·6	3·8	8·3	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·5	9·1	4·1	8·4	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur . .	0830	..	..	..	..	13·9	9·2	5·1	8·9	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·4	8·9	7·4	10·4	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung . .	0830	..	..	..	..	8·6	6·5	4·1	8·4	75	..	2·4	..	0·5	0	0	5	1	0	1	1	1	1	0	0	26	0
	1130	..	..	..	..	13·4	9·3	5·3	9·1	60	..	2·7	..	3·0	0	0	23	7	1	0	0	4	4	3	4	8	0
	1730	..	..	..	..	10·4	7·3	3·9	8·3	65	..	2·8	..	4·9	0	0	24	1	0	1	1	19	2	0	0	7	0
Okhaldhunga .	0830	..	..	..	..	9·9	6·6	3·1	7·9	64	..	2·2	..	0·7	0	0	7	0	0	1	3	0	1	1	1	24	0
	1130	..	..	..	..	13·5	8·5	3·3	8·0	52	..	2·5	..	1·1	0	0	9	0	0	1	0	1	1	5	1	22	0
	1730	..	..	..	..	9·5	7·2	4·8	8·7	74	..	3·1	..	1·7	0	0	14	1	0	0	0	0	1	9	3	17	0
Chainpur . .	0830	..	..	..	..	12·4	10·0	7·8	10·6	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·1	11 3	9·7	12·1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung . (R)	0830																										
(R)	1730																										
Barahakshetra .	0830	146	1018·0	1001·2	..	14·3	12·4	10·7	13·0	79	..	1·1	..	3·8	0	0	22	0	8	3	1	1	5	1	3	9	0
	1130	,,	1015·9	999·0	..	21·2	16·3	12·4	14·7	58	..	2·1	..	3·3	0	0	20	0	0	0	0	2	12	3	3	11	0
	1730	,,	1014·3	997·1	..	17·1	15·0	13·4	15·7	79	..	2·0	..	1·6	0	0	14	0	1	10	3	0	0	0	0	17	0
Tista Catchment Gangtok .	0830	1812	1527·1	821·8	..	8·0	6·3	4·3	8·6	79	..	3·0	..	0·8	0	0	10	0	7	0	1	1	0	0	1	21	0
	1130	,,	1512·9	820·8	..	13·2	9·3	5·4	9·2	68	..	2·9		2·5	0	0	24	0	1	0	0	10	8	4	1	7	0
	1730	,,	1501·1	819·3	..	10·3	7·9	5·5	9·2	73	..	5·1	..	0·6	0	0	8	0	0	1	3	2	2	0	0	23	0
Gezing . .	0830	,,	..	..	..	11·8	8·9	6·3	9·8	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	11·4	9·3	·3	10·4	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

× Date included under Nepal. (a) Mean of 30 days. **Observatory changed to class V from 1-12-1964. (R) Register not received.

Sub-Division and Station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian Sea Islands																											
January																											
Amini	0530	4	1011·8	1011·3	..	25·1	22·5	21·1	25·2	79	..	0·9	..	7·6	0	0	23	9	3	0	0	0	0	1	5	8	5
	0830	,,	1013·9	1013·4	..	26·7	23·1	21·2	25·3	72	−1	1·7	−1·2	6·2	0	0	29	12	5	1	0	0	0	0	3	2	6
	1130	,,	1014·3	1013·9	..	31·1	24·5	21·3	25·3	56	..	2·3	..	8·1	0	0	31	14	6	1	0	0	0	0	4	0	6
	1730	,,	1011·0	1010·5	..	30·0	24·4	21·7	25·9	61	..	2·6	..	8·9	0	0	30	17	3	1	0	0	0	0	4	1	5
	2330	,,	1013·4	1012·9	..	26·0	23·1	21·6	25·9	77	..	1·1	..	8·0	0	0	26	10	5	0	0	0	0	0	8	5	3
Minicoy	0530	2	1011·4	1011·2	..	24·4	22·8	22·1	26·4	87	..	2·2	..	6·4	0	0	25	8	15	1	1	0	0	0	0	6	0
	0830	..	1013·5	1013·3	+0·6	26·8	24.1	22·8	27·9	79	+5	3·5	+0·6	6·6	0	0	26	9	13	3	0	0	0	0	1	5	0
	1130	..	1013·6	1013·4	..	29·4	25·1	23·1	28·3	69	..	3·7	..	11·0	0	0	30	7	17	5	0	0	0	0	1	1	0
	1730	..	1010·6	1010·4	..	28·5	24·8	23·0	28·1	72	..	3·3	..	8·9	0	0	29	7	20	2	0	0	0	0	0	2	0
	2330	..	1013·1	1012·9	..	25·4	23·3	22·3	26·7	83	..	2·0	..	9·0	0	0	29	9	15	3	1	0	0	0	1	2	0
February																											
Amini	0530	4	1010·0	1009·5	..	25·5	23·4	22·4	26·9	83	..	1·5	..	5·9	0	0	22	5	1	0	0	0	0	3	9	7	4
	0830	..	1012·2	1011·7	..	26·6	23·9	22·6	27·6	79	+6	2·8	+0·1	4·4	0	0	25	8	1	1	0	0	0	0	4	4	11
	1130	..	1012·8	1012·3	..	31·0	25·2	22·5	27·3	60	..	2·9	..	8·1	0	0	28	15	6	0	0	0	0	0	4	1	3
	1730	..	1009·2	1008·8	..	30·4	24·9	22·3	26·9	62	..	2·2	..	6·9	0	0	28	6	2	0	0	0	0	0	11	1	9
	2330	..	1011·6	1011·1	..	26·2	23·8	22·6	27·6	81	..	0·6	..	7·5	0	1	22	3	0	0	0	0	0	10	9	6	1
Minicoy	0530	2	1009·7	1009·5	..	24·3	23·1	22·5	27·3	90	..	2·3	..	5·0	0	0	22	9	10	2	0	0	0	1	0	7	0
	0830	..	1011·8	1011·6	−1·1	26·8	24·4	23·2	28·6	81	+7	3·4	+0·6	5·1	0	0	21	9	10	1	1	0	0	0	0	8	0
	1130	..	1012·2	1012·0	..	29·5	25·2	23·2	28·6	69	..	3·9	..	11·9	0	1	27	10	11	4	1	0	0	0	2	1	0
	1730	..	1009·0	1008·8	..	28·8	25·2	23·5	29·1	73	..	4·0	..	9·2	0	0	28	13	8	4	1	0	0	0	2	1	0
	2330	..	1011·6	1011·4	..	25·6	23·7	22·8	27·6	85	..	1·9	..	6·1	0	0	21	8	10	3	0	0	0	0	0	8	0
March																											
Amini	0530	4	1010·2	1009·8	..	26·5	24·3	23·3	28·6	83	..	1·9	..	3·7	0	0	13	5	1	0	0	0	0	2	5	18	0
	0830	..	1012·5	1012·0	..	28·3	25·1	23·6	29·3	75	+2	2·5	0	2·7	0	0	14	4	2	0	0	0	0	1	5	17	2
	1130	..	1012·7	1012·3	..	31·4	25·8	23·3	28·6	62	..	2·2	..	5·4	0	0	28	6	1	3	0	0	0	2	12	3	4
	1730	..	1009·1	1008·7	..	30·6	25·7	23·6	28·9	66	..	2·2	..	6·1	0	0	29	5	0	0	0	0	1	5	15	2	3
	2330	..	1011·6	1011·1	..	27·7	25·1	23·9	29·7	80	..	1·5	..	7·9	0	0	26	1	0	0	0	0	1	10	14	5	0
Minicoy	0530	2	1010·2	1010·0	..	25·5	24·0	23·2	28·6	87	..	3·0	..	3·7	0	0	20	9	5	1	2	0	0	2	1	11	0
	0830	..	1012·2	1012·0	+0·2	28·2	25·2	23·9	29.7	78	+6	3·3	+0·5	5·3	0	0	26	12	4	1	3	0	0	2	3	5	1
	1130	..	1012·6	1012·4	..	30·1	25·9	24·1	30·0	70	..	3·6	..	9·5	0	2	27	11	4	4	2	1	0	0	7	2	0
	1730	..	1009·2	1009·0	..	29·5	25·6	23·9	29·7	72	..	3·9	..	7·2	0	0	29	13	7	3	3	0	0	2	1	2	0
	2330	..	1011·8	1011·6	..	26·6	24·5	23·6	28·9	84	..	1·8	..	5·2	0	0	21	5	4	1	3	0	0	2	6	10	0
April																											
Amini	0530	4	1007·7	1007·3	..	27·9	25·7	24·8	31·1	83	..	3·1	..	5·6	0	1	20	2	1	0	0	0	1	7	10	9	0
	0830	..	1009·7	1009·3	..	29·6	26·4	25·0	31·9	76	+5	3·5	+0·1	4·3	0	0	25	1	0	1	0	0	0	7	14	5	2
	1130	..	1010·1	1009·7	..	31·9	27·2	25·2	32·2	68	..	3·0	..	5·3	0	0	27	1	0	0	0	1	2	6	16	3	1
	1730	..	1006·6	1006·2	..	31·1	27·1	25·5	32·6	72	..	3·5	..	9·4	0	1	27	1	0	0	0	0	1	10	16	2	0
	2330	..	1008·9	1008·5	..	29·0	26·5	25·4	32·6	81	..	2·2	..	9·8	0	2	25	1	0	0	0	0	1	6	19	3	0
Minicoy	0530	2	1007·8	1007·6	..	26·6	24·7	23·9	29·7	85	..	3·4	..	3·4	0	0	13	3	3	0	0	0	0	1	6	17	0
	0830	..	1009·7	1009·5	−0·9	29·3	25·9	24·4	30·5	75	+3	3·5	+0·1	5·1	0	0	22	5	1	3	1	0	1	4	7	8	0
	1130	..	1010·1	1009·9	..	30·9	26·5	24·6	30·6	70	..	3·9	..	7·0	0	0	28	9	2	2	3	0	0	4	8	2	0
	1430	..	1007·8	1007·6	..	30·9	26·4	24·5	30·7	69	..	4·4	..	8·7	0	0	28	9	1	2	2	1	1	4	8	2	0
	1730	..	1006·9	1006·7	..	30·4	26·3	24·5	30·7	71	..	4·1	..	5·7	0	0	21	7	1	2	0	0	0	6	5	9	0
	2030	..	1008·5	1008·3	..	28·2	25·5	24·3	30·7	80	..	1·5	..	5·6	0	0	19	5	2	0	0	0	0	5	7	11	0
	2330	..	1009·3	1009·1	..	27·6	25·2	24·2	30·4	82	..	2·1	..	5·7	0	0	18	4	2	1	0	0	0	5	6	12	0
May																											
Amini	0530	4	1007·8	1007·4	..	28·5	25·7	24·6	30·7	80	..	3·5	..	8·6	0	3	18	0	0	0	0	0	0	6	14	10	1
	0830	..	1009·6	1009·2	..	30·0	26·5	24·9	31·9	74	+1	3·5	−1·1	8·8	0	1	23	0	0	0	0	0	0	4	20	7	0
	1130	..	1009·9	1009·5	..	32·2	27·1	24·9	31·5	66	..	3·4	..	10·3	0	2	28	1	0	0	0	0	0	5	24	1	0
	1730	..	1007·1	1006·7	..	31.6	26·9	25·0	31·5	68	..	3·8	..	10·7	0	2	29	1	0	0	0	0	0	6	23	0	1
	2330	..	1009·4	1008·9	..	29·2	26·1	24·9	31·1	78	..	1·8	..	9·9	0	4	17	0	0	0	0	0	0	7	14	10	0
Minicoy.	0530	2	1008·1	1007·9	..	27·6	25·2	24·2	30·0	82	..	5·2	..	10·2	0	6	18	3	1	0	0	0	4	10	6	7	0
	0830	..	1009·8	1009·6	−0·2	29·5	26·2	24·9	31·3	76	0	5·7	+1·4	6·3	0	0	21	1	0	0	0	0	3	10	7	10	0
	1130	..	1010·2	1010·0	..	30·9	26·8	25·1	31·9	71	..	5·5	..	9·0	0	2	28	1	0	0	1	1	5	13	9	1	0
	1430	..	1008·0	1007·8	..	30·9	26·7	25·0	31·5	71	..	5·9	..	9·3	0	1	26	4	0	0	0	1	1	13	8	4	0
	1730	..	1007·6	1007·4	..	30·4	26·5	24·9	31·3	73	..	5·9	..	9·1	0	1	26	0	0	0	0	1	3	15	8	4	0
	2030	..	1009·0	1008·8	..	28·8	25·9	24·3	30·7	78	..	3·3	..	7·5	0	1	24	0	0	0	0	0	2	17	5	6	1
	2330	..	1009·8	1009·6	..	28·3	25·7	24·6	30·9	80	..	3·6	..	9·6	0	3	21	0	0	0	0	0	2	12	10	7	0

Sub-Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian sea Island—(*Contd.*)																											
June—(*contd.*)																											
Amini	0530	4	1006·2	1005·8	..	27·9	26·0	25·1	32·1	85	..	7·0	..	18·5	0	14	14	1	0	0	0	0	11	11	5	2	0
	0830	..	1008·0	1007·6	..	28·2	26·4	25·6	33·0	86	+4	7·2	+0·9	16·5	0	11	17	1	0	0	0	0	10	13	3	2	1
	1130	..	1008·3	1007·9	..	28·7	26·5	25·6	32·8	84	..	7·0	..	15·5	0	11	16	1	0	0	0	0	9	12	5	3	0
	1730	..	1006·1	1005·7	..	28·2	26·1	25·3	32·2	85	..	7·3	..	18·3	0	14	15	1	0	0	0	0	9	13	6	1	0
	2330	..	1008·2	1007·8	..	27·9	26·0	25·2	32·1	85	..	5·6	..	17·9	0	10	20	1	0	0	0	0	11	13	5	0	0
Minicoy	0530	2	1007·4	1007·2	..	27·2	24·7	23·6	29·1	81	..	7·0	..	12·1	0	6	20	1	0	0	0	0	1	21	3	4	0
	0830	..	1009·1	1008·9	−0·5	27·5	25·2	24·0	30·0	80	−1	7·2	+1·6	12·3	0	6	23	0	0	0	0	0	4	19	6	1	0
	1130	..	1009·2	1009·0	..	29·1	25·8	24·3	30·4	76	..	6·9	..	12·9	0	3	27	0	0	0	0	0	2	26	2	0	0
	1430	..	1007·7	1007·5	..	29·0	25·8	24·5	30·5	77	..	7·1	..	15·7	0	9	21	0	0	0	0	0	3	23	4	0	0
	1730	,,	1007·0	1006·8	..	28·3	25·4	24·1	30·0	78	..	7·2	..	16·5	0	3	27	1	0	0	0	0	0	22	7	0	0
	2030	,,	1008·6	1008·4	..	27·6	25·1	24·0	29·7	81	..	5·7	..	13·8	0	7	20	1	0	0	0	0	0	22	4	3	0
	2330	,,	1009·4	1009·2	..	27·2	24·9	23·8	29·7	82	..	6·7	..	17·0	0	10	19	0	0	0	0	0	4	21	4	1	0
July																											
Amini	0530	4	1006·5	1006·1	..	26·8	25·3	24·6	31·6	88	..	7·1	..	20·3	0	14	17	0	0	0	0	0	7	20	4	0	0
	0830	,,	1008·2	1007·8	..	26·9	25·3	24·7	31·1	88	+5	7·5	+1·3	17·6	0	12	19	0	0	0	0	0	6	17	8	0	0
	1130	,,	1008·6	1008·2	..	27·7	25·6	24·6	31·0	84	..	7·2	..	16·6	0	9	22	0	0	0	0	0	7	17	7	0	0
	1730	,,	1006·3	1005·9	..	27·6	25·7	24·9	31·5	85	..	7·4	..	19·4	0	14	17	0	0	0	0	0	4	20	7	0	0
	2330	,,	1008·4	1008·0	..	27·1	25·4	24·7	31·1	87	..	6·1	..	20·1	0	14	17	0	0	0	0	0	5	22	4	0	0
Minicoy	0530	2	1007·7	1007·5	..	26·3	24·3	23·4	28·8	84	..	7·2	..	16·9	0	8	23	0	0	0	0	0	1	24	6	0	0
	0830	,,	1009·1	1008·9	−1·0	26·8	24·6	23·6	29·1	83	+4	7·6	+2·3	17·0	0	13	18	0	0	0	0	0	0	25	6	0	0
	1130	,,	1009·5	1009·3	..	27·1	25·0	23·8	29·3	79	..	7·5	..	15·7	0	8	22	0	0	0	0	0	0	24	6	1	0
	1430	,,	1008·1	1007·9	..	27·5	24·9	23·8	29·3	80	..	7·6	..	18·6	0	13	17	0	0	0	0	0	0	23	7	1	0
	1730	,,	1007·3	1007·1	..	27·5	24·9	23·7	29·3	80	..	7·6	..	19·0	0	14	17	0	0	0	0	0	0	23	8	0	0
	2030	,,	1008·8	1008·6	..	27·0	24·7	23·7	29·3	82	..	7·0	..	18·5	0	15	16	1	0	0	0	0	0	27	3	0	0
	2330	,,	1009·6	1009·4	..	26·8	24·5	23·4	28·9	82	..	7·5	..	21·2	0	15	16	0	0	0	0	0	0	24	7	0	0
August																											
Amini	0530	4	1007·6	1007·1	..	27·0	25·0	24·5	29·9	84	..	5·2	..	15·4	0	10	19	0	0	0	0	0	10	17	2	2	0
	0830	,,	1009·3	1008·9	..	27·5	25·3	24·3	30·3	83	0	6·2	+0·5	12·8	0	7	22	0	0	0	0	0	10	15	3	2	1
	1130	,,	1009·6	1009·2	..	28·8	25·7	24·3	30·4	77	..	6·0	..	12·6	0	5	26	0	0	0	0	0	9	18	4	0	0
	1730	,,	1007·2	1006·8	..	28·3	25·6	24·4	30·5	79	..	6·3	..	13·4	0	6	24	0	0	0	0	0	9	18	3	1	0
	2330	..	1009·5	1009·0	..	27·2	25·2	24·3	30·3	84	..	4·5	..	15·4	0	8	23	0	0	0	0	0	10	18	3	0	0
Minicoy	0530	2	1008·6	1008·4	..	25·9	24·2	23·4	28·9	86	..	6·0	..	11·7	0	7	17	0	0	0	0	0	1	22	1	7	0
	0830	,,	1010·2	1010·0	—0·7	27·2	24·8	23·7	29·3	81	+2	6·5	+1·8	13·1	0	9	18	1	0	0	0	0	2	20	4	4	0
	1130	,,	1010·4	1010·2	..	28·6	25·4	24·0	29·8	76	..	6·4	..	13·4	0	8	21	1	0	0	0	0	1	20	7	2	0
	1430	,,	1008·5	1008·3	..	28·9	25·5	24·0	29·8	75	..	6·6	..	13·7	0	7	23	0	0	0	0	0	2	23	5	1	0
	1730	,,	1007·9	1007·7	..	28·2	25·0	23·6	29·1	76	..	6·2	..	12·7	0	9	18	1	0	0	0	0	2	20	4	4	0
	2030	,,	1009·6	1009·4	..	26·8	24·4	23·3	28·6	81	..	5·2	..	12·1	0	7	19	0	0	0	0	0	1	18	7	5	0
	2330	,,	1010·5	1010·3	..	26·5	24·5	23·5	29·1	84	..	5·5	..	14·1	0	12	14	0	0	0	0	0	4	16	6	5	0
September																											
Amini	0530	4	1007·7	1007·3	..	26·2	24·4	23·6	29·1	86	..	5·5	..	16·1	0	12	13	0	0	0	0	0	1	16	8	5	0
	0830	,,	1009·6	1009·2	..	26·7	24·7	23·7	29·4	84	+	6·3	+1·3	13·5	0	11	15	0	0	0	0	0	2	14	10	4	0
	1130	,,	1009·9	1009·5	..	28·0	25·2	23·9	29·8	79	..	6·4	..	13·4	0	8	18	1	0	0	0	0	2	11	12	4	0
	1730	,,	1007·2	1006·8	..	27·3	24·9	23·8	29·5	81	..	6·7	..	14·8	0	9	19	1	0	0	0	0	2	15	10	2	0
	2330	,,	1009·5	1009·1	..	26·5	24·6	23·7	29·4	85	..	5·0	..	15·5	0	12	15	0	0	0	0	0	1	17	9	3	0
Minicoy	0530	2	1008·5	1008·3	..	25·9	23·9	22·9	28·1	83	..	6·6	..	13·3	0	5	24	0	0	0	0	0	0	20	9	1	0
	0830	,,	1010·5	1010·3	−0·8	26·7	24·3	23·1	28·4	81	+2	6·9	+2·7	12·9	0	3	26	0	0	0	0	0	0	20	9	1	0
	1130	,,	1010·7	1010·5	..	27·9	24·9	23·6	28·9	78	..	6·7	..	14·7	0	4	26	0	0	0	0	0	0	22	8	0	0
	1430	,,	1008·4	1008·2	..	28·0	24·8	23·4	28·6	77	..	6·8	..	15·7	0	8	21	0	0	0	0	0	0	21	8	1	0
	1730	,,	1008·2	1008·0	..	26·7	24·2	23·0	28·1	80	..	6·8	..	16·8	0	10	20	0	0	0	0	0	0	19	11	0	0
	2030	,,	1009·8	1009·6	..	26·4	24·0	22·9	27·9	82	..	6·0	..	16·4	0	11	18	0	0	0	0	0	0	24	5	1	0
	2330	,,	1010·4	1010·2	..	26·3	24·0	23·0	28·1	82	..	6·5	..	16·5	0	9	21	0	0	0	0	0	0	19	11	0	0
October																											
Amini	0530	4	1009·0	1008·6	..	26·4	24·1	23·0	28·2	82	..	3·7	..	10·6	0	7	20	0	0	0	0	0	0	11	16	4	0
	0830	,,	1011·3	1010·8	..	27·2	24·8	23·7	29·4	81	+2	5·4	+0·5	8·7	0	3	24	2	0	0	0	0	0	6	19	4	0
	1130	,,	1011·3	1010·8	..	28·8	25·3	23·8	29·5	74	..	5·6	..	8·0	0	3	26	2	1	0	0	0	1	10	14	2	1
	1730	7	1008·5	1008·1	..	27·8	25·0	23·7	29·3	79	..	5·4	..	9·5	0	2	28	1	0	0	0	0	0	12	17	1	0
	2330	,,	1010·8	1010·3	..	26·8	24·6	23.6	29·1	82	..	3·5	..	10·6	0	4	25	1	0	0	0	0	0	16	12	2	0

Sub-Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Minicoy . .	0530	2	1009·7	1009·5	..	25·7	23·7	22·7	27·2	84	..	5·8	..	8·1	0	1	22	0	0	0	0	0	0	13	10	8	0
	0830	,,	1011·8	1011·6	+0·2	26·8	24·2	23·0	28·2	80	+3	5·9	+1·7	8·6	0	1	25	1	0	0	0	0	0	13	12	5	0
	1130	,,	1011·7	1011·5	..	27·9	24·6	23·1	28·3	75	..	6·3	..	11·3	0	1	30	2	0	0	0	0	0	15	14	0	0
	1430	,,	1009·2	1009·0	..	28·0	24·7	23·3	28·3	76	..	6·6	..	12·1	0	4	25	1	0	0	0	0	1	15	12	2	0
	1730	,,	1009·1	1008·9	..	27·3	24·3	23·0	28·1	77	..	6.3	..	11·5	0	2	26	0	0	0	0	0	0	12	16	3	0
	2030	,,	1010·9	1010·7	..	26·3	23·9	22·8	27·5	81	..	5·1	..	10·1	0	2	24	1	0	0	0	0	0	13	12	5	0
	2330	,,	1011·3	1011·1	..	26·1	23·9	27·9	27·9	82	..	5·4	..	11·9	0	4	22	0	0	0	0	0	1	11	14	5	0
November Amini . . .	0530	4	1009·9	1009·4	..	25·1	23·1	22·2	25·8	84	..	2·9	..	4·5	0	2	16	3	0	1	1	0	2	4	7	12	0
	0830	,,	1012·0	1011·5	..	26·8	24·1	22·8	27·9	79	+4	3·7	—0·2	4·5	0	1	20	2	0	0	2	1	2	5	9	9	1
	1130	,,	1012·1	1011·5	..	29·9	24·8	22·4	27·3	65	..	3·8	..	5·9	0	1	26	5	1	0	1	3	1	5	10	3	1
	1730	,,	1009·6	1009·2	..	29·1	24·4	22·4	26·6	71	..	4·1	..	4·7	0	2	19	4	0	1	1	0	2	2	9	9	2
	2330	,,	1011.4	1011·0	..	25·8	23·6	22·4	27·3	82	..	2·7	..	4.4	0	1	18	0	0	2	1	2	1	7	5	11	1
Minicoy . .	0530	2	1010.4	1010.2	..	24·7	22·8	21·8	26·3	84	..	3·6	..	6·1	0	0	17	0	1	0	0	1	2	9	3	13	0
	0830	,,	1012.3	1012·1	+0.5	26·9	23.8	22·2	26.9	76	—2	3·6	—0·4	6·3	0	1	19	0	0	0	0	1	0	9	6	10	0
	1130	,,	1012·2	1012·0	..	28·6	24·3	22·3	26·9	69	..	3·3	..	9·4	0	2	26	0	0	1	0	0	1	11	10	2	0
	1430	,,	1009.9	1009.7	..	28.8	24·5	22·4	27.3	65	..	3·7	..	7.8	0	0	24	0	0	1	0	0	1	8	11	6	0
	1730	,,	1009.9	1009·7	..	27·6	24·0	22·3	26·9	73	..	3·7	..	5·9	0	0	20	0	0	0	0	0	0	9	8	10	0
	2030	,,	1011·7	1011.5	..	25·9	23·3	21·9	26.4	89	..	2·9	..	6·9	0	0	23	5	0	0	0	0	2	13	3	7	0
	2330	,,	1010·9	1011·7	..	25·1	23·0	21·9	26·3	83	..	3·5	..	6·4	0	1	19	2	0	0	0	0	2	9	7	10	0
December Amini . . .	0530	4	1011.0	1010.5	..	23·5	21·9	21.1	25.0	87	..	1·8	..	1·7	0	1	10	3	4	1	1	0	0	0	1	20	1
	0830	,,	1013·3	1012.8	..	25·8	23·1	21.8	25·9	79	+10	2·5	— 0.5	2.4	0	1	16	7	4	2	1	1	0	0	0	14	2
	1130	,,	1013.2	1012.7	..	30·2	24·3	21·3	25·6	59	..	3.1	..	4·5	0	0	29	7	11	4	2	0	0	0	1	2	4
	1730	,,	1010.3	1009·9	..	28·7	23·8	21.4	25·3	65	..	3·1	..	1·7	0	0	16	7	4	0	2	0	0	0	2	15	1
	2330	,,	1012.4	1011 9	..	24·5	22·4	21·3	25·3	83	..	1·9	..	0·3	0	0	2	0	0	0	0	0	0	0	1	29	1
Minicoy . .	0530	2	1011.0	1010.8	..	23·1	21·7	21·0	24·9	88	..	3.3	..	1·9	0	0	9	0	3	2	0	0	2	0	2	22	0
	0830	,,	1013.0	1012·8	+0.6	26·1	23.5	22·2	26·8	79	+5	3·5	+0·2	2·3	0	0	11	4	3	1	0	1	1	0	1	20	0
	1130	,,	1012.9	1012·7	..	29·2	24·3	21·8	26·3	65	..	4·4	..	8·0	0	0	30	3	7	14	2	0	1	2	1	1	0
	1430	,,	1010.1	1009·9	..	29 1	24·2	21·9	26·3	65	..	4·5	..	8.2	0	0	31	7	7	11	2	0	0	1	3	0	0
	1730	,,	1010.1	1009·9	..	27·9	23.9	21·9	23·2	70	..	5.0	..	5·7	0	0	22	5	8	4	3	0	0	0	2	9	0
	2030	,,	1012·1	1011.9	..	25.5	22.8	21·5	25.6	79	..	2·9	..	4.3	0	0	18	4	7	3	2	0	0	1	1	13	0
	2330	,,	1012.3	1012.1	..	24·7	22.6	21.6	25.6	83	..	2·8	..	4·2	0	0	18	1	8	7	1	0	0	0	1	13	0

TABLE III (A)
EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1964 (1885-1886 Saka)

In tables III (A)—

X=Highest Maximum Temperature.

N=Lowest Minimum Temperature.

R=Heaviest Rainfall in 24 hours endings at 0830 hrs. I.S.T.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURE (°C) AND

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bay-Islands																		
Maya Bandar	33·9 1953	16·8 1957	63·2 1961	32·2 1964	16·7 1961	42·8 1962	34·0 1962	18·9 1955	9·4 1953	36·1 1955	18·9 1953	67·8 1953	35·0 1952	17·2 1952	40·20 1961	36·1 1952	21·1 1963	213·4 1955
Long Island	31·7 1958	18·2 1964	62·5 1962	33·3 1959	15·6 1953	156·0 1960	35·6 1959	19·4 1962	50·0 1959	36·1 1953	20·6 1963	100·3 1953	36·1 1963	21·1 1955	186·2 1955	33·3 1961	20·4 1963	209·8 1955
Port Blair	32·7 1958	16·7 1940	208·3 1922	33·4 1964	17·2 1949	131·1 1902	35·1 1958	17·8 1949	67·1 1881	36·1 1889	20·6 1939	206·8 1922	36·1 1889	17·1 1961	264·9 1891	35·6 1933	18·9 1961	258·3 1908
Car Nicobar	31·5 1958	16·1 1956	104·1 1954	35·0 1954	16·1 1956	82·5 1956	33·2 1958	16·8 1957	53·3 1953	34·1 1958	19·4 1960	99·6 1956	34·0 1963	21·1 1952	243·8 1964	32·2 1962	21·6 1964	146·6 1963
Nancowry	33·9 1954	21·7 1956	15·33 1964	34·4 1964	20·0 1956	91·2 1956	35·0 1954	21·1 1956	51·4 1961	36·7 1952	20·6 1952	82·7 1961	36·1 1952	18·9 1952	154·0 1960	32·3 1962	21·1 1956	257·6 1963
Kondul	30·0 1953	20·6 1956	168·7 1953	30·6 1961	19·4 1953	126·1 1963	31·7 1958	20·2 1960	84·4 1962	33·2 1960	20·7 1960	109·0 1963	35·0 1957	21·7 1956	142·6 1963	31·6 1957	21·7 1955	201·2 1954
Assam (Including Manipur, Tripura)																		
Pasighat	26·6 1961	7·1 1959	41·2 1959	31·0 1960	7·5 1959	137·6 196[illegible]	33·2 1958	10·6 1962	99·2 1961	35·4 1959	15·3 1962	85·8 1964	37·4 1961	13·9 1961	125·2 1958	37·9 1963	20·1 1964	170·6 1962
Dibrugarh (Mohanbari)	27·0 1961	3·7 1962	24·6 1956	30·0 1952	4·8 1960	55·9 1954	33·4 1960	8·3 1957	55·1 1955	34·8 1958	12·8 1964	102·6 1961	36·8 1964	14·1 1964	102·1 1959	37·0 1961	16·8 1963	112·8 1951
Digboi	26·6 1959	5·6 1956	52·3 1956	29·4 1956	7·4 1959	34·0 1963	32·8 1958	10·0 1957	40·1 1956	35·6 1959	13·8 1957	66·0 1957	36·1 1956	17·4 1957	57·2 1959	37·2 1956	20·6 1957	95·8 1957
North Lakhimpur	26·7 1955	2·8 1956	32·0 1962	30·2 1960	5·4 1964	22·4 1960	32·9 1958	8·1 1957	74·2 1955	35·1 1962	14·3 1959	99·6 1954	36·7 1961	16·2 1961	178·3 1958	36·7 1961	20·7 1964	168·0 1964
Sibsagar	28·9 1942	3·3 1917	43·7 1945	30·6 1942	2·8 1905	42·9 1892	35·6 1945	7·2 1917	113·0 1892	37·2 1960	12·8 1912	148·6 1913	42·8 1945	16·7 1893	188·2 1931	37·8 1881	19·4 1907	189·2 1903
Gohpur	26·6 1961	3·8 1963	14·0 1958	29·9 1963	4·9 1963	21·5 1958	33·2 1962	7·7 1962	34·2 1959	36·6 1962	11·6 1963	63·5 1962	37·0 1964	16·1 1962	95·5 1959	36·6 1961	19·4 1962	59·2 1962
Majbat	26·9 1963	5·1 1964	30·2 1962	31·3 1963	5·9 1964	22·1 1962	33·5 1963	12·2 1963	53·0 1961	35·1 1963	16·5 1963	95·3 1962	36·2 1964	16·6 1964	110·6 1964	35·4 1963	22·0 1963	23·50 1962
Jorhat (Aerodrome)	26·7 1955	5·2 1962	34·0 1954	31·1 1954	6·8 1961	18·3 1959	34·1 1960	8·9 1957	48·3 1954	37·5 1960	15·0 1960	58·2 1962	37·8 1960	16·1 1955	119·9 1957	37·3 1961	20·6 1955	146·6 1999
Tangla	31·7 1963	4·3 1964	31·0 1957	32·3 1963	5·3 1964	29·3 1957	34·5 1958	10·6 1962	48·3 1955	37·9 1960	13·9 1960	109·0 1959	38·9 1960	15·7 1962	89·3 1964	39·5 1961	21·0 1963	125·4 1959
Tezpur	27·8 1961	5·6 1945	29·5 1907	31·7 1964	6·1 1905	38·6 1940	36·7 1923	10·0 1927	62·0 1912	38·3 1960	13·3 1905	100·1 1946	38·9 1960	17·2 1963	148·1 1904	36·7 1953	19·4 1907	176·3 1963
Golaghat	28·3 1961	6·0 1962	20·8 1962	30·6 1963	1·1 1958	22·0 1959	35·6 1954	6·6 1958	37·6 1956	38·9 1960	15·6 1960	53·3 1958	38·9 1960	11·1 1958	134·6 1957	36·7 1961	19·9 1957	79·8 1961
Rangia	28·2 1960	5·3 1964	25·3 1963	32·3 1963	7·6 1964	35·6 1958	35·9 1962	10·5 1963	38·0 1963	38·4 1960	12·2 1960	40·6 1958	39·5 1960	16·9 1963	99·9 1963	37·3 1963	20·6 1960	175·6 1959
Chaparmukh	28·4 1958	7·3 1960	17·2 1962	33·3 1960	7·9 1963	15·1 1959	37·2 1958	12·0 1959	49·4 1961	41·1 1960	15·5 1961	54·2 1963	41·2 1960	18·8 1963	138·2 1961	37·8 1963	21·1 1963	123·3 1960
Goalpara	29·0 1959	3·3 1964	72·4 1957	32·4 1960	5·2 1961	31·7 1958	37·6 1958	10·2 1957	40·0 1963	39·9 1958	14·6 1957	108·8 1961	41·4 1960	16·7 1955	141·7 1954	37·0 1961	16·1 1955	162·4 1962
Gauhati	28·9 1955	5·0 1925	41·1 1945	35·0 1951	5·0 1920	53·3 1914	38·3 1909	6·1 1906	56·1 1915	40·6 1960	12·8 1907	75·5 1955	41·1 1960	16·1 1955	185·4 1941	36·7 1963	18·9 1955	194·3 1956
Gauhati (Bhorjor)	28·4 1958	5·1 1960	39·1 1957	32·2 1964	5·8 1964	16·5 1957	37·2 1954	10·2 1962	49·8 1955	39·5 1960	14·4 1951	100·3 1955	40·3 1960	17·2 1955	96·8 1958	36·1 1953	21·1 1955	173·7 1953
Dhubri (Rupsi)	28·1 1961	2·4 1964	55·4 1957	31·7 1963	4·6 1961	24·9 1958	38·2 1960	10·7 1962	46·4 1961	41·0 1960	14·8 1960	138·0 1959	41·2 1960	16·7 1964	85·0 1952	35·2 1960	20·4 1960	164·2 1964
Dhubri	29·4 1953	6·1 1905	54·1 1945	32·2 1901	2·8 1905	59·9 1904	38·3 1909	7·4 1961	107·9 1885	41·1 1939	12·2 1905	197·6 1948	41·4 1960	15·9 1957	226·3 1944	36·9 1960	13·9 1953	368·3 1909
Lumding	29·1 1964	2·1 1964	27·7 1957	33·9 1952	3·9 1964	34·5 1957	38·3 1958	8·4 1957	47·0 1959	41·9 1960	10·6 1951	34·8 1956	41·9 1960	17·2 1955	129·0 1961	39·3 1962	20·0 1953	135·6 1957
Tura	27·9 1961	4·4 1964	24·5 1959	31·7 1956	5·0 1950	32·3 1954	37·2 1958	11·7 1963	88·2 1959	38·5 1960	13·0 1963	168·1 1963	39·4 1960	13·8 1962	193·3 1952	34·2 1961	16·3 1964	207·8 1963
Hablong	24·6 1961	7·1 1959	48·0 1957	28·5 1960	5·4 1959	65·8 1954	33·3 1958	10·6 1959	192·3 1961	32·8 1963	12·6 1958	164·1 1955	35·6 1956	14·9 1958	248·2 1958	32·7 1963	17·6 1960	242·8 1960
Silchar (Kum Bhirgram)	29·6 1959	7·2 1962	20·8 1958	31·6 1963	8·5 1961	48·0 1959	38·0 1960	12·2 1960	173·8 1961	38·4 1960	15·1 1962	127·8 1962	39·8 1960	17·9 1958	178·4 1961	37·2 1963	20·6 1964	277·7 1959
Silchar	30·6 1915	5·6 1899	100·1 1911	35·0 1912	5·0 1905	90·4 1927	37·8 1901	8·3 1927	245·4 1922	39·4 1937	13·9 1935	165·1 1934	38·9 1937	15·6 1886	290·3 1893	37·8 1900	19·4 1926	227·3 1913
Imphal (Tulihal)	23·9 1963	−1·8 1964	7·0 1962	27·4 1963	2·2 1964	15·8 1964	32·4 1964	6·0 1962	21·8 1963	33·9 1963	11·1 1963	29·7 1962	34·1 1962	13·9 1963	54·2 1963	34·4 1963	19·1 1962	105·2 1962
Kailashahar	29·9 1961	3·6 1962	14·0 1962	34·1 1960	4·3 1964	44·1 1962	37·7 1962	10·8 1960	76·4 1961	42·2 1960	15·2 1964	82·4 1964	42·0 1960	18·3 1964	72·7 1963	36·6 1961	19·8 1964	214·3 1960
Agartala	29·9 1961	3·9 1955	50·1 1957	34·4 1960	5·9 1961	45·0 1958	38·9 1962	10·0 1957	98·6 1960	41·5 1960	14·5 1962	141·2 1955	42·2 1960	16·1 1955	123·4 1956	63·3 1958	19·5 1961	228·6 1961
Sub-Himalayan West Bengal																		
Baghdogra	28·9 1954	2·9 1964	26·8 1959	31·7 1955	3·5 1964	12·0 1960	36·7 1954	8·7 1959	43·7 1956	41·7 1952	12·2 1962	86·1 1952	39·4 1957	15·1 1960	149·8 1962	36·7 1952	20·4 1960	209·8 1962
Jalpaiguri	28·9 1931	4·0 1964	37·6 1889	31·1 1931	2·2 1905	71·9 1914	37·3 1964	7·8 1906	68·6 1926	40·0 1932	10·6 1905	152·4 1945	39·4 1899	16·1 1910	161·0 1938	37·2 1927	17·0 1957	234·9 1903
Cooch Behar	28·8 1961	3·3 1964	34·0 1957	31·3 1960	4·9 1964	16·3 1954	37·3 1958	10·0 1958	38·1 1963	39·4 1954	13·9 1955	74·2 1958	39·9 1960	16·2 1960	137·8 1961	36·4 1961	19·4 1964	286·2 1958
Balurghat	29·8 1961	4·1 1964	3·9 1961	34·3 1964	6·3 1964	31·1 1961	38·0 1964	10·4 1963	25·4 1963	42·2 1961	13·3 1963	47·4 1963	42·8 1961	15·8 1963	62·8 1964	41·6 1954	20·4 1963	193·6 1961
Malda	29·4 1964	4·4 1937	69·1 1957	37·8 1964	3·9 1905	45·0 1942	41·7 1941	7·2 1898	53·9 1926	43·6 1960	11·1 1953	63·0 1892	45·0 1958	18·3 1963	195·1 1938	44·4 1958	20·0 1955	167·9 1945
Gangetic West Bengal																		
Berhampore	31·8 1964	3·9 1933	69·6 1957	36·7 1926	5·0 1950	60·7 1937	42·2 1941	8·9 1898	62·2 1887	45·0 1954	15·6 1936	54·6 1893	46·1 1916	16·7 1882	155·7 1915	44·4 1953	19·4 1884	202·4 1898
Suri	31·1 1955	6·6 1963	132·3 1957	35·7 1964	8·3 1956	41·8 1961	41·1 1955	12·7 1957	24·0 1961	44·7 1961	17·8 1955	44·4 1963	46·1 1958	17·9 1963	80·4 1959	45·4 1958	20·0 1955	73·7 1959

Heaviest Rainfall (Millimeters) in 24 Hours based on Data upto 1964 (1885-86 Saka)

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Bay Islands
32·8 1960	21·1 1954	160·4 1959	32·2 1953	20·6 1953	139·8 1964	31·7 1963	20·5 1958	145·2 1963	32·0 1963	20·0 1955	93·6 1961	35·0 1953	20·0 1962	109·0 1959	31·2 1963	19·3 1958	85·0 1959	1952	1952	Maya Bandar.
33·3 1953	20·4 1960	146·4 1962	36·7 1952	21·2 1962	147·3 1956	32·7 1957	21·4 1963	252·4 1961	32·2 1963	20·6 1964	122·2 1952	32·2 1953	20·4 1962	119·1 1958	32·2 1963	17·2 1953	108·2 1962	1952	1952	Long Island.
32·8 1941	18·3 1941	166·0 1964	31·7 1932	19·7 1962	173·2 1934	31·7 1888	19·3 1961	178·1 1904	35·6 1906	19·4 1912	153·2 1926	31·7 1962	19·4 1891	147·3 1901	32·2 1896	18·2 1964	295·7 1937	1881	1881	Port Blair.
31·7 1957	19·9 1961	129·3 1962	31·7 1954	21·1 1956	148·6 1959	33·3 1954	20·6 1952	167·6 1964	31·7 1953	20·6 1960	198·4 1955	31·8 1962	15·3 1964	122·2 1955	35·6 1955	16·7 1952	158·8 1957	1952	1952	Car Nicobar.
31·4 1962	21·7 1962	139·2 1952	32·8 1959	21·3 1959	115·3 1956	34·7 1964	21·1 1956	121·4 1964	33·9 1953	21·2 1964	157·8 1960	33·3 1960	21·1 1964	104·4 1961	34·4 1953	20·6 1954	87·3 1957	1952	1952	Nancowry.
33·1 1957	21·1 1954	86·9 1957	31·7 1957	21·1 1955	131·0 1958	31·1 1957	21·6 1961	113·0 1953	30·8 1957	22·1 1961	162·6 1952	30·6 1957	21·1 1955	135·6 1960	31·6 1961	21·6 1961	150·2 1962	1952	1952	Kondul.
																				Assam (Including Manipur, Tripura).
37·1 1962	20·2 1964	332·7 1959	37·0 1961	20·8 1964	320·8 1962	36·9 1961	19·6 1959	180·3 1958	34·6 1958	17·3 1962	132·6 1962	30·9 1961	11·1 1961	37·0 1961	27·4 1958	7·2 1961	23·0 1964	1958	1958	Pasighat.
37·2 1952	20·8 1964	125·8 1960	36·7 1953	19·5 1958	103·2 1962	36·1 1963	19·7 1964	140·5 1954	35·0 1955	14·2 1960	78·0 1953	31·7 1952	7·4 1961	31·8 1957	28·1 1960	2·7 1961	22·9 1951	1951	1951	Dibrugarh (Mohanbari)
38·3 1960	16·0 1961	118·4 1956	37·7 1960	21·5 1958	98·2 1960	36·6 1958	19·4 1959	77·2 1959	36·7 1962	15·0 1957	157·5 1956	32·2 1962	10·7 1959	20·0 1961	30·6 1962	6·3 1964	25·4 1957	1956	1956	Digboi.
37·1 1963	20·6 1954	199·9 1956	36·7 1957	21·7 1964	111·2 1958	36·4 1963	21·3 1964	155·2 1954	35·0 1955	10·6 1955	115·1 1956	31·7 1954	8·2 1960	45·7 1957	28·9 1954	3·1 1961	24·6 1964	1954	1954	North Lakhimpur.
38·9 1883	20·6 1909	218·9 1929	37·8 1931	18·3 1944	154·4 1929	36·9 1963	19·4 1890	182·4 1902	35·6 1938	15·0 1938	99·6 1925	32·2 1964	9·4 1928	53·9 1930	28·9 1958	4·4 1916	36·3 1936	1881	1871	Sibsagar.
36·6 1964	21·1 1962	68·6 1959	36·0 1959	21·6 1963	75·2 1963	36·3 1963	20·5 1959	80·2 1959	34·6 1964	13·3 1962	98·6 1962	31·6 1958	8·3 1962	47·2 1963	27·7 1960	3·3 1962	40·4 1958	1958	1958	Gohpur.
36·1 1964	23·0 1964	96·0 1960	35·5 1964	22·1 1964	115·4 1957	36·2 1963	22·7 1963	96·8 1960	35·2 1962	14·9 1962	70·6 1955	31·1 1964	10·0 1963	39·2 1958	27·9 1963	3·2 1964	27·9 1956	1962	1954	Majbat.
37·0 1964	21·7 1956	95·5 1959	37·2 1955	22·2 1956	129·3 1961	36·1 1955	21·4 1960	82·8 1958	35·6 1955	15·6 1957	76·0 1962	30·8 1964	9·4 1961	35·3 1963	28·9 1960	5·0 1954	83·8 1963	1951	1951	Jorhat (Aerodrome).
37·6 1964	20·9 1960	104·2 1963	36·6 1960	21·0 1962	106·4 1958	37·2 1962	20·3 1959	150·0 1963	35·1 1962	15·2 1962	69·8 1958	32·3 1964	9·2 1961	86·4 1956	29·5 1964	5·2 1961	20·6 1954	1958	1954	Tangla.
36·7 1962	21·2 1962	142·7 1947	37·2 1953	20·3 1962	166·6 1952	36·7 1961	20·6 1959	102·9 1917	36·1 1956	14·5 1962	140·7 1909	33·3 1952	10·6 1953	59·9 1901	28·9 1960	6·1 1913	19·3 1907	1901	1901	Tezpur.
37·6 1964	18·0 1957	118·0 1959	36·7 1960	17·2 1957	122·0 1961	36·7 1963	21·7 1960	96·0 1958	34·4 1956	17·0 1963	50·5 1955	31·7 1958	8·8 1957	36·3 1955	29·4 1960	6·3 1959	25·4 1957	1954	1954	Golaghat.
37·3 1962	21·9 1960	145·0 1962	37·2 1960	22·3 1958	100·8 1960	36·8 1964	19·9 1960	99·3 1960	35·1 1959	17·6 1962	54·0 1960	34·5 1959	11·1 1960	28·0 1963	29·5 1963	7·5 1964	16·0 1963	1958	1958	Rangia
43·9 1961	23·8 1963	216·1 1961	37·8 1959	23·8 1963	152·4 1961	37·3 1958	20·6 1959	150·8 1960	35·4 1958	18·3 1963	83·2 1961	33·3 1958	12·2 1962	38·8 1961	30·0 1962	8·3 1961	8·1 1958	1958	1958	Chaparmukh.
36·7 1962	21·1 1963	204·0 1960	40·5 1959	21·3 1960	112·6 1962	36·7 1963	18·3 1955	221·7 1958	36·1 1956	16·1 1954	94·2 1962	32·6 1958	10·8 1962	51·2 1963	31·1 1955	4·9 1964	19·6 1955	1954	1954	Goalpara.
37·2 1962	20·6 1955	232·9 1933	37·8 1933	21·1 1955	187·7 1938	37·2 1928	20·0 1955	133·9 1949	35·6 1955	14·7 1964	94·3 1959	32·2 1950	10·6 1926	47·6 1963	29·4 1962	5·0 1918	21·3 1957	1906	1906	Gauhati.
36·0 1962	21·9 1958	102·9 1951	36·1 1953	22·8 1955	129·2 1960	35·9 1957	21·2 1959	89·7 1953	34·4 1955	15·2 1957	60·2 1951	32·5 1957	10·6 1961	19·8 1956	30·9 1957	4·9 1961	16·5 1953	1951	1951	Gauhati (Bhorjor)
37·9 1959	21·3 1963	160·0 1957	36·1 1957	15·1 1957	195·8 1957	35·8 1963	21·3 1964	273·9 1960	34·9 1964	15·6 1957	220·0 1958	31·4 1958	9·4 1962	40·8 1963	28·2 1958	3·3 1964	3·0 1961	1957	1957	Dhubri (Rupsi).
37·8 1930	22·2 1951	285·7 1908	35·6 1942	21·7 1957	196·9 1924	35·0 1906	21·7 1960	363·6 1960	33·9 1956	17·2 1902	155·2 1919	31·1 1905	11·7 1903	82·5 1952	27·8 1944	7·8 1922	17·3 1894	1891	1881	Dhubri.
37·9 1962	17·8 1955	114·3 1956	38·3 1953	21·1 1956	118·9 1952	37·2 1951	20·0 1953	91·7 1954	35·6 1963	14·7 1957	107·9 1952	32·2 1951	9·4 1953	101·6 1955	29·5 1964	6·1 1955	21·1 1957	1951	1951	Lumding.
33·9 1951	18·3 1964	229·1 1951	35·6 1957	17·9 1963	284·7 1956	37·2 1958	17·4 1959	270·2 1960	33·2 1964	13·9 1963	164·3 1953	32·8 1952	9·1 1962	39·4 1952	30·6 1951	6·7 1961	5·3 1953	1951	1951	Tura.
32·7 1962	18·9 1956	119·9 1960	33·2 1957	19·1 1964	105·2 1962	32·2 1959	17·9 1959	85·3 1957	32·7 1960	13·2 1957	237·1 1959	27·9 1961	10·6 1961	234·2 1955	25·6 1958	7·0 1961	35·6 1954	1954	1954	Haflong.
37·2 1962	21·8 1961	104·4 1961	36·9 1958	22·4 1962	177·4 1961	37·4 1963	21·8 1963	126·2 1964	36·2 1958	16·3 1963	151·4 1963	32·6 1964	11·3 1961	30·0 1960	31·2 1960	8·5 1961	4·3 1958	1958	1958	Silchar (Kumbhrigram).
39·4 1896	21·1 1897	234·7 1915	38·3 1900	19·4 1906	154·9 1890	38·3 1887	18·9 1890	178·6 1939	36·7 1944	15·6 1914	186·2 1912	35·0 1900	10·6 1902	174·2 1955	31·7 1945	6·1 1913	100·8 1883	1881	1881	Silchar.
32·0 1962	18·1 1961	71·6 1962	31·9 1964	19·1 1964	87·3 1963	32·3 1963	18·3 1964	41·0 1963	31·4 1964	11·7 1961	92·6 1963	28·9 1964	4·3 1961	23·3 1961	24·4 1962	0·2 1964	6·8 1964	1961	1961	Imphal (Tulihal)
37·8 1963	19·7 1961	79·9 1959	36·6 1962	21·8 1964	206·6 1964	35·6 1964	21·0 1963	83·8 1962	34·5 1962	17·7 1960	138·1 1959	31·9 1961	10·3 1961	57·2 1960	31·5 1960	6·3 1961	0 ..	1959	1959	Kailashahar.
36·4 1962	22·2 1958	190·0 1964	36·4 1957	22·8 1955	238·6 1955	35·3 1962	21·7 1963	115·6 1956	35·0 1955	14·9 1957	127·9 1963	32·8 1955	9·8 1961	104·7 1955	30·0 1960	3·8 1961	10·9 1956	1958	1953	Agartala.
																				Sub-Himalayan West Bengal.
40·4 1962	21·6 1960	208·3 1960	36·7 1957	22·1 1957	313·1 1961	39·2 1958	20·3 1963	179·4 1964	34·9 1964	13·3 1955	164·4 1959	33·3 1952	7·4 1961	20·3 1952	31·1 1951	2·4 1966	5·1 1956	1951 ..	1951 ..	Baghdogra.
37·2 1933	22·2 1949	390·4 1892	37·2 1933	21·1 1918	220·8 1958	36·1 1933	21·1 1944	347·7 1886	35·6 1926	15·6 1947	244·3 1909	33·3 1952	9·4 1914	92·7 1924	30·0 1951	5·6 1918	53·9 1932	1891	1886	Jalpaiguri.
37·2 1956	22·7 1960	296·6 1961	36·3 1957	22·2 1956	315·4 1957	35·6 1953	20·6 1950	329·7 1960	36·1 1952	15·1 1957	77·5 1958	32·8 1956	9·7 1962	29·9 1963	29·4 1959	4·1 1964	23·8 1958	1953	1953	Cooch Behar.
37·7 1962	22·4 1962	51·2 1964	35·5 1964	22·2 1962	71·5 1962	35·7 1963	20·9 1963	60·4 1962	35·2 1962	15·3 1963	94·8 1963	32·5 1962	7·3 1963	89·6 1963	29·8 1962	4·7 1961	1·4 1961	1961	1961	Balurghat.
38·3 1962	21·1 1906	191·8 1958	36·7 1957	22·8 1948	188·0 1918	36·1 1896	21·7 1940	215·9 1953	35·6 1932	15·0 1908	173·7 1894	33·3 1896	8·3 1934	64·3 1930	29·4 1951	3·0 1896	32·8 1913	1896	1886	Malda.
																				Gangetic West Bengal
38·9 1897	21·1 1962	221·0 1900	38·5 1962	21·7 1933	183·4 1939	38·9 1947	21·7 1956	182·9 1900	37·8 1951	16·1 1954	286·3 1917	33·0 1952	8·3 1934	75·2 1930	31·2 1951	5·7 1961	33·5 1913	1881	1881	Berhampore.
38·3 1958	22·0 1960	191·8 1955	36·6 1960	20·3 1964	116·3 1956	34·9 1957	20·6 1956	238·3 1956	35·5 1957	17·0 1957	135·6 1959	32·7 1962	11·2 1964	49·5 1958	29·9 1964	5·6 1964	29·0 1956	1955	1955	Suri.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURE (°C) AND

Sub-Division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Gangetic West Bengal-(*contd.*)																		
Asansol	31·7 1958	4·8 1964	51·6 1944	36·9 1964	5·0 1950	71·3 1961	41·7 1941	11·1 1923	44·2 1949	45·0 1954	10·4 1960	46·7 1945	47·2 1944	18·5 1927	127·0 1938	47·2 1926	20·6 1922	174·5 1957
Shanti Niketan	31·4 1964	5·2 1962	6·8 1962	36·9 1964	8·6 1961	46·5 1961	38·9 1964	12·8 1961	25·5 1961	44·3 1961	18·3 1964	35·2 1964	44·5 1961	18·9 1964	91·9 1962	43·9 1964	22·3 1962	84·2 1964
Krishnagar	34·4 1912	3·9 1934	51·8 1898	37·8 1896	3·9 1886	73·7 1943	42·2 1941	7·8 1898	87·4 1886	45·0 1954	13·9 1886	114·5 1946	46·1 1958	16·7 1893	138·4 1918	45·1 1958	20·0 1907	209·8 1890
Purulia	31·1 1958	5·9 1962	20·4 1962	35·4 1964	7·2 1956	25·2 1961	41·7 1955	13·5 1957	28·7 1956	43·9 1954	16·1 1955	52·2 1962	45·6 1955	20·0 1952	48·8 1959	45·6 1953	20·0 1962	71·3 1962
Bankura	32·5 1964	7·5 1964	33·0 1957	37·8 1964	9·6 1964	53·2 1961	40·0 1964	15·3 1964	34·0 1960	44·5 1964	18·1 1963	64·8 1962	43·5 1964	18·2 1964	45·4 1958	41·8 1964	23·1 1964	84·6 1963
Burdwan	36·7 1951	4·4 1962	43·7 1944	37·8 1896	4·4 1905	84·1 1938	41·7 1941	10·0 1928	115·8 1887	45·0 1897	16·1 1886	116·8 1909	46·1 1916	18·3 1882	244·3 1893	45·6 1926	20·0 1953	243·8 1928
Barrackpore (Aero drome)	31·1 1958	5·0 1962	39·9 1957	34·6 1960	8·2 1961	20·1 1957	40·1 1958	11·0 1957	34·5 1960	41·9 1959	17·3 1957	35·0 1958	42·9 1958	15·6 1962	79·2 1961	43·3 1958	19·9 1957	118·4 1963
Calcutta (Dum Dum)	32·0 1964	6·1 1962	27·2 1957	35·6 1952	7·6 1961	17·7 1964	40·6 1955	12·2 1957	24·8 1960	42·8 1954	18·1 1957	80·4 1962	42·9 1958	17·9 1962	53·8 1963	41·8 1957	21·7 1953	129·0 1956
Calcutta	32·6 1964	6·7 1899	46·7 1943	36·7 1952	7·2 1950	80·8 1906	41·1 1941	10·0 1898	69·9 1907	43·3 1954	16·1 1905	107·4 1918	43·7 1958	18·3 1887	156·2 1893	43·9 1924	21·1 1900	303·5 1908
Midnapore	33·9 1912	6·1 1934	54·6 1957	37·2 1964	5·6 1950	66·0 1931	42·8 1953	11·1 1925	79·5 1920	45·6 1938	17·2 1953	78·2 1949	46·7 1943	19·4 1950	145·3 1956	47·2 942	20·0 1950	276·9 1950
Contai	31·7 1958	8·8 1963	41·0 1959	37·2 1951	10·0 1953	29·0 1954	40·1 1958	14·7 1957	23·4 1951	43·8 1959	19·3 1963	37·3 1962	41·1 1960	17·2 1951	295·1 1960	38·8 1957	13·8 1961	207·5 1956
Sagar Island	30·6 1931	7·8 1899	41·4 1948	33·9 1952	7·2 1950	77·0 1885	38·3 1934	12·2 1906	125·7 1907	39·4 1908	12·9 1962	78·7 1921	38·3 1908	17·8 1893	202·7 1932	40·0 1929	19·4 1925	359·2 1927
Sandheads	32·6 1961	13·2 1964	33·4 1959	32·8 1961	15·4 1964	65·3 1958	36·4 1962	17·8 1960	62·7 1940	35·9 1960	22·2 1963	72·6 1911	37·7 1964	21·4 1963	87·9 1950	37·0 1961	16·7 1962	334·0 1940
Orissa																		
Baripada	33·8 1958	6·6 1963	28·4 1959	38·3 1959	9·9 1961	46·3 1957	41·6 1958	15·0 1959	33·5 1956	45·1 1961	18·2 1961	57·4 1962	46·9 1958	20·6 1963	61·4 1963	47·8 1958	22·5 1960	161·1 1956
Jharsuguda	32·2 1958	6·1 1963	42·4 1953	35·7 1964	8·3 1961	46·7 1961	42·8 1955	11·1 1961	58·7 1951	44·8 1961	15·8 1957	31·7 1952	46·7 1956	19·3 1963	63·8 1963	46·1 1955	21·1 1955	159·2 1958
Keonjhargarh	30·4 1964	7·5 1962	71·0 1962	34·4 1964	9·3 1958	82·0 1963	38·3 1959	14·3 1960	45·2 1962	42·1 1961	17·1 1962	26·4 1963	42·7 1962	17·1 1962	12·3 1964	43·3 1958	20·5 1961	87·0 1963
Balasore	33·3 1958	7·2 1934	85·1 1908	38·3 1934	6·7 1905	76·2 1923	40·6 1955	11·7 1927	70·4 1897	45·0 1892	16·7 1905	71·4 1947	46·7 1897	18·4 1964	221·5 1887	46·1 1926	20·0 1900	217·2 1956
Sambalpur	33·9 1889	4·4 1954	90·7 1957	37·8 1896	5·6 1950	56·8 1961	43·3 1888	11·1 1954	46·2 1951	45·6 1942	14·4 1905	45·2 1909	47·2 1948	20·6 1951	107·9 1891	46·7 1955	19·4 1905	254·5 1882
Angul	34·4 1928	6·7 1923	48·8 1906	37·2 1934	8·9 1950	118·1 1961	42·2 1953	10·6 1906	52·0 1960	45·6 1941	16·1 1920	65·5 1928	47·2 1921	17·7 1959	84·3 1946	46·1 1958	17·4 1964	156·0 1925
Cuttack	35·6 1882	7·8 1923	61·0 1919	38·9 1896	10·6 1934	98·0 1917	42·8 1902	14·4 1906	99·1 1911	45·0 1903	17·2 1905	94·5 1899	47·7 1957	20·6 1946	142·7 1893	47·2 1948	21·7 1955	205·7 1925
Chandbali	32·8 1950	7·8 1962	35·1 1948	37·8 1934	10·0 1942	50·2 1961	40·6 1954	15·0 1952	72·5 1962	43·3 1947	17·2 1943	89·4 1964	44·4 1961	17·8 1931	186·4 1936	46·7 1942	18·3 1931	164·3 1936
Bolangir	33·3 1964	7·6 1963	9·4 1959	38·8 1963	10·0 1961	53·2 1961	40·9 1959	15·5 1958	17·8 1960	44·3 1964	17·9 1961	33·2 1961	45·6 1964	21·7 1963	19·6 1958	44·9 1958	21·4 1963	68·6 1961
Phulbani	30·3 1960	1·6 1963	13·6 1961	35·3 1964	4·3 1963	49·8 1961	37·8 1962	8·9 1964	18·4 1960	41·8 1961	13·9 1960	14·6 1963	42·8 1962	18·3 1963	53·0 1961	41·8 1960	20·2 1961	104·0 1962
Titlagarh	33·1 1964	6·1 1954	30·0 1959	37·8 1953	8·4 1963	43·2 1964	42·2 1955	13·9 1952	26·7 1954	45·0 1956	16·1 1962	23·1 1958	47·0 1964	17·4 1968	76·7 1956	47·2 1955	21·2 1962	103·9 1955
Bhubaneswar	33·6 1958	9·4 1952	35·6 1953	37·2 1953	10·6 1956	52·6 1958	40·7 1959	15·9 1962	33·9 1962	43·9 1954	19·2 1963	42·6 1963	44·9 1958	15·0 1960	94·5 1955	45·0 1952	21·7 1955	91·4 1954
Puri	32·8 1946	10·6 1893	53·1 1921	53·0 1954	12·2 1905	107·9 1897	40·0 1956	15·6 1906	57·9 1919	41·1 1947	18·9 1946	82·0 1919	42·2 1943	16·7 1893	171·7 1893	59·4 1949	19·4 1908	200·4 1895
Gopalpur	32·8 1946	10·0 1899	47·2 1908	36·7 1954	11·7 1934	134·4 1937	40·0 1956	15·6 1925	95·8 1957	38·9 1940	19·4 1955	55·1 1894	43·3 1915	20·0 1948	126·5 1940	41·9 1958	21·1 1939	171·7 1914
Koraput	29·4 1958	4·1 1962	53·3 1953	31·7 1953	5·6 1963	10·2 1957	36·1 1953	10·6 1952	35·6 1954	38·9 1959	15·0 1956	53·9 1956	38·9 1956	16·7 1953	38·9 1951	40·0 1953	13·3 1961	234·6 1959
Bihar Plateau																		
Dumka	37·2 1962	4·4 1954	75·7 1957	36·1 1964	5·0 1905	77·5 1940	42·2 1953	8·3 1906	70·6 1891	45·0 1951	15·0 1905	47·0 1946	46·7 1916	17·2 1924	106·2 1914	46·7 1926	20·0 1922	170·9 1927
Daltonganj	32·2 1902	0 1923	77·2 1945	35·6 1914	0·6 1905	50·5 1908	42·8 1931	5·6 1898	36·8 1927	45·0 1898	11·7 1907	38·6 1914	46·7 1956	17·8 1932	62·2 1904	46·7 1897	11·9 1961	174·0 1907
Hazaribagh	30·6 1881	1·3 1962	68·1 1945	33·3 1896	3·3 1905	63·5 1927	38·9 1892	6·7 1898	44·2 1946	41·7 1956	13·9 1944	60·5 1925	43·9 1897	16·1 1878	84·1 1887	43·4 1958	19·2 1961	249·2 1911
Dhanbad	31·1 1958	7·4 1963	17·3 1957	36·2 1964	8·3 1961	49·7 1961	39·5 1958	13·3 1957	16·3 1958	44·0 1964	17·9 1963	42·6 1964	45·1 1957	19·0 1963	46·4 1963	45·9 1958	21·1 1962	96·2 1961
Ranchi	31·4 1961	3·9 1946	52·1 1945	33·9 1956	2·8 1950	78·5 1913	39·4 1955	7·8 1898	82·3 1891	41·7 1938	10·4 1960	58·7 1944	43·3 1948	15·6 1952	104·7 1914	42·8 1962	14·8 1964	165·6 1898
Ranchi Aerodrome	27·8 1964	5·0 1963	31·7 1959	33·3 1956	6·1 1961	43·8 1958	36·9 1959	10·4 1957	44·7 1956	41·0 1961	15·8 1959	49·5 1959	43·1 1962	18·2 1964	54·6 1959	42·3 1958	19·9 1959	76·4 1961
Jamshedpur	32·8 1934	5·0 1963	11·4 1962	36·1 1964	8·9 1963	55·6 1961	41·7 1955	11·7 1954	33·8 1951	44·4 1961	17·2 1955	33·4 1962	46·1 1962	21·1 1963	48·6 1963	45·6 1953	21·6 1964	214·1 1953
Jamshedpur (P.B.O.)	31·8 1958	4·7 1962	15·0 1954	36·2 1964	8·7 1963	52·0 1961	42·2 1955	11·7 1951	33·8 1951	44·4 1956	18·2 1963	46·2 1962	45·9 1958	19·1 1963	38·1 1955	46·6 1958	21·8 1961	143·1 1964
Chaibasa	33·3 1911	4·4 1934	75·2 1901	37·2 1911	6·7 1934	75·7 1906	42·2 1955	11·7 1927	43·9 1891	45·0 1941	15·6 1944	80·3 1946	46·7 1948	18·3 1938	58·4 1958	46·1 1958	20·0 1932	131·3 1919
Bihar Plains																		
Motihari	28·3 1902	2·2 1905	54·6 1900	35·6 1896	0 1905	66·0 1889	40·0 1941	5·6 1945	55·4 1891	42·2 1954	8·9 1905	67·3 899	44·4 1903	15·0 1952	104·1 1890	43·3 1935	19·4 1903	234·2 1919
Forbesganj	30·4 1961	2·2 1955	40·4 1957	33·3 1955	6·0 1961	42·6 1961	39·0 1958	9·4 1957	19·4 1964	42·8 1954	12·8 1955	24·6 1955	42·9 1958	16·4 1960	121·4 1954	42·1 1958	20·6 1955	219·0 1964

Heaviest Rainfall (Millimeters) in 24 Hours based on Data upto 1964 (1885-86 Saka)

July			August			September			October			November			December			Based on data from		Sub-Division and Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Gagetic West Bengal— (*contd*).
40·0 1926	19·4 1947	269·7 1943	37·2 1932	21·7 1933	189·2 1935	36·6 1963	20·0 1946	269·0 1946	36·7 1932	15·0 1938	113·3 1952	36·1 1955	8·3 1926	99·1 1930	31·7 1946	5·8 1961	29·7 1929	1921	1916	Asansol.
35·8 1962	23·2 1962	83·0 1961	35·2 1964	22·9 1964	60·0 1962	34·4 1964	23·1 1963	87·6 1962	33·8 1963	17·8 1961	184·2 1964	32·1 1963	11·2 1962	4·4 1963	30·1 1964	6·1 1961	0·1 1962	1961	1961	Shanti Niketan.
37·2 1964	22·2 1955	244·3 1905	36·7 1957	21·1 1949	165·3 1926	37·2 1955	21·1 1887	293·9 1900	36·7 1960	14·4 1935	214·8 1959	36·1 1952	8·3 1934	151·1 1889	32·2 1954	5·0 1937	37·3 1954	1886	1886	Krishnagar.
38·8 1964	17·8 1953	148·8 1951	37·3 1964	17·2 1953	118·8 1960	36·1 1955	17·2 1953	181·6 1958	35·6 1951	15·8 1964	96·2 1961	32·2 1963	11·1 1952	55·4 1955	33·3 1955	5·7 1961	7·4 1956	1951	1951	Purulia.
37·0 1962	21·6 1964	115·2 1962	35·5 1964	22·3 1964	78·0 1960	35·4 1963	22·6 1963	106·0 1958	34·6 1964	17·1 1964	76·0 1959	32·9 1963	15·1 1963	57·1 1953	30·9 1964	8·5 1963	7·4 1954	1962	1951	Bankura.
38·9 1897	20·0 1953	299·2 1905	36·1 1945	21·7 1954	260·6 1909	37·8 1928	20·0 1953	304·8 1956	36·7 1951	16·1 1933	216·3 1959	35·6 1896	10·6 1883	106·9 1916	31·7 1951	4·4 1961	69·6 1934	1881	1881	Burdwan.
35·6 1958	21·7 1958	128·0 1964	37·2 1962	22·2 1964	86·8 1961	35·4 1957	22·1 1964	164·0 1959	34·3 1957	18·5 1957	231·1 1959	32·0 1962	11·6 1960	37·8 1958	29·9 1957	6·7 1962	0·3 1959	1957	1957	Barrackpore (Aerodrome)
35·2 1958	22·5 1957	137·2 1953	35·5 1960	23·4 1962	109·9 1961	35·6 1957	23·2 1959	214·4 1956	35·9 1957	16·7 1954	150·2 1959	33·9 1952	11·8 1960	40·9 1951	31·4 1964	7·8 1962	15·2 1954	1951	1951	Calcutta (Dum Dum).
36·7 1920	22·8 1940	183·6 1905	36·1 1944	23·3 1935	253·0 1888	36·1 1939	22·2 1940	369·1 1900	35·6 1957	17·2 1954	206·4 1959	33·9 1952	10·6 1883	85·1 1950	31·5 1963	7·2 1910	53·1 1883	1881	1881	Calcutta.
37·2 1926	22·2 1943	160·8 1929	36·1 1947	21·7 1955	201·2 1891	37·4 1962	21·7 1952	311·5 1958	36·1 1907	15·6 1954	325·1 1942	33·9 1937	10·0 1934	111·3 1941	31·7 1957	6·1 1916	62·0 1914	1921	1886	Midnapore.
35·7 1959	21·7 1952	141·2 1964	36·7 1951	22·8 1954	169·1 1960	35·0 1951	21·7 1959	240·0 1958	34·2 1957	18·3 1954	203·1 1959	32·8 1952	12·6 1960	64·8 1955	31·1 1956	8·3 1961	29·7 1954	1951	1951	Contai.
36·1 1920	16·2 1960	354·1 1913	36·7 1903	21·1 1953	232·4 1954	36·1 1921	18·4 1962	283·4 1958	33·9 1918	17·2 1898	321·6 1933	32·8 1944	12·2 1883	113·3 1955	29·4 1907	9·4 1896	91·9 1947	1881	1881	Sagar Island.
33·6 1963	17·2 1960	290·8 1921	35·8 1960	21·3 1964	176·3 1946	36·8 1964	22·0 1961	163·0 1964	36·2 1960	18·5 1964	174·6 1962	36·3 1962	21·1 1964	132·6 1915	36·6 1962	12·0 1961	144·8 1906	1960	1906	Sandheads.
																				Orissa
35·2 1958	22·7 1964	99·8 1958	35·8 1957	21·9 1964	198·2 1960	36·4 1963	23·3 1964	129·8 1961	35·9 1957	16·3 1964	187·6 1959	33·9 1963	11·1 1962	58·4 1958	32·6 1957	6·7 1961	1·3 1963	1956	1956	Baripada.
37·8 1958	21·6 1959	189·8 1961	35·7 1961	21·9 1964	161·6 1960	34·8 1957	21·4 1961	120·8 1961	36·1 1957	13·9 1954	110·2 1952	33·1 1957	8·9 1960	22·1 1953	31·8 1963	6·1 1955	11·2 1961	1954	1951	Jharsuguda.
34·3 1962	20·9 1962	101·6 1958	32·2 1964	21·1 1964	162·0 1960	35·8 1964	20·4 1962	178·4 1963	32·4 1964	15·3 1964	40·6 1959	30·6 1963	10·1 1960	13·1 1960	30·1 1962	7·1 1959	36·2 1960	1958	1958	Keonjhargarh.
38·3 1897	20·0 1913	347·2 1940	35·6 1955	21·6 1964	255·2 1960	35·6 1922	22·0 1964	299·1 1961	36·1 1925	15·6 1926	323·3 1941	34·4 1896	8·9 1892	184·7 1950	31·7 1944	6·7 1897	178·8 1947	1891	1886	Balasore.
40·6 1902	18·3 1910	401·3 1889	35·1 1964	21·1 1956	290·7 1960	36·1 1930	20·6 1921	220·4 1961	36·1 1920	11·5 1964	173·7 1936	33·9 1946	7·8 1926	106·2 1930	34·1 1963	4·4 1902	39·1 1885	1881	1881	Sambalpur.
38·9 1926	21·0 1959	243·8 1932	36·1 1945	21·1 1956	257·3 1931	35·7 1960	16·7 1961	148·8 1939	35·6 1918	14·4 1926	117·9 1929	33·9 1918	8·9 1910	99·1 1915	31·7 1957	7·2 1937	27·5 1962	1906	1906	Angul.
40·0 1897	21·1 1943	210·8 1943	37·2 1880	21·7 1943	320·8 1933	36·7 1901	21·7 1933	249·2 1891	38·9 1886	16·7 1926	292·6 1899	35·0 1896	10·6 1937	195·6 1950	33·3 1954	8·9 1922	54·9 1909	1880	1881	Cuttack.
36·7 1929	21·0 1964	321·8 1941	35·3 1961	22·2 1933	272·2 1963	35·6 1951	21·7 1959	320·8 1950	35·6 1951	17·8 1952	169·7 1952	33·9 1949	11·7 1959	207·8 1950	32·8 1949	8·3 1961	49·5 1947	1931	1931	Chandbali.
40·7 1964	20·4 1964	325·8 1958	38·4 1960	20·8 1960	116·0 1960	38·4 1960	21·5 1963	88·2 1959	34·6 1962	16·0 1960	100·6 1963	36·6 1960	11·0 1962	12·8 1959	32·6 1963	7·6 1961	16·4 1960	1958	1958	Bolangir.
33·4 1962	20·4 1960	83·4 1964	32·2 1964	20·6 1964	165·2 1964	33·3 1960	20·3 1962	124·8 1963	32·3 1960	12·8 1960	27·1 1960	30·5 1962	5·6 1961	3·8 1961	30·6 1963	1·7 1961	6·4 1961	1960	1960	Phulbani.
40·1 1962	21·1 1958	255·3 1958	36·2 1961	20·6 1964	134·4 1964	35·0 1953	21·7 1961	147·1 1952	36·1 1951	14·6 1963	68·5 1963	33·3 1956	10·6 1952	26·7 1958	33·3 1955	7·2 1955	4·0 1960	1951	1951	Titlagarh.
36·1 1952	20·4 1960	144·4 1958	35·0 1952	20·8 1963	107·7 1954	35·0 1957	21·1 1961	163·0 1958	35·1 1957	16·1 1954	188·2 1954	35·0 1952	12·8 1953	15·6 1955	32·7 1957	9·4 1955	10·9 1954	1952	1952	Bhubaneswar.
36·7 1938	21·7 1944	301·5 1918	36·7 1899	21·7 1898	187·7 1896	39·1 1961	17·2 1893	210·8 1934	36·1 1899	16·7 1901	316·2 1928	33·9 1914	13·9 1926	242·8 1915	32·8 1896	10·6 1895	88·9 1909	1891	1891	Puri.
38·3 1957	20·6 1929	200·9 1936	37·2 1928	19·4 1911	229·9 1940	36·7 1920	20·6 1917	196·9 1886	36·3 1957	16·7 1897	510·8 1954	33·5 1957	12·2 1926	263·7 1923	32·2 1951	10·0 1902	105·7 1909	1891	1881	Gopalpur.
31·1 1960	16·1 1957	232·7 1951	30·6 1958	15·6 1957	143·5 1957	32·8 1963	16·7 1957	110·8 1959	31·1 1963	10·6 1954	89·3 1958	28·9 1959	8·3 1961	43·7 1951	27·8 196	3·9 1961	16·8 1952	1951	1951	Koraput.
																				Bihar Plateau
40·6 1897	21·1 1948	146·3 1921	37·2 1938	21·1 1948	191·5 1888	36·7 1938	20·0 1956	266·9 1935	36·1 1951	13·3 1954	184·4 1959	35·0 1896	6·7 1934	115·1 1930	30·6 1954	5·0 1935	35·6 1913	1891	1886	Dumka.
43·3 1902	18·2 1964	290·8 1920	37·2 1954	20·6 1916	197·7 1963	38·9 1958	17·2 1899	187·5 1946	37·2 1899	10·0 1921	75·2 1937	33·9 1918	5·0 1912	74·9 1924	31·4 1960	1·7 1913	41·9 1940	1896	1896	Daltonganj.
38·9 1901	20·6 1940	221·7 1953	33·7 1957	20·0 1942	180·1 1888	33·3 1960	17·8 1950	167·4 1963	33·3 1957	11·1 1934	149·4 1963	31·7 1896	4·4 1879	95·0 1924	29·4 1950	0·5 1961	39·4 1885	1878	1881	Hazaribagh.
44·0 1962	21·6 1957	112·9 1963	35·6 1957	21·7 1962	81·0 1959	35·1 1958	21·4 1963	82·6 1958	34·9 1957	16·8 1961	110·8 1959	32·7 1962	11·8 1961	10·2 1963	30·0 1964	4·1 1961	26·6 1962	1957	1957	Dhanbad.
38·3 1902	13·2 1961	215·9 1896	35·1 1963	13·2 1961	147·3 1945	37·9 1962	14·9 1961	168·4 1963	36·8 1963	7·1 1961	231·1 1941	32·2 1896	5·6 1949	79·5 1930	30·1 1962	3·6 1964	32·8 1962	1891	1891	Ranchi.
34·6 1962	20·8 1964	178·8 1958	32·5 1964	20·4 1964	120·0 1960	32·0 1957	19·4 1957	130·1 1963	31·9 1957	14·1 1961	111·0 1959	29·7 1963	9·2 1961	7·6 1963	28·3 1962	4·8 1961	21·4 1962	1956	1956	Ranchi Aerodrome.
37·3 1962	22·1 1964	187·5 1952	35·6 1957	21·7 1964	169·2 1953	35·6 1958	18·9 1964	160·4 1958	35·6 1951	15·0 1954	115·4 1959	33·2 1963	8·9 1952	69·1 1953	31·1 1962	5·7 1961	12·5 1956	1951	1951	Jamshedpur.
36·8 1958	21·7 1956	187·5 1952	35·1 1957	22·0 1959	100·2 1963	35·1 1958	20·6 1956	129·1 1957	35·6 1951	15·0 1957	67·0 1962	32·3 1963	8·9 1952	28·5 1951	31·3 1957	5·4 1961	12·7 1956	1951	1951	Jamshedpur (P.B.O.)
41·1 1926	21·7 1943	194·8 1929	37·2 1947	21·1 1913	200·7 1941	36·7 1911	21·1 1950	155·5 1953	36·6 1957	13·9 1954	214·6 1912	33·9 1937	7·8 1934	82·0 1941	31·1 1960	5·0 1913	38·1 1907	1911	1891	Chaibasa.
																				Bihar Plains
42·8 1955	19·0 1959	254·8 1935	37·2 1953	21·7 1884	203·2 1915	37·2 1953	20·0 1890	214·6 1898	36·1 1954	12·8 1895	158·2 1893	35·6 1955	7·2 1949	50·0 1932	28·9 1955	1·7 1896	33·8 1932	1884	1886	Motihari.
38·1 1962	21·7 1954	196·9 1956	39·0 1957	21·4 1960	133·6 1955	37·3 1961	20·6 1955	228·6 1960	35·8 1960	12·8 1957	110·0 1961	34·0 1958	9·2 1962	32·0 1956	31·1 1955	4·8 1964	6·0 1961	1954	1954	Forbesganj.

Sub-Division and Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bihar Plains—(*contd.*)																		
Darbhanga	30·0 1964	1·1 1933	57·7 1957	33·3 1943	1·1 1905	43·9 1949	40·6 1941	7·2 1906	36·3 1897	43·9 1922	11·7 1912	60·5 1899	43·8 1958	17·2 1948	74·4 1923	43·3 1931	19·4 1930	243·8 1883
Muzaffarpur	.. ..	.. ..	25·4 1961	.. ..	.. ..	8·9 1952	.. ..	.. ..	53·3 1960	.. ..	.. ..	30·5 1952	.. ..	.. ..	55·9 1961	.. ..	.. ..	99·1 1952
Chapra	29·9 1964	4·9 1964	50·4 1959	39·6 1963	6·4 1964	15·0 1951	40·8 1960	11·9 1962	18·3 1960	43·9 1961	15·4 1960	17·2 1962	45·4 1960	20·0 1963	58·6 1964	44·8 1960	20·4 1960	135·4 1952
Purnea	28·9 1902	1·7 1955	86·4 1957	34·4 1896	1·7 1891	39·7 1882	40·6 1941	6·7 1927	40·6 1950	43·3 1891	11·7 1905	114·3 1925	43·9 1916	15·6 1885	220·5 1887	42·8 1958	17·8 1906	268·2 1881
Patna	30·3 1964	2·8 1933	57·4 1957	34·4 1896	2·2 1905	40·6 1949	40·6 1941	7·8 1906	53·1 1881	43·3 1956	14·4 1905	47·0 1962	45·6 1941	17·2 1932	109·2 1887	46·1 1931	20·0 1912	350·5 1897
Patna Aerodrome	28·8 1964	3·5 1964	51·8 1957	34·4 1952	5·6 1964	14·0 1962	40·0 1955	10·4 1957	36·0 1959	43·3 1956	13·4 1963	32·8 1953	45·4 1958	17·8 1954	36·6 1963	45·6 1953	21·1 1952	107·2 1964
Arrah	.. ..	.. ..	103·1 1957	.. ..	.. ..	20·1 1954	.. ..	.. ..	76·5 1957	.. ..	.. ..	69·9 1953	.. ..	.. ..	123·0 1959	.. ..	.. ..	105·4 1953
Bhagalpur	29·5 1964	6·7 1964	91·2 1957	34·8 1964	8·2 1964	9·0 1961	40·0 1954	12·1 1957	16·7 1960	43·9 1956	17·5 1959	17·5 1952	44·4 1951	16·1 1955	70·3 1960	43·9 1953	21·1 1957	99·6 1956
Sabaur	29·0 1958	0·6 1934	99·6 1957	33·3 1964	2·8 1950	41·7 1942	41·1 1941	3·9 1945	34·3 1940	43·3 1960	13·3 1957	47·5 1942	45·1 1958	16·1 1934	68·6 1960	46·1 1931	19·4 1934	170·2 1950
Jamui	30·7 1958	3·8 1962	56·1 1957	35·0 1952	6·1 1964	18·4 1961	41·1 1955	10·0 1962	24·4 1952	44·4 1956	13·7 1959	40·0 1964	45·8 1958	19·1 1961	62·7 1952	45·6 1964	20·1 1963	125·2 1964
Dehri	30·6 1958	4·8 1962	30·0 1959	35·3 1964	7·6 1964	17·0 1952	41·1 1953	12·2 1957	30·4 1960	44·4 1956	17·2 1955	27·9 1951	46·7 1951	19·4 1960	69·2 1964	46·1 1960	20·6 1961	220·0 1961
Gaya	31·7 1939	2·9 1962	66·0 1901	35·6 1896	3·9 1950	49·8 1889	41·7 1941	8·3 1945	37·6 1891	45·0 1938	14·4 1886	41·4 1933	46·7 1948	17·2 1893	65·0 1963	47·2 1931	18·3 1913	229·6 1883
Uttar Pradesh (East)																		
Kheri	27·8 1958	2·4 1964	49·8 1954	32·8 1960	3·4 1964	62·6 1961	39·4 1953	9·7 1958	37·2 1962	47·6 1961	15·0 1951	4·6 1952	45·4 1960	16·7 1958	46·7 1956	46·1 1958	17·3 1958	102·6 1961
Bahraich	28·9 1946	0·6 1936	57·7 1953	34·4 1952	0·6 1905	49·5 1905	40·6 1941	5·6 1945	50·5 1914	44·4 1954	11·1 1943	61·0 1909	45·6 1953	15·6 1944	88·9 1938	46·7 1958	18·3 1914	269·5 1929
Nautanwa	28·8 1962	1·0 1964	33·0 1957	32·0 1964	2·8 1964	27·2 1962	38·9 1955	9·0 1959	74·8 1962	43·3 1956	12·9 1960	30·8 1959	46·7 1962	16·6 1960	83·6 1956	44·4 1964	20·1 1960	182·6 1955
Hardoi	28·9 1952	0·7 1964	54·9 1957	32·8 1952	2·2 1964	35·1 1954	38·9 1953	7·0 1964	40·6 1957	43·9 1961	13·9 1955	6·3 1951	45·3 1958	17·6 1964	26·9 1956	48·3 1951	20·6 1954	134·1 1952
Gonda	28·9 1946	1·0 1964	52·6 1953	33·9 1952	1·6 1964	41·4 1935	41·1 1941	5·6 1945	40·4 1944	44·4 1938	13·9 1955	71·4 1933	49·9 1958	16·9 1960	104·1 1956	46·7 1942	16·7 1936	127·8 1938
Lucknow	30·6 1943	1.1 1946	95·3 1883	35·0 1921	1·7 1905	61·5 1928	41·7 1945	7·2 1945	28·2 1940	45·6 1898	12·8 1903	129·5 1909	47·2 1944	17·8 1886	103·4 1891	48·3 1901	19·4 1886	229·1 1886
Lucknow (Amausi)	28·6 1964	—1·0 1964	42·3 1959	34·2 1963	0 1964	22·1 1954	39·4 1955	6·1 1954	25·4 1952	43·3 1954	12·3 1963	16·7 1963	45·0 1962	17·9 1963	57·0 1959	45·6 1953	21·1 1957	109·1 1958
Faizabad	27·7 1964	0·8 1964	30·1 1962	33·1 1960	2·1 1964	14·2 1962	38·4 1964	9·3 1964	16·7 1960	42·5 1959	13·3 1963	9·0 1963	43·5 1959	17·7 1960	44·0 1959	44·0 1960	21·8 1963	90·8 1964
Gorakhpur	30·0 1937	1·7 1933	72·4 1883	35·0 1896	2·8 1905	33·0 1949	41·7 1941	8·3 1927	47·2 1891	43·9 1956	12·2 1905	67·3 1887	48·3 1958	16·7 1937	110·2 1956	46·5 1958	16·1 1949	208·5 1932
Kanpur	31·1 1939	1·7 1950	48·5 1893	35·6 1930	0·6 1905	59·2 1942	42·8 1941	7·2 1945	61·7 1944	45·6 1938	11·1 1905	25·9 1928	47·2 1941	17·8 1909	25·4 1913	47·2 1931	20·6 1922	133·3 1916
Kanpur (Aerodrome)	30·3 1964	0·8 1964	48·3 1962	33·9 1960	2·9 1964	19·1 1959	38·8 1959	9·9 1962	6·5 1960	44·6 1961	15·6 1960	5·8 1963	46·6 1962	18·3 1960	38·0 1961	45·7 1960	21·6 1959	55·9 1964
Sultanpur	29·0 1964	2·9 1964	31·5 1959	33·5 1964	4·1 1964	5·8 1961	40·0 1964	11·1 1959	10·7 1960	43·4 1961	15·9 1959	16·4 1962	45·6 1962	19·0 1964	62·0 1964	45·6 1960	22·0 1963	73·6 1962
Azamgarh	28·9 1964	1·6 1962	38·9 1957	35·0 1952	2·9 1962	37·6 1949	43·3 1949	9·5 1962	28·7 1958	44·4 1961	14·8 1960	14·2 1955	45·6 1953	18·0 1960	30·0 1959	47·9 1960	20·2 1961	81·5 1950
Fatehpur	32·2 1943	1·1 1935	64·1 1962	35·0 1956	2·2 1964	49·8 1942	41·7 1953	8·3 1935	52·8 1950	45·0 1961	14·4 1946	37·1 1935	47·2 1952	19·3 1960	17·0 1948	46·7 1955	21·1 1947	74·7 1955
Ballia	28·8 1961	1·6 1964	43·6 1959	33·4 1960	2·6 1964	5·8 1961	40·0 1962	8·9 1957	33·0 1960	44·5 1961	13·9 1957	11·4 1960	45·7 1958	16·1 1964	69·4 1964	45·5 1961	20·0 1964	99·8 1958
Banda	32.4 1964	0.6 1962	65.6 1962	35·6 1956	3·3 1950	86·8 1954	41.1 1953	9.6 1964	20.1 1950	45.0 1961	13.1 1963	9·4 1961	47.8 1950	17·2 1964	29.0 1951	47.2 1958	21.0 1962	80.5 1953
Allahabad (Bamhrauli)	31·1 1934	2·2 1936	70·9 1900	36·1 1896	1·1 1905	51·3 1898	41·7 1931	7·2 1906	34·5 1958	45·0 1961	12·8 1905	26·4 1939	47·2 1922	17·2 1924	35·6 1917	47·8 1901	19·4 1930	176·0 1916
Varanasi (Babatpur)	29.4 1964	0.3 1963	37.8 1959	35.2 1964	2.8 1964	21.0 1954	41.1 1953	10.0 1954	31.2 1952	43·9 1961	16.1 1959	5.1 1957	46.2 1961	12.5 1963	26.8 1959	46.1 1953	14.3 1963	87.1 1951
Varanasi	31.1 1882	2.5 1964	69.6 1959	36.1 1884	1.7 1905	67.1 1949	41.1 1955	6.7 1906	37.1 1940	44.4 1954	11.1 1905	34.5 1928	47.2 1884	17.3 1964	51.6 1889	47.2 1901	20.6 1914	159.5 1890
Uttar Pradesh (West)																		
Mukhim	20.1 1963	—3.4 1960	66.0 1960	21.7 1956	—3.9 1961	45.4 1961	26.6 1964	—1.6 1960	79.5 1962	28.9 1958	4.2 1959	39.4 1957	31.7 1956	8.5 1962	41.4 1964	33.2 1958	9.4 1962	100.0 1960
Tehri	25.6 1961	—1.2 1963	50.3 1957	30.0 1956	0.2 1964	88.9 1961	34.9 1964	1·9 1962	39.7 1963	39.3 1958	9·0 1959	24.6 1957	41.8 1962	12.2 1962	39.9 1956	42.3 1958	12.1 1957	49.5 1958
Dehra Dun	26.1 1946	—1.1 1945	79·5 1945	29·4 1956	—1.1 1905	106.2 1949	37.2 1892	2·2 1945	81·5 1926	40·6 1892	7·8 1944	39.1 1898	42.8 1944	12.8 1947	79.3 1940	43.9 1902	13.9 1906	188.0 1925
Mansiary	18·7 1957	—3·5 1964	48·3 1958	17·6 1964	—4·0 1964	25·1 1964	22·3 1964	1·7 1957	74·0 1963	25·5 1957	1·7 1960	52·1 1967	30·8 1957	5·0 1964	58·0 1963	30·2 1957	11·6 1957	80·5 1960
Roorkee	28·3 1898	—1·1 1935	101·6 1883	31·7 1956	—2·2 1905	111·0 1930	38·9 1945	2·8 1945	109·5 1955	43·3 1897	7·2 1905	38·3 1949	46·1 1884	14·4 1907	57·7 1910	46·7 1932	16·1 1900	148·8 1906
Najibabad.	27·0 1961	—2·9 1964	51·2 1962	32·8 1956	0·9 1964	48·3 1954	36·7 1953	2·2 1952	63·8 1962	41·5 1964	10·7 1960	17·8 1953	43·9 1962	15·6 1960	30·5 1956	43·2 1960	18·3 1954	89·5 1958
Meerut	27·2 1952	1·7 1951	54·0 1962	31·1 1960	2·8 1964	58·4 1949	37·8 1953	8·3 1954	54·6 1951	43·1 1958	12·2 1960	30·5 1946	45·6 1962	17·3 1960	36·5 1964	46·1 1962	19·4 1951	43·0 1963
Bareilly	29·4 1943	0·6 1905	61·0 1921	32·8 1884	·0 1905	95·3 1913	40·0 1943	5·0 1945	79·3 1926	43·9 1952	11·1 1905	38·1 1909	46·7 1884	16·1 1898	40·1 1956	46·1 1946	19·4 1912	218·4 1908

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Bihar Plains—*contd.*
39·1 1962	20·8 1963	199·6 1926	37·5 1957	21·1 1912	264·4 1913	38·3 1961	19·4 1896	266·7 1925	38·7 1961	14·4 1914	214·0 1961	33·3 1943	7·2 1926	49·0 1912	36·6 1960	4·4 1908	25·1 1929	1881	1881	Darbhanga.
.. ..	.. ..	192·9 1957	.. ..	.. ..	220 0 1963	.. ..	.. ..	99·1 1960	.. ..	.. ..	65·1 1963	.. ..	.. ..	11·5 1963	.. ..	.. ..	14·0 1962	..	1951	Muzaffarpur.
40·2 1962	20·2 1960	120·9 1952	39·2 1960	23·7 1960	138·9 1952	36·6 1960	22·0 1963	179·3 1960	34·8 1964	16·4 1960	86·0 1961	32·2 1963	10·5 1960	44·7 1956	30·7 1963	5·1 1961	13·2 1956	1960	1951	Chapra.
37·4 1962	21·1 1921	204·2 1916	37·3 1957	21·7 1909	239·3 1918	37·4 1964	19·4 1890	318·5 1898	35·6 1957	10·0 1891	158·0 1929	32·8 1952	7·2 1883	114·8 1932	30·6 1953	2·5 1964	53·3 1913	1881	1881	Purnea.
41·7 1903	21·1 1931	177·8 1893	38·3 1903	21·7 1923	165·3 1914	37·8 1928	20·0 1890	366·0 1918	36·1 1932	15·0 1954	158·2 1894	33·9 1952	8·3 1934	63·7 1915	30·6 1951	5·0 1961	73·7 1929	1881	1881	Patna.
40·0 1962	21·1 1960	130·6 1957	36·1 1957	21·4 1959	129·0 1963	37·2 1951	22·2 1957	118·2 1963	35·6 1951	12·2 1962	126·8 1964	33·3 1952	7·8 1952	35·6 1956	30·6 1951	2·2 1961	19·6 1957	1951	1951	Patna Aerodrome.
.. ..	.. ..	107·9 1955	.. ..	.. ..	127·0 1953	.. ..	.. ..	132·0 1960	.. ..	.. ..	59·0 1958	.. ..	.. ..	51·3 1956	.. ..	.. ..	7·0 1962	..	1951	Arrah.
39·0 1962	22·8 1956	82·3 1956	38·5 1957	21·7 1957	123·7 1955	37·2 1956	21·7 1956	194·7 1962	36·3 1957	16·1 1954	169·9 1961	34·4 1952	11·1 1952	37·1 1956	30·6 1951	5·2 1961	8·4 1954	1951	1951	Bhagalpur.
37·8 1958	22·8 1934	145·0 1934	37·4 1957	22·8 1962	107·0 1961	37·8 1933	21·7 1956	189·6 1962	35·6 1957	13·3 1954	185·2 1961	33·4 1957	6·1 1934	37·3 1956	29·4 1963	2·2 1964	7·9 1936	1931	1931	Sabaur.
40·2 1962	21·1 1952	122·4 1951	36·9 1964	23·3 1964	168·8 1960	36·1 1951	20·1 1964	180·6 1960	35·6 1951	15·0 1963	205·8 1961	33·8 1957	8·3 1952	22·9 1956	31·7 1963	5·1 1961	4·8 1961	1951	1951	Jamui.
42·2 1962	21·3 1964	164·4 1959	35·8 1964	22·5 1964	107·2 1958	35·6 1951	22·1 1963	79·4 1962	35·6 1951	14·7 1957	42·2 1963	33·9 1951	9·4 1952	64·0 1956	31·7 1952	1·8 1961	12·2 1961	1951	1951	Dehri.
43·3 1926	16·7 1886	209·8 1886	38·9 1935	18·5 1962	258·6 1942	38·3 1928	20·6 1890	200·4 1946	37·2 1918	12·8 1954	116·6 1894	35·0 1896	8·2 1960	81·8 1924	31·1 1929	1·4 1961	49·0 1885	1881	1881	Gaya.
																				Uttar Pradesh (East)
40·6 1951	22·2 1954	235·8 1961	36·8 1964	22·2 1957	229·6 1963	36·1 1956	18·9 1950	187·6 1960	35·4 1963	12·8 1954	167·6 1960	35·3 1957	6·1 1952	6·2 1959	29·0 1964	4·0 1964	14·2 1950	1950	1950	Kheri.
44·4 1902	20·6 1900	186·2 1955	38·3 1903	21·1 1956	325·9 1938	38·3 1907	18·3 1912	236·2 1919	37·8 1907	12·2 1935	171·5 1945	33·9 1951	5·0 1952	78·0 1927	31·7 1896	1·7 1913	81·0 1956	1896	1896	Bahraich.
42·1 1957	22·2 1957	191·2 1962	40·0 1956	21·0 1964	150·8 1958	39·9 1961	19·6 1964	203·2 1956	38·7 1961	14·3 1957	159·6 1958	34·9 1962	7·2 1964	16·8 1963	30·0 1953	3·2 1961	10·3 1961	1954	1954	Nautanwa.
42·0 1962	22·8 1955	153·9 1953	37·6 1964	21·6 1958	209·8 1962	37·0 1963	16·7 1950	214·6 1960	37·8 1952	11·1 1954	241·6 1960	33·9 1951	6·1 1952	10·8 1959	31·8 1959	1·7 1961	15·7 1950	1950	1950	Hardoi.
41·7 1957	20·0 1949	215·4 1955	37·2 1939	16·7 1956	306·6 1938	37·8 1932	18·9 1950	174·2 1953	37·2 1951	12·2 1957	145·0 1933	33·9 1940	5·6 1934	32·5 1932	29·0 1963	2·8 1964	29·5 1950	1932	1932	Gonda.
45·6 1903	21·1 1963	311·7 1947	38·9 1911	21·2 1958	177·8 1881	39·4 1920	17·6 1964	250·2 1915	40·0 1896	11·1 1895	128·4 1958	35·0 1951	5·0 1920	48·3 1927	33·3 1896	1·7 1902	50·5 1885	1881	1881	Lucknow.
41·7 1954	22·2 1963	272·4 1960	36·9 1957	22·8 1957	121·9 1961	40·1 1958	18·8 1963	148·6 1957	37·2 1952	12·2 1954	191·4 1958	38·0 1963	3·9 1952	4·8 1956	29·4 1964	0·6 1961	20·4 1964	1952	1952	Lucknow (Amausi).
40·3 1962	22·1 1964	147·2 1963	36·4 1964	22·3 1961	125·8 1962	35·9 1963	20·3 1964	87·3 1964	35·6 1959	12·9 1960	97·2 1959	33·6 1963	6·7 1960	10·2 1963	30·0 1964	2·9 1961	17·3 1964	1959	1959	Faizabad.
41·0 1964	18·9 1953	189·5 1937	37·2 1953	21·1 1944	284·5 1912	37·8 1928	17·8 1912	239·5 1930	37·0 1964	12·8 1895	218·7 1894	34·0 1964	6·7 1953	55·9 1956	29·4 1963	2·8 1913	28·7 1929	1881	1881	Gorakhpur.
45·0 1903	21·7 1948	167·6 1924	40·6 1903	21·7 1948	235·2 1915	40·0 1932	16·1 1896	233·9 1915	40·6 1896	11·1 1895	136·1 1894	36·1 1940	5·0 1948	59·2 1911	31·3 1959	0·9 1961	40·6 1950	1891	1891	Kanpur.
43·3 1962	21·7 1963	97·6 1963	37·5 1964	22·8 1962	107·6 1962	36·8 1963	19·7 1963	101·6 1964	37·2 1963	12·6 1964	117·9 1961	35·6 1963	6·1 1962	2·5 1959	30·3 1959	1·4 1961	17·1 1964	1959	1959	Kanpur (Aerodrome).
41·7 1962	21·9 1963	132·2 1963	36·2 1964	22·7 1962	99·4 1960	36·2 1960	20·5 1962	140·6 1964	36·0 1963	13·9 1964	237·4 1961	34·0 1963	7·9 1964	4·4 1963	30·0 1963	3·3 1961	21·8 1961	1959	1959	Sultanpur.
41·1 1962	21·1 1953	186·7 1955	36·7 1957	21·3 1962	130·6 1953	28·3 1951	18·9 1962	210·8 1956	37·8 1951	12·3 1960	81·0 1958	36·1 1951	6·2 1960	40·9 1956	31·1 1954	0·9 1961	12·5 1950	1949	1949	Azamgarh.
44·0 1962	21·7 1949	175·3 1932	39·4 1945	21·7 1953	191·8 1953	38·3 1932	19·2 1962	125·0 1939	38·9 1951	12·5 1964	111·0 1960	35·6 1944	6·1 1937	12·2 1936	31·1 1946	1·9 1961	39·4 1950	1932	1932	Fatehpur.
43·0 1962	18·3 1964	160·0 1963	37·0 1960	18·6 1964	149·1 1958	36·1 1959	19·3 1963	95·8 1962	36·1 1957	10·4 1957	137·2 1961	34·0 1961	5·8 1957	0 ..	29·9 1958	2·5 1964	8·2 1962	1957	1957	Ballia
44·2 1962	20·6 1963	159·0 1951	39·0 1964	20·1 1963	164·4 1961	37·8 1951	18·0 1963	114·6 1964	38·3 1957	13·2 1957	109·6 1960	35·6 1953	6·1 1950	34·3 1956	31·1 1959	0·8 1961	34·8 1950	1949	1949	Banda
45·6 1901	22·2 1963	229·4 1963	41·4 1963	21·1 1953	335·3 1953	39·4 1928	18·3 1912	266·2 1938	40·6 1896	11·7 1898	163·3 1894	35·6 1918	5·6 1941	96·0 1956	31·1 1946	—0·7 1961	54·6 1886	1881	1881	Allahabad (Bamhrauli)
42·8 1962	22·1 1957	166·4 1955	36·4 1957	23·3 1961	137·6 1962	36·1 1960	21·3 1963	111·4 1959	35·6 1952	12·8 1954	36·4 1959	33·8 1963	6·1 1952	140·5 1956	30·0 1963	2·3 1962	11·9 1953	1952	1952	Varanasi (Babatpur)
45·0 1901	20·0 1919	288·3 1914	40·0 1903	22·2 1955	321·6 1940	38·3 1938	17·8 1912	349·5 1943	39·4 1896	11·7 1919	138·9 1900	35·6 1941	6·7 1926	74·9 1927	32·8 1956	2·2 1913	53·1 1929	1881	1881	Varanasi
																				Uttar Pradesh (West)
28·2 1962	12·7 1962	105·2 1957	26·7 1957	14·2 1963	98·9 1963	26·1 1958	9·9 1963	121·3 1963	25·8 1964	2·7 1961	113·3 1956	24·5 1964	2·2 1961	33·5 1959	21·2 1960	—0·3 1962	77·7 1957	1956	1956	Mukhim
40·0 1961	13·2 1957	73·7 1956	36·7 1960	20·0 1956	62·5 1958	36·3 1963	14·9 1963	115·6 1963	34·8 1960	8·6 1960	172·5 1956	31·1 1956	4·1 1961	25·2 1959	26·6 1964	—1·5 1961	39·8 1958	1946	1946	Tehri
40·6 1931	18·3 1902	294·6 1890	37·2 1949	19·4 1932	332·2 1951	34·4 1938	14·4 1940	22·6 1924	36·1 1901	9·3 1961	137·4 1956	30·6 1952	2·8 1938	78·7 1911	27·2 1960	0 1954	108·5 1923	1881	1881	Dehra Dun
24·1 1964	13·7 1964	148·4 1963	23·4 1960	12·8 1963	75·5 1960	24·1 1963	1·0 1960	77·6 1964	.. ..	.. ..	55·8 1963	20·8 1964	—1·0 1964	28·5 1963	15·1 1963	—1·0 1963	82·0 1957	1957	1957	Mansiary
45·0 1931	20·8 1964	228·9 1889	39·8 1960	20·6 1914	212·0 1963	38·3 1899	15·6 1944	266·7 1888	38·3 1899	8·9 1953	231·7 1956	33·9 1952	2·8 1934	58·2 1911	28·3 1889	—0·6 1902	58·2 1923	1881	1881	Roorkee
41·7 1963	21·1 1964	188·0 1958	37·0 1964	20·9 1963	150·8 1963	36·7 1963	15·6 1962	178·8 1963	35·2 1963	10·0 1954	160·5 1956	33·9 1952	3·3 1956	11·4 1956	29·7 1960	0·6 1956	44·2 1961	1952	1952	Najibadad
42·8 1949	20·8 1964	146·1 1953	38·8 1954	21·7 1956	171·2 1964	37·8 1951	19·4 1962	143·3 1955	37·8 1951	10·9 1964	113·0 1954	33·3 1952	5·6 1962	12·5 1951	30·0 1964	0·2 1961	23·0 1961	1945	1945	Meerut
43·9 1903	20·0 1931	251·2 1882	40·6 1918	21·1 1916	224·8 1881	38·5 1963	16·7 1899	206·8 1912	38·3 1918	8·9 1887	193·1 1960	36·1 1920	5·6 1934	63·0 1904	30·0 1960	1·7 1930	37·6 1923	1881	1881	Bareilly

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Uttar Pradesh (West)— *contd.*																		
Aligarh	30·6 1946	0·6 1935	40·6 1944	32·9 1960	1·7 1950	45·0 1954	41·7 1945	3·9 1945	26·3 1960	44·4 1948	10·9 1957	30·5 1933	46·7 1954	17·8 1957	39·4 1941	46·3 1958	18·6 1957	144·3 1933
Mainpuri	30·6 1946	—1·7 1927	58·2 1963	34·4 1922	—0·6 1905	60·2 1898	41·7 1945	5·0 1945	33·3 1957	45·6 1948	11·1 1903	29·7 1914	47·8 1943	15·6 1955	41·4 1960	49·2 1961	18·9 1949	191·0 1952
Agra	31·1 1946	—2·2 1935	49·5 1957	35·6 1897	—1·7 1929	51·8 1915	42·8 1892	5·6 1945	41·3 1960	45·0 1941	11·7 1940	32·5 1944	47·2 1943	16·7 1926	32·3 1926	48·3 1889	19·4 1922	97·3 1886
Agra (Aerodrome)	28·1 1964	—0·7 1964	31·1 1962	33·8 1960	1·6 1964	11·8 1961	38·4 1964	8·8 1960	35·5 1960	44·7 1964	14·3 1959	5·5 1963	46·8 1962	18·6 1960	26·0 1960	46·8 1962	23·3 1963	21·0 1961
Orai	30·1 1964	2·2 1963	35·0 1961	34·4 1960	2·2 1951	22·9 1954	41·1 1955	8·9 1957	22·1 1951	44·1 1958	15·0 1960	5·3 1952	46·7 1962	19·0 1964	37·0 1959	46·7 1955	15·6 1957	234·9 1952
Jhansi	33·3 1946	1·7 1935	83·0 1959	37·8 1930	0·6 1929	36·8 1944	43·3 1892	7·2 1945	42·2 1950	45·6 1958	14·4 1935	18·3 1933	47·2 1947	19·8 1964	40·6 1943	47·8 1924	20·6 1922	162·3 1942
Punjab India (including Delhi)																		
Pathankot	23·6 1961	—1·8 1964	38·3 1961	28·9 1960	0·6 1964	32·8 1961	35·0 1958	6·7 1962	48·7 1962	42·2 1958	10·0 1959	15·1 1958	44·9 1962	10·4 1964	50·8 1959	46·1 1960	18·0 1964	54·6 1964
Amritsar (Rajasansi)	25·0 1952	—1·7 1962	43·4 1961	32·2 1953	—0·6 1958	25·9 1950	35·6 1953	3·9 1954	39·4 1951	43·3 1958	6·9 1960	15·2 1951	46·1 1954	12·9 1960	24·6 1951	46·7 1953	15·6 1958	39·6 1958
Adampur (Aerodrome)	28·1 1960	—4·9 1964	21·1 1953	33·9 1960	—3·4 1964	40·5 1959	35·0 1964	3·3 1964	36·1 1963	40·8 1964	8·9 1964	9·4 1963	45·0 1960	13·9 1964	21·6 1959	45·5 1960	16·3 1962	37·8 1963
Ludhiana	28·9 1910	—2·2 1964	119·6 1911	33·3 1956	—3·1 1905	71·9 1942	41·1 1945	1·3 1964	89·9 1951	46·1 1941	8·9 1905	55·9 1944	48·3 1944	11·7 1964	31·2 1913	47·9 1958	18·3 1952	108·7 1894
Ferozepore	27·2 1952	—2·9 1964	45·2 1957	33·3 1953	0 1964	29·0 1954	37·2 1955	5·0 1951	55·1 1957	44·9 1958	9·4 1954	15·0 1955	47·2 1954	13·2 1964	29·0 1951	46·7 1954	15·5 1958	93·6 1960
Halwara (Aerodrome)	25·6 1961	—2·8 1964	79·0 1962	29·1 1960	—1·1 1964	14·2 1961	34·4 1962	5·3 1964	15·3 1962	41·4 1962	7·9 1960	11·0 1962	45·0 1962	13·4 1960	43·2 1959	45·6 1960	20·3 1960	30·5 1959
Chandigarh	26·3 1961	0 1956	68·4 1961	32·8 1954	0 1961	42·4 1954	35·6 1958	6·0 1963	49·2 1962	41·2 1958	11·2 1959	21·8 1957	44·6 1962	15·0 1955	23·2 1964	45·3 1958	17·8 1956	57·4 1959
Ambala	28·9 1946	—1·1 1947	101·9 1953	33·9 1956	—0·6 1905	146·8 1898	41·7 1945	3·9 1945	103·9 1956	45·0 1941	10·0 1944	82·0 1935	47·8 1944	14·4 1920	85·1 1913	47·8 1923	19·4 1939	105·9 1954
Ambala (Aerodrome)	25·6 1961	—1·4 1962	17·1 1961	30·6 1960	—0·3 1964	64·2 1961	35·9 1959	7·5 1962	60·1 1962	41·3 1964	11·4 1959	7·5 1961	45·2 1962	15·6 1964	15·2 1959	45·8 1960	20·0 1960	64·2 1959
Patiala	27·8 1952	0 1962	52·0 1961	33·3 1956	1·7 1950	59·2 1949	37·8 1953	6·7 1957	44·2 1962	42·8 1958	12·2 1954	11·4 1957	46·7 1954	17·2 1955	21·2 1959	46·1 1959	19·4 1955	71·4 1960
Bhatinda	26·2 1961	—2·0 1964	17·5 1962	31·8 1960	—0·9 1964	11·0 1961	36·9 1964	5·6 1961	15·5 1960	44·7 1962	10·5 1960	8·3 1961	46·1 1962	15·4 1964	21·6 1960	45·9 1962	20·9 1964	41·0 1960
Karnal	27·2 1952	0 1964	52·0 1961	31·7 1960	1·5 1964	45·7 1954	36·7 1953	7·0 1957	33·5 1956	42·8 1952	11·2 1957	26·4 1955	46·0 1962	16·8 1960	21·1 1951	45·6 1958	18·0 1962	68·6 1954
Hissar	30·6 1952	—3·9 1929	53·4 1948	34·4 1956	—2·2 1929	46·0 1937	45·6 1945	2·8 1945	39·4 1927	47·9 1958	6·3 1918	22·6 1944	48·3 1944	14·4 1948	41·1 1916	47·8 1954	17·8 1922	69·1 1939
New Delhi (Safdarjung)	29·4 1946	—0·6 1935	116·8 1885	33·3 1934	1·7 1950	104·1 1942	40·6 1945	4·4 1945	62·2 1915	45·6 1941	11·7 1940	40·9 1909	47·2 1944	17·5 1964	30·5 1885	46·7 1945	18·9 1932	235·5 1936
Palam (Aerodrome)	26·3 1961	—0·8 1964	45·5 1962	32·8 1960	0·6 1964	12·0 1961	37·8 1964	6·7 1963	12·0 1960	43·4 1961	11·7 1960	4·2 1964	46·5 1964	16·6 1960	20·0 1964	45·7 1959	21·1 1963	66·0 1963
Himachal Pradesh																		
Mandi	23·9 1956	—3·0 1962	76·0 1961	27·8 1957	—1·1 1964	43·2 1959	32·9 1964	4·1 1964	108·4 1963	38·9 1958	6·7 1955	26·7 1955	41·4 1962	9·9 1959	60·0 1964	42·7 1958	15·3 1958	63·5 1956
Bilaspur	24·9 1960	—0·1 1962	57·9 1961	28·9 1960	0 1964	62·6 1961	33·9 1959	0·9 1964	129·2 1963	40·7 1958	5·6 1964	23·9 1957	43·9 1962	5·9 1964	42·2 1964	44·2 1958	10·9 1962	49·8 1957
Jammu and Kashmir																		
Misgar	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Gilgit	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Skardu	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
Dras	5·0 1907	—42·8 1909	63·5 1943	6·7 1928	—43·3 1911	105·4 1928	10·0 1903	—33·9 1911	104·9 1930	18·3 1946	—25·0 1905	65·8 1928	25·0 1910	—15·0 1947	127·0 1958	30·6 1906	—10·0 1947	60·0 1958
Sonamarg	.. ..	.. ..	88·9 1950	.. ..	.. ..	77·2 1951	.. ..	.. ..	78·0 1951	.. ..	.. ..	55·9 1953	.. ..	.. ..	53·3 1955	.. ..	.. ..	50·0 1960
Leh	8·3 1916	—28·3 1899	24·4 1893	12·8 1953	—26·4 1964	16·8 1903	19·4 1908	—19·4 1903	16·0 1930	23·9 1941	—12·8 1903	22·1 1896	28·9 1893	—4·4 1886	22·3 1951	33·9 1882	—1·1 1886	19·6 1955
Srinagar	17·2 1902	—14·4 1893	147·8 1930	20·6 1940	—20·0 1895	66·3 1906	25·6 1931	—5·6 1895	70·1 1920	31·1 1946	0 1905	65·3 1957	35·6 1936	2·8 1920	52·8 1931	37·8 1946	7·2 1935	65·8 1907
Srinagar (Aerodrome)	11·2 1961	—13·9 1964	97·8 1964	17·8 1960	—13·8 1964	36·4 1959	21·1 1962	—4·4 1963	46·8 1960	25·7 1962	—0·8 1960	48·2 1961	31·0 1963	5·1 1960	23·9 1964	32·7 1960	7·8 1964	36·6 1964
Gulmarg	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	29·4 1922	—3·9 1935	83·3 1921
Qazigund	7·2 1964	—15·7 1964	108·4 1964	16·9 1963	—16·7 1964	38·8 1964	21·1 1964	—5·2 1963	76·3 1963	24·9 1963	2·3 1964	36·8 1963	30·5 1963	4·3 1964	39·2 1964	32·6 1964	9·1 1962	103·2 1964
Banihal	17·2 1963	—12·0 1964	73·4 1964	19·6 1963	—8·1 1964	60·5 1963	24·7 1964	—2·1 1963	100·1 1963	28·9 1962	2·5 1964	47·8 1962	32·7 1963	4·0 1964	59·2 1963	34·0 1964	6·3 1964	94·5 1963
Jammu	26·7 1926	—2·1 1964	94·7 1932	31·7 1947	1·1 1929	110·7 1914	37·2 1945	4·4 1945	88·9 1915	43·9 1941	10·0 1918	66·0 1914	46·1 1954	10·1 1963	33·0 1936	47·2 1953	18·3 1936	114·8 1953
Jammu (Aerodrome)	23·7 1961	1·1 1964	56·4 1950	27·2 1963	2·2 1961	35·6 1959	33·9 1964	6·8 1961	28·9 1963	39·6 1962	11·1 1963	15·2 1964	44·4 1964	16·2 1964	20·0 1962	35·2 1962	18·4 1962	19·9 1962
Rajasthan (West)																		
Ganganagar	36·1 1948	—2·2 1945	35·1 1948	35·0 1953	—2·8 1950	28·2 1948	41·1 1942	0·6 1945	47·0 1956	46·6 1958	8·3 1940	22·3 1944	49·4 1944	11·7 1945	48·0 1951	50·0 1934	18·3 1952	99·1 1938
Anupgarh	25·7 1962	—4·0 1964	0 ..	32·3 1962	0·6 1964	0 ..	37·4 1961	5·2 1962	0 ..	45·8 1964	13·2 1961	18·3 1961	48·5 1962	17·8 1964	0 ..	46·6 1964	20·4 1964	.. ..

July			August			September			October			November			December			Based on Data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temp.	Rain fall	
																				Uttar Pradesh (West)—*contd.*
43·9 1948	20·6 1947	164·6 1942	40·6 1941	20·1 1957	183·6 1964	40·0 1938	16·7 1962	220·6 1964	41·7 1952	11·7 1949	138·7 1955	36·1 1944	5·0 1937	14·0 1959	32·8 1948	2·2 1945	17·8 1935	1932	1932	Aligarh.
45·6 1903	18·3 1934	135·9 1927	42·2 1918	21·7 1947	256·3 1949	40·6 1905	16·7 1942	186·4 1931	40·6 1896	10·6 1932	237·2 1960	36·1 1948	2·2 1926	31·7 1927	31·1 1959	—1·1 1926	59·2 1929	1896	1896	Mainpuri.
45·6 1919	17·0 1962	182·1 1964	42·2 1918	20·8 1957	149·9 1952	41·0 1962	17·2 1953	286·0 1939	41·1 1920	9·4 1939	169·7 1910	36·1 1909	2·8 1926	45·7 1911	30·0 1964	—0·6 1926	26·7 1923	1881	1881	Agra.
43·6 1962	23·8 1964	150·0 1964	38·0 1962	21·7 1961	119·8 1959	38·1 1961	16·4 1962	111·3 1964	37·2 1960	11·1 1964	18·2 1960	34·9 1963	4·8 1962	3·6 1959	29·4 1964	0 1961	9·1 1963	1959	1959	Agra (Aerodrome).
43·9 1951	17·8 1962	110·0 1953	39·1 1964	20·0 1950	232·4 1957	37·8 1951	17·8 1950	85·0 1963	38·3 1951	11·1 1957	220·4 1960	35·3 1963	4·4 1950	16·0 1963	30·6 1954	—1·7 1961	45·0 1950	1950	1950	Orai.
45·6 1900	21·5 1963	239·5 1927	42·2 1911	18·3 1960	249·7 1930	40·6 1913	18·3 1942	261·6 1910	40·6 1913	11·7 1916	119·6 1903	36·1 1911	5·0 1938	62·2 1927	32·8 1940	0·3 1961	24·4 1924	1881	1881	Janshi.
																				Punjab India (including Delhi)
43·1 1962	19·5 1964	244·6 1960	36·5 1964	19·6 1962	239·4 1961	35·9 1960	15·0 1963	120·4 1959	35·0 1960	8·7 1964	46·3 1958	30·6 1960	4·1 1962	22·4 1962	27·2 1959	—1·4 1964	32·2 1960	1958	1958	Pathankot.
45·6 1954	20·6 1955	146·3 1948	40·7 1964	19·3 1957	79·8 1956	40·6 1949	16·9 1962	308·4 1962	38·3 1951	8·3 1953	190·5 1955	32·2 1949	—0·6 1949	31·8 1959	27·7 1958	—2·8 1950	32·0 1963	1948	1948	Amritsar (Rajasansi).
41·9 1962	21·5 1964	141·7 1962	37·6 1963	21·6 1963	81·2 1960	37·5 1964	15·0 1963	123·7 1962	37·1 1960	7·2 1964	59·3 1959	32·7 1960	1·9 1962	18·0 1962	27·4 1964	—1·7 1964	16·5 1963	1959	1959	Adamur (Aerodrome).
47·8 1881	18·6 1958	163·1 1893	44·4 1884	20·0 1961	184·9 1887	41·7 1905	15·2 1962	254·4 1962	40·0 1941	9·4 1964	354·3 1955	35·0 1909	0·3 1962	25·4 1957	29·4 1944	—1·1 1930	60·5 1894	1881	1881	Ludhiana.
45·1 1597	20·6 1963	119·6 1951	40·2 1962	16·2 1962	190·0 1964	39·4 1954	16·2 1962	209·6 1958	39·4 1952	8·3 1952	63·3 1955	35·0 1951	2·1 1962	42·7 1951	28·3 1953	—1·7 1950	44·5 1957	1950	1950	Ferozepore.
43·1 1962	21·0 1963	107·7 1959	39·3 1962	20·8 1963	104·8 1962	38·2 1960	16·4 1963	35·6 1959	37·8 1961	7·8 1964	19·9 1961	31·1 1959	2·2 1962	17·3 1962	27·3 1959	—0·4 1961	29·1 1960	1959	1959	Halwara (Aerodrome).
41·6 1957	18·3 1956	112·1 1961	38·4 1962	18·9 1956	115·0 1963	37·3 1958	16·7 1962	234·9 1955	37·0 1960	9·4 1955	63·7 1955	33·4 1958	4·4 1957	24·8 1961	28·0 1964	1·1 1955	32·0 1960	1954	1954	Chandigarh.
46·7 1903	19·4 1956	162·3 1945	43·9 1918	20·0 1939	228·9 1896	40·6 1951	15·6 1912	224·8 1945	39·4 1941	8·3 1898	138·4 1916	35·6 1947	2·8 1926	135·1 1951	29·4 1944	—0·6 1913	47·5 1924	1896	1896	Ambala.
42·4 1962	21·0 1964	162·8 1961	37·9 1962	21·6 1961	197·0 1964	36·6 1963	16·2 1962	233·5 1962	35·1 1961	9·2 1960	14·3 1961	30·7 1959	3·8 1960	15·9 1959	27·6 1964	0·4 1964	27·1 1960	1959	1959	Ambala (Aerodrome).
45·0 1951	21·7 1953	238·0 1949	40·4 1962	21·6 1957	168·7 1955	40·6 1951	17·1 1962	160·0 1964	38·9 1951	10·0 1948	81·0 1955	33·3 1952	2·1 1952	52·1 1951	29·4 1964	0·4 1961	21·3 1957	1948	1948	Patiala.
44·9 1964	21·4 1964	94·5 1962	40·7 1960	20·6 1961	181·4 1964	39·6 1960	16·7 1962	125·0 1962	38·7 1961	7·9 1964	18·3 1961	32·5 1962	2·8 1962	9·1 1962	28·9 1964	0·0 1964	19·2 1960	1960	1960	Bhatinda.
43·9 1959	19·0 1960	131·1 1950	42·0 1962	18·4 1960	167·6 1952	38·3 1951	6·7 1949	250·0 1962	39·3 1957	11·1 1957	130·3 1956	34·4 1953	3·5 1962	22·0 1959	27·8 1959	0·1 1964	23·6 1958	1949	1949	Karnal.
47·2 1947	20·6 1952	120·6 1964	43·3 1918	21·0 1962	346·7 1926	42·2 1938	15·6 1913	259·1 1917	41·7 1961	8·3 1949	122·7 1917	36·7 1943	2·5 1962	48·0 1959	33·6 1960	—1·1 1945	38·1 1924	1916	1916	Hissar.
45·0 1931	21·6 1964	266·2 1958	40·0 1945	21·5 1962	184·0 1961	40·6 1938	17·3 1964	176·5 1904	39·4 1951	9·4 1937	172·7 1954	35·0 1943	3·9 1938	20·8 1925	28·9 1959	1·1 1945	53·3 1894	1931	1881	New Delhi (Safdarganj)
42·8 1962	17·8 1964	119·3 1962	38·2 1962	21·4 1962	136·8 1961	36·8 1960	15·6 1962	124·5 1964	39·6 1961	9·9 1964	34·7 1961	33·5 1963	2·8 1960	35·0 1959	28·8 1964	0 1964	22·5 1963	1959	1959	Palam (Aerodrome).
																				Himachal Pradesh
33·9 1962	14·6 1964	141·8 1961	34·2 1957	14·6 1964	271·1 1960	33·9 1956	13·4 1963	98·6 1960	32·3 1963	4·3 1964	74·7 1955	33·2 1963	2·5 1961	31·8 1962	30·1 1962	—2·2 1954	35·3 1958	1954	1954	Mandi.
41·8 1957	10·5 1964	124·5 1960	37·5 1962	13·9 1964	92·4 1961	35·4 1957	7·6 1964	103·4 1957	36·0 1962	4·5 1964	62·4 1961	34·8 1964	3·0 1966	34·8 1957	33·8 1964	0 1960	40·2 1960	1957	1957	Bilaspur
																				Jammu and Kashmir
.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	Misgar.
.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	Gilagit.
.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	Skardu.
33·9 1905	0·6 1907	55·9 1957	31·7 1907	2·2 1913	40·0 1958	29·4 1906	5·6 1906	58·4 1928	25·0 1916	—20·0 1937	88·9 1917	15·0 1902	—29·4 1911	61·7 1946	9·4 1904	—15·0 1910	81·5 1221	1901	1901	Dras.
.. ..	.. ..	42·2 1960	.. ..	.. ..	74·8 1960	.. ..	.. ..	251·2 1954	.. ..	.. ..	31·7 1949	.. ..	.. ..	29·2 1949	.. ..	.. ..	54·5 1950	..	1948	Sonamarg.
33·3 1883	0·6 1929	23·6 1882	32·2 1946	2·8 1941	51·3 1933	30·6 1883	—4·4 1940	25·9 1893	25·6 1916	—7·8 1923	39·1 1955	20·0 1929	—13·9 1962	16·2 1959	12·8 1891	—25·6 1937	15·2 1934	1881	1881	Leh.
38·3 1946	10·6 1919	79·0 1959	36·7 1946	10·0 1932	67·3 1929	35·0 1934	4·4 1940	102·4 1928	33·9 1931	—1·7 1934	59·9 1917	23·9 1946	—7·8 1934	64·3 1959	18·3 1901	—12·8 1964	97·5 1964	1891	1891	Srinagar.
35·6 1962	11·9 1962	58·4 1959	33·8 1962	12·8 1963	33·8 1961	32·7 1960	6·1 1964	33·7 1962	28·3 1959	1·9 1960	11·7 1961	22·2 1964	—2·9 1960	67·2 1959	14·6 1959	—16·6 1964	79·9 1964	1959	1959	Srinagar (Aerodrome)
29·4 1918	2·8 1907	236·2 1959	28·0 1961	2·8 1951	115·3 1929	25·0 1934	—2·8 1940	90·9 1905	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	1901	1901	Gulmarg.
32·9 1964	11·7 1962	33·9 1962	30·5 1964	11·6 1963	23·2 1962	30·6 1962	6·5 1963	99·2 1962	27·6 1964	1·9 1964	15·4 1963	22·1 196	—8·2 1962	44·4 1963	12·8 1963	—14·4 1964	96·9 1963	1962	1962	Qaziganad.
34·6 1964	12·7 1964	49·6 1962	30·9 1961	12·4 1963	23·9 1963	29·4 1961	6·8 1963	127·0 1962	30·1 1964	2·1 1961	22·3 1961	24·5 1964	—1·8 1962	57·7 1961	19·0 1963	—13·6 1964	92·5 1963	1961	1961	Banihal.
45·0 1951	16·1 1951	279·2 1961	41·7 1918	17·8 1912	228·6 1926	38·3 1954	15·0 1950	181·1 1950	37·2 1951	12·2 1914	160·0 1955	32·5 1958	6·1 1962	40·1 1928	27·2 1964	2·1 1964	66·8 1924	1911	1911	Jammu.
43·3 1962	20·7 1963	335·3 1961	38·3 1963	20·6 1963	96·6 1964	35·3 1962	17·1 1963	172·8 1962	35·8 1964	12·8 1964	27·7 1959	32·2 1963	5·0 1962	33·2 1959	25·9 1959	1·4 1964	45·7 1961	1959	1959	Jammu (Aerodrome).
																				Rajasthan (West)
46·7 1948	20·9 1963	86·1 1956	42·8 1946	21·7 1950	146·1 1948	42·8 1939	15·6 1944	135·8 1958	41·1 1952	6·7 1949	10·6 1959	37·2 1943	1·7 1938	20·6 1959	31·1 1959	—1·7 1950	29·6 1958	1934	1937	Ganganagar.
46·0 1964	22·8 1964	.. ..	42·6 1964	23·6 1964	.. ..	41·0 1965	19·4 1964	.. ..	39·6 1964	8·4 1964	.. ..	34·1 1964	4·0 1964	.. ..	28·2 1964	—3·0 1964	.. ..	1961	1961	Anupgarh.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURE °(C) AND

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Rajasthan (West)—(*contd.*)																		
Mahajan	26·5 1963	−5·1 1963	8·5 1962	33·0 1962	−2·8 1964	0 ..	39·0 1964	6·3 1964	2·0 1962	45·4 1964	14·8 1964	4·0 1963	47·8 1962	19·0 1963	10·0 1963	47·5 1962	22·5 1964	12·0 1963
Churu	29·2 1958	−4·4 1964	15·0 1957	33·8 1960	−1·1 1964	8·2 1961	39·0 1959	6·2 1960	13·8 1957	45·9 1958	11·5 1957	8·0 1963	46·6 1962	15·6 1960	19·4 1964	45·7 1962	21·1 1957	65·0 1961
Bikaner	31·1 1952	−4·0 1964	25·4 1958	37·2 1953	−2·2 1950	46·7 1906	42·8 1924	−0·6 1898	43·9 1911	47·2 1925	8·3 1953	31·0 1944	49·4 1914	13·7 1960	48·3 1883	48·9 1897	17·8 1888	110·7 1894
Nagaur	28·2 1961	−2·0 1964	2·3 1961	34·6 1960	1·1 1964	11·0 1961	40·1 1959	8·8 1962	2·0 1964	43·3 1962	14·4 1963	5·5 1959	45·8 1959	16·6 1960	16·0 1959	44·6 1961	19·7 1960	33·3 1963
Phalodi	31·1 1946	−3·3 1942	41·1 1944	37·8 1953	0·6 1951	23·4 1948	42·8 1961	1·7 1945	12·9 1948	47·0 1958	12·2 1953	28·2 1962	47·2 1956	19·4 1944	33·8 1953	46·7 1944	19·8 1964	84·8 1945
Jaisalmer	30·7 1961	−4·4 1949	7·6 1957	37·8 1953	−2·2 1951	8·4 1961	41·6 1958	6·0 1960	8·9 1955	44·0 1961	10·6 1953	20·8 1961	47·8 1956	17·0 1960	16·0 1951	47·0 1963	20·5 1957	135·4 1961
Jodhpur	32·8 1932	−2·2 1905	40·1 1948	38·3 1953	−0·6 1920	22·6 1939	41·8 1959	5·0 1908	20·6 1926	48·0 1958	9·4 1918	26·7 1919	48·9 1932	17·2 1909	38·1 1910	47·8 1901	19·4 1914	152·9 1917
Barmer	33·3 1949	−1·7 1935	59·9 1945	39·4 1943	4·0 1957	23·6 1939	43·3 1946	8·9 1945	24·6 1940	48·3 1958	12·2 1945	23·1 1933	48·9 1932	16·7 1931	36·6 1945	46·7 1946	16·2 1964	99·4 1961
Munabao	.. ..	.. ..	0 ..	35·5 1961	4·0 1962	10·4 1961	40·0 1961	6·5 1962	3·0 1962	46·0 1961	14·0 1962	27·8 1961	45·0 1961	.. ..	0 ..	45·0 1962	.. ..	4·2 1962
Rajasthan (East)																		
Pilani	29·7 1959	−3·9 1964	6·2 1961	34·2 1960	−0·9 1964	7·7 1961	39·2 1959	6·3 1959	15·2 1960	43·9 1962	11·9 1960	4·6 1910	46·1 1962	16·6 1960	33·0 1959	46·9 1963	21·6 1960	21·7 1960
Sikar	30·6 1949	−2·2 1955	19·1 1957	36·1 1953	−2·8 1951	16·5 1954	39·4 1949	3·3 1954	13·2 1960	44·4 1958	7·2 1953	7·6 1952	47·8 1956	15·6 1955	51·3 1959	43·9 1948	19·6 1960	53·3 1955
Alwar	29·0 1964	1·2 1961	34·0 1962	34·4 1959	3·2 1964	10·5 1962	38·4 1959	10·0 1956	29·0 1960	46·4 1958	14·7 1960	3·8 1964	50·6 1956	19·3 1958	23·6 1964	48·8 1957	23·3 1961	58·6 1957
Jaipur (Sanganer)	28·9 1952	−2·0 1964	45·2 1957	36·1 1953	2·2 1964	12·5 1952	38·9 1953	7·8 1958	14·0 1957	44·9 1958	12·8 1955	11·7 1963	46·1 1956	16·6 1961	67·6 1959	45·6 1954	20·1 1957	50·6 1961
Dholpur	30·2 1958	0·2 1964	17·0 1961	34·7 1960	0·4 1964	19·3 1958	43·3 1955	8·9 1957	34·6 1960	45·8 1958	14·0 1960	8·1 1959	46·8 1962	19·8 1962	35·3 1959	47·1 1965	19·8 1963	76·2 1955
Ajmer	31·7 1902	−2·8 1935	46·5 1948	35·6 1953	−1·1 1905	33·0 1907	41·7 1892	2·2 1898	42·4 1932	44·6 1958	9·4 1986	38·1 1909	45·6 1912	15·6 1881	43·2 1925	45·6 1901	7·2 1941	119·4 1917
Tonk	30·1 1964	0·5 1964	4·6 1961	34·4 1960	1·4 1964	1·2 1961	39·2 1964	8·8 1962	7·8 1962	45·0 1964	13·1 1960	3·6 1963	45·4 1961	10·8 1960	21·0 1964	44·7 1961	22·5 1964	36·2 1960
Bhilwara	29·8 1964	2·5 1964	0 ..	36·0 1962	3·0 1964	0 ..	39·0 1964	9·9 1962	0 ..	43·4 1964	16·0 1962	16·8 1963	44·2 1964	16·9 1964	13·6 1964	42·2 1963	20·3 1964	41·3 1964
Kota	33·9 1912	1·7 1929	35·8 1915	38·3 1943	2·2 1929	50·8 1915	42·8 1945	8·9 1945	17·8 1944	47·3 1958	14·4 1905	25·9 1933	48·5 1962	18·9 1930	53·3 1917	47·8 1945	21·1 1941	132·1 1917
Kota (Aerodrome)	31·4 1964	5·0 1962	0·3 1963	36·0 1964	5·6 1964	0 ..	40·0 1964	12·4 1962	3·2 1963	44·8 1964	19·4 1963	3·6 1963	46·0 1963	20·8 1964	17·0 1964	45·2 1962	20·9 1964	34·9 1964
Erinpura (Jawai Dam)	31·6 1964	0 1964	36·8 1957	36·1 1955	2·3 1964	6·1 1961	40·0 1952	8·8 1959	16·8 1957	45·6 1958	14·4 1955	6·1 1959	45·0 1962	18·4 1964	20·6 1964	43·6 1958	20·5 1961	51·0 1963
Chambal (Rawat Bhatta Dam)	30·4 1964	0 1956	15·6 1961	35·0 1964	0·5 1957	5·1 1956	40·1 1959	5·6 1956	29·7 1957	46·0 1958	14·4 1956	10·9 1962	46·1 1956	15·6 1957	39·2 1964	44·4 1958	16·3 1957	56·0 1959
Udaipur	30·6 1958	0·9 1962	49·5 1953	36·7 1953	1·0 1961	14·0 1948	38·9 1959	7·4 1957	26·4 1962	44·4 1958	10·6 1955	26·9 1953	43·9 1956	16·3 1960	18·5 1964	41·7 1958	18·8 1953	64·8 1963
Jhalawar	32·8 1932	−0·6 1935	17·7 1961	36·7 1953	1·7 1934	11·4 1942	41·7 1945	5·0 1943	14·2 1957	46·3 1958	13·9 1955	34·8 1933	46·7 1932	18·4 1960	27·2 1936	46·1 1945	24·1 1950	252·0 1945
Banswara*	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	44·0 1964	20·0 1964	0 ..	44·6 1964	17·3 1964	25·2 1964	40·1 1964	22·4 1964	56·6 1964
Madhya Pradesh (West)																		
Gwalior	31·7 1943	−1·1 1954	40·1 1957	36·7 1949	0·6 1950	20·6 1954	41·7 1945	7·2 1945	17·2 1960	46·2 1958	12·8 1953	15·2 1943	48·3 1947	20·2 1964	41·9 1953	47·2 1945	21·1 1947	162·6 1952
Sheopur	31·7 1952	0·6 1954	21·6 1957	37·2 1953	1·9 1957	20·8 1954	41·3 1958	7·2 1956	29·7 1956	45·9 1958	13·9 1955	7·6 1952	47·8 1954	18·8 1960	41·0 1959	46·7 1954	22·2 1955	89·1 1955
Shirpvi	30·0 1964	−2·5 1964	19·8 1961	33·0 1964	−2·2 1964	1·0 1964	38·8 1964	6·3 1962	2·0 1962	42·8 1964	12·0 1963	6·8 1963	44·2 1962	16·2 1963	16·8 1964	46·0 1964	20·5 1964	40·6 1964
Nowgong	32·2 1946	−1·7 1935	64·0 1962	36·7 1934	−0·6 1905	48·0 1946	41·7 1931	5·0 1945	25·9 1913	45·0 1948	11·7 1905	40·6 1909	47·2 1917	13·9 1932	31·0 1913	47·2 1923	18·4 1957	462·8 1897
Guna	31·7 1946	−2·2 1934	33·2 1959	36·1 1953	−1·1 1950	40·6 1942	41·1 1945	5·0 1945	59·9 1950	44·2 1964	11·1 1940	21·6 1933	46·1 1954	16·7 1960	55·2 1959	46·1 1945	20·0 1944	191·5 1945
Nimach	32·8 1898	−1·1 1905	63·3 1891	36·7 1887	−0·6 1886	44·7 1915	41·7 1892	4·4 1905	50·0 1923	44·6 1958	8·9 1905	31·5 1888	46·7 1912	13·9 1920	49·3 1883	46·1 1897	15·6 1885	172·7 1933
Rajgarh	32·2 1961	1·3 1962	10·7 1956	36·0 1963	2·2 1957	2·0 1956	40·7 1933	8·5 1962	19·3 1957	46·3 1958	14·4 1956	1·8 1961	46·6 1958	16·7 1960	27·4 1956	45·2 1958	21·0 1963	61·0 1958
Sagar	31·7 1912	1·7 1934	84·1 1887	35·0 1953	1·1 1929	43·2 1951	41·1 1892	7·2 1898	60·9 1957	43·9 1896	10·6 1926	23·9 1937	45·6 1914	16·9 1959	58·2 1903	45·6 1897	17·0 1963	235·5 1890
Ratlam	33·0 1961	3·0 1962	18·0 1953	37·8 1953	5·4 1961	8·1 1956	41·1 1952	9·4 1957	19·8 1954	45·2 1958	15·0 1955	10·2 1957	43·9 1960	18·4 1964	21·6 1956	42·2 1953	19·4 1961	98·6 1951
Bhopal (Bairagarh)	32·2 1934	0·6 1935	34·3 1948	36·1 1953	1·7 1950	22·4 1962	40·0 1945	7·8 1945	35·1 1936	44·2 1958	12·2 1935	13·5 1937	45·6 1947	18·4 1964	72·6 1956	43·9 1945	19·5 1957	120·9 1945
Ujjain	32·2 1961	0 1962	13·6 1963	34·4 1964	2·6 1964	5·6 1963	39·0 1961	11·0 1963	9·0 1963	42·8 1961	14·6 1961	1·4 1962	43·2 1962	19·6 1964	7·0 1963	40·2 1964	21·0 1961	63·4 1964
Narsinghpur	32·0 1964	1·2 1963	3·0 1963	36·2 1964	3·4 1964	29·5 1962	40·6 1964	7·8 1962	3·1 1962	44·4 1964	13·3 1964	15·8 1963	45·0 1963	20·4 1963	6·6 1962	43·4 1963	21·6 1963	61·1 1964
Hoshangabad	32·5 1961	3·3 1935	40·1 1947	37·8 1953	6·1 1950	36·6 1917	41·1 1953	10·6 1935	41·9 1957	45·2 1958	16·1 1951	48·3 1890	46·1 1954	19·6 1963	35·8 1893	45·6 1953	21·1 1946	178·8 1895
Indore	32·2 1938	−1·1 1935	80·5 1920	36·7 1953	−2·8 1929	32·0 1888	41·1 1892	5·0 1898	19·3 1944	44·6 1958	7·8 1905	51·1 1895	45·6 1916	16·7 1881	99·1 1886	45·0 1897	18·9 1958	127·0 1895
Rajpur (Jhabua)	32·8 1961	0 1962	11·2 1963	37·2 1956	3·7 1957	18·0 1961	40·9 1958	9·0 1960	6·2 1962	44·0 1958	16·0 1960	13·1 1958	44·8 1960	18·8 1960	26·7 1956	41·6 1958	21·0 1960	73·0 1960

*Observatory started in March 1964.

HEAVIEST RAINFALL (MILLIMETERS) IN 24 HOURS BASED ON DATA UPTO 1964 (1885-86 SAKA)

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Rajasthan (West)—(contd.)
44·5 1964	23·0 1964	60·7 1962	44·8 1962	24·5 1963	80·3 1963	40·7 1961	19·3 1963	9·0 1961	40·0 1961	11·7 1961	4·0 1961	34·0 1964	.. ..	3·0 1961	32·5 1963	−0·6 1963	2·0 1962	1961	1961	Mahajan.
44·8 1963	22·4 1962	76·0 1957	41·4 1957	22·5 1962	99·0 1964	39·4 1960	16·9 1962	72·3 1963	38·7 1960	8·1 1964	15·0 1961	35·1 1957	1·4 1962	13·0 1959	32·8 1963	−2·1 1964	8·2 1960	1957	1957	Churu.
47·8 1963	20·6 1931	134·4 1920	43·3 1899	21·1 1889	142·0 1909	43·9 1915	18·1 1962	165·6 1945	42·2 1951	7·6 1964	95.8 1917	37·2 1943	0·6 1937	41·9 1951	33·3 1963	−2·8 1950	30·0 1892	1881	1881	Bikaner.
42·1 1964	22·6 1964	20·0 1964	40·3 1964	21·6 1964	84·2 1964	41·6 1960	18·7 1962	24·0 1962	39·9 1960	10·0 1964	6·3 1959	34·9 1964	4·9 1962	2·1 1961	31·4 1959	0·6 ·964	36·2 1962	1959	1959	Nagaur.
45·6 1963	23·3 1962	225·0 1964	43·1 1957	21·7 1956	72·4 1953	41·5 1960	18·9 1962	63·5 1954	42·2 1941	8·9 1949	24·1 1956	36·7 1943	5·0 1946	13·5 1957	32·3 1963	0·4 1964	12·6 1961	1941	1941	Phalodi.
45·0 1963	21·7 1955	98·0 1954	43·3 1958	20·6 1962	104·4 1955	43·3 1949	19·8 1962	36·0 1958	42·2 1951	8·3 1949	9·4 1958	36·7 1957	3·8 1960	22·1 1957	33·6 1963	−0·6 1950	6·3 1957	1948	1948	Jaisalmer.
45·6 1961	19·4 1926	194·1 1943	42·9 1957	20·6 1927	184·4 1927	42·8 1915	17·8 19·08	215·9 1924	42·2 1920	10·0 1949	142·0 1917	37·2 1964	5·6 1938	26·9 1893	33·3 1953	0·6 1945	22·9 1937	1901	1891	Jodhpur.
44·4 1939	19·4 1936	124·5 1944	43·3 1957	20·0 1941	255·5 1944	42·8 1951	16·7 1935	62·6 1961	42·8 1951	13·9 1933	18·0 1956	38·2 1957	6·7 1946	27·6 1958	35·0 1963	2·3 1959	14·0 1942	1931	1931	Barmer.
.. ..	.. ..	0 ..	.. ..	.. ..	.. ..	31·0 1962	20·5 1962	.. ..	39·5 1962	.. ..	0 ..	.. ..	.. ..	.. ..	31·0 1961	0 1961	0·3 1962	1961	1961	Munabao.
																				Rajasthan (East)
43·3 1963	18·3 1959	139·6 1962	40·3 1960	23·3 1963	76·4 1959	38·5 1960	15·5 1962	67·1 1962	38·3 1961	11·9 1960	19·2 1959	34·1 1963	2·1 1962	17·4 1959	31·7 1963	−1·0 1964	8·6 1960	1959	1959	Pilani.
44·4 1947	20·6 1962	129·3 1957	40·0 1957	20·0 1964	184·4 1964	39·4 1954	13·1 1963	70·0 1962	40·6 1951	6·7 1949	49·5 1955	34·2 1957	0 1962	25·1 1963	31·3 1963	−3·9 1950	20·3 1946	1946	1946	Sikar.
43·6 1963	22·3 1958	144·0 1962	39·4 1957	21·7 1957	114·4 1962	37·8 1957	16·9 1962	78·0 1957	40·6 1957	12·0 1960	91·7 1956	35·0 1957	6·8 1958	24·4 1959	29·5 1959	1·4 1961	36·4 1962	1956	1956	Alwar.
43·1 1957	21·7 1958	96·8 1957	38·3 1955	18·9 1953	188·4 1959	38·0 1960	16·8 1962	77·2 1956	37·8 1952	11·7 1955	59·4 1956	34·0 1951	5·8 1960	17·4 1958	31·3 1963	0 1964	6·4 1960	1952	1952	Jaipur (Sanganer).
43·4 1963	23·3 1956	118·0 1964	39·8 1964	17·7 1960	93·2 1958	37·4 1960	17·0 1962	101·4 1963	38·2 1963	10·7 1964	105·4 1955	36·3 1963	0·1 1961	7·5 1961	31·3 1957	0·4 1964	8·6 1960	1955	1955	Dholpur.
44·4 1901	20·0 1931	165·6 1962	40·0 1883	20·6 1935	164·6 1928	40·6 1915	16·1 1950	156·2 1924	38·9 1951	7·8 1889	119·4 1956	35·0 1901	2·8 1926	42·4 1958	31·6 1963	0·3 1964	56·6 1913	1881	1881	Ajmer.
42·9 1963	22·8 1961	150·6 1961	39·0 1964	22·3 1964	91·0 1964	38·9 1960	17·5 1962	95·9 1963	38·5 1960	9·8 1964	4·2 1961	34·2 196·	3·4 1960	31·3 1963	31·4 1964	1·7 1961	21·0 1962	1960	1960	Tonk.
40·0 1963	20·4 1964	48·0 1964	36·5 1964	22·4 1964	120·2 1963	35·5 1964	17·2 1962	26·4 1962	36·2 1964	13·2 1964	6·2 1963	35·4 1964	6·5 1962	6·4 1963	33·3 1963	1·8 1964	3·7 1962	1962	1962	Bhilwara.
47·2 1923	19·4 1962	249·2 1945	41·1 1911	18·2 1962	172·2 1955	40·6 1951	19·2 1962	185·4 1926	41·1 1930	13·0 1962	98·0 1930	37·2 1901	7·8 1962	54·1 1927	33·9 1941	3·9 1926	30·0 1927	1901	1901	Kota.
41·5 1963	22·6 1963	139·2 1962	38·8 1964	22·7 1964	112·1 1963	36·9 1963	20·6 1962	57·3 1964	37·8 1963	14·3 1964	4·5 1963	35·5 1963	8·9 1962	40·9 1963	33·2 1963	3·8 1964	3·4 1962	1962	1962	Kota (Aerodrome).
40·1 1963	21·3 1962	228·4 1962	38·3 1957	21·5 1964	180·9 1957	38·9 1960	19·9 1963	152·9 1955	39·9 1960	10·0 1964	26·6 1963	36·0 1964	4·7 1960	16·7 1963	33·6 1963	3·6 1961	6·2 1958	1955	1955	Erinpura (Jawai Dam).
46·1 1962	23·6 1956	191·5 1956	37·2 1955	15·6 1957	109·7 1956	40·6 1956	14·4 1957	207·4 1961	37·8 1963	8·3 1955	45·5 1955	37·2 1957	3·3 1958	40·6 1963	32·6 1963	−1·1 1955	3·0 1962	1955	1955	Chambal (Rawat Bhatta Dam).
37·8 1948	21·1 1954	105·9 1950	35·5 1957	18·9 1950	105·7 1957	37·8 1951	15·6 1950	183·9 1950	37·2 1951	9·9 1957	48·6 1963	35·0 1951	4·3 1960	38·1 1948	32·2 1963	0·6 1950	5·3 1956	1947 ..	1947 ..	Udaipur.
42·2 1941	19·7 1958	246·6 1947	37·8 1955	18·3 1954	184·7 1942	38·9 1951	17·0 1957	147·0 1961	40·0 1951	10·6 1934	76·2 1956	35·6 1941	5·6 1956	66·0 1933	33·3 1941	2·2 1945	44·2 1947	1931 ..	1931 ..	Jhalawar.
38·6 1964	22·4 1964	76·8 1964	35·1 1964	21·9 1964	67·6 1964	34·9 1964	20·4 1964	56·2 1964	36·3 1964	12·2 1964	0 ..	36·9 1964	10·5 1964	0 ..	32·6 1964	7·6 1964	0 ..	1964	1964	Banswara*
																				Madhya Pradesh (west).
43·9 1948	22·4 1964	149·9 1947	38·5 1964	21·1 1955	108·5 1954	37·2 1951	18·3 1942	208·3 1963	39·4 1951	8·9 1952	150·6 1955	35·6 1941	3·9 1946	11·7 1946	31·1 1959	−0·4 1961	31·7 1952	1941 ..	1941 ..	Gwalior.
42·2 1951	22·2 1953	187·2 1957	38·9 1955	21·1 1953	121·4 1961	38·3 1951	17·4 1957	69·1 1954	40·6 1951	10·2 1957	100·8 1956	37·3 1957	4·6 1962	19·1 1951	32·2 1963	0 1961	10·2 1956	1951 ..	1951 ..	Sheopur.
40·0 1963	20·6 1964	75·6 1962	35·6 1964	21·0 1964	146·2 1961	36·7 1962	16·8 1962	65·6 1961	35·8 1963	9·0 1964	34·0 1961	33·8 1963	2·6 1962	24·4 1963	30·8 1964	−1·5 1964	10·4 1964	1961	1961	Shivpuri.
45·6 1931	20·8 1958	232·7 1902	38·3 1945	20·6 1957	255·4 1961	39·4 1929	17·0 1962	257·2 1964	39·4 1930	8·4 1957	127·0 1926	35·6 1929	3·8 1962	75·2 1910	32·8 1929	−1·7 1961	84·6 1886	1881 ..	1881 ..	Nowgong.
41·7 1931	19·1 1960	293·4 1958	36·7 1955	19·4 1952	181·6 1934	38·1 1960	16·7 1942	298·5 1947	38·3 1951	8·3 1957	63·5 1956	35·0 1963	2·8 1940	64·5 1946	32·5 1962	−1·1 1964	35·6 1946	1931 ..	1931 ..	Guna.
42·2 1901	14·4 1910	152·4 1943	37·8 1899	18·3 1913	185·9 1957	38·9 1951	17·2 1902	177·5 1947	39·4 1919	10·6 1890	102·1 1955	35·6 1901	5·0 1938	51·6 1934	32·1 1932	0·6 1929	25·4 1962	1881 ..	1881 ..	Nimach.
41·2 1957	19·7 1958	153·7 1956	35·7 1964	20·6 1956	300·2 1960	35·6 1955	15·0 1956	116·8 1955	37·0 1957	9·1 1964	52·8 1961	35·4 1963	4·4 1956	60·3 1963	32·8 1963	0 1957	57·1 1956	1955 ..	1955 ..	Rajgarh.
41·1 1931	16·0 1963	284·5 1904	35·6 1899	18·7 1963	274·3 1908	38·3 1881	16·7 1926	173·0 1962	37·8 1999	11·7 1890	198·2 1958	34·4 1909	6·1 1926	105·2 1902	33·6 1963	2·1 1961	73·9 1886	1881 ..	1881 ..	Sagar.
37·6 1958	20·0 1951	300·5 1950	38·7 1959	20·0 1956	153·4 1957	37·8 1951	16·1 1954	266·4 1962	38·3 1951	12·8 1952	162·3 1955	35·5 1964	8·2 1964	41·0 1963	33·0 1962	3·9 1964	7·2 1963	1948 ..	1948 ..	Ratlam.
40·6 1931	19·0 1959	218·2 1939	35·0 1932	19·4 1956	188·5 1944	36·1 1951	17·2 1951	233·2 1947	37·8 1951	11·7 1943	123·7 1955	33·5 1962	6·1 1941	68·3 1936	32·8 1941	3·3 1936	31·7 1935	1931 ..	1931 ..	Bhopal (Bairagarh).
38·8 1962	21·6 1963	90·0 1963	34·6 1964	21·4 1963	87·8 1962	35·2 1963	18·0 1963	239·0 1961	34·8 1963	9·1 1964	30·2 1961	34·5 1963	5·0 1964	23·0 1963	32·0 1963	3·3 1964	9·6 1963	1961 ..	1961 ..	Ujjain.
36·4 1963	19·9 1963	80·0 1964	34·0 1964	21·0 1964	82·0 1964	34·2 1963	20·0 1964	115·0 1963	35·0 1963	9·8 1964	16·0 1962	35·0 1963	4·0 1964	2·1 1963	32·4 1963	1·0 1964	30·0 1962	1962 ..	1962 ..	Narsinghpur.
41·4 1960	18·9 1951	238·8 1890	35·6 1950	19·4 1943	294·1 1919	40·4 1959	17·8 1942	207·0 1950	37·2 1951	12·2 1952	98·3 1943	35·0 1951	3·9 1952	86·4 1912	32·3 1959	4·4 1938	109·7 1928	1931 ..	1881 ..	Hoshangabad.
38·3 1931	18·9 1910	293·4 1913	35·0 1899	18·9 1952	209·8 1928	37·2 1899	16·6 1963	169·8 1962	37·8 1899	8·9 1890	88·4 1949	35·0 1925	5·6 1938	69·0 1958	32·8 1896	1·1 1936	46·7 1962	1881 ..	1881 ..	Indore.
39·4 1962	20·4 1962	186·8 1958	34·0 1964	20·6 1956	140·7 1957	36·0 1960	17·2 1963	142·7 1959	37·3 1957	11·0 1964	142·7 1955	35·8 1964	7·2 1956	24·1 1962	34·4 1960	6·0 1964	50·8 1956	1955 ..	1955 ..	Rajpur (Jhabua).

*Observatory started in March, 1964.

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Pradesh (West)																		
Chhindwara	30·0 1950	3·2 1960	75·4 1960	35·6 1953	2·8 1950	37·9 1950	38·3 1953	8·9 1957	14·7 1958	42·5 1958	15·4 1960	15·2 1957	43·8 1958	19·8 1959	47·7 1956	43·0 1958	18·3 1949	73·9 1956
Seoni	32·8 1882	2·8 1937	49·5 1943	37·2 1896	3·3 1911	70·1 1893	40·6 1899	6·1 1910	42·2 1936	43·9 1942	11·7 1905	41·9 1937	44·4 1954	15·0 1917	74·2 1918	45·0 1942	17·8 1928	279·4 1881
Betul	31·3 1961	2·8 1953	10·9 1957	37·2 1953	1·1 1950	16·4 1963	38·9 1953	8·2 1960	34·5 1957	42·6 1958	15·0 1955	23·1 1957	43·3 1954	19·1 1963	17·3 1956	42·2 1953	15·0 1949	87·6 1959
Khandwa	35·6 1932	1·7 1946	49·5 1920	38·9 1953	0·6 1929	48·3 1928	43·3 1892	6·1 1898	27·4 1881	46·7 1958	11·1 1905	26·2 1891	47·2 1947	17·2 1881	71·1 1956	46·1 1923	18·2 1907	153·2 1940
Madhya Pradesh (East)																		
Satna	32·2 1946	0·6 1933	81·3 1955	35·7 1964	1·1 1905	49·3 1936	41·1 1945	4·4 1949	43·9 1893	45·0 1896	12·2 1918	52·8 1946	46·7 1947	18·3 1933	33·5 1914	47·8 1954	19·4 1929	562·6 1882
Rewa*																		
Sidhi	32·8 1959	1·0 1962	47·3 1961	35·6 1964	2·5 1964	34·4 1962	39·7 1959	6·1 1960	30·2 1963	48·8 1959	13·1 1959	9·6 1963	46·6 1959	17·0 1960	9·5 1964	44·7 1962	22·5 1963	57·0 1964
Umaria	34·4 1943	0 1933	61·2 1944	36·7 1954	0·6 1950	55·6 1950	40·0 1955	5·0 1945	43·4 1941	41·4 1942	12·8 1941	31·5 1937	45·6 1954	17·5 1960	27·7 1957	45·6 1945	20·0 1948	209·8 1916
Jabalpur	32·8 1946	1·1 1946	63·7 1919	37·2 1953	0 1905	55·6 1898	41·1 1892	3·3 1898	39·6 1927	45·0 1942	10·6 1905	50·3 1935	46·7 1954	17·2 1937	73·7 1885	46·1 1889	19·4 1922	185·2 1932
Ambikapur	29·3 1952	1·1 1954	21·8 1959	33·3 1954	3·9 1956	62·4 1961	38·3 1955	8·2 1957	27·6 1963	41·9 1961	12·8 1955	21·3 1951	43·3 1956	18·8 1960	51·1 1956	43·3 1955	19·8 1939	113·8 1961
Pendra	30·1 1958	3·3 1937	15·0 1933	34·4 1953	1·7 1929	42·9 1917	39·4 1955	8·9 1906	70·9 1956	42·8 1942	12·4 1961	67·8 1926	43·9 1928	17·8 1933	55·9 1925	43·9 1942	16·7 1915	242·1 1946
Mandla	30·6 1961	0·6 1954	38·3 1953	35·6 1953	2·7 1957	42·2 1961	39·4 1955	7·0 1962	29·7 1951	43·6 1961	11·1 1956	19·3 1951	45·0 1954	16·2 1960	20·1 1956	44·4 1959	19·5 1963	112·0 1951
Champa	32·2 1950	6·2 1963	64·0 1945	36·7 1953	3·3 1950	43·6 1961	41·7 1955	13·2 1957	88·1 1951	45·0 1952	18·1 1961	16·4 1962	47·2 1948	19·9 1963	37·6 1956	47·2 1953	21·5 1961	130·8 1963
Raigarh	33·3 1955	6·8 1963	39·4 1951	37·5 1964	9·4 1956	26·6 1958	42·2 1955	13·0 1960	61·0 1951	45·0 1964	16·8 1963	29·2 1951	46·7 1956	20·2 1963	40·4 1956	47·2 1955	19·5 1963	190·8 1961
Raipur	35·0 1955	5·0 1909	55·4 1921	37·8 1899	5·0 1894	57·4 1917	44·3 1892	8·3 1898	55·9 1906	46·1 1942	15·0 1905	38·3 1909	47·2 1935	14·4 1904	80·3 1904	47·2 1931	16·1 1884	197·6 1919
Kanker	32·8 1931	3·9 1946	53·3 1943	36·0 1964	3·9 1934	52·8 1950	40·0 1942	10·0 1948	48·3 1957	43·3 1942	15·6 1944	44·2 1951	44·4 1953	17·8 1945	45·7 1932	46·1 1931	17·8 1936	245·9 1940
Jagdalpur	33·1 1957	2·8 1946	40·6 1926	36·7 1953	5·0 1943	120·4 1919	40·6 1953	9·4 1948	45·7 1927	43·1 1941	13·9 1943	59·6 1964	46·1 1912	17·2 1917	61·3 1925	44·4 1953	17·2 1913	133·1 1940
Gujarat Region																		
Deesa	35·6 1932	−2·2 1935	28·2 1940	40·6 1953	−0·6 1929	31·5 1911	46·1 1892	5·6 1905	24·1 1911	46·1 1958	10·0 1905	21·1 1923	50·6 1912	17·8 1920	68·8 1920	48·3 1897	20·1 1961	102·4 1956
Radhanpur	33·6 1961	1·0 1962	0·3 1961	37·0 1964	5·6 1961	0·7 1961	42·3 1959	6·3 1960	0·2 1962	44·2 1964	15·1 1962	1·4 1962	45·3 1959	17·2 1960	0 ..	42·9 1962	19·5 1960	40·2 1961
Idar	33·0 1961	4·8 1962	5·8 1957	36·2 1960	8·5 1964	2·0 1961	41·9 1959	9·4 1960	3·0 1962	46·6 1958	15·7 1958	21·1 1959	44·9 1962	20·9 1964	3·2 1962	43·3 1958	20·6 1958	96·2 1963
Ahmadabad	36·1 1912	3·3 1964	30·7 1948	40·6 1953	2·2 1920	26·4 1917	43·9 1908	9·4 1908	12·2 1940	46·2 1958	12·8 1955	21·6 1947	47·8 1916	19·4 1920	46·2 1917	47·2 1897	19·4 1920	130·8 1937
Dohad	33·9 1949	0 1935	11·9 1953	39·4 1953	2·2 1950	20·6 1942	41·7 1945	9·4 1945	22·3 1944	45·4 1958	15·0 1935	15·2 1946	45·0 1932	17·5 1964	122·7 1938	44·4 1945	19·6 1961	166·4 1945
Vallabh Vidyanagar	33·4 1964	2·0 1964	0 ..	37·6 1964	6·2 1964	0 ..	40·2 1964	11·6 1964	0 ..	43·9 1964	17·7 1964	0 ..	44·5 1964	22·7 1964	0·1 1964	42·6 1964	24·8 1964	9·6 1964
Baroda (Aerodrome)	35·6 1952	2·8 1952	14·0 1953	40·6 1953	3·9 1950	6·0 1961	42·4 1959	10·9 1957	10·0 1962	45·2 1958	14·4 1955	0·6 1959	46·1 1955	19·9 1960	40·9 1956	43·3 1953	21·2 1957	92·3 1961
Baroda	36·2 1961	−1·1 1935	15·2 1953	41·7 1953	1·7 1950	31·7 1933	43·3 1959	6·7 1936	10·4 1954	45·9 1958	11·7 1955	71·4 1947	46·7 1960	18·9 1939	71·4 1947	45·6 1945	21·5 1957	129·8 1958
Broach	36·9 1961	4·0 1962	7·9 1953	42·8 1953	5·8 1961	11·3 1961	44·2 1959	11·5 1957	14·0 1954	45·6 1956	16·1 1955	17·0 1959	47·8 1955	21·2 1957	30·5 1956	44·4 1953	19·8 1959	109·2 1954
Surat	38·3 1952	4·4 1929	43·7 1920	41·7 953	5·6 1929	38·1 1898	43·9 1945	10·6 1908	8·1 1954	45·6 1952	15·0 1903	97·8 1947	45·6 1856	19·4 1888	48·8 1917	45·6 1901	20·2 1962	260·1 1922
Saurashtra and Kutch																		
Bhutakia Bhimasar**	33·6 1961	6·0 1960	0 ..	33·5 1961	9·0 1961	6·5 1961	39·6 1961	10·5 1960	0 ..	43·3 1961	18·6 1960	0 ..	44·6 1961	21·8 1960	8·0 1961	43·9 1961	22·0 1961	31·0 1960
Naliya	33·4 1963	1·2 1962	5·5 1961	36·2 1963	4·4 1961	21·4 1961	42·2 1959	8·0 1960	0 ..	42·0 1961	13·5 1961	0 ..	44·6 1959	16·4 1960	0 .	38·2 1959	23·0 1961	65·8 1961
Bhuj (Rudramata)	32·4 1958	2·6 1962	2·7 1959	37·2 1955	4·3 1957	16·4 1961	41·3 1959	9·3 1960	4·3 1958	44·8 1958	13·9 1955	0 ..	45·6 1955	18·1 1960	29·2 1955	42·0 1958	22·6 1961	49·6 1967
Kandla Aerodrome	31·7 1964	2·9 1962	1·6 1964	36·2 1964	8·5 1964	0 ..	40·5 1964	10·9 1962	0 ..	44·0 1964	17·5 1962	1·0 1962	44·3 1963	20·7 1962	1·1 1961	40·9 1964	19·4 1964	50·3 1961
New Kandla	31·7 1958	8·3 1962	5·1 1958	34·4 1964	7·7 1957	16·2 1961	40·4 1959	13·7 1960	3·8 1955	42·2 1956	18·3 1955	0·2 1963	43·3 1956	22·1 1957	3·1 1957	38·3 1963	22·8 1961	105·9 1956
Mandvi	31·3 1962	5·6 1962	4·1 1959	35·6 1955	8·9 1957	0 ..	38·1 1959	11·3 1961	3·0 1960	41·1 1958	15·0 1956	0 ..	42·6 1959	21·1 1957	0 .	35·0 1955	20·0 1964	55·0 1961
Surendranagar	33·7 1958	5·7 1964	2·0 1957	38·3 1955	7·4 1957	8·9 1961	42·8 1959	12·9 1957	0 ..	45·1 1958	13·9 1955	24·3 1959	46·7 1955	22·1 1964	19·0 1964	44·9 1958	22·8 1962	61·2 1955
Okha	28·4 1963	14·4 1964	0 ..	29·7 1963	17·0 1964	0 ..	34·0 1963	19·9 1964	0 ..	32·7 1964	22·9 1964	0 ..	33·3 1964	25·0 1964	0 ..	33·4 1963	20·4 1964	45·4 1964
Jamnagar (Aerodrome)	33·9 1933	1·7 1935	19·8 1929	37·2 1926	2·2 1929	29·5 1906	40·0 1946	8·3 1905	38·6 1904	42·8 1901	12·8 1903	19·3 1915	44·4 1903	16·7 1918	92·7 1933	43·9 1927	17·2 1917	337·8 1920
Dwarka	34·0 1957	6·1 1929	20·3 1919	35·6 1920	8·3 1901	64·0 1906	38·3 1958	7·8 1905	47·5 1911	41·1 1932	17·2 1903	24·4 1915	42·7 1959	20·0 1909	7·6 1933	37·8 1951	22·0 1961	230·9 1956
. . . .	36·1 1932	−0·6 1935	13·2 1935	40·0 1953	1·1 1893	21·3 1888	43·9 1892	6·1 1905	21·6 1911	44·4 1949	10·0 1903	29·2 1947	47·8 1919	16·1 1907	17·3 1917	45·0 1897	20·0 1913	218.9 1893

*Observatory Started from 2/12/1964.

**Observatory closed on 1-4-1964.

HEAVIEST RAINFALL (MILLIMETERS) IN 24 HOURS BASED ON DATA UPTO 1964 (1885-86 SAKA)

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Madhya Pradesh (West). —*Contd.*
35·3 1962	20·0 1959	91·4 1954	33·3 1950	18·2 1957	101·8 1961	34·9 1957	16·3 1957	151·1 1955	36·1 1949	9·7 1960	75·2 1955	31·6 1963	5·6 1956	120·7 1956	31·1 1963	3·3 1955	90·2 1962	1949 ..	1949 ..	Chhindwara.
37·8 1931	17·8 1941	276·1 1929	35·6 1899	17·2 1917	281·9 1913	35·0 1944	16·1 1942	208·0 1947	36·1 1899	10·6 1910	124·5 1916	33·9 1899	5·0 1912	116·8 1946	31·7 1899	3·3 1936	103·4 1962	1881 ..	1881 ..	Seoni.
35·6 1959	19·3 1959	145·2 1960	32·2 1950	13·9 1951	127·8 1953	32·8 1960	16·9 1960	265·0 1961	33·9 1952	8·3 1952	92·7 1951	32·2 1948	4·5 1964	90·7 1956	31·7 1960	3·3 1955	40·4 1962	1948 ..	1948 ..	Betul.
40·0 1900	18·9 1959	240·5 1927	39·4 1951	17·4 1960	203·2 1957	40·6 1899	17·8 1942	218·6 1959	40·6 1899	9·4 1890	146·6 1924	37·2 1951	6·0 1964	84·8 1936	34·5 1960	2·8 1929	95·8 1886	1881 ..	1881 ..	Khandwa.
																				Madhya Pradesh (East).
45·0 1931	17·8 1929	209·5 1894	36·7 1911	21·1 1954	299·7 1919	37·2 1932	16·7 1912	178·1 1951	38·3 1896	10·0 1890	152·4 1882	35·5 1957	5·0 1941	84·6 1956	32·9 1963	0·4 1961	47·7 1929	.. ..	.. ..	Satna.
															30·4 1964	3·2 1964	0	1964	1964	Rewa.*
41·1 1963	21·1 1959	195·0 1961	36·6 1963	18·9 1959	131·0 1961	38·8 1963	19·8 1962	65·4 1961	36·2 1963	12·2 1964	52·0 1964	33·9 1963	5·0 1960	8·4 1963	31·2 1960	1·4 1964	18·5 1961	1959 ..	1959 ..	Sidhi.
39·6 1958	20·4 1961	179·8 1959	35·0 1945	20·0 1951	302·0 1953	35·6 1958	17·8 1944	132·3 1964	35·2 1957	9·4 1933	85·5 1961	35·0 1963	3·9 1937	79·5 1946	31·7 1941	0·5 1961	41·1 1940	1932	1932	Umaria.
41·7 1902	20·6 1930	342·9 1915	35·0 1951	18·3 1929	320·5 1923	35·6 1913	16·7 1899	251·7 1926	36·7 1941	7·8 1881	121·9 1916	34·0 1963	3·9 1889	93·5 1956	32·8 1941	0·6 1902	68·1 1885	1881	1881	Jabalpur.
37·1 1958	20·0 1963	144·2 1962	34·3 1963	20·7 1958	137·6 1960	33·9 1959	17·2 1962	90·0 1961	33·3 1957	9·4 1954	206·0 1961	30·0 1963	4·4 1952	9·2 1964	29·0 1962	1·7 1955	10·4 1962	1950	1950	Ambikapur.
37·2 1954	18·3 1942	166·6 1953	32·8 1925	18·3 1910	262·1 1953	32·8 1938	16·7 1912	150·4 1926	33·9 1920	11·7 1933	91·4 1915	31·7 1909	6·1 1926	58·4 1924	30·0 1941	3·9 1936	37·1 1906	1906	1906	Pendra.
38·9 1958	20·0 1963	210·4 1959	33·6 1958	19·9 1957	157·8 1957	34·0 1960	17·4 1957	148·1 1955	35·0 1951	7·8 1952	121·4 1951	32·2 1957	3·3 1950	65·8 1956	31·2 1960	1·1 1955	166·4 1962	1950	1950	Mandla.
39·4 1954	20·4 1963	317·2 1917	35·1 1957	21·5 1961	260·4 1963	35·0 1954	20·3 1963	103·0 1961	36·2 1957	15·4 1960	68·4 1964	33·3 1946	9·6 1960	41·1 1956	32·1 1963	7·2 1961	19·6 1962	1945	1945	Champa.
38·4 1958	21·0 1963	261·0 1958	35·1 1957	21·6 1963	195·0 1960	35·7 1957	20·4 1963	212·0 1961	36·2 1957	14·6 1960	74·2 1959	33·5 1963	10·4 1960	6·0 1961	33·0 1962	6·4 1959	6·1 1954	1950	1950	Raigarh.
38·9 1941	20·0 1884	213·1 1884	36·7 1884	20·0 1939	370·5 1910	37·2 1899	18·3 1902	148·6 1905	37·8 1899	13·9 1933	148·6 1900	35·6 1935	8·3 1883	70·4 1930	32·2 1941	3·9 1902	52·1 1909	1881	1881	Raipur.
35·7 1962	18·9 1940	289·1 1951	34·9 1917	20·0 1939	195·3 1939	33·5 1959	18·9 1950	257·3 1936	34·5 1957	11·7 1954	112·8 1938	32·8 1946	7·2 1950	58·4 1950	32·1 1963	3·9 1934	17·8 1940	1931	1931	Kanker.
35·6 1920	18·3 1958	180·9 1934	33·9 1922	16·7 1920	203·2 1931	35·0 1913	17·8 1950	163·8 1911	34·4 1913	11·1 1941	136·9 1938	33·3 1946	5·6 1912	102·9 1924	32·2 1946	3·9 1945	41·6 1962	1911	1911	Jagdalpur.
																				Gujarat Region.
43·9 1902	19·4 1887	252·2 1908	41·1 1902	21·1 1948	306·1 1907	42·2 1951	17·2 1912	349·5 1893	42·8 1925	10·6 1889	92·7 1917	38·4 1964	5·0 1938	28·7 1896	36·1 1935	1·7 1903	14·0 1927	1881	1881	Deesa.
41·7 1963	19·5 1959	152·0 1961	38·6 1964	15·7 1964	66·2 1960	40·5 1960	13·7 1964	207·0 1959	39·8 1964	12·8 1961	51·1 1959	38·0 1964	9·5 1964	19·0 1963	34·5 1963	4·3 1964	1·5 1960	1959	1559	Radhanpur.
39·4 1962	20·4 1958	307·0 1958	35·4 1964	21·3 1958	96·8 1964	39·0 1960	18·3 1963	191·4 1963	38·9 1960	11·0 1961	39·2 1959	36·8 1964	10·0 1964	18·8 1963	34·3 1963	8·7 1964	2·0 1957	1957	1957	Idar.
42·2 1902	20·1 1908	414·8 1927	38·9 1911	21·7 1929	150·6 1906	41·7 1951	19·4 1962	257·8 1950	42·8 1920	13·5 1964	52·8 1917	38·9 1901	9·4 1950	53·3 1947	35·6 1899	5·4 1964	14·0 1927	1896	1896	Ahmadabad.
45·0 1963	20·6 1964	230·3 1958	36·1 1932	21·0 1963	295·4 1933	38·9 1951	17·4 1963	265·4 1945	40·0 1951	11·7 1935	77·0 1954	36·4 1960	8·9 1938	65·4 1958	34·5 1962	5·0 1936	7·4 1931	1931	1931	Dohad.
34·9 1964	21·1 1964	71·7 1964	35·2 1964	23·8 1964	48·1 1964	37·0 1963	18·9 1963	34·4 1964	37·6 1963	12·1 1964	27·6 1963	37·4 1964	8·3 1964	39·1 1963	35·2 1963	5·8 1964	0 ..	1963 ..	1963 ..	Vallabh Vidyanagar.
38·7 1960	22·2 1952	162·0 1963	35·8 1962	21·7 1956	277·1 1956	41·1 1951	20·2 1963	148·9 1958	41·1 1951	12·8 1960	71·1 1954	38·8 1964	9·2 1960	61·4 1962	35·0 1952	6·6 1964	6·4 1962	1949 ..	1949 ..	Baroda (Aerodrome).
40·6 1962	21·1 1913	183·4 1941	37·2 1947	22·8 1953	250·7 1956	41·1 1951	18·9 1938	372·1 1945	41·7 1951	11·7 1955	138·4 1940	38·6 1964	7·2 1938	48·3 1934	36·1 1941	3·3 1937	4·5 1962	1933 ..	1933 ..	Baroda.
38·9 1960	22·7 1959	219·2 1964	35·6 1954	22·8 1952	217·0 1961	41·7 1951	21·0 1962	304·8 1954	41·7 1952	14·4 1954	85·0 1959	39·1 1964	10·9 1960	37·0 1963	37·2 1952	6·3 1964	2·0 1962	1951 ..	1951 ..	Broach.
38·9 1902	20·6 1889	459·2 1941	37·2 1932	21·1 1887	324·6 1964	41·1 1951	20·6 1884	389·4 1945	41·1 1952	14·4 1893	257·1 1894	39·4 1951	10·6 1881	148·3 1946	38·9 1953	6·7 1903	42·2 1933	1881 ..	1881 ..	Surat.
																				Saurashtra and Kutch.
37·9 1961	23·0 1961	67·5 1960	35·1 1960	23·7 1960	42·0 1960	40·4 1960	22·3 1960	0·2 1960	49·4 1960	17·8 1961	0 ..	36·0 1960	12·5 1960	0 ..	31·9 1960	10·0 1961	0 ..	1960 ..	1960 ..	Bhutakia Bhimasar.
38·2 1962	22·1 1959	262·9 1959	35·6 1964	22·2 1963	85·2 1964	37·2 1960	17·4 1964	240·1 1959	40·8 1963	11·2 1964	34·8 1963	38·2 1964	6·5 1963	28·0 1963	35·2 1963	0·6 1964	0 ..	1959 ..	1959 ..	Naliya.
40·3 1962	20·6 1954	467·9 1959	37·8 1954	22·7 1963	83·8 1961	39·7 1960	17·9 1962	78·0 1958	41·1 1960	12·9 1961	95·4 1959	37·2 1957	8·7 1960	24·3 1963	34·9 1963	4·1 1964	3·8 1962	1954 ..	1954 ..	Bhuj (Rudramata).
39·3 1963	23·1 1962	35·0 1961	37·4 1964	23·4 1962	76·0 1964	38·0 1964	18·3 1962	29·2 1963	39·9 1963	13·7 1961	11·2 1963	37·1 1964	12·1 1961	45·0 1963	34·0 1963	6·4 1964	0 ..	1961 ..	1961 ..	Kandla Aerodrome.
37·2 1963	22·4 1957	147·4 1956	37·2 1964	23·3 1956	185·9 1956	38·3 1957	21·8 1963	64·8 1953	40·7 1964	17·3 1961	24·0 1961	37·2 1957	14·5 1960	55·8 1962	32·8 1958	8·9 1964	0·8 1957	1955 ..	1951 ..	New Kandla.
37·6 1961	21·1 1956	168·0 1959	35·0 1964	22·8 1956	175·3 1956	36·4 1960	20·6 1960	61·0 1961	38·4 1960	17·3 1964	32·8 1956	36·0 1964	12·0 1964	28·0 1963	31·9 1963	7·5 1964	15·0 1958	1954 ..	1954 ..	Mandvi.
39·7 1962	22·8 1956	82·6 1959	36·9 1958	21·7 1956	198·1 1953	39·4 1960	21·7 1962	112·0 1958	39·2 1958	16·1 1960	40·8 1954	37·9 1964	11·1 1956	31·0 1962	35·1 1963	5·0 1955	1·3 1957	1953 ..	1953 ..	Surendranagar.
32·6 1963	23·9 1964	30·6 1964	32·1 1964	23·4 1964	71·1 1964	31·1 1964	23·1 1964	7·5 1963	34·1 1963	20·4 1964	69·2 1963	30·1 1963	19·0 1964	16·6 1963	29·6 1963	15·4 1964	0·5 1964	1963 ..	1963 ..	Okha.
39·9 1958	19·4 1950	335·0 1929	37·8 1954	20·6 1924	248·9 1954	41·7 1951	16·1 1923	133·3 1947	40·6 1952	14·4 1954	48·3 1963	37·2 1901	8·9 1938	49·5 1963	34·4 1955	3·9 1930	42·7 1929	1901 ..	1901 ..	Jamnagar (Aerodrome).
36·4 1958	22·2 1952	273·8 1933	33·4 1964	21·7 1908	302·3 1933	39·4 1929	22·2 1909	135·9 1921	40·0 1951	16·7 1949	138·4 1917	37·2 1901	12·2 1938	355·1 1951	33·9 1932	8·3 1903	28·5 1937	1901 ..	1901 ..	Dwarka.
40·6 1900	19·4 1941	375·2 1950	37·8 1947	20·6 1913	233·2 1900	42·8 1951	16·7 1912	184·7 1945	41·7 1925	12·2 1949	105·6 1959	38·3 1929	7·2 1917	99·8 1888	36·1 1886	2·8 1903	22·9 1929	1881 ..	1881 ..	Rajkot.

*Observatory started from 2-12-1964.

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Saurashtra and Kutch—(Contd.)																		
Bhavnagar Aerodrome	33·9 1952	6·1 1954	7·6 1953	37·8 1953	6·7 1957	30·0 1961	41·8 1961	11·9 1962	9·9 1954	43·7 1964	14·4 1955	0 ..	45·0 1955	21·5 1964	6·2 1960	43·3 1953	20·0 1954	61·7 1957
Porbander Aerodrome	35·0 1961	4·7 1962	7·2 1961	36·4 1964	8·7 1964	12·0 1961	40·6 1961	12·7 1962	0 ..	41·8 1961	18·3 1962	0 ..	39·0 1963	20·5 1964	0 ..	34·5 1964	[illegible] 1964	148·2 1964
Keshod	35·6 1961	3·6 1962	0 ..	38·0 1960	5·2 1961	10·0 1961	42·1 1959	11·5 1960	0 ..	44·0 1961	15·8 1960	0·2 1959	45·1 1959	19·9 1960	0·8 1959	38·6 1964	[illegible] 1959	87·3 1964
Mahuva	34·3 1961	5·9 1964	2·5 1953	41·1 1953	8·3 1961	2·5 1961	42·8 1956	12·5 1957	11·4 1954	45·0 1954	13·9 1955	1·5 1956	43·9 1956	20·0 1957	0·5 1956	40·6 1953	[illegible] 1955	179·6 1959
Veraval	36·0 1961	4·4 1905	12·9 1926	38·3 1953	4·4 1893	18·1 1961	42·8 1945	9·4 1892	19·1 1911	42·8 1954	13·9 1903	124·7 1947	44·2 1959	18·9 1909	123·2 1917	37·2 1954	20·0 1951	221·0 1940
Konkan																		
Dahanu	34·4 1957	8·3 1945	8·9 1948	37·8 1949	8·8 1961	3·6 1954	38·9 1946	12·8 1945	1·9 1962	40·6 1955	19·3 1957	59·9 1947	38·3 1944	20·6 1947	27·0 1960	38·3 1951	15·0 1948	378·00 1960
Bombay (Santa Cruz)	36·2 1961	7·4 1962	4·7 1962	39·4 1953	10·0 1950	18·0 1961	41·7 1956	14·1 1957	0·8 1951	42·2 1952	18·3 1951	1·5 1951	38·8 1959	20·6 1951	54·4 1951	36·7 1951	22·2 1954	305·6 1953
Bombay	35·0 1961	11·7 1935	49·3 1926	38·3 1949	11·7 1929	41·7 1917	39·7 1958	16·7 1905	34·3 1918	40·6 1955	20·0 1905	37·3 1947	36·2 1959	22·8 1951	126·2 1893	37·2 1901	21·1 1936	408·9 1886
Alibag	35·3 1958	9·4 1934	9·7 1948	37·8 1943	11·4 1961	34·5 1961	39·4 1945	15·6 1945	2·8 1940	40·0 1955	18·9 1937	8·4 1947	37·5 1960	21·7 1943	103·1 1938	34·4 1932	18·3 1945	255·0 1940
Bhira	36·9 1963	10·6 1964	0 ..	40·0 1964	9·3 1964	4·8 1963	43·9 1964	14·0 1964	2·4 1963	45·3 1964	17·0 1964	1·6 1963	42·5 1963	22·5 1964	18·0 1964	41·5 1964	21·9 1963	175·2 1964
Harnai	33·8 1964	15·6 1945	8·6 1945	35·0 1962	13·9 1950	1·4 1963	37·2 1946	16·1 1945	0 ..	36·1 1949	17·8 1950	31·5 1955	37·2 1955	20·0 1950	157·0 1956	34·4 1953	16·1 1945	281·8 1960
Ratnagiri	36·7 1912	12·2 1935	36·8 1941	38·3 1945	13·3 1901	32·0 1917	38·9 1922	16·1 1910	31·7 1900	36·1 1938	16·1 1905	25·9 1937	37·8 1883	21·7 1913	91·2 1893	35·0 1913	19·4 1939	309·9 1953
Devgarh	34·4 1952	15·6 1945	12·2 1947	35·9 1961	16·7 1961	1·5 1958	37·2 1948	18·7 1957	12·2 1947	37·2 1956	20·6 1953	23·6 1947	35·0 1954	20·0 1961	181·2 1961	37·2 1948	17·8 1945	276·0 1958
Vengurla	35·6 1955	12·0 1962	0·3 1959	38·9 1952	12·8 1950	2·8 1958	37·5 1960	15·0 1950	0·3 1954	40·0 1956	20·5 1961	17·0 1954	36·1 1949	21·8 1959	299·0 1959	34·7 1964	20·0 1956	333·3 1958
Panjim	36·2 1934	14·8 1949	25·3 1943	38·0 1962	15·1 1961	2·8 1956	39·0 1948	16·4 1962	10·0 1954	38·5 1956	18·1 1956	81·1 1937	36·0 1931	21·4 1962	232·8 1961	35·0 1945	20·0 1948	293·4 1951
Marmugao	34·4 1946	16·7 1945	31·7 1943	37·2 1943	17·2 1944	0 ..	37·2 1948	19·4 1935	4·6 1954	33·9 1947	20·6 1953	103·4 1937	33·3 1938	21·7 1955	307·1 1933	33·3 1948	17·0 1964	196·3 1954
*Dabolim Naval Air Station**																		
Madhya Maharashtra																		
Nandurbar	35·9 1958	8·1 1964	43·9 1955	40·6 1955	11·6 1964	0 ..	43·3 1956	14·2 1960	9·0 1963	45·6 1958	18·9 1955	41·2 1958	46·1 1955	20·1 1964	76·2 1956	42·8 1953	22·1 1964	80·0 1953
Jalgaon	35·6 1939	1·7 1945	29·6 1958	40·6 1953	3·9 1943	21·8 1941	43·9 1953	8·7 1960	23·9 1938	47·2 1958	15·6 1960	35·1 1951	47·8 1947	21·4 1962	115·1 1956	46·1 1953	21·1 1962	110·7 1956
Malegaon	35·0 1932	0·6 1935	38·1 1888	39·4 1953	−0·6 1929	43·4 1936	45·6 1889	5·6 1898	14·7 1915	44·6 1958	9·4 1905	27·0 1958	46·8 1962	16·7 1881	104·4 1903	44·4 1915	17·8 1932	111·0 1914
Deolali (Aerodrome)	33·5 1963	1·6 1962	3·8 1962	37·6 1953	−0·6 1950	1·8 1963	40·0 1953	7·2 1957	51·2 1963	42·8 1958	11·1 1955	43·2 1963	42·2 1955	17·8 1955	57·7 1951	40·0 1955	20·0 1952	67·5 1964
Ahmadnagar	36·1 1897	2·2 1945	51·6 1941	38·9 1897	2·8 1911	42·9 1894	40·6 1934	7·8 1892	88·4 1938	43·1 1958	10·6 1926	71·9 1937	43·7 1960	16·1 1917	119·9 1915	43·3 1920	18·3 1907	177·3 1931
Khandala	.. ..	.. ..	19·1 1940	.. ..	.. ..	15·2 1937	.. ..	.. ..	1·4 1963	.. ..	.. ..	58·0 1959	.. ..	.. ..	62·4 1960	.. ..	.. ..	312·8 1961
Poona (Aerodrome)	32·8 1964	7·1 1962	0 ..	37·8 1953	6·6 1961	0 ..	40·0 1953	10·6 1961	42·9 1954	42·5 1964	12·2 1955	26·2 1959	41·7 1952	15·0 1955	74·4 1960	40·0 1964	18·9 1953	123·6 1961
Poona	35·0 1938	1·7 1935	22·3 1948	38·9 1953	3·9 1934	16·3 1892	42·8 1892	7·2 1908	35·1 1954	43·3 1897	10·6 1903	51·1 1896	43·3 1889	13·9 1888	82·5 1927	41·7 1897	17·2 1920	131·9 1961
Jeur	33·9 1950	4·9 1962	0·5 1955	38·3 1953	5·0 1950	18·5 1952	41·1 1953	10·4 1957	23·2 1963	43·7 1958	14·4 1960	23·6 1957	43·6 1958	19·3 1964	81·4 1961	43·3 1953	18·9 1951	81·5 1953
Baramati	33·5 1964	6·7 1962	0 ..	37·4 1959	7·7 1961	0 ..	40·5 1959	10·8 1962	6·3 1958	43·5 1964	13·3 1955	22·6 1955	42·8 1958	19·4 1956	35·6 1959	41·9 1958	20·0 1956	74·4 1960
Sholapur	36·7 1897	4·4 1945	48·8 1943	39·4 1886	6·1 1911	34·3 1928	43·9 1892	12·2 1886	39·6 1893	44·4 1889	13·9 1905	48·0 1907	45·6 1939	16·1 1885	56·1 1952	45·6 1923	17·2 1922	143·3 1882
Miraj	34·4 1964	5·0 1945	46·4 1941	37·4 1961	6·7 1944	58·0 1963	40·6 1949	11·2 1957	11·4 1963	42·2 1942	15·0 1944	115·1 1937	42·2 1940	18·9 1937	108·2 1938	42·2 1934	18·4 1963	83·2 1959
Kolhapur	33·8 1964	8·7 1962	14·7 1947	37·4 1961	9·3 1961	12·0 1963	40·4 1959	12·8 1957	48·5 1948	41·7 1956	15·6 1955	51·2 1963	41·2 1959	18·3 1946	163·4 1961	39·4 1953	18·9 1956	101·1 1959
Marathwada																		
Aurangabad	37·2 1924	3·9 1945	51·6 1920	37·8 1953	2·2 1911	36·3 1894	42·2 1897	8·9 1898	23·4 1915	45·0 1896	10·0 1908	24·6 1937	45·6 1905	17·2 1924	75·5 1961	43·9 1923	17·2 1901	182·1 1953
Aurangabad (Chikalthan)	32·2 1964	3·3 1962	3·8 1959	37·2 1954	3·9 1961	5·2 1961	40·0 1955	7·1 1957	20·3 1954	43·6 1958	13·5 1963	8·0 1962	43·3 1964	17·3 1962	58·8 1961	42·2 1953	20·0 1954	94·2 1955
Parbhani	33·3 1955	4·4 1945	43·4 1926	38·3 1953	6·1 1949	34·8 1928	41·7 1953	11·6 1957	46·5 1927	45·0 1958	17·2 1955	39·8 1962	45·9 1964	20·8 1962	56·6 1916	45·6 1953	20·0 1951	87·9 1940
Nander	33·2 1964	7·0 1963	0 ..	38·0 1961	8·0 1963	5·4 1963	40·5 1964	14·2 1963	25·5 1961	45·5 1964	17·3 1964	69·7 1962	46·6 1964	22·4 1963	12·2 1961	43·3 1964	18·1 1961	54·5 1964
Bir	32·9 1961	6·2 1962	3·5 1962	37·1 1964	4·6 1961	5·2 1963	39·9 1964	11·0 1963	9·0 1962	44·6 1964	17·5 1964	33·0 1962	45·1 1964	19·4 1964	38·4 1962	41·4 1964	20·2 1964	72·0 1963
Vidharbha																		
Gondia	32·0 1961	6·7 1951	42·4 1948	37·2 1951	6·7 1950	48·3 1947	41·7 1953	11·7 1952	34·3 1951	44·6 1961	18·3 1960	25·9 1953	46·1 1954	21·0 1953	23·6 1962	45·6 1953	20·6 1959	216·7 1955
Nagpur (Sonegaon)	35·0 1900	3·9 1937	60·3 1960	38·9 1887	5·0 1950	51·6 1942	45·0 1892	8·8 1889	45·0 1881	46·1 1942	13·9 1905	59·4 1937	47·8 1954	19·4 1917	58·4 1909	47·2 1931	20·0 1919	315·0 1911
Amraoti	35·0 1889	6·1 1934	59.2 1911	38·9 1953	5·0 1887	51·6 1928	43·9 1892	8·9 1898	51.6 1957	46·1 1898	12·8 1905	66·3 1937	46·1 1898	12·8 1905	47·2 1887	46·7 1923	19·4 1916	155·2 1927

*Data available for printing from November, 1964.

July			August			September			October			November			December			Based on data from		
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	Sub-Division & Station
																				Saurashtra and Kutch (*Contd.*)
38·3 1952	21·0 1961	195·5 1957	36·8 1958	22·2 1958	117·0 1959	40·6 1951	21·0 1962	102·9 1954	41·7 1951	16·8 1964	141·0 1959	37·4 1964	12·2 1956	22·8 1963	34·6 1957	7·8 1964	3·0 1962	1950 ..	1951 ..	Bhavnagar Aerodrome.
35·2 1961	23·7 1963	205·4 1962	32·6 1964	23·6 1962	130·4 1962	36·7 1960	21·3 1962	91·5 1962	40·5 1963	15·3 1961	21·7 1961	37·7 1960	12·7 1964	36·2 1963	34·8 1963	10·4 1960	0 ..	196 1 ..	1960 ..	Porbandar Aerodrome.
36·4 1961	22·7 1963	312·5 1961	33·4 1964	22·0 1964	186·0 1964	37·6 1960	19·8 1962	166·8 1961	38·5 1960	13·6 1964	51·8 1963	37·8 1964	11·4 1964	12·5 1962	36·8 1963	8·0 1963	0·2 1959	1959 ..	1959 ..	Keshod.
35·6 1955	22·2 1961	167·9 1957	34·6 1962	21·1 1952	77·2 1957	37·5 1963	19·4 1963	99·9 1962	38·9 1963	15·1 1964	76·0 1959	37·4 1964	13·3 1953	15·9 1963	35·2 1962	9·4 1961	17·3 1954	1952 ..	1952 ..	Mahuva.
33·9 1902	20·4 1961	289·6 1945	33·5 1964	22·7 1960	270·0 1933	36·7 1955	20·6 1946	277·4 1926	39·4 1941	13·3 1949	173·7 1917	37·8 1951	10·0 1950	89·9 1896	35·6 1953	7·2 1950	25·7 1902	1891 ..	1891 ..	Veraval.
																				Konkan
35·0 1947	18·4 1960	431·0 1956	32·2 1964	20·6 1951	353·3 1945	36·7 1951	21·1 1954	481·0 1958	36·1 1960	17·2 1954	173·4 1959	37·8 1948	15·4 1964	256·4 1948	35·6 1952	11·1 1945	0·5 1954	1944 ..	1944 ..	Dahanu.
34·8 1960	21·8 1957	310·6 1953	31·6 1963	19·4 1950	256·0 1954	35·6 1951	21·1 1964	212·4 1962	37·0 1957	16·7 1952	117·1 1955	36·7 1964	13·3 1950	23·1 1957	35·7 1963	10·6 1949	25·9 1962	1949 ..	1949 ..	Bombay (Santa Cruz).
35·6 1902	21·7 1945	304·8 1923	32·4 1964	21·7 1943	287·0 1881	35·0 1929	20·0 1947	548·1 1930	36·6 1957	20·6 1954	148·6 1817	36·2 1957	17·8 1881	122·7 1927	33·7 1962	12·8 1929	47·8 1962	1881 ..	1881 ..	Bombay.
32·3 1960	20·0 1959	295·9 1953	32·9 1932	21·1 1949	204·0 1954	32·8 1951	21·1 1947	396·2 1949	37·2 1936	18·3 1954	309·8 1964	36·7 1941	15·6 1950	106·7 1948	34·8 1960	13·5 1949	49·5 1962	1931	1931	Alibag.
32·9 1964	21·7 1963	328·6 1962	32·0 1964	20·9 1963	239·2 1964	35·0 1963	19·6 1964	159·2 1964	37·0 1964	16·1 1962	59·4 1964	37·0 1964	12·1 1964	38·8 1964	37·5 1963	12·6 1964	23·3 1962	1962	1962	Bhira.
32·2 1948	17·8 1950	242·6 1948	32·2 1947	20·6 1950	176·0 1947	31·7 1951	21·1 1947	308·6 1949	35·2 1962	19·4 1946	182·2 1964	35·6 1951	18·3 1946	72·6 1946	34·3 1963	18·9 1949	88·5 1962	1944	1944	Harnai.
32·8 1900	20·6 1919	304·3 1900	31·1 1939	21·1 1931	204·2 1885	34·4 1896	20·6 1962	236·7 1938	37·2 1888	17·8 1903	221·0 1838	37·2 1918	15·5 1964	243·8 1912	36·1 1896	14·4 1954	74·6 1962	1881	1881	Ratnagiri.
31·8 1960	18·2 1961	215·2 1962	31·7 1948	19·4 1945	136·2 1964	32·2 1953	21·1 1945	235·2 1948	35·9 1960	19·4 1952	141·0 1951	36·1 1951	17·2 1952	67·1 1946	34·4 1953	16·1 1949	138·8 1962	1945	1945	Devgarh.
32·4 1960	1·7 1956	237·7 1951	30·6 1950	21·7 1956	177·6 1958	32·8 1952	20·7 1964	138·2 1950	35·8 1960	17·0 1962	122·4 1951	35·6 1962	14·1 1964	49·6 1962	35·8 1963	10·6 1954	74·2 1962	1949	1949	Vengurla.
34·5 1958	21·5 1959	248·6 1953	33·7 1945	20·4 1933	213·7 1958	33·9 1944	21·0 1964	129·5 1938	36·5 1946	19·0 1943	153·6 1952	36·8 1941	15·3 1964	64·5 1951	36·0 1941	14·1 1945	96·9 1962	1931	1931	Panjim.
31·7 1941	21·1 1964	259·1 1953	31·1 1947	19·3 1964	153·9 1950	31·7 1951	21·1 1946	175·5 1938	36·1 1936	18·3 1932	159·8 1952	35·6 1946	12·2 1946	72·1 1946	33.9 1947	17·2 1955	26·7 1933	1931	1931	Marmugao.
.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	37·2 1964	16·8 1964	17·0 1964	33·2 1964	18·4 1964	3·7 1964	1964	1964	Dabolim (Naval Air Station*).
																				Madhya Maharashtra.
38·3 1962	21·1 1952	167·5 1958	38·9 1954	21·1 1964	82·0 1959	37·2 1963	20·6 1963	124·5 1954	38·9 1952	15·1 1964	163·0 1964	37·6 1964	10·6 1964	35·8 1963	35·0 1953	10·6 1964	22·0 1962	1952	1952	Nandurbar.
39·9 1962	21·1 1938	110·7 1941	37·2 1947	20·0 1942	119·1 1942	38·9 1951	15·6 1942	111·8 1937	38·3 1951	9·5 1964	98·8 1943	36·5 1957	5·6 1950	59·9 1946	35·0 1953	1·7 1937	71·2 1962	1937	1937	Jalgaon.
37·8 1920	18·3 1953	158·5 1896	37·2 1899	16·1 1899	155·3 1897	38·3 1899	16·1 1942	132·1 1894	40·9 1964	10·6 1933	103.7 1885	39·4 1964	5·6 1910	105·2 1912	35·0 1896	2·8 1926	43·0 1962	1881	1881	Malegaon.
34·1 1962	20·0 1951	157·0 1952	33·3 1950	19·4 1956	143·3 1956	34·0 1963	16·2 1963	107·2 1962	35·7 1957	9·4 1954	54·6 1956	33·7 1964	5·4 196 4	62·5 1958	33·6 1963	5·0 1954	40·0 1954	1950	1950	Deolali (Aerodrome).
37·2 1955	17·8 1944	174·0 1911	36·7 1899	16·1 1913	147·3 1957	36·7 1912	14·4 1896	148·8 1902	37·6 1960	10.6 1914	89·1 1943	35·6 1898	5·6 1892	124·7 1948	33·5 1963	3·3 1926	69·1 1942	1891	1891	Ahmadnagar.
.. ..	.. ..	516·4 1958	.. ..	.. ..	175·0 1956	.. ..	.. ..	308·4 1942	.. ..	.. ..	263·7 1938	.. ..	.. ..	188·7 1948	.. ..	.. ..	16·0 1942	..	1933	Khandala.
34·8 1960	19·7 1963	103·6 1958	32·8 1964	17·2 1956	103·6 1956	37·2 1951	15·6 1952	60·7 1963	36·1 1951	12·7 1964	106·9 1951	33·3 1953	9·2 1964	76·2 1951	33·4 1963	7·8 1954	29·2 1962	1950	1950	Poona (Aerodrome).
35·6 1915	18·9 1920	130·4 1958	35·0 1950	17·2 1920	108·7 1956	36·1 1951	15·1 1964	132·3 1938	37·8 1899	9·9 1964	149·1 1892	36·1 1896	4·6 1964	96·8 1934	35·0 1896	4·4 1940	42·4 1942	1881	1881	Poona.
39·9 1959	17·9 1959	88·1 1956	37·2 1950	17·4 1957	94·2 1958	36·1 1951	15·3 1959	98·8 1964	36·3 1957	11·7 1964	58·1 1959	35·0 1959	6·5 1964	63·6 1959	5·3 1963	5·3 1959	43·2 1954	1950	1950	Jeur.
36·2 1960	20·2 1956	37·1 1956	34·5 1958	17·8 1956	106·2 1956	35·6 1955	16·8 1964	110·2 1962	36·2 1957	12·8 1954	75·4 1957	33·4 1964	9·0 1964	46·2 1956	32·2 1954	7·8 1959	14·0 1954	1954	1954	Baramati.
38·9 1912	18·3 1914	160·3 1907	37·8 1899	15·0 1956	191·0 1940	37·2 1899	17·5 1959	169·9 1895	38·3 1896	12·8 1882	125·5 1957	36·1 1915	7·8 1881	27·8 1896	34·7 1896	7·5 1945	97·5 1886	1881	1881	Sholapur.
35·0 1932	17·2 1945	61·0 1943	34·4 1941	17·8 1949	150·9 1932	35·6 1951	15·6 1935	93·7 1946	36·1 1942	12.2 1937	101·3 1956	34·4 1958	7·9 1964	114·1 1955	34·4 1941	7·2 1954	19·8 1933	1931	1931	Miraj.
32·6 1960	18·9 1955	151·6 1953	32·2 1950	18·9 1956	116·3 1956	35·0 1951	17·3 1962	81·8 1960	34·7 1957	13·9 1952	67·6 1953	33·7 1958	9·7 1964	105·7 1962	34·4 1963	8·9 1956	51·7 1962	1946	1946	Kolhapur.
																				Marathwada.
37·8 1897	18·3 1904	139·7 1916	36·1 1950	17·2 1935	134·6 1903	36·7 1896	16·1 1901	245·1 1891	37·8 1911	12·2 1903	124·6 1961	35·6 1896	7·2 1910	157·5 1946	34·4 1896	5·0 1902	92·7 1942	1896	1891	Aurangabad.
35·1 1964	18·9 1962	84·1 1953	33·3 1954	18·3 1956	69·3 1956	34·1 1960	15·5 1962	78·8 1958	35·2 1957	8·3 1952	94·5 1961	33·7 1964	4·6 1964	44·4 1958	33·6 1963	3·9 1964	28·4 1962	1952	1952	Aurangabad, (Chikalthan.)
37·8 1950	20·2 1963	171·5 1923	36·7 1950	19·4 1952	139·7 1934	35·6 1951	18·5 1959	217·2 1923	36·7 1946	10·0 1954	168·9 1955	33·9 1953	8·3 1956	115·3 1948	32·8 1953	6·7 1945	32·3 1937	1944	1916	Parbhani.
37·4 1961	18·3 1961	136·0 1961	34·5 1964	19·1 1961	142·6 1963	35·2 1963	20·0 1962	65·1 1962	35·6 1964	13·3 1964	61·8 1962	34·2 1964	7·5 1964	27·0 1962	33·4 1963	7·1 1964	32·8 1962	1961	1961	Nander.
35·9 1963	20·0 1963	61·6 1961	34·9 1962	20·2 1963	89·0 1962	33·8 1963	18·0 1962	63·2 1964	34·9 1964	11·5 1964	85·3 1961	31·9 1963	7·6 1964	42·3 1962	33·6 1963	6·0 1964	35·0 1963	1961	1961	Bir.
																				Vidarbha.
37·7 1962	21·3 1958	164·2 1959	34·4 1947	18·3 1953	179·6 1961	34·4 1951	20·6 1952	281·4 1961	35·3 1957	13·3 1952	106·7 1949	33·9 1957	8·9 1950	54·6 1948	32·9 1960	7·2 1955	104·0 1962	1946	1946	Gondia.
40·6 1897	19·4 1942	219·2 1898	37·8 1899	18·3 1939	200·7 1895	38·9 1899	18·3 1904	184·4 1962	38·3 1899	11·6 1960	164·6 1936	35·6 1899	6·7 1912	81·5 1946	33·9 1941	5·6 1936	61·0 1962	1881	1881	Nagpur (Sonegaon).
39·4 1931	18·9 1890	230·1 1888	36·7 1902	15·6 1944	168·1 1944	38·3 1899	17·2 1893	234·9 1933	39·4 1899	12·8 1889	90·2 1940	35·6 1899	8·9 1884	78·0 1931	33·9 1913	8·3 1937	35·6 1885	1881	1881	Amraoti.

*Data available for printing from November 1964.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURE (°C AND)

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Vidarbha—(*Contd.*)																		
Akola Aerodrome	33·2 1964	8·2 1963	2·4 1963	37·5 1964	9·1 1964	8·2 1963	41·7 1964	14·0 1963	8·4 1963	45·7 1964	19·0 1963	6·0 1964	47·0 1964	22·5 1963	4·5 1963	43·0 1964	20·8 1963	113·4 1963
Akola	36·2 1958	3·9 1937	49·0 1922	40·0 1953	2·2 1887	42·2 1907	44·4 1892	5·6 1908	38·6 1957	46·1 1942	11·1 1905	58·7 1937	47·8 1947	11·9 1960	44·7 1943	47·2 1923	20·0 1916	188·0 1955
Bramhapuri	32·0 1964	6·5 1962	30·6 1959	36·2 1958	7·8 1957	27·6 1961	40·6 1964	10·3 1962	47·5 1957	45·2 1964	16·7 1963	17·0 1957	46·6 1960	13·4 1962	43·7 1957	46·2 1958	20·5 1957	125·7 1964
Buldana	32·8 1956	9·2 1962	30·7 1955	36·7 1953	1·4 1950	25·4 1961	38·9 1953	13·5 1963	26·2 1955	42·2 1958	15·9 1962	31·0 1959	42·5 1964	20·0 1960	44·2 1961	41·7 1953	19·4 1955	89·0 1959
Yeotmal	33·3 1950	9·4 1954	36·0 1960	37·8 1953	7·2 1950	31·2 1950	41·7 1953	14·4 1957	29·7 1957	45·0 1964	16·1 1963	46·7 1952	46·1 1954	20·0 1955	50·0 1961	45·6 1953	17·1 1961	101·4 1953
Chanda	35·6 1900	2·8 1899	39·4 1924	39·4 1951	3·9 1905	94·2 1898	44·4 1892	7·2 1898	68·8 1893	46·1 1942	11·7 1905	65·3 1914	48·3 1912	18·9 1919	44·5 1903	47·8 1929	20·0 1919	182·4 1887
Pusad	34·1 1964	6·4 1962	5·0 1962	38·0 1962	8·3 1963	7·1 1963	40·7 1964	11·5 1961	22·2 1963	46·0 1961	18·2 1961	24·2 1962	46·0 1964	21·0 1961	25·2 1963	43·4 1961	21·1 1963	52·0 1963
Sironcha	33·4 1955	7·8 1951	7·1 1959	37·8 1953	9·7 1963	16·6 1961	41·7 1959	13·9 1952	95·0 1951	44·7 1959	20·0 1962	33·0 1962	46·7 1954	21·1 1955	28·4 1963	46·7 1953	22·2 1960	119·0 1959
Coastal Andhra Pradesh																		
Kalingapatnam	33·9 1911	12·1 1962	25·4 1908	37·8 1922	12·8 1918	83·1 1923	38·9 1946	16·1 1952	84·3 1940	41·7 1947	18·3 1930	63·5 1956	45·0 1923	20·6 1951	307·3 1914	43·9 1923	19·8 1960	188·2 1955
Vishakhapatnam	33·1 1958	10·5 1962	132·1 1908	36·7 1922	13·3 1956	64·5 1901	38·3 1956	14·4 1952	64·5 1926	40·5 1960	18·3 1930	86·4 1963	43·3 1953	20·0 1904	145·3 1955	44·4 1923	21·1 1920	166·1 1929
Kakinada	32·8 1950	12·0 1962	78·2 1921	37·8 1896	15·6 1918	45·0 1893	38·9 1934	17·2 1906	71·6 1905	42·8 1947	18·9 1942	61·0 1937	46·7 1934	21·1 1917	109·7 1911	47·2 1923	21·7 1940	303·1 1911
Nidadavole	33·2 1958	12·3 1962	4·0 1959	36·6 1959	15·0 1956	28·0 1961	37·9 1962	18·5 1964	35·7 1960	42·8 1956	19·1 1962	27·0 1962	48·9 1962	21·6 1959	57·7 1957	46·2 1958	21·1 1963	59·9 1956
Rentachintala	35·0 1964	10·6 1946	3·8 1948	39·4 1959	12·8 1949	21·3 1956	44·4 1953	15·6 1952	28·5 1950	46·1 1944	18·3 1937	69·1 1948	47·2 1948	18·3 1955	67·5 1940	47·2 1953	21·7 1917	101·6 1947
Gannavaram	34·4 1952	14·2 1962	8·4 1956	37·8 1954	15·4 1963	13·8 1961	43·3 1953	17·2 1952	46·7 1957	44·4 1956	20·6 1963	77·5 1963	46·7 1956	20·3 1964	46·8 1962	46·7 1953	20·6 1951	150·4 1960
Nagarjuna Konda	34·1 1961	10·9 1962	2·6 1961	38·1 1961	15·4 1962	31·6 1962	42·6 1961	20·9 1962	0 ..	44·4 1961	21·1 1963	21·1 1962	44·7 1963	22·6 1961	24·0 1962	42·8 1963	20·4 1963	125·5 1963
Masulipatam	35·3 1946	13·9 1945	76·2 1908	37·2 1927	14·4 1889	96·5 1901	42·2 1892	16·7 1906	150·4 1926	44·4 1892	18·3 1926	101·3 1912	47·8 1906	19·4 1893	82·5 1904	46·1 1924	20·0 1961	133·3 1915
Ongole	33·9 1946	14·0 1962	27·9 1953	38·3 1954	14·4 1945	47·0 1959	43·3 1953	18·3 1945	52·3 1951	44·4 1956	20·6 1950	81·1 1963	46·6 1964	16·1 1949	10·6 1949	46·1 1953	22·4 1961	81·4 1961
Nellore	35·6 1936	15·0 1946	94·2 1906	39·4 1927	16·1 1891	116·8 1928	43·9 1892	17·2 1910	39·2 1944	45·6 1895	20·6 1934	73·7 1900	46·7 1892	21·7 1917	185·9 1952	46·7 1894	21·1 1912	63·8 1905
Telangana																		
Ramagundam	34·6 1964	9·4 1953	10·9 1953	38·9 1951	9·4 1949	14·0 1961	42·8 1953	14·4 1952	21·1 1951	44·7 1961	20·0 1956	62·0 1961	47·2 1948	21·1 1949	65·5 1957	47·2 1953	21·7 1959	140·7 1953
Nizamabad	35·6 1928	5·0 1899	59·7 1943	38·3 1954	6·1 1911	72·4 1928	43·3 1928	11·1 1892	43·9 1950	44·5 1964	12·8 1905	76·2 1937	47·2 1923	18·3 1917	71·1 1922	46·1 1931	16·7 1902	216·6 1914
Hanamkonda	35·0 1921	8·9 1945	58·4 1924	37·8 1954	10·6 1911	82·0 1962	42·2 1953	15·0 1906	71·1 1928	44·7 1961	17·8 1957	83·6 1937	46·7 1928	17·2 1917	75·7 1940	46·1 1953	20·6 1927	197·6 1914
Hakimpet (Aerodrome)	31·0 1964	12·0 1962	0 ..	35·3 1959	13·5 1961	50·0 1962	38·3 1959	16·1 1958	31·2 1958	41·2 1964	17·7 1963	27·2 1963	43·3 1956	18·9 1957	32·2 1955	42·2 1953	19·9 1954	106·9 1955
Bhadrachalam	34·5 1958	8·4 1962	32·0 1961	38·3 1954	11·7 1956	18·0 1962	42·8 1963	15·6 1952	25·4 1954	43·9 1956	18·3 1956	30·0 1963	46·7 1956	21·7 1955	46·2 1962	46·8 1958	20·6 1954	109·2 1963
Hyderabad (Begampet)	35·0 1929	6·1 1946	93·2 1922	37·2 1951	8·9 1911	42·9 1912	42·2 1892	13·2 1957	103·1 1928	43·3 1941	16·1 1917	60·7 1935	44·4 1935	18·9 1964	65·0 1905	44·9 1931	17·8 1922	122·7 1914
Khammam	35·0 1950	9·4 1946	11·4 1941	38·9 1954	11·7 1943	39·6 1946	43·3 1953	16·1 1952	47·0 1944	45·0 1941	18·9 1945	63·0 1945	47·2 1917	21·1 1948	46·5 1948	46·7 1953	21·6 1961	92·7 1953
Mahbubnagar	32·6 1964	11·5 1962	0·3 1958	37·0 1961	11·7 1956	8·0 1962	40·0 1953	15·6 1952	43·4 1958	42·2 1956	19·2 1958	65·5 1957	43·8 1964	19·9 1962	79·3 1952	43·3 1953	20·6 1955	82·5 1961
Rayalaseema																		
Kurnool	36·1 1897	8·3 1891	41·1 1915	38·9 1899	11·1 1943	66·8 1928	41·7 1925	12·8 1921	50·0 1893	44·4 1896	16·1 1905	42·2 1957	45·6 1921	19·4 1955	165·6 1952	44·4 1898	20·0 1935	81·3 1901
Anantapur	34·1 1958	11·5 1962	5·1 1947	38·0 1964	13·3 1947	10·9 1947	40·6 1953	15·0 1951	25·9 1951	42·2 1956	18·3 1950	67·1 1956	42·2 1953	18·9 1951	79·6 1961	41·7 1953	20·6 1953	59·9 1957
Cuddapah	37·8 1897	11·7 1912	84·8 1896	40·6 1897	13·3 1964	51·6 1901	43·3 1903	17·0 1964	131·3 1915	45·0 1906	17·8 1907	116·6 1898	46·1 1906	19·4 1895	115·1 1940	45·0 1923	17·8 1944	152·4 1957
Arogyavaram	31·6 1958	10·6 1962	19·3 1947	35·0 1959	11·6 1960	22·6 1950	37·2 1953	12·8 1955	18·0 1957	38·4 1964	18·0 1963	50·0 1956	38·9 1947	15·6 1946	80·5 1951	37·6 1964	18·9 1957	69·6 1958
Madras State																		
Madras	32·8 1894	13·9 1905	212·9 1915	36·7 1927	15·0 1934	123·2 1929	40·6 1953	16·7 1908	64·5 1925	42·8 1908	20·0 1939	96·3 1945	45·0 1910	21·1 1886	214·9 1943	43·3 1948	20·6 1909	59·2 1931
Madras (Minambakkam)	31·0 1964	16·1 1950	78·2 1963	35·0 1950	16·2 1960	27·9 1955	40·0 1953	18·3 1954	21·0 1963	41·1 1956	21·1 1950	100·3 1951	43·3 1964	21·1 1952	244·3 1952	42·2 1953	21·0 1961	52·5 1961
Vellore	34·3 1964	11·7 1946	69·1 1922	37·8 1945	12·3 1960	67·3 1906	40·6 1953	14·4 1934	49·8 1915	43·9 1908	17·8 1950	83·1 1951	44·4 1906	19·4 1902	214·4 1943	42·8 1935	20·6 1922	94·2 1938
Tambaram (Aerodrome)	32·3 1964	16·7 1964	31·0 1963	35·1 1964	16·6 1960	42·2 1961	37·2 1961	19·8 1963	5·8 1963	41·3 1962	22·7 1963	19·6 1963	44·8 1964	22·0 1963	67·3 1962	42·1 1964	21·9 1961	78·7 1961
Tiruppattur	33·3 1959	10·5 1964	8·4 1961	37·2 1959	11·0 1964	20·3 1960	38·8 1961	14·0 1964	47·0 1960	40·2 1960	18·5 1963	29·4 1962	42·3 1964	21·0 1963	53·4 1962	39·1 1959	20·1 1962	64·4 1962
Mettur Dam R.S.	34·3 1964	16·0 1964	0 ..	35·7 1964	16·8 1963	0 ..	38·6 1963	20·9 1963	14·0 1963	40·4 1964	20·1 1963	54·1 1963	41·4 1964	22·8 1963	15·2 1964	42·0 1964	21·8 1963	20·6 1963
Cuddalore	31·7 1951	13·3 1894	131·4 1961	36·1 1898	14·4 1918	119·4 1930	38·9 1953	16·1 1898	183·1 1933	42·2 1908	19·4 1939	120·4 1939	43·3 1953	21·1 1950	572·0 1943	42·8 1905	21·1 1898	82·5 1921
Kallakkurichchi	34·3 1959	15·0 1950	58·0 1963	37·7 1959	15·6 1950	42·8 1950	31·7 1953	17·2 1951	58·6 1963	41·7 1956	20·3 1959	75·0 1962	42·8 1956	20·5 1963	165·9 1957	41·4 1958	21·5 1962	74·0 1963

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature.	Rainfall	
																				Vidharbha—(*Contd.*)
36·1 1963	21·3 1964	70·3 1964	34·5 1963	21·2 1964	76·5 1963	36·2 1963	19·0 1963	96·7 1964	36·9 1963	11·2 1964	81·3 1963	34·1 1964	8·4 1964	0 ..	33·8 1963	7·5 1963	0 ..	1963	1963	Akola Aerodrome.
40·6 1900	20·6 1941	168·5 1894	37·8 1950	18·3 1944	224·5 1900	40·0 1899	17·2 1904	365·4 1959	40·0 1899	10·0 1889	110.5 1887	36·1 1899	5·6 1912	112·3 1936	36·7 1896	3·9 1883	65·0 1885	1881	1881	Akola.
36·8 1962	18·7 1957	214·0 1960	33·5 1958	19·6 1957	117·0 1960	34·6 1960	19·4 1957	175·4 1959	35·6 1960	16· 2 1960	65·2 1960	34·0 1964	10·4 1964	54·0 1958	37·2 1957	8·3 1963	18·6 1962	1957	1957	Bramhapuri.
34·1 1952	18·9 1949	12 ·9 1953	35·0 1950	16·6 1959	129·8 1959	33·0 1960	17·9 1959	170·4 1958	33·9 1951	14·4 1957	161·5 1961	32·2 1957	11·7 1949	49·4 1962	32·8 1948	10·2 1963	19·6 1950	1948	1948	Buldana.
38·3 1950	20·0 1953	123·0 1959	35·6 1950	19·4 1955	165·6 1952	35·1 1960	19·6 1962	210·3 1959	36·1 1963	13·9 1952	85·9 1952	32·8 1957	10·0 1954	63·2 1962	34·0 1960	10·0 1950	29·9 1962	1949	1949	Yeotmal.
40·6 1897	17·8 1954	191·3 1887	37·2 1954	18·3 1954	179·6 1951	37·2 1899	18·3 1904	249·4 1959	37·8 1899	11·7 1882	164·1 1936	36·1 1950	7·2 1950	70·9 1881	33·9 1933	3·9 1883	54·6 1884	1881	1881	Chanda.
38·1 1962	20·3 1962	64·1 1962	34·8 1962	21·5 1962	245·3 1963	35·5 1963	19·4 1963	75·8 1964	35·4 1963	12·6 1964	95·4 1961	34·4 1964	7·8 1964	33·3 1962	34.7 1963	6·2 1964	27·3 1962	1961	1961	Pusad.
38·9 1951	21·1 1957	167·6 1960	36·1 1950	18·9 1954	247·4 1953	35·2 1957	21·7 1959	100·9 1959	36·9 1957	14·4 1954	115·8 1957	33·9 1957	10·6 1950	41·0 1961	33·0 1960	9·2 1960	80·1 1962	1950	1950	Sironcha.
																				Coast Andhra Pradesh.
33·9 1911	21·5 1963	205·7 1956	36·7 1923	21·4 1962	192·5 1912	36·7 1920	20·9 1961	310·6 1911	35·6 1961	18·3 1952	264·2 1962	33·9 1914	13·3 1926	280·4 1923	31·7 1951	12·2 1937	221·7 1909	1911	1906	Kalingapatam.
38·3 1903	21·3 1960	145·0 1951	38·2 1960	21·1 1907	121·4 1957	37·8 1939	22·2 1953	148·6 1914	36·8 1957	17·8 1952	293·3 1958	33·9 1942	15·0 1929	270·5 1923	32·8 1951	12.8 1959	191·3 1909	1896	1901	Vishakhapatnam.
41·7 1897	21·1 1938	127·0 1947	37·8 1902	21·7 1955	146·1 1947	37·2 1920	21·7 1958	285·7 1956	37·2 1907	17·2 1949	281·9 1936	33·9 1951	15·6 1910	276·3 1923	32·2 1899	13·9 1902	130·3 1882	1896	1881	Kakinada.
36·4 1962	21·9 1959	119·0 1951	34·5 1960	22·4 1957	66·5 1957	34·9 1957	21·5 1964	64·0 1961	36·5 1957	20·6 1964	146·3 1960	33·5 1963	51·5 1964	47·5 1957	33·1 1960	12·9 1959	17·2 1960	1955	1955	Nidadavole.
40·6 1952	21·7 1956	87·6 1953	39·4 1950	21·7 1953	103·0 1958	38·3 1946	21·3 1958	227·0 1964	38·1 1957	16·7 1950	153·2 1945	36·1 1951	12·2 1950	71·6 1956	34·7 1963	10·0 1936	53·3 1952	1936	1936	Rentachintala.
39·4 1952	21·5 1957	99·6 1956	36·7 1952	22·0 1959	84.6 1961	36·7 1957	18·2 1957	143·3 1954	36·1 1951	18·3 1952	134·1 1956	34·5 1951	16·2 1960	46·0 1956	33·9 1951	15·0 1952	10·7 1961	1951	1951	Gannavaram.
37·3 1963	23·2 1963	60·6 1951	36·3 1962	22·6 1961	42·6 1961	36·7 1963	22·8 1963	82·0 1962	36·3 1962	20·6 1961	135·0 1961	34·2 1962	14·3 1961	76·4 1962	32·2 1961	10·6 1961	10·4 1962	1961	1961	Nagarjuna Konda.
41·7 1897	19·4 1893	124·6 1934	38·3 1920	21·7 1952	135·6 1886	37·8 1888	20·6 1895	117·0 1962	37·2 1888	18·9 1895	502·4 1949	34·4 1891	13·9 1934	355·6 1938	32·2 1951	14·4 1937	159·3 1947	1881	1881	Masulipatam.
40·0 1952	21·2 1957	80·3 1956	38·5 1960	21·7 1956	66·0 1949	38·9 1952	21·6 1954	232·7 1949	39·4 1963	18·3 1947	184·9 1953	35·2 1959	16.7 1955	258·3 1946	33·9 1951	15·1 1959	87·4 1952	1945	1945	Ongole.
42·2 1930	22·2 1943	95·3 1950	40·6 1899	21·7 1912	75·2 1923	41·7 1899	21·7 1945	133·6 1909	39·4 1900	18·9 1895	444·0 1950	36·7 1915	16·7 1939	356·9 1936	35·0 1909	14·4 1895	139·9 1902	1891	1891	Nellore.
																				Telangana
40·0 1950	21·1 1950	119·9 1956	37·4 1960	21·7 1959	89·4 1953	37·3 1958	21·4 1959	106·0 1959	38·4 1957	15·6 1954	84·6 1947	35·4 1963	11·1 1952	70·2 1961	34·1 1960	8·5 1959	3·1 1952	1947	1947	Ramagundam.
40·0 1904	14·4 1911	298·0 1958	37·8 1899	17·2 1901	157·7 1944	37·2 1920	17·2 1903	251·5 1929	38·9 1951	11·7 1921	146·1 1939	35·6 1926	7·2 1929	80·0 1936	35·0 1920	4·4 1897	49·8 1918	1891	1891	Nizamabad.
43·9 1920	17·8 1911	227·8 1903	37·2 1920	19·4 1905	190·5 1924	38·3 1920	19·4 1904	304·8 1908	37·8 1920	15·0 1952	136·4 1957	34·4 1920	9·4 1904	92·7 1916	33·9 1920	8·3 1902	42·4 1929	1901	1901	Hanam Konda.
36·0 1963	19·4 1963	89·7 1963	33·2 1960	19·4 1958	141·2 1955	35·6 1956	17·8 1954	121·7 1954	33·5 1963	15·0 1954	67·3 1957	30·7 1964	12·2 1964	82·5 1962	32·0 1963	12·7 1962	51·3 1962	1952	1952	Hakimpet (Aerodrome).
39·4 1952	21·7 1954	73·9 1956	36·0 1960	21·1 1952	119·0 1959	36·6 1959	21·2 1961	90·0 1962	37·6 1957	15·6 1952	93·0 1963	34·6 1964	12·2 1953	44·5 1956	32·8 1958	9·8 1961	40·0 1952	1952	1952	Bhadrachalam.
37·2 1918	19·4 1964	109·2 1916	36·1 1950	19·1 1955	190·5 1954	36·1 1927	17·8 1942	153·2 1908	36·7 1896	12·2 1952	117·1 1903	33·9 1909	7·4 1964	95·5 1927	33·3 1930	7·2 1945	44·5 1918	1891	1896	Hyderabad (Begumpet).
39·3 1952	21·5 1959	299·7 1954	37·8 1941	20·2 1961	107·2 1950	37·2 1957	20·6 1942	152·4 1947	37·4 1957	16·7 1952	130·8 1941	33·9 1951	11·7 1941	86·4 1946	33·4 1960	10·0 1945	23·4 1960	1941	1941	Khammam.
36·8 1957	19·4 1952	104·4 1956	34·4 1953	20·0 1956	78·4 1961	34·4 1952	19·4 1954	103·0 1964	35·1 1957	16·1 1952	68·6 1952	32·7 1957	11·3 1964	32·5 1958	33·4 1963	12·2 1956	44·5 1962	1952	1952	Mahbubnagar.
																				Rayalaseema
38·3 1915	20·6 1903	152·1 1895	37·8 1899	20·6 1929	121·9 1955	37·8 1899	19·4 1892	200·1 1888	38·3 1898	13·9 1950	146·3 1916	36·1 1896	9·9 1964	80·5 1903	34·4 1929	6·7 1902	71·1 1906	1891	1886	Kurnool.
37·2 1953	21·8 1964	81·4 1960	36·7 1949	21·2 1957	77·5 1949	36·1 1957	19·4 1954	108·0 1959	35·2 1962	15·6 1950	78·5 1946	35·0 1959	11·8 1964	99·3 1948	33·2 1963	12·2 1951	31·0 1962	1946	1946	Anantapur.
40·6 1897	17·2 1943	103·9 1893	4·0 1899	19·4 1921	176·0 1910	39·4 1907	19·4 1920	174·5 1906	38·9 1922	16·7 1943	270·4 1958	36·1 1927	13·8 1964	104·7 1943	35·6 1930	10·6 1914	85·1 1883	1891	1881	Cuddapah.
34·6 1964	16·7 1952	100·1 1954	33·9 1951	18·1 1958	61·4 1958	33·9 1952	16·1 1949	88·7 1956	32·8 1948	15·0 1947	157·7 1951	31·1 1947	10·5 1954	53·8 1960	29·4 1951	10·6 1960	72·4 1946	1945	1945	Arogyavaram.
																				Madras State
41·1 1915	21·7 1947	116·3 1910	40·3 1918	20·6 1935	91·7 1959	38·9 1883	20·6 1884	100·3 1881	39·4 1920	16·7 1889	233·7 1888	34·1 1952	15·0 1901	236·2 1922	32·8 1909	13·9 1895	261·6 1901	1881	1881	Madras.
39·4 1951	22·0 1961	68·3 1954	38·9 1953	21·7 1957	82·2 1955	37·8 1952	22·2 1956	104·9 1956	36·7 1951	20·6 1952	142·5 1962	35·0 1951	16·7 1954	209·6 1960	31·7 1951	16·1 1949	113·8 1952	1949	1949	Madras (Minambakkam).
40·6 1902	20·5 1968	125·2 1910	39·4 1901	21·1 1952	106·2 1909	38·3 1908	20·0 1936	122·9 1921	37·8 1954	15·6 1911	170·9 1943	35·0 1952	13·9 1921	299·0 1930	33·9 1909	12·2 1950	152·9 1901	1901	1901	Vellore.
40·0 1953	22·2 1964	37·1 1951	37·4 1964	21·6 1964	85·0 1962	38·1 1963	21·7 1963	118·7 1964	37·2 1963	21·0 1962	112·6 1959	34·0 1962	17·2 1963	170·7 1959	32·2 1960	17·9 1962	72·4 1960	1959	1959	Tambaram (Aerodrome)
37·5 1963	19·7 1964	89·0 1960	37·6 1960	20·2 1962	77·0 1962	36·6 1961	19·2 1964	120·0 1960	35·4 1960	18·5 1960	88·7 1964	31·9 1962	13·0 1964	97·0 1964	31·8 1960	13·2 1961	31·0 1962	1959	1959	Tiruppattur.
37·5 1964	21·9 1964	63·5 1964	36·6 1962	21·4 1964	67·1 1964	37·6 1963	20·8 1965	80·3 1962	34·9 1964	21·0 1964	73·1 1964	33·2 1962	18·0 1964	40·6 1964	33·0 1964	15·6 1964	43·2 1963	1962	1962	Mettur Dam R.S.
40·6 1895	18·9 1911	100·8 1949	39·4 1923	20·6 1899	134·6 1892	38·3 1891	20·0 1899	135·6 1911	38·9 1899	18·9 1899	208·3 1895	35·0 1915	16·7 1901	309·7 1913	35·0 1895	11·1 1933	426·5 1931	1891	1891	Cuddalore.
40·0 1932	21·4 1964	108·7 1955	38·4 1959	21·0 1962	76·2 1964	38·4 1957	19·9 1962	118·0 1961	37·2 1951	18·9 1950	113·0 1956	36·7 1948	16·1 1954	260·9 1959	33·3 1950	16·1 1954	92·6 1963	1948	1948	Kallakkurichchi.

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madras State (*contd.*)																		
Salem	37·2 1925	12·8 1907	65·8 1943	39·4 1926	11·1 1907	65·8 1893	41·7 1892	14·4 1934	80·8 1884	42·8 1908	18·3 1887	95·5 1929	42·8 1931	18·3 1893	103·6 1930	42·8 1921	20·0 1885	115·6 1902
Coimbatore (Pilamedu)	35·9 1957	12·2 1949	21·3 1961	37·3 1959	13·0 1950	49·0 1950	38·7 1959	15·6 1949	17·0 1951	39·7 1961	18·3 1949	111·0 1958	39·4 1952	15·6 1949	69·3 1957	35·7 1939	18·3 1949	23·6 1959
Coimbatore	35·0 1887	11·7 1912	141·5 1900	36·7 1899	12·8 1910	64·8 1922	39·3 1959	15·6 1930	83·8 1915	40·0 1906	17·8 1899	54·9 1954	39·4 1952	16·7 1962	85·6 1930	38·3 1895	18·3 1893	132·6 1941
Nagapattinam	31·7 1899	16·1 1912	245·1 1923	35·6 1898	15·6 1834	125·0 1938	40·0 1953	16·7 1894	126·5 1923	41·7 1908	20·0 1894	151·1 1931	42·8 1898	20·6 1901	164·1 1930	41·7 1884	20·6 1882	79·3 1935
Tiruchchirappalli	35·6 1925	14·4 1884	114·8 1909	40·0 1906	13·9 1834	137·9 1891	42·2 1892	15·6 1896	80·8 1906	42·8 1896	18·3 1937	160·5 1889	43·3 1896	19·4 1955	183·1 1930	43·9 1888	20·0 1911	76·6 1964
Velaranniyam	30·6 1961	18·7 1964	65·0 1961	36·2 1934	19·4 1963	15·0 1962	35·0 1964	21·4 1964	154·1 1963	36·6 1964	22·8 1961	11·4 1962	39·5 1962	22·4 1964	26·6 1964	38·1 1963	20·9 1961	126·1 1962
Atirampattinam	32·2 1964	17·6 1962	83·2 1961	34·0 1964	18·8 1953	6·8 1962	35·4 1962	20·0 1961	10·6 1964	35·6 1961	22·0 1962	67·2 1962	40·0 1962	22·5 1963	46·2 1963	38·0 1963	23·0 1962	51·8 1962
Madurai	34·4 1936	15·6 1897	152·4 1921	38·3 1906	16·1 1834	188·0 1929	41·7 1882	17·2 1909	100·3 1947	41·7 1936	19·4 1909	166·4 1891	41·8 1964	17·8 1920	102·4 1961	42·2 1935	17·8 1897	105·4 1927
Madurai Aerodrome	33·3 1959	16·9 1964	54·6 1962	36·1 1959	16·5 1950	6·8 1959	38·0 1959	13·6 1959	62·8 1963	40·0 1964	22·2 1963	51·4 1960	40·3 1964	21·2 1961	66·4 1961	39·1 1960	22·8 1962	56·4 1964
Tondi	31·8 1960	18·9 1962	81·0 1961	32·5 1961	18·6 1950	16·0 1960	33·0 1962	21·6 1962	62·7 1963	34·1 1962	22·5 1961	28·6 1960	39·2 1961	22·7 1962	48·0 1962	39·2 1964	22·0 1963	57·0 1961
Pamban	33·3 1902	20·0 1956	127·5 1902	33·3 1906	19·4 1939	88·9 1902	35·0 1953	20·6 1959	63·0 1938	37·2 1930	20·6 1949	81·3 1954	36·7 1923	21·1 1891	102·6 1930	37·2 1913	20·6 1897	55·6 1940
Tuticorin	33·3 1955	18·4 1962	90·0 1961	31·1 1958	18·3 1956	41·2 1959	34·8 1961	21·1 1956	62·2 1957	38·3 1956	22·2 1961	126·0 1961	41·1 1956	21·6 1962	41·3 1958	38·9 1958	21·7 1960	11·4 1956
Palayankottai	33·9 1960	18·5 1957	292·8 1963	36·2 1957	19·2 1951	61·0 1962	41·7 1953	19·4 1951	83·3 1954	41·7 1956	22·2 1955	74·9 1947	42·2 1953	21·4 1962	83·6 1959	42·2 1953	20·4 1960	26·2 1964
Kanniyakumari	33·5 1962	21·4 1963	53·7 1961	33·4 1961	21·6 1953	27·0 1961	34·6 1963	23·1 1963	55·0 1961	35·3 1964	21·6 1961	59·0 1962	37·0 1964	22·2 1961	53·0 1962	34·2 1964	21·9 1961	49·4 1963
Coastal Mysore																		
Karwar	36·1 1954	13·6 1962	0·8 1958	38·1 1962	14·0 1951	0 ..	37·6 1963	15·8 1962	16·8 1954	38·9 1956	21·0 1957	41·4 1963	36·4 1964	21·3 1962	181·2 1962	34·0 1952	20·6 1958	214·1 1960
Honavar	36·5 1961	15·2 1964	18·5 1943	37·2 1943	14·2 1950	1·5 1947	37·8 1948	18·8 1964	19·8 1954	35·0 1956	20·6 1951	62·0 1956	35·0 1950	20·6 1943	238·5 1955	34·7 1963	21·1 1964	292·6 1946
Mangalore (Bajpe)	36·6 1957	17·0 1964	4·6 1963	35·4 1959	17·9 1950	0 ..	37·7 1958	20·1 1957	48·5 1963	36·6 1964	21·6 1961	43·2 1959	36·2 1964	20·6 1959	155·7 1961	34·3 1963	20·8 1958	251·2 1959
Mangalore	36·3 1961	16·7 1911	40·6 1943	37·8 1920	16·7 1911	73·1 1962	37·3 1958	18·3 1911	82·8 1946	36·1 1916	20·0 1954	117·1 1939	36·7 1921	18·9 1911	360·9 1909	34·4 1923	20·0 1920	252·0 1897
Interior Mysore North																		
Bidar	33·9 1925	3·9 1901	51·3 1906	37·2 1926	9·4 1950	29·2 1928	41·7 1910	12·8 1925	44·2 1960	42·2 1960	12·2 1918	110·5 1907	43·3 1931	6·7 1918	86·9 1943	42·8 1953	10·0 1918	184·9 1953
Gulbarga	36·1 1897	6·7 1937	42·4 1922	33·3 1903	10·6 1919	57·1 1929	42·8 1892	12·8 1910	76·0 1960	43·9 1923	13·3 1902	79·3 1907	45·0 1912	18·3 1892	124·7 1952	45·0 1923	12·8 1910	144·8 1928
Bijapur	39·4 1948	7·2 1945	89·1 1922	41·1 1943	8·9 1930	23·6 1928	41·1 1910	13·3 1910	39·9 1938	42·6 1964	16·1 1905	66·0 1933	43·3 1912	17·8 1940	90·2 1956	42·2 1923	71·2 1903	89·2 1959
Raichur	35·6 1897	10·0 1899	49·8 1926	38·3 1897	12·8 1929	49·3 1923	42·8 1892	16·7 1936	37·0 1963	43·3 1927	16·1 1936	95·8 1901	45·6 1928	18·3 1927	87·9 1952	43·3 1898	16·1 1896	118·1 1901
Belgaum	32·6 1959	8·1 1962	0·6 1963	36·3 1961	9·3 1961	24·9 1956	38·2 1959	10·0 1957	50·2 1964	39·5 1957	12·8 1955	69·1 1956	38·6 1959	17·7 1960	129·5 1955	36·4 1964	17·7 1958	132·3 1955
Belgaum (Sankra)	32·8 1956	10·6 1956	3·6 1963	36·0 1957	10·3 1951	15·5 1956	38·3 1953	9·4 1957	32·8 1960	40·0 1956	14·4 1955	0·6 1962	39·4 1953	17·2 1955	69·4 1962	38·3 1953	18·3 1956	94·2 1955
Gadag	34·5 1960	11·1 1951	21·1 1935	37·7 1961	11·1 1950	23·1 1963	40·0 1953	15·0 1940	61·7 1948	41·1 1941	17·2 1935	65·8 1963	41·7 1939	18·9 1952	81·8 1943	40·6 1953	19·4 1956	100·5 1963
Interior Mysore South																		
Bellary	36·7 1897	10·6 1891	46·2 1384	39·4 1897	12·2 1891	59·9 1917	42·8 1892	14·4 1885	26·7 1930	43·9 1909	16·1 1905	77·0 1956	43·9 1897	18·3 1890	162·3 1940	42·2 1915	18·9 1956	85·3 1915
Chitradurga	33·9 1900	11·1 1918	104·1 1918	36·1 1931	13·3 1917	88·9 1944	38·9 1925	16·1 1955	17·8 1915	39·4 1941	17·2 1904	105·7 1956	41·7 1931	16·7 1951	18·6 1955	37·8 1935	17·2 1906	118·4 1897
Shimoga	33·9 1964	9·0 1964	1·0 1953	37·8 1959	10·4 1950	3·2 1962	38·9 1953	11·7 1951	32·2 1963	38·7 1962	15·6 1962	114·5 1956	39·2 1959	18·3 1954	89·4 1957	36·1 1953	18·3 1956	114·4 1959
Agumbe	30·4 1964	6·2 1964	0 ..	33·0 1962	7·6 1963	0·4 1963	34·2 1964	10·7 1964	110·0 1963	34·8 1964	15·4 1963	18·0 1962	33·4 1963	17·0 1964	116·0 1963	30·6 1964	17·4 1963	514·0 1963
Bangalore	32·8 1953	10·0 1946	8·4 1947	34·4 1964	11·1 1940	32·3 1952	37·0 1964	12·2 1940	58·7 1936	36·1 1964	13·9 1952	102·6 1956	35·6 1952	15·6 1952	218·4 1955	32·8 1953	15·6 1943	172·7 1941
Hassan	32·2 1955	7·8 1899	59·7 1921	35·0 1906	8·3 1898	50·3 1941	36·7 1934	9·4 1898	57·9 1954	37·2 1942	14·4 1905	72·9 1899	37·8 1906	14·4 1923	143·8 1903	34·6 1964	16·1 1964	94·5 1941
Bangalore	32·2 1925	7·8 1884	65·8 1908	34·4 1926	9·4 1884	67·3 1901	37·2 1925	11·1 1834	50·8 1911	38·3 1931	14·4 1894	90·7 1939	38·9 1931	16·7 1945	153·9 1909	37·8 1926	16·7 1890	101·6 1891
Bangalore Aerodrome	31·2 1959	10·2 1964	13·0 1958	34·4 1959	11·0 1953	28·5 1950	36·6 1959	11·7 1950	18·5 1954	38·3 1960	17·0 1963	58·9 1953	37·1 1960	13·7 1949	68·6 1952	35·6 1953	16·7 1950	70·6 1949
Mysore	32·8 1936	11·1 1953	26·4 1926	36·1 1931	12·2 1916	59·4 1917	37·8 1931	13·3 1933	47·5 1923	39·4 1917	16·1 1918	133·3 1921	37·8 1936	15·6 1904	184·4 1957	37·2 1926	15·0 1936	68·6 1915
Kerala																		
Calicut	35·6 1952	17·2 1913	104·4 1909	35·6 1952	16·1 1925	150·1 1945	35·0 1954	19·4 1896	83·6 1933	35·6 1952	21·1 1938	143·3 1899	37·2 1920	20·0 1937	268·5 1932	34·3 1962	20·6 1956	250·2 1941
Palghat	36·4 1958	15·6 1946	31·5 1948	38·9 1959	18·8 1960	29·7 1952	41·4 1959	20·4 1959	78·7 1948	41·7 1950	20·4 1959	90·4 1954	40·8 1959	20·6 1955	236·2 1957	35·6 1948	20·6 1956	108·8 1961
Fort Cochin	33·6 1962	17·8 1929	133·3 1921	34·9 1960	19·4 1932	105·4 1899	34·4 1959	21·1 1954	125·8 1960	34·4 1962	21·7 1943	160·5 1956	34·6 1959	21·1 1939	253·2 1933	32·7 1958	20·6 1935	185·4 1900
Cochin (Naval Air Station)	34·3 1962	18·5 1964	37·1 1960	34·5 1960	19·0 1963	73·7 1956	34·8 1961	21·6 1959	66·8 1960	34·7 1961	21·1 1962	177·6 1956	34·6 1959	22·2 1958	189·3 1961	32·8 1958	21·0 1962	170·5 1958

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Madras State -(*contd.*)
40·6 1923	18·9 1887	125·5 1952	38·9 1885	19·4 1909	176·3 1939	38·9 1991	18·9 1887	250·2 1885	37·8 1918	15·6 1911	165·6 1916	35·6 1948	12·8 1901	121·9 1882	35·6 1926	12·8 1945	131·3 1884	1881	1881	Salem.
33·5 1958	16·1 1949	98·9 1964	33·6 1962	16·1 1949	52·1 1950	35·6 1955	16·7 1948	116·8 1950	35·0 1949	16·1 1948	76·2 1964	32·8 1952	14·1 1964	85·5 1960	32·2 1950	12·8 1951	92·4 1963	1948	1948	Coimbatore (Pilameolu)
35·6 1898	16·7 1911	103·6 1924	35·6 1889	17·2 1921	60·8 1964	35·8 1959	17·8 1954	75·7 1912	36·1 1918	15·0 1911	107.4 1891	34·4 1892	13·9 1901	104·7 1957	35·0 1899	12·2 1883	109·7 1930	1881	1881	Coimbatore.
41·7 1898	21·7 1936	113·0 1916	40·6 1898	20·0 1963	125·7 1900	37·8 1907	20·6 1897	78·7 1921	37·2 1908	20·6 1891	396·2 1930	35·0 1948	16·7 1951	365·5 1918	33·9 1909	16·7 1886	402·6 1963	1881	1881	Nagapattnam.
41·1 1921	21·1 1926	94·7 1916	40·6 1888	20·6 1935	109·7 1944	40·6 1929	20·6 1908	117·9 1963	38·9 1906	18·9 1891	319·0 1930	36·7 1923	16·7 1884	298·2 1939	35·6 1926	14·4 1883	135·6 1931	1881	1881	Tiruchchirappalli.
38·1 1963	22·1 1962	33·2 1961	37·7 1963	20·9 1964	56·4 1964	37·0 1963	20·2 1961	41·2 1963	36·0 1964	20·7 1961	157·2 1963	33·4 1964	17·0 1964	79·0 1962	31·6 1963	19·2 1964	209·2 1963	1961	1961	Vedaranniyam.
38·0 1963	22·5 1964	92·4 1964	37·2 1963	21·4 1964	56·4 1964	36·2 1961	22·3 1962	41·0 1964	35·4 1961	21·8 1961	86·0 1962	32·8 1963	19·4 1964	108·0 1964	32·0 1962	18·6 1964	222·6 1963	1961	1961	Atirampattinam.
40·6 1884	19·4 1891	124·5 1893	40·0 1891	20·6 1912	112·3 1910	39·4 1928	20·0 1908	154·2 1946	38·3 1934	18·9 1911	128·8 1909	36·1 1948	17·2 1909	169·7 1921	35·0 1951	16·7 1920	229·0 1964	1881	1881	Madurai.
38·4 1960	21·7 1960	72·2 1964	38·7 1959	21·9 1962	61·0 1962	37·2 1959	22·2 1962	57·6 1964	37·3 1959	21·0 1961	79·0 1964	32·6 1962	19·7 1962	76·3 1959	31·8 1960	17·5 1963	97·0 1964	1959	1959	Madurai Aerodrome.
38·2 1962	22·1 1960	39·6 1964	37·4 1962	22·4 1964	39·0 1963	38·2 1960	22·2 1964	77·0 1962	37·0 1960	22·0 1961	99·4 1961	33·6 1964	20·6 1956	63·0 1961	31·9 1960	19·6 1964	78·8 1964	1960	1960	Tondi.
35·4 1964	20·7 1959	130·8 1916	35·1 1963	22·2 1954	73·9 1937	35·0 1940	20·6 1930	108·5 1901	35·0 1940	21·1 1891	133·6 1932	33·3 1944	21·6 1957	137·7 1896	33·9 1906	18·9 1953	218·7 1955	1891	1891	Pamban.
37·9 1958	21·3 1964	66·1 1964	37·8 1957	21·2 1959	22·6 1962	37·9 1963	23·1 1964	12·2 1955	37·6 1959	21·3 1964	167·4 1957	34·4 1955	19·7 1959	135·6 1956	31·7 1955	18·4 1964	188·2 1955	1954	1954	Tuticorin.
38·4 1963	19·3 1960	34·3 1949	38·9 1953	22·4 1959	57·0 1958	40·0 1952	22·8 1954	40·6 1946	38·8 1960	21·2 1961	79·4 1961	36·4 1959	21·0 1961	95·7 1960	35·6 1952	19·8 1964	84·6 1963	1950	1945	Palayankottai.
34·1 1963	21·5 1964	41·8 1961	33·8 1962	21·7 1964	99·0 1963	31·1 1964	21·8 1962	23·0 1962	34·2 1963	22·5 1962	105·4 1962	32·6 1963	21·5 1963	124·0 1963	33·0 1964	21·4 1962	42·0 1963	1961	1961	Kanniyakumari.
																				Coastal Mysore
31·4 1960	21·1 1953	223·6 1961	30·2 1963	21·7 1955	136·7 1955	30·6 1955	21·1 1954	128·4 1960	35·9 1960	18·3 1952	175·3 1954	36·3 1962	15·6 1952	71·6 1955	36·0 1960	14·4 1956	49·2 1962	1952	1952	Karwar.
33·7 1964	20·6 1963	270·0 1959	31·8 1957	19·4 1955	160·3 1962	32·2 1951	20·4 1963	127·5 1954	37·2 1940	18·3 1950	132·1 1944	36·7 1941	15·6 1950	65·8 1957	37·2 1949	16·1 1945	25·1 1947	1939	1939	Honawar.
30·5 1964	21·0 1961	231·2 1959	30·0 1960	20·9 1957	146·2 1962	31·1 1963	20·9 1961	95·5 1959	34·0 1960	20·9 1960	113·8 1963	34·3 1959	16·1 1964	72·2 1960	34·6 1957	16·3 1960	68.4 1959	1957	1957	Mangalore (Bajpe).
35·6 1959	20·6 1931	268·2 1900	32·2 1932	19·4 1963	232·4 1931	31·7 1955	21·1 1950	184·7 1900	35·0 1963	19·6 1961	181·6 1913	35·6 1941	18·3 1950	112·1 1958	35·0 1928	16·7 1950	153·2 1933	1911	1881	Mangalore.
																				Interior Mysore North
36·1 1924	11·1 1900	245·9 1955	36·1 1924	9·4 1900	144·3 1947	36·7 1924	8·9 1918	203·2 1949	36·7 1901	8·3 1900	128·3 1903	36·1 1918	6·1 1900	138·4 1896	32·8 1923	2·8 1918	81·8 1906	1896	1896	Bidar.
38·3 1918	17·2 1920	108·5 1897	37·8 1899	18·3 1920	100·3 1910	37·2 1926	17·8 1954	147·3 1928	37·8 1899	10·0 1905	147·3 1893	35·6 1940	7·8 1945	64·8 1948	34·4 1920	5·6 1945	66·5 1906	1891	1891	Gulbarga.
36·1 1901	16·1 1902	176·0 1964	35·6 1902	16·7 1906	121·2 1954	36·7 1896	16·1 1901	143·8 1949	37·2 1896	12·2 1897	117·0 1964	35·0 1896	8·3 1904	113·0 1922	34·4 1959	6·7 1897	34·5 1942	1896	1896	Bijapur.
38·3 1915	17·8 1899	137·2 1959	37·8 1915	17·2 1908	107·7 1914	38·3 1897	17·2 1924	153·0 1964	37·2 1920	15·6 1943	158·7 1916	35·0 1920	11·7 1924	87·6 1919	36·1 1899	10·0 1945	52·1 1903	1891	1891	Raichur.
32·0 1960	17·8 1955	162·6 1958	29·9 1958	15·7 1957	110·0 1956	32·3 1962	16·3 1957	74·8 1959	34·0 1962	14·2 1962	101·6 1957	33·0 1958	9·3 1964	44·2 1957	34·6 1960	8·9 1956	19·4 1962	1955	1955	Belgaum.
31·9 1960	18·3 1956	112·0 1958	29·3 1962	15·6 1956	86·4 1956	32·0 .963	16·0 1957	59·8 1959	32·0 1963	13·9 1954	91·4 1957	31·0 1963	9·0 1964	66·9 1962	32·6 1963	7·8 1954	21·7 1962	1952	1952	Belgaum (Samra).
34·9 1960	18·9 1934	54·4 1932	34·4 1948	18·7 1957	80·0 1957	37·8 1951	17·2 1952	136·4 1960	34·7 1959	15·6 1950	171·5 1947	37·2 1947	12·2 1939	82·0 1959	34·1 1959	11·7 1948	56·4 1933	1931	1931	Gadag.
																				Interior Mysore South
33·3 1915	19·4 1930	102·9 1953	37·8 1883	19·4 1933	105·7 1950	37·8 1913	19·4 1919	127·5 1956	38·9 1896	15·0 1889	111·3 1904	37·6 1957	11·4 1964	162·1 1903	35·6 1913	10·6 1926	65·0 1962	1881	1881	Bellary.
34·4 1932	17·8 1943	114·8 1910	32·8 1932	17·8 1955	109·2 1939	35·0 1905	15·0 1910	95·5 1933	33·9 1905	15·6 1943	132·1 1930	32·8 1931	8·3 1945	87·4 1925	32·8 1930	8·3 1945	109·2 1933	1896	1896	Chitradurga.
32·4 1960	16·6 1963	111·0 1953	30·4 1958	16·1 1954	68·6 1964	33·3 1951	16·1 1952	45·7 1950	32·4 1960	11·7 1952	105·6 1960	33·3 1953	8·1 1964	55·1 1956	32·2 1963	8·9 1951	43·4 1952	1950	1950	Shimoga.
28·4 1964	17·4 1964	618·0 1963	26·3 1962	16·2 1962	195·4 1962	27·6 1964	15·2 1963	132·0 1962	30·0 1962	14·8 1963	91·0 1962	30·0 1964	9·0 1964	26·0 1962	30·8 1963	8·6 1963	91·0 1962	1962	1962	Agumbe.
29·1 1960	13·9 1955	219·2 1953	29·4 1947	16·1 1951	179·8 1949	30·6 1936	13·3 1935	83·3 1955	29·6 1963	12·8 1952	111·8 1960	29·6 1964	9·8 1948	99·3 1945	30·0 1945	8·3 1937	56·9 1937	1931	1931	Balehonnur.
31·1 1905	15·0 1918	82·3 1929	31·1 1932	15·6 1925	79·8 1897	32·2 1905	13·9 1906	104·0 1959	32·2 1905	11·7 1897	163·2 1958	31·1 1927	8·3 1904	115·8 1925	31·1 1926	6·7 1907	80·8 1906	1896	1896	Hassan.
33·3 1914	16·1 1882	111·4 1964	33·3 1899	14·4 1882	162·1 1890	33·3 1951	15·0 1883	124·7 1912	32·2 1934	13·3 1889	116·8 1935	31·1 1923	10·6 1889	114·5 1916	31·1 1926	8·9 1883	67·3 1941	1881	1881	Bangalore.
32·3 1960	16·1 1953	66·3 1952	31·1 1958	15·0 1948	79·6 1960	32·8 1951	15·6 1954	95·8 1958	32·1 1958	14·4 1950	169·2 1953	31·7 1953	11·2 1964	83·6 1950	30·1 1957	10·4 1960	20·8 1952	1948	1948	Bangalore Aerodrome.
33·3 1899	15·8 1961	71·6 1918	33·9 1899	16·7 1928	95·3 1910	33·3 1936	13·4 1959	129·3 1940	32·8 1905	13·9 1917	112·7 1963	32·2 1918	11·1 1901	105·2 1915	31·7 1923	10·6 1945	78·5 1952	1896	1896	Mysore.
																				Kerala
32·2 1931	21·1 1956	264·2 1922	32·2 1953	20·6 1950	204·5 1924	33·9 1952	21·1 1954	179·1 1955	34·4 1897	20·0 1917	204·0 1962	34·4 1929	16·1 1901	192·3 1925	34·8 1957	16·1 1895	115·1 1942	1891	1881	Calicut.
32·6 1960	20·6 1963	157·4 1964	31·7 1947	20·2 1964	109·5 1956	35·6 1955	20·6 1954	94·0 1962	35·0 1945	20·6 1954	107·4 1964	35·6 1952	17·2 1954	65·8 1948	34·5 1958	16·7 1945	89·7 1946	1943	1943	Palghat.
32·1 1961	21·1 1943	213·9 1910	32·2 1929	20·7 1964	155·7 1947	31·1 1955	21·1 1950	111·8 1936	32·2 1930	21·1 1943	236·2 1884	32·8 1953	19·4 1944	121·4 1920	34·4 1961	19·4 1945	154·7 1946	1926	1881	Fort Cochin.
32·2 1960	20·6 1956	153·0 1964	30·8 1964	21·2 1964	143·3 1960	31·4 1963	21·6 1961	93·1 1964	34·1 1957	21·9 1963	138·2 1957	33·0 1963	20·9 1964	69·9 1957	34·2 1957	18·8 1959	50·6 1959	1956	1956	Cochin (Naval Air Station).

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Kerala—*contd.*																		
Alleppey	35·0 1959	18·3 1957	38·1 1951	36·6 1963	18·7 1963	65·2 1959	36·7 1949	21.1 1955	69·9 1947	36·0 1961	21·1 1948	274·3 1950	35·6 1959	20·6 1955	160·0 1957	34·4 1948	21·1 1956	227·3 1948
Punalur	36·6 1959	15·7 1957	44·5 1958	37·8 1959	15·8 1959	37·2 1962	39·3 1959	17·9 1957	75·6 1964	37·9 1959	20·2 1957	81·4 1963	37·1 1957	21·3 1959	120·2 1961	34·7 1964	21·2 1962	165·0 1961
Trivandrum	35·5 1959	18·9 1950	63·7 1962	35·0 1955	18·9 1946	108·2 1962	36·2 1959	20·6 1956	80·0 1946	35·3 1960	20·3 1962	129·8 1937	35·2 1957	21·2 1960	277·9 1926	34·4 1953	20·0 1956	154·7 1944
Trivandrum Aerodrome	33·9 1953	17·7 1962	60·8 1961	33·5 1964	18·3 1956	83·2 1959	35·0 1956	20·0 1961	43·2 1958	34·4 1956	20·8 1962	82·3 1956	34·5 1959	21·6 1962	100·8 1960	32·9 1959	21·1 1956	146·4 1961
Arabian Sea Islands																		
Amini	36·7 1950	18·9 1912	74·2 1918	35·7 1959	19·4 1923	27·4 1953	37·2 1950	20·6 1950	32·0 1923	37·7 1960	20·0 1923	121·9 1901	37·5 1959	21·7 1941	161·0 1933	35·9 1958	21·1 1930	211·1 1909
Minicoy	32·8 1948	17·8 1953	126·2 1926	32·2 1948	17·2 1946	83·0 1961	33·4 1964	19·4 1955	54·6 1936	35·6 1942	21·1 1951	121·2 1950	36·7 1932	21.7 1956	213·1 1949	33·9 1935	21·5 1962	148.6 1926
Hill Stations excluding Kashmir																		
Dalhousie	21·7 1952	—5·0 1964	134·6 1950	29·4 1953	—8·0 1963	134·6 1949	30·7 1959	—0·6 1958	149·6 1959	29·8 1959	1·1 1955	112·3 1951	33·3 1952	5·0 1964	90·0 1964	35·5 1960	8·9 1952	182·0 1964
Dharmsala	21·7 1962	—0·5 1960	76·4 1959	25·0 1953	—1·6 1961	87·8 1959	28·4 1964	3·4 1960	73·2 1963	33·8 1958	7·3 1960	52·8 1957	36·7 1962	11·1 1951	86·6 1964	38·3 1958	14·5 1957	88·2 1959
Bhuntar	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	32·0 1964	5·3 1964	29·0 1964	34·2 1964	7·4 1964	44·4 1964	35·2 1964	10·6 1964	33·0 1964
Simla	18·9 1949	—10·6 1945	78·7 1888	20·6 1953	—8·3 1950	63·5 1908	24·5 1964	—5·6 1933	63·0 1901	28·3 1941	—1·1 1905	39·6 1890	30· 1944	4·4 1924	97·8 1883	30·6 1932	7·8 1922	122·2 1906
Dharmpur	.. ..	.. ..	105·2 1961	.. ..	.. ..	111·0 1961	.. ..	.. ..	104·1 1955	.. ..	.. ..	78·7 1957	.. ..	.. ..	56·9 1957	.. ..	.. ..	91·4 1953
Lokpal	—2·4 1959	—16·1 1955	77·5 1955	0·3 1960	—13·9 1957	75·0 1959	0·9 1959	—11·3 1961	60·4 1963	3·4 1961	—11·1 1957	34·3 1957	10·0 1956	—9·1 1963	38·6 1957	11·7 1960	—3·3 1955	37·0 1960
Badrinath	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	22·0 1960	6·1 1960	20·0 1958
Joshimath	18·2 1961	—4·4 1960	57·0 1961	21·1 1962	—3·9 1961	65·6 1964	27·7 1964	—3·5 1960	52·6 1962	28·1 1964	3·7 1959	23·8 1964	31·1 1960	9·3 1962	21·5 1961	32·5 1961	11·3 1962	80·0 1964
Mussoorie	21·1 1949	—5·0 1935	90·9 1943	23·3 1953	—1·2 1964	82·0 1949	26·1 1945	—2·5 1960	62·0 1944	28·9 1956	—0·6 1944	43·2 1942	34·4 1949	4·6 1964	50·0 1943	31·7 1935	4·1 1962	139·9 1936
Mukteswar (Kumaun)	19·4 1910	—6·1 1953	81·3 1945	23·9 1953	—7·8 1905	76·5 1905	25·1 1964	—3·3 1907	67·8 1914	27·8 1956	—1·7 1937	49·0 1919	29·4 1956	3·3 1920	71·4 1916	30·2 1961	6·7 1903	220·7 1921
Nainital	18·4 1958	—5·6 1953	77·5 1953	21·7 1953	—3·9 1961	72·0 1961	23·4 1964	—1·7 1960	70·0 1962	28·0 1964	3·9 1957	35·6 1953	27·8 1956	6·7 1964	208·3 1956	28·3 1953	11·1 1957	141·2 1956
Kalimpong	26·2 1961	0·6 1945	40·6 1957	26·2 1961	3·3 1945	45·0 1940	27·8 1923	4·5 1962	50·8 1962	30· 1939	8·3 1944	69·6 1948	30·9 1960	10·0 1955	122·4 1938	31·1 1960	13·1 1964	302·0 1950
Darjeeling	18·9 1952	—3·9 1953	134·6 1957	17·2 1955	—5·0 1905	42·9 1940	23·3 1935	—0·6 1908	72·9 1951	26·7 1910	1·1 1933	135·1 1916	25·7 1964	5·6 1939	232·9 1887	26·7 1902	8·3 1938	454·1 1950
Kohima	19·6 1959	4·3 1962	21·6 1957	23·6 1964	3·8 1959	19·6 1962	29·1 1959	7·1 1957	36·1 1953	32·2 1956	9·4 1957	33·6 1955	33·9 1959	12·1 1963	74·9 1956	29·5 1959	15·0 1953	105·9 1957
Shillong	21·1 1944	—2·8 1964	52·3 1957	24·4 1952	—2·8 1950	41·1 1914	28·9 1924	—0·6 1906	189·5 1929	30·0 1954	6·7 1946	117·9 1932	30·7 1960	5·6 1941	169·7 1914	29·1 1958	11·7 1930	415·3 1934
Cherrapunji	26·7 1913	0·0 1913	85·3 1929	28·9 1913	0·6 1950	91·9 1907	30·6 1913	0·6 1912	306·1 1910	28·3 1938	3·9 1911	462·3 1922	30·2 1962	3·3 1917	812·0 1916	29·2 1962	9·2 1963	973.8 1956
Abu	26·3 1961	—1·1 1929	37·9 1888	30·6 1953	0·0 1950	40·6 1906	33·3 1892	3·9 1945	27·2 1927	36·9 1958	10·0 1926	27·4 1959	38·7 1962	11·1 1892	92·7 1917	38·3 1897	13·9 1940	343·1 1945
Aijal	25·0 1954	3·9 1945	42·4 1945	278·8 1960	3·9 1950	37·6 1959	32·1 1963	5·6 1947	102·9 1959	33·3 1938	9·4 1963	76·2 1951	33·1 1960	10·0 1961	131·8 1958	31·1 1938	9·4 1944	172·2 1962
Pachmarhi	27·8 1946	—1·1 1935	94·2 1957	31·7 1953	—0·6 1929	52·1 1928	36·1 1892	3·3 1906	55·1 1936	40·0 1942	8·9 1905	38·6 1935	40·6 1954	15·0 1933	35·3 1933	40·6 1889	15·6 1931	204·0 1964
Mahabaleshwar	28·9 1938	6·1 1945	22·1 1943	31·4 1961	3·9 1942	29·0 1938	33·9 1953	9·4 1960	34·2 1962	36·1 1934	11·1 1955	95·0 1937	35·3 1961	13·9 1955	62·2 1930	32·2 1953	12·8 1943	362·7 1961
Mercara	31·7 1954	9·4 1946	30·0 1906	31·7 1911	8·9 1936	31·7 1950	33·3 9121	10·6 1955	55·4 1928	33·9 1896	10·6 1955	87·6 1915	35·0 1902	9·4 1955	174·0 1909	30·0 1939	10·0 1955	266·4 1961
Ootacamund	26·7 1964	—1·7 1921	114·8 1909	26·7 1945	0·0 1953	51·6 1917	25·6 1964	1·1 1948	96·2 1958	27·2 1942	5·0 1959	84·1 1947	26·7 1941	4·4 1917	184·4 1955	25·0 1944	5·0 1958	133·1 1941
Coonoor	25·6 1942	1·7 1946	196·6 1943	26·7 1945	2·8 1939	207·5 1936	26·7 1943	5·0 1949	157·5 1951	27·8 1956	8·9 1944	179·4 1960	29·4 1931	11·0 1959	193·0 1957	27·8 1953	9·4 1936	97·3 1939
Kodaikanal	24·4 1961	2·8 1950	194·8 1943	24·4 1914	4·0 1963	158·7 1925	26·7 1926	4·4 1955	106·7 1947	26·1 1925	8·2 1958	123·7 1955	27·8 1923	7·8 1955	131·1 1955	25·0 1915	5·0 1912	60·5 1947
Nepal																		
Katmandu	25·0 1946	—3·9 1964	45·9 1962	28·3 1922	—1·8 1964	30·7 1961	33·3 1938	1·1 1948	47·2 1943	37·2 1954	4·4 1945	43·4 1949	37·5 1957	6·7 1960	55·6 1956	37·8 1958	13·2 1958	108·5 1950
Sikkim																		
Lachen	18·9 1958	—9·7 1961	66·0 1957	18·9 1958	—8·3 1961	30·5 1959	18·9 1960	—6·7 1958	43·2 1956	20·6 1962	—5·6 1958	30·5 1955	21·5 1964	0·6 1958	63·4 1963	22·2 1961	5·6 1958	45·7 1952
Hydrometeo rological Observatories Damodar Catchment																		
Tilaiya	30·4 1958	3·3 1962	55·4 1957	33·6 1964	6·1 1964	27·0 1961	38·0 1958	10·1 1957	34·0 1960	41·7 1964	17·0 1959	21·8 1962	43·8 1962	19·6 1963	31·0 1964	43·7 1958	20·3 1961	69·6 1957
Hazaribagh	28·3 1964	—2·4 1962	39·1 1959	33·3 1964	4·1 1961	26·6 1961	35·9 1959	9·7 1962	15·0 1963	40·2 1961	15·0 1959	14·8 1962	42·0 1962	16·3 1964	31·2 1961	41·2 1960	18·9 1961	169·6 1961
Konar	.. ..	.. ..	11·3 1963	33·9 1964	11·3 1964	38·6 1961	36·7 1964	18·0 1964	9·6 1962	41·6 1964	19·1 1964	26·0 1963	41·9 1964	18·6 1964	43·4 1961	41·9 1964	21·5 1964	95·6 1964
Bokaro	31·8 1958	1·8 1962	49·5 1953	35·0 1952	2·2 1950	47·0 1961	41·1 1955	8·1 1964	30·5 1957	43·4 1961	14·3 1957	46·2 1951	45·1 1962	17·2 1951	45·7 1958	45·6 1958	21·1 1963	70·9 1950

Heaviest Rainfall (Millimeters) in 24 Hours based on Data upto 1964 (1885-86 Saka)

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Kerala—*contd.*
31·7 1953	20·6 1950	150·6 1949	31·7 1949	21·1 1948	139·2 1947	32·2 1951	21·7 1961	215·0 1962	32·8 1946	21·1 1950	163·1 1945	34·4 1949	20·6 1954	132·3 1945	35·0 1951	17·8 1944	82·5 1947	1944	1944	Alleppey.
32·9 1958	20·8 1963	108·4 1964	32·8 1962	21·2 1964	84·8 1963	34·3 1957	19·4 1957	87·4 1962	34·9 1959	18·3 1960	164·6 1960	34·5 1961	17·4 1957	129·2 1960	34·9 1964	16·6 1964	49·1 1957	1957	1957	Punalur.
31·7 1956	21·1 1959	151·6 1910	32·8 1953	20·6 1946	102·4 1932	33·3 1946	21·1 1950	125·5 1907	33·3 1940	21·1 1950	401·5 1964	34·3 1961	18·9 1944	162·8 1948	34·4 1955	18·9 1945	148·8 1919	1931	1889	Trivandrum.
32·2 1956	20·2 1959	135·2 1959	32·4 1960	21·1 1955	55·6 1958	32·8 1955	21·6 1962	116·8 1955	31·7 1957	21·7 1955	168·4 1964	33·3 1961	20·6 1954	114·8 1955	32·8 1957	18·3 1955	41·7 1955	1954	1954	Trivandrum Aerodrome.
																				Arabian Sea Islands
33·3 1945	21·7 1910	180·3 1907	33·3 1960	22·2 1925	241·8 1909	33·9 1940	21·7 1960	217·7 1915	36·1 1960	20·6 1928	135·4 1961	35·0 1949	18·3 1910	88·9 1932	35·1 1960	18·9 1908	119·4 1925	1896	1896	Amini.
31·7 1953	21·1 1938	154·9 1929	31·7 1934	21·1 1934	200·7 1930	32·2 1937	21·1 1953	107·7 1916	33·3 1931	19·4 1945	128·3 1910	32·5 1961	17·2 1942	132·1 1907	32·2 1957	18·3 1955	187·5 1898	1896	1896	Minicoy.
																				Hill Stations excluding Kashmir
32·8 1954	8·4 1959	232·6 1957	27·0 1962	11·7 1957	243·2 1959	27·0 1964	8·0 1963	274·0 1959	27·9 1961	—2·2 1959	287·0 1955	25·7 1958	0·1 1960	97·8 1957	23·9 1952	—8·0 1962	174·2 1960	1947	1947	Dalhousie.
35·3 1957	16·4 1964	262·8 1959	29·5 1957	16·2 1957	316·9 1958	29·4 1951	11·2 1962	257·2 1959	28·3 1953	8·9 1961	196·9 1955	25·0 1952	5·1 1962	46·8 1963	22·2 1953	—1·0 1964	72·6 1963	1951	1951	Dharmsala.
34·5 1964	14·8 1964	35·9 1964	32·3 1964	16·1 1964	41·6 1964	31·9 1964	12·0 1964	58·0 1964	30·0 1964	4·3 1964	0 ..	27·2 1964	0·7 1964	0 ..	22·6 1964	—0·9 1964	11·8 1964	1964	1964	Bhuntar.
28·9 1901	10·0 1932	167·1 1922	27·8 1951	10·6 1957	227·1 1901	25·0 1946	5·0 1940	158·0 1962	23·9 1964	0·2 1961	113·0 1884	21·4 1964	—1·1 1911	68·8 1894	20·4 1960	—12·2 1963	76·5 1923	1896	1881	Simla.
.. ..	.. ..	147·3 1952	.. ..	.. ..	165·1 1954	.. ..	.. ..	213·4 1955	.. ..	.. ..	199·4 1956	.. ..	.. ..	130·8 1951	.. ..	.. ..	31·0 1958	..	1947	Dharmpur.
12·4 1963	1·7 1956	77·4 1958	12·1 1962	2·2 1956	75·2 1962	10·9 1959	—3·5 1963	55·4 1951	8·9 1960	—7·8 1954	66·0 1956	8·9 1952	—12·2 1957	60·4 1962	2·2 1953	—16·7 1962	100·0 1961	1951	1951	Lokpal.
20·0 1958	10·0 1958	121·4 1958	21·7 1959	—7·8 1958	27·0 1959	18·3 1958	6·1 1958	22·7 1958	16·1 1959	1·1 1960	25·0 1958	13·9 1958	.. ..	0 ..	.. ..	.. ..	.. ..	1958	1958	Badrinath.
30·1 1962	14·6 1963	93·1 1962	28·0 1959	15·0 1959	63·7 1963	27·3 1963	10·8 1963	51·4 1963	25·6 1960	1·8 1961	40·4 1961	25·1 1962	1·2 1960	35·0 1962	20·0 1960	—24·4 1961	70·0 1961	1959	1959	Joshimath.
29·4 1919	12·2 1939	196·9 1942	25·6 1957	7·4 1962	317·0 1964	27·2 1946	1·3 1963	199·6 1947	25·6 1951	2·6 1961	198·1 1956	25·0 1952	—2·1 1960	72·2 1963	21·7 1953	[illegible]·9 1954	111·0 1957	1926	1926	Mussoorie.
30·6 1901	9·4 1930	159·5 1907	26·1 1928	11·1 1919	203·7 1948	25·6 1946	1·3 1964	254·5 1914	25·0 1909	1·7 1913	182·4 1910	23·1 1962	—1·1 1918	45·2 1927	21·7 1944	5·0 1954	90·7 1957	1901	1901	Mukteswar (Kumaon).
26·1 1954	10·4 1964	223·5 1957	25·1 1957	12·8 1956	193·0 1963	23·9 1959	—1·1 1962	313·7 1957	24·8 1964	4·4 1961	300·7 1956	21·4 1964	0·6 1962	16·0 1963	21·8 1964	—3·3 1961	153·7 1957	1953	1963	Nainital.
30·6 1964	14·5 1960	195·8 1939	30·9 1957	13·4 1959	160·0 1963	30·2 1961	13·4 1962	206·0 1929	31·1 1960	8·9 1944	206·3 1929	30·0 1963	3·9 1962	50·8 1963	27·8 1963	—0·6 1922	29·0 1934	1921	1926	Kalimpong.
25·0 1919	3·9 1944	200·9 1959	26·7 1957	8·3 1946	237·5 1915	26·7 1900	10·0 1940	492·8 1899	23·6 1964	4·4 1913	334·5 1929	22·2 1943	—0·6 1951	219·7 1912	20·0 1947	—1·7 1905	31·2 1885	1891	1881	Darjeeling.
29·5 1962	15·4 1961	74·9 1954	30·6 1957	17·1 1962	104·6 1962	27·8 1963	15·4 1963	95·3 1953	27·2 1956	11·6 1963	83·8 1954	24·5 1957	7·7 1961	68·8 1955	19·5 1958	4·3 1961	7·6 1961	1952	1952	Kohima.
28·3 1932	15·0 1956	205·7 1952	29·4 1964	14·4 1932	118·1 1916	29·2 1964	11·7 1940	256·2 1960	27·2 1938	5·6 1921	296·2 1946	25·6 1943	1·1 1937	96·0 1950	22·8 1918	—1·7 1929	41·1 1926	1906	1906	Shillong.
28·4 1962	11·7 1910	838·2 1910	29·2 1957	12·8 1943	682·7 1932	28·9 1906	12·8 1925	632·2 1951	29·9 1962	10·0 1947	590·5 1919	26·7 1915	6·7 1946	332·2 1917	23·3 1951	3·3 1913	189·7 1926	1906	1906	Cherrapunji.
32·8 1939	13·9 1936	460·5 1943	31·1 1983	13·9 1936	184·9 1941	31·2 1960	11·1 1962	469·1 1950	32·8 1951	10·6 1947	148·1 1917	29·4 1951	6·1 1938	43·7 1896	27·8 1941	—0·6 1929	25·4 1898	1881	1881	Abu.
30·6 1945	14·4 1941	148·6 1946	29·7 1962	12·8 1946	137·4 1943	29·4 1963	14·9 1963	136·1 1938	29·3 1958	8·9 1947	236·0 1959	28·3 1964	7·8 1960	86·0 1960	26·7 1947	5·6 1947	57·9 1945	1938	1938	Aijal.
37·4 1960	16·1 1941	338·3 1882	30·0 1899	15·0 1939	458·7 1913	35·6 1931	12·8 1940	376·2 1961	31·7 1920	6·7 1933	164·1 1955	28·3 1957	2·2 1912	99·1 1912	27·8 1941	—1·1 1926	63·0 1885	1881	1881	Pachmarhi.
24·2 1962	13·8 1957	381·2 1958	26·7 1950	13·9 1957	339·9 1956	27·8 1951	12·2 1935	327·1 1930	30·6 1957	10·7 1961	277·5 1961	29·2 1963	10·0 1955	148·6 1948	29·2 1963	8·3 1940	40·7 1962	1931	1929	Mahabaleshwar.
28·9 1955	11·2 1958	364·5 1924	26·7 1951	12·2 1920	279·0 1964	27·2 1951	12·2 1955	103·4 1938	28·3 1899	10·6 1948	151·6 1887	27·8 1918	9·4 1964	86·4 1925	28·9 1903	8·0 1964	85·9 1902	1891	1881	Mercara.
21·5 1963	6·7 1908	102·4 1902	21·7 1948	6·7 1957	60·5 1909	22·8 1951	4·4 1958	65·3 1951	22·0 1963	0·0 1943	102·4 1916	24·4 1961	—1·1 1949	209·8 1939	24·5 1960	—1·1 1947	152·9 1941	1901	1901	Ootacamund.
25·0 1952	11·1 1955	46·0 1960	24·4 1949	8·9 1953	70·6 1933	24·4 1934	8·9 1935	73·1 1955	25·6 1941	6·1 1933	139·9 1938	24·4 1938	3·3 1942	163·1 1948	25·6 1941	2·2 1956	228·6 1952	1931	1931	Coonoor.
22·2 1918	8·9 1910	79·3 1924	22·9 1963	8·3 1913	118·9 1935	21·7 1928	8·9 1907	104·1 1914	21·2 1964	6·1 1935	147·1 1930	21·7 1927	3·9 1901	197·1 1948	22·8 1910	2·8 1922	185·9 1964	190[illegible]	1901	Kodaikanal.
																				Nepal
32·8 1937	16·1 1928	167·4 1954	33·3 1939	16·1 1954	101·6 1945	33·3 1938	13·1 1963	71·4 1936	33·3 1938	5·6 1934	74·9 1961	29·4 1931	0·1 1962	28·5 1948	28·3 1917	—3·3 1964	15·2 1937	1914	1935	Katmandu.
																				Sikkim
22·0 1964	6·1 1958	82·0 1959	21·4 1961	6·1 1958	57·9 1952	22·2 1960	—0·6 1958	91·8 1960	19·7 1962	0·3 1962	58·0 1959	15·6 1959	—2·5 1961	32·2 1962	15·0 1964	—6·4 1961	30·5 1954	1958	1951	Lachen.
																				Hydrometeorological Observatories Damodar Catchment
39·8 1964	20·0 1958	105·4 1959	34·7 1957	22·4 1964	156·2 1957	36·9 1960	21·1 1963	135·8 1963	33·6 1960	14·0 1957	190·6 1961	30·7 1956	9·4 1960	11·8 1964	28·8 1957	4·4 1961	4·8 1961	1957	1957	Tilaiya.
35·6 1962	20·7 1964	86·2 1962	32·4 1964	20·2 1964	72·6 1964	32·0 1964	19·3 1962	151·8 1963	30·9 1964	12·1 1964	160·6 1963	28·9 1962	7·6 1962	2·3 1964	27·4 1964	0·3 1961	11·0 1961	1959 ..	1959 ..	Hazaribagh.
36·1 1964	22·1 1964	68·0 1964	34·0 1964	21·5 1964	111·0 1964	37·2 1964	21·3 1964	152·4 1963	34·9 1964	16·5 1964	98·6 1963	30·1 1964	11·6 1964	2·5 1963	29·0 1964	7·3 1964	13·6 1962	1964	1961	Konar.
37·9 1962	21·1 1958	216·1 1953	35·2 1957	22·2 1953	106·9 1953	38·1 1964	18·9 1950	148·3 1958	35·2 1957	11·4 196[illegible]	122·0 1959	33·9 1956	5·0 1952	23·4 1953	31·7 1950	0·5 1964	14·0 1962	1950	1950	Bokaro.

Sub-Division & Station	January			February			March			April			May			June		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hydrometeorolgical Observatories (*contd.*) **Damodar Catchment** (*contd.*)																		
Maithon	32·4 1964	4·7 1964	27·2 1961	38·2 1964	6·3 1964	64·3 1961	39·5 1964	12·2 1962	11·4 1957	44·7 1960	16·1 1963	38·0 1964	45·8 1960	18·9 1964	31·6 1962	45·5 1961	20·6 1960	103·5 1963
Ramgarh	33·0 1958	2·2 1955	25·7 1953	36·0 1964	4·8 1957	54·0 1961	41·1 1955	7·8 1957	23·2 1962	43·9 1956	13·9 1953	41·0 1959	46·1 1956	18·4 1964	76·4 1959	46·1 1955	20·6 1960	140·0 1961
Panchet Hills	32·2 1958	6·7 1955	41·7 1954	36·2 1964	8·9 1956	53·4 1961	41·1 1955	12·2 1954	24·4 1958	48·8 1961	16·4 1957	27·8 1964	46·9 1961	18·5 1964	63·2 1962	46·1 1958	22·2 1953	90·9 1957
Durgapur	32·2 1964	5·6 1964	14·7 1957	37·4 1964	8·4 1961	63·5 1959	40·0 1958	11·7 1962	22·0 1960	45·0 1961	17·2 1963	14·5 1959	45·8 1958	18·6 1963	64·0 1964	46·4 1958	16·1 1961	132·1 1957
Mahanadi Catchment																		
Ginabahar	31·7 1958	2·2 1962	18·0 1960	35·0 1964	2·2 1959	20·0 1961	40·6 1955	8·9 1957	16·5 1957	43·5 1961	14·4 1957	20·3 1961	45·6 1956	19·9 1962	34·3 1956	45·0 1955	17·7 1959	210·4 1961
Hirakud	32·2 1955	8·7 1962	32·2 1960	36·2 1964	10·0 1956	39·8 1961	42·2 1955	14·9 1957	57·1 1958	45·0 1956	18·7 1957	11·6 1961	46·7 1956	22·2 1955	24·1 1956	46·7 1955	22·7 1960	151·4 1961
Bhim Kund	31·3 1958	4·7 1959	13·5 1961	35·3 1960	8·2 1963	40·0 1961	40·1 1959	13·3 1962	55·0 1962	43·9 1959	15·8 1960	44·7 1958	43·8 1962	15·8 1958	47·0 1963	44·9 1958	21·3 1963	73·0 1959
Sonepur	32·2 1955	7·2 1963	15·8 1962	38·3 1955	9·4 1956	38·4 1961	43·1 1963	9·4 1960	26·8 1962	44·7 1961	11·7 1960	19·3 1959	46·1 1956	18·3 1960	49·8 1961	46·7 1955	21·7 1962	142·2 1959
Khijrawan	32·2 1958	5·0 1963	13·4 1960	36·1 1964	5·3 1958	17·0 1962	39·1 1964	11·8 1957	40·9 1957	43·1 1964	17·3 1961	34·3 1957	44·4 1960	20·2 1962	31·7 1957	47·6 1957	21·2 1960	104·0 1959
Narmada Catchment																		
Bagra Tawa	33·3 1961	2·8 1954	31·2 1951	37·8 1953	4·2 1957	15·5 1955	41·7 1953	9·1 1957	25·4 1957	45·3 1958	13·9 1955	14·6 1960	47·2 1954	20·6 1955	29·0 1956	46·1 1953	20·6 1955	88·1 1951
Punasa	40·0 1961	4·2 1962	19·3 1955	40·0 1953	5·9 1961	18·8 1952	43·1 1959	10·7 1957	18·1 1960	47·5 1958	15·0 1954	12·7 1962	48·1 1959	19·4 1954	56·6 1956	47·8 1961	20·6 1960	103·9 1956
Thikri	35·1 1961	4·9 1964	20·3 1953	39·4 1953	2·2 1950	8·4 1949	42·8 1962	9·9 1963	4·2 1963	47·4 1958	15·7 1962	9·0 1959	47·8 1951	21·9 1963	46·0 1960	45·6 1953	20·0 1952	93·5 1953
Sabarmati Catchment																		
Daroi	33·8 1963	3·0 1962	6·9 1958	37·2 1956	4·4 1961	0 ..	41·9 1959	9·6 1957	7·6 1962	46·9 1958	14·4 1956	14·0 1959	46·8 1962	20·2 1961	0 ..	45·6 1963	22·2 1964	104·7 1956
Gandak Catchment																		
Tomosom	19·9 1958	—8·0 1963	45·7 1961	20·0 1958	—9·0 1964	71·1 1961	23·7 1959	—2·7 1962	22·6 1960	25·4 1959	0·3 1963	18·5 1960	26·9 1961	2·8 1962	35·0 1964	27·3 1961	6·5 1958	12·2 1960
Khudi Bazar	.. ..	.. ..	55·4 1962	.. ..	.. ..	31·8 1961	.. ..	.. ..	48·0 1961	.. ..	.. ..	44·2 —963	.. ..	.. ..	89·0 1961	.. ..	.. ..	153·0 1964
Timure	20·1 1961	—0·7 1964	55·1 1962	21·9 1964	—0·2 1964	38·1 1961	27·3 1960	0·6 1962	50·8 1963	30·2 1961	5·2 1959	19·1 1964	31·2 1964	10·3 1963	26·7 1959	32·8 1964	13·9 1959	37·3 1961
Pokhara	23·4 1961	3·0 1964	54·9 1957	25·7 1963	4·3 1957	29·5 1961	30·9 1960	7·5 1960	29·7 1960	36·2 1961	10·3 1960	122·2 1958	37·0 1960	13·0 1961	74·2 1959	35·9 1959	15·9 1958	173·7 1959
Gorkha	22·1 1957	5·3 1959	46·2 1957	27·1 1960	4·5 1959	0·6 1964	29·5 1964	8·3 1960	50·0 1960	35·1 1960	7·3 1959	49·5 1959	35·6 1957	13·9 1958	75·4 1950	35·3 1958	17·8 1957	189·7 1959
Nuwakot	23·2 1961	4·5 1964	39·0 1962	27·0 1960	5·4 1961	90·8 1960	32·4 1960	7·7 1960	24·6 1962	36·4 1961	11·4 1960	37·6 1962	38·8 1957	13·8 1958	57·6 1962	38·8 1960	14·3 1957	152·8 1962
Ghaghara Catchment—(Trans Himalayan Region)																		
Dailekh	21·1 1958	2·0 1960	36·8 1959	22·7 1960	3·4 1959	17·8 1963	27·3 1958	5·4 1960	52·6 1957	34·3 1960	9·2 1959	72·4 1962	34·3 1957	10·1 1964	27·7 1958	35·2 1964	15·3 1964	53·2 1963
Ghaghara Catchment																		
Dadeldhura	18·9 1959	—2·7 1962	50·3 1958	19·8 1961	—3·4 1961	63·0 1961	24·4 1964	—0·2 1957	70·4 1963	28·8 1959	5·8 1959	42·5 1963	31·6 1958	6·0 1964	33·4 1959	39·5 1961	11·8 1962	71·0 1964
Sallyana	23·0 1964	1·9 1964	99·1 1961	25·0 1964	1·9 1964	20·5 1962	28·6 1964	5·2 1963	45·0 1962	33·0 1964	10·5 1963	32·0 1962	34·4 1961	10·0 1964	22·8 1963	35·2 1964	16·2 1961	84·0 1963
Butwal	33·2 1964	4·3 1964	54·0 1962	33·9 1964	—0·1 1957	33·5 1961	38·7 1964	10·4 1959	50·2 1962	42·2 1961	16·2 1959	40·0 1962	44·7 1960	10·1 1957	72·4 1959	44·4 1964	18·4 1958	171·0 1961
Baghmati Catchment																		
Katmandu*																		
Kosi Catchment																		
Chautara	22.2 1956	1.3 1964	46.5 1957	25.7 1964	1.6 1961	28.4 1961	30.3 1960	5.8 1957	24.1 1953	33.6 1961	8.3 1957	68.6 1962	35.1 1958	11.0 1964	53.2 1960	34.4 1958	14.4 1955	134.8 1962
Chepua	.. ..	.. ..	31.0 1962	.. ..	.. ..	1.0 1961	.. ..	.. ..	31.6 1962	.. ..	.. ..	77·0 1963	.. ..	.. ..	73·0 1963	.. ..	.. ..	62.4 1963
Walungchung Gola	13·5 1964	—8.8 1964	30.5 1956	12.2 1954	—9.6 1961	44.6 1963	16.4 1959	—8.6 1961	114.2 1963	18.6 1961	—2.9 1960	31.4 1963	18.4 1961	1.1 1955	29.2 1963	20.6 1958	1.1 1956	34.4 1961
Taplethok	28.3 1954	0.6 1957	44.7 1957	28.3 1954	2.8 1964	22.9 1957	31.0 1958	5.0 1956	38.3 1953	32.3 1961	8.3 1956	56.0 1963	32.4 1958	11.2 1962	56.4 1956	32.1 1958	15.2 1957	82.0 1959
Bhojpur	18.2 1961	1.4 1957	35.0 1957	22.6 1964	2.6 1964	26.0 1962	27.8 1960	5.9 1957	39.9 1956	29.6 1961	8.7 1957	34.0 1962	29.7 1958	11.2 1959	94.3 1963	28.9 1955	14.8 1957	88.1 1962
Taplejung	19.2 1957	0.0 1955	34.8 1957	21.3 1964	0.1 1964	14.8 1962	25.6 1953	3.3 1957	37.6 1953	28.9 1961	6.1 1957	71.0 1962	28.3 1957	10.1 1963	55.9 1954	28.1 1964	12.8 1953	68.2 1963
Okhaldhunga	23.9 1953	—1.5 1964	38.2 1962	22.2 1956	—0.8 1959	22.0 1962	25.0 1955	4.1 1962	25.4 1953	28.9 1954	5.8 1957	36.6 1963	29.2 1957	5.6 1953	113·8 1954	29.2 1958	8.9 1953	115.6 1960
Chainpur	22.8 1954	3.1 1957	36.8 1957	26.7 1964	5.0 953	17.6 1962	30.4 1960	8.4 1960	43.2 1953	33.8 1960	9.3 1957	34.3 1953	34.5 1960	13.3 1955	57.1 1953	32.4 1960	15.6 1957	67.8 1962
Angbung	22·2 1957	1·7 1953	58·0 1959	24·4 1955	3·5 1964	46·4 1962	30·3 1961	5·7 1960	54·0 1959	33·6 x1961	8·2 1960	43·2 1953	34·3 1960	8·9 1954	75·7 1953	33·2 1960	7·2 1954	108·0 1962
Barahakshetra	27·3 1961	5·3 1964	48·4 1959	31·7 1963	6·3 1964	39·4 1961	37·1 1960	11·7 1962	126·2 1953	42·2 1954	16·1 1960	102·6 1962	41·9 1957	18·4 1964	103·0 1963	38·9 1958	21·7 1962	155·2 1959
Tista Catchment—																		
Gangtok	19·3 1957	—2·2 1956	63·3 1958	21·5 1964	—1·1 1956	26·8 1963	25·8 1960	3·7 1960	61·0 1957	26·0 1962	6·1 1960	178·1 1956	28·0 1964	9·6 1963	109·7 1958	27·1 1963	12·7 1957	125·5 1960
Gezing	21·9 1961	1·1 1957	50·8 1957	24·7 1964	1·0 1964	12·8 1962	28·1 1961	2·1 1957	42·6 1959	30·9 1961	7·3 1957	92·5 1958	30·6 1964	10·3 1964	64·3 1960	30·8 1961	13·6 1957	102·9 19[illegible]

*Data included under Nepal.

July			August			September			October			November			December			Based on data from		Sub-Division & Station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																				Hydrometeorological Observatories (*contd.*)
																				Damodar catchment (*Contd.*)
37·8 1962	21·0 1964	69·9 1964	36·4 1963	20·6 1964	86·6 1961	36·0 1963	21·2 1963	131·3 1958	36·8 1961	13·7 1964	68·5 1963	33·1 1963	8·7 1964	8·2 1963	31·1 1963	5·3 1964	2·4 1962	1960	1957	Maithon.
46·4 1961	21·1 1964	88·1 1957	36·4 1958	18·2 1960	169·9 1953	37·2 1960	18·3 1950	174·2 1954	37·8 1956	10·8 1957	108·0 1959	34·2 1957	4·4 1952	17·3 1953	31·6 1957	0·6 1961	56·4 1950	1950	1950	Ramgarh.
38·3 1961	21·7 1957	129·0 1953	36·1 1957	21·1 1958	118·0 1963	36·4 1958	19·3 1958	195·1 1956	35·8 1953	15·0 1954	181·6 1959	33·3 1957	9·9 1957	43·2 1955	31·7 1953	5·1 1961	12·5 1964	1950	1950	Panchet Hills.
37·2 1958	22·2 1963	84·9 1959	37·0 1963	21·7 1962	113·0 1964	35·6 1961	20·6 1963	89·0 1959	36·0 1964	17·2 1963	139·0 1959	33·4 1962	11·1 1962	5·0 1963	31·1 1962	6·0 1962	9·2 1959	1957	1957	Durgapur.
																				Mahanadi Catchment
37·2 1958	18·1 1958	96·4 1962	35·0 1957	20·7 1964	198·1 1956	34·5 1957	18·8 1962	131·8 1960	35·8 1963	11·4 1957	178·3 1958	33·1 1964	5·0 1961	9·1 1956	32·2 1959	2·9 1964	12·0 1962	1955	1955	Ginabahar.
38·2 1958	22·2 1955	227·1 1964	35·0 1964	22·1 1964	239·9 1960	34·9 1960	22·8 1963	281·9 1955	36·4 1957	16·8 1960	91·4 1956	32·4 1964	12·4 1960	18·4 1961	31·4 1957	7·2 1955	33·8 1962	1955	1955	Hirakud.
35·9 1962	21·3 1960	150·0 1962	36·1 1961	20·9 1964	229·5 1960	34·4 1958	21·5 1964	157·5 1963	33·3 1960	14·9 1964	87·5 1962	31·9 1963	9·3 1959	11·3 1958	30·8 1960	6·1 1961	1·1 1962	1958	1958	Bhim kund.
37·1 1958	16·1 1957	166·4 1958	37·1 1961	20·5 1957	200·0 1960	35·6 1956	14·7 1957	287·8 1955	35·8 1957	15·1 1968	109·0 1960	33·3 1959	7·7 1959	2·0 1958	32·2 1957	6·9 1959	10·1 1959	1955	1955	Sonepur.
44·9 1957	18·9 1962	153·8 1960	32·5 1958	21·3 1962	106·0 1964	33·6 1964	20·6 1961	100·0 1961	36·1 1964	14·3 1960	114·2 1960	32·6 1964	5·2 1960	16·5 1958	32·1 1963	5·1 1964	14·0 1961	1957	1957	Khijrawan.
																				Narmada Catchment
39·4 1962	17·2 1956	281·2 1959	34·4 1954	21·7 1956	141·0 1952	35·1 1960	19·3 1960	259·0 1961	36·3 1957	8·9 1952	48·3 1955	34·5 1963	5·6 1952	42·2 1956	33·4 1960	2·2 1955	21·0 1962	1951	1951	Bagra Tawa.
39·8 1963	20·1 1959	183·6 1959	35·6 1956	20·6 1952	207·0 1960	37·2 1951	14·4 1953	168·4 1961	38·9 1951	10·1 1964	46·2 1961	38·8 1958	6·1 1956	38·8 1963	34·5 1959	3·9 1955	44·0 1962	1951	1951	Punasa.
39·8 1962	20·1 1964	107·9 1950	36·1 1953	20·1 1964	209·8 1957	38·9 1951	15·1 1963	206·0 1959	40·6 1949	8·9 1964	83·0 1961	37·8 1951	6·3 1964	24·2 1963	35·5 1963	4·9 1964	43·3 1962	1949	1949	Thikri.
																				Sabarmati Catchment
42·2 1963	22·8 1958	299·8 1959	36·4 1964	21·1 1956	105·9 1957	39·3 1960	20·8 1959	208·4 1963	39·1 1957	12·2 1961	64·0 1958	37·6 1964	10·6 1956	33·0 1963	35·0 1963	6·2 1964	0 ..	1956	1956	Daroi.
																				Candak Catchment
27·7 1961	11·9 1962	22·2 1963	30·5 1962	11·1 1960	24·2 1962	28·1 1963	5·6 1958	35·0 1960	24·7 1961	0·6 1960	41·4 1961	23·6 1962	—3·4 1961	4·0 1963	20·1 1964	—10·0 1962	10·3 1962	1958	1958	Jomosom.
.. ..	.. ..	104·6 1964	.. ..	.. ..	100·6 1963	.. ..	.. ..	97·2 1962	.. ..	.. ..	72·0 1962	.. ..	.. ..	27·6 1963	.. ..	.. ..	18·6 1961	..	1961	Khudi Bazar
34·9 1963	15·6 1964	80·2 1963	29·1 1964	15·1 1962	61·4 1964	30·0 1959	11·3 1963	32·5 1963	27·7 1964	5·2 1961	30·2 1958	24·7 1964	2·4 1961	5·0 1964	22·3 1960	—0·6 1961	16·3 1961	1958	1958	Timure.
32·2 1962	20·4 1961	261·4 1964	34·2 1962	19·4 1959	284·0 1957	31·7 1958	17·9 1962	165·9 1961	30·4 1958	11·6 1960	108·5 1960	27·7 1958	5·8 1962	40·6 1963	27·5 1960	3·2 1964	19·1 1957	1957	1957	Pokhara.
30.7 1964	18.8 1963	95.5 1957	30.6 1964	19.3 1963	109.5 1957	30.0 1963	16.0 1963	61.7 1958	28.7 1964	13.8 1963	71.4 1958	26.2 1964	9.1 1964	12.3 1963	22.2 1958	4.5 1964	9.9 1957	1957	1957	Gorkha.
33.0 1964	15.6 1958	81.8 1959	33.2 1964	18.5 1962	95.3 1957	33.5 1963	16.0 1963	41.8 1959	32.2 1964	12.0 1960	51.8 1961	28.7 1963	7.3 1961	14.2 1964	25.5 1964	3.3 1961	8.2 1961	1957	1957	Nuwakot.
																				Ghaghara Catchment (Trans Himalayan Region)
30.9 1962	16.1 1964	113.3 1959	29.2 1964	16.7 1964	95.0 1962	30.7 1957	15.6 1962	52.0 1963	26.6 1964	10.1 1962	43.4 1958	23.7 1964	5.6 1962	6.8 1963	20.6 1964	3.1 1963	50.0 1957	1957	1957	Dailekh
																				Ghaghara Catchment
27.1 1962	13.7 1958	107.5 1959	26.8 1957	13.5 1957	130.4 1961	26.6 1963	10.9 1963	122.8 1962	25.8 1960	5.1 1961	162.1 1961	22.4 1958	3.7 1960	18.9 1959	22.9 1964	—0.8 1961	86.6 1957	1957	1957	Dadeladhara.
29.3 1962	17.0 1964	73.3 1963	30.5 1964	17.0 1964	73.2 1963	28.5 1961	13.0 1963	49.0 1963	28.0 1964	10.5 1963	41.0 1961	24.4 1957	6.0 1961	0 ..	23.2 1962	3.0 1960	25.5 1961	1957	1957	Sallyana.
43.6 1963	21.7 1957	245.4 1960	36.8 1957	22.4 1964	179.0 1962	40.4 1963	21.4 1963	180.0 1964	35.9 1963	17.2 1959	112.0 1958	30.9 1964	9.4 1962	26.0 1963	28.5 1960	6.2 1958	12.0 1961	1957	1957	Butwal.
																				Baghmati Catchment
																				Katmandu*.
																				Kosi Catchment
30·0 1962	13·4 1964	99·1 1954	29·6 1964	16·1 1956	80·3 1964	29·1 1963	14·1 1963	102·0 1964	28·1 1964	11·1 1960	74·3 1959	26·7 1958	6·2 1958	23·4 1956	23·6 1960	3·1 1961	15·5 1955	1955	1953	Chautara.
.. ..	.. ..	52·4 1963	.. ..	.. ..	83·8 1962	.. ..	.. ..	67·2 1963	.. ..	.. ..	42·4 1963	.. ..	.. ..	14·0 1961	.. ..	.. ..	46·6 1961	..	1961	Chepua.
20·6 1953	4·4 1956	44·5 1954	21·0 1964	4·4 1953	55·1 1954	21·0 1962	3·9 1960	93·0 1963	19·4 1961	−2·9 1962	46·4 1963	15·6 1955	—6·0 1961	31·0 1963	15·9 1960	—8·8 1961	12·0 1963	1953	1953	Walungchung Gola.
32·8 1953	14·2 1962	78·2 1953	32·4 1958	15·6 1954	96·4 1961	31·7 1956	14·6 1963	68·0 1964	32·8 1956	9·0 1958	64·8 1960	29·4 1956	4·8 1961	25·4 1956	28·3 1956	3·3 1961	12·5 1957	1953	1953	Taplethok.
28·5 1962	16·1 1956	93·0 1964	29·6 1957	15·9 1957	78·0 1955	27·9 1963	13·7 1963	86·0 1963	26·8 1962	10·6 1957	113·0 1960	23·1 1958	7·2 1961	22·9 1956	19·9 1958	3·5 1961	12·0 1961	1955	1955	Bhojpur.
27·4 1961	15·0 1956	117·7 1959	28·6 1957	15·4 1962	104·2 1960	28·5 1958	12·6 1963	99·8 1954	26·0 1959	8·3 1955	68·3 1956	22·5 1964	2·4 1961	20·1 1956	20·3 1963	0·6 1954	12·7 1955	1953	1953	Taplejung.
27·9 1961	5·6 1953	143·5 1954	29·4 1953	15·0 1955	129·8 1963	28·3 1954	10·6 1953	95·2 1960	27·2 1959	4·7 1960	44·4 1963	22·8 1954	4·1 1961	19·8 1956	21·7 1953	1·1 1961	6·1 1957	1953	1953	Okhaldhunga.
31·6 1964	16·7 1954	71·0 1957	31·7 1953	17·2 1955	95·2 1962	31·1 1953	15·0 1963	73·2 1963	28·9 1955	11·7 1955	67·2 1959	26·8 1953	8·3 1963	11·0 1963	25·6 1953	5·8 1961	8·9 1957	1953	1953	Chainupr.
32·4 1962	16·1 1953	82·5 1957	32·6 1957	15·0 1954	122·5 1964	31·3 1959	8·3 1964	80·0 1960	30·4 1957	8·4 1964	63·3 1957	25·6 1954	6·1 1964	19·0 1963	24·4 1953	5·1 1961	7·1 1957	1953	1953	Angbung
37·1 1962	22·2 1962	215·4 1964	36·7 1957	22·1 1962	266·9 1964	35·4 1963	20·7 1960	208·6 1962	35·9 1960	14.9 1957	136·1 1953	30·9 1964	9·1 1961	29·5 1956	28·3 1955	6·5 1964	3·3 1957	1953	1953	Barahakshetra.
																				Tista Catchment—
28·2 1962	14·4 1956	105·5 1964	27·6 1957	15·1 1958	124·8 1962	28.5 1963	11·7 1956	198·8 1960	27·2 1964	8·1 1957	73·0 1959	22·3 1962	4·3 1961	25·0 1963	21·0 1962	1·0 1961	18·2 1963	1956	1956	Gangtok.
29·8 1958	14·9 1958	164·3 1957	32·2 1957	16·3 1959	135·2 1964	30·7 1961	13·9 1960	123·2 1960	29·4 1964	9·2 1960	46·5 1963	25·7 1964	4·9 1961	18·2 1959	22·6 1964	2·2 1961	15·8 1963	1957	1957	Gezing.

MONTHLY MEANS OF UPPER WINDS

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

During the month, observations of velocity and direction of upper winds were made at 54 stations in India. Out of these, at 39 stations all the observations were taken by means of pilot balloons and at 14 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

Data from ascents made at the scheduled time or within two hours on either side of the scheduled times of regular observations have been used for averaging.

Data upto 9·0 km. a.m.s.l. are given under Table IV and data above 9·0 km. a.m.s.l. under Table V.

In Tables IV and V :

n=represents the number of observations;

V=represents the mean wind speed in metres per second irrespective of direction;

v=represents the resultant mean velocity in metres per second;

D=represents the direction of the resultant mean wind in degrees East of North.

Means and resultant winds are given in this publication for the following heights :

Surface, 0·15 km. a.g., 0·3, 0·6, 0·9, 1·5, 2·1, 3·0, 3·6, 4·5, 5·4, 6·0, 7·2, 9·0, 10·5, 12·0, 14·1 16·2, 18·0, 21·0, 24·0, 27·0, 30·0, 33·0 and 36·0 km. a.m.s.l. Of these, the levels 1·5, 3·0 5·4, 7·2, 9·0, 12·0, 14·1, 16·2, 18·0, 21·0, 24·0, 27·0 and 30·0 km. a.m.s.l. are considered as the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150, 100, 70, 50, 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

S. No.	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23°53′	91°15′	17	28th November. 1951	0530		1730	2330
2	Ahmadabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3	Allahabad/Bamhrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
4	Ambala	30°23′	76°46′	279	1st April 1941	0530	1130	1730	2330
5	Anantapur	14°41′	77°37′	365	12th February 1946	0530		1730	2330
6	Asansol	23°41′	86°59′	135	29th May 1942	0530		1730	2330
7	Aurangabad/Chikalthan	19°51′	75°24′	583	7th October 1951	0530		1730	2330
8	Bahraich	27°34′	81°36′	134	1st October 1961	0530	1130	1730	
9	Bangalore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
10	Bareilly	28°22′	79°24′	181	12th January 1943	0530		1730	
11	Begampet	17°27′	78°28′	543	1ts September 1929	0530		1730	2330
12	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530		1730	
13	Bhopal/Bairagarh	23°17′	77°21′	532	26th February 1943	0530		1730	2330
14	Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530		1730	2330
15	Bhuj/Rudramata	23°15′	69°48′	90	14th September 1937	0530		1730	2330
16	Bikaner	28°00′	73°18′	229	18th October 1946	0530		1730	2330
17	Bombay/Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
18	Calcutta/Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
19	Cochin/Willingdon†	09°56′	76°14′	13	16th March 1942	0530		1730	2330
20	Dehra Dun	30°19′	78°03′	692	1st October 1958	0530		1730	
21	Dibrugarh/Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
22	Gadag	15°25′	75°38′	650	3rd May 1943	0530		1730	2330
23	Gangtok	27°03′	88°16°	2115	1st June 1963	0830		1730	
24	Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
25	Gaya	24°45′	84°57′	119	19th March 1937	0530		1730	2330
26	Gopalpur	19°16′	84°53′	24	15th February 1946	0530		1730	2330
27	Gorakhpur	26°45′	83°22′	83	5th January 1643	0530		1730	
28	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
29	Imphal/Tulihal	24°46′	93°54′	782	8th March 1592	0530	1130	1730	2330
30	Jabalpur	23°10′	79°57′	402	30th July 1928	0530		1730	2330
31	Jagdalpur	19°05′	82°02′	562	25th March 1948	0530		1730	2330
32	Jaipur/Sanganer	26°49	75°48′	403	6th June 1653	0530		1730	2330
33	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530		1730	
34	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530		1730	2330
35	Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
36	Lucknow/Amausi	26°45′	80°53′	133	20th November 1950	0530		1730	2330
37	Madras/Minambakkam	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
38	Mangalore/Bajpe	12°55′	74°53′	104	25th May 1959	0530		1730	2330
39	Minicoy	08°18′	73°00′	15	14th April 1941	0530	1130	1730*	2330
40	Nagpur/Sonegaon	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
41	New Delhi/Safdarjung	28°35′	77°12′	227	28th October 1936	0530*	1130	1730*	2330
42	Poona	18°32′	73°51′	593	5th January 1925	0530		1730	2330
43	Port Blair	11°40′	92°43′	95	29th October 1945	0530*	1130	1730*	2330
44	Raipur	21°14′	81°39′	308	15th July 1944	0530		1730	2330
45	Raxaul	26°59′	84°51′	83	28th October 1957	0530		1730	
46	Siliguri/Baghdogra	26°38′	88°19′	140	7th June 1953	0530		1730	2330
47	Srinagar	34°06′	74°48′	1588	1st August 1962	0530*		1730*	
48	Tiruchchirappalli	10°46′	78°43′	96	22nd June 1936	0530		1730	2330
49	Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June 1947	0530		1730	2330
51	Vengurla	15°52′	73°38′	8	22nd November 1941	0530		1730	2330
52	Veraval	20°54′	70°22′	17	13th October 1941	0530		1730	2330
53	Vijaywada/Gannavaram	16°32′	80°48′	32	8th April 1942	0530		1730	2330
54	Vishakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730*	2330

*Radio wind ascents.
@Radiosonde ascents followed by optical theodolite.

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	AGARTALA												AHMADABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·3	0·1	054	31	0·7	0·5	315	31	0·9	0·5	055	31	1·5	1·1	039	31	3·4	2·4	090	31	1·6	0·8	039
0.15 a. g.	29	3·4	2·0	047	31	2·9	1·1	323	31	3·4	1·8	024	31	6·2	4·7	050	31	4·3	3·3	084	31	3·6	1·3	034
0.3 a.m.s.l.	29	3·6	2·3	043	31	2·7	0·9	319	31	2·9	1·4	355	31	6·0	4·4	051	31	4·5	3·3	083	31	3·7	1·2	033
0.6 ,,	29	3·3	1·8	030	31	2·6	0·6	285	31	2·6	1·2	335	31	5·0	2·9	057	31	4·7	2·9	091	31	3·6	1·0	027
0.9 ,,	29	3·6	0·9	022	31	2·9	0·5	284	31	3·1	1·1	305	31	4·5	0·9	050	31	3·5	1·5	109	31	3·6	1·0	043
1.5 ,,	29	5·0	1·6	296	31	6·1	1·4	277	31	4·3	1·9	273	31	4·8	1·3	226	31	5·1	1·7	223	31	4.6	1.3	310
2.1 ,,	29	6·9	2·6	315	30	7·1	4·3	286	28	7·1	4·7	295	31	5·9	2·8	238	31	6·4	3·5	250	31	5·8	2·9	284
3.0 ,,	29	12·1	7·7	302	30	13·1	10·3	292	26	10·0	7·6	292	31	8·7	6·4	250	31	8·3	6·2	245	31	7·6	5·6	262
3.6 ,,	26	14·1	10·6	294	26	15·3	12.8	292	4	8·9	4·4	006	31	9·9	8·1	252	31	9·7	7·7	245	31	8·8	7·1	253
4.5 ,,	23	15·1	11·6	293	24	15·4	12·9	286					31	12·4	10·0	252	31	12·9	10·4	248	31	11·9	9·8	250
5.4 ,,	12	15·4	14·0	277	18	16.0	15·8	285					31	15·2	13·4	250	31	15·3	13·3	247	31	15·6	14·2	253
6.0 ,,	10	15·2	14·0	287	16	19·4	18·1	284					31	17·3	16·2	250	30	17·0	15·6	255	31	17·5	16·2	251
7.2 ,,	6	23·1	21·6	304	9	23·4	21·7	286					31	21·9	20·1	253	24	21·5	20·2	250	31	20·8	18·9	245
9.0 ,,					2	21·5	21·5	270					29	30·6	28·5	254	16	31·4	29·8	257	30	29·6	28·5	255

Station	AHMADABAD				ALLAHABAD/BAMHRAULI																AMBALA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·8	010	31	0·3	0·3	280	31	0·9	0·5	273	31	1·1	0·8	296	31	0·3	0·1	313	31	1·2	0·6	322
0.15 a. g.	31	6·3	3·7	029	31	5·2	1·7	323	31	3·3	1·3	265	31	5·2	3·5	311	31	5·5	2·8	335	31	6·2	3·3	331
0.3 a.m.s.l.	31	5·7	3·1	035	31	5·2	1·7	323	31	3·3	1·4	267	31	5·2	3·5	311	31	5·4	2·7	332	31	2·7	1·3	347
0.6 ,,	31	4·8	2·2	056	31	5·2	2·0	331	31	4·2	2·9	289	31	4·9	3·2	295	31	5·5	2·3	306	31	5·7	3·1	322
0.9 ,,	31	4·3	1·1	059	31	6·1	3·3	299	31	5·2	3·2	293	31	5·0	3·4	294	31	5·3	3·2	290	31	6·0	2·8	323
1.5 ,,	31	4·7	1·3	126	31	7·4	5·8	295	31	6·9	5·0	301	31	6·9	5·3	302	31	6·2	4·7	290	30	6·4	3·8	312
2·1 ,,	30	5·3	1·0	225	31	9·7	8·1	299	30	8·3	6·3	308	31	9·3	7·8	297	31	9·8	7·5	299	29	6·2	3·4	299
3·0 ,,	29	7·2	3·7	255	31	11·5	10·5	295	30	10·9	8·9	300	31	12·0	10·2	295	15	8·1	4·5	290	26	6·3	4·0	272
3·6 ,,	18	7·2	4·7	253	31	13·6	12·1	290	29	12·1	9·7	294	31	13·9	12·3	288					4	7·7	6·8	218
4·5 ,,	8	9·4	7·9	245	31	16·2	14·5	282	29	15·6	13·6	290	31	16·0	14·5	282								
5·4 ,,	7	11·6	11·1	254	31	20·0	17·9	280	25	18·4	16·8	279	31	19·5	17·7	278								
6·0 ,,	5	11·0	10·8	255	31	22.2	20·5	272	24	20·8	19·3	276	31	22·6	21·2	277								
7·2 ,,	1	13·0	13·0	260	30	27·3	25·6	270	17	23·7	22·7	265	31	26·3	24·5	269								
9.0 ,,					28	36·0	31·2	270	7	27·5	26·2	273	30	34·2	32·3	267								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10, Pausa 10, 1886 Saka)

Station	AMBALA												ANANTAPUR											
Time in I. S. T.	1130				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	0·8	311	31	2·3	1·2	301	31	1.5	0·7	320	31	1·0	0·9	079	31	3·9	3·6	079	31	3·5	3·2	096
0·15 a. g.	31	4·6	1·2	309	31	4·5	2·4	301	31	6.7	0·4	329	31	4·9	4·6	092	31	6·0	5·8	079	31	7·4	7·3	095
0·3 a. m. s. l.	31	2·5	0·5	315	31	3·0	1·4	295	31	2·8	1·5	333												
0·6 ,,	31	5·9	1·8	302	31	5·7	2·6	301	31	5·7	3·1	330	31	5·9	5·5	102	31	5·6	5·4	081	31	7·9	7·8	094
0·9 ,,	31	6·7	2·0	313	31	6·4	3·1	307	31	5·8	2·2	325	30	6·5	6·2	097	31	5·1	4·9	085	31	7·4	7.3	089
1·5 ,,	30	7·0	2·2	307	31	7·1	3·0	305	31	6·0	1·3	306	30	6·6	6·0	080	31	5·9	5·6	088	31	5·3	4·8	079
2·1 ,,	29	6·6	3·3	313	30	6·8	3·0	304	31	7·2	3·2	284	30	6·7	6·0	084	31	7·0	6·1	090	31	6·7	5·3	084
3·0 ,,	28	7·7	4·1	285	29	7·4	4·5	298	26	6.6	6·3	276	28	7·0	5·8	078	29	6·9	5·4	092	29	7·7	6.1	084
3·6 ,,	27	8·7	5·5	287	27	8·4	6·0	288	1	13·0	13·0	315	27	6·5	4·5	078	26	6·6	4·8	078	23	5·8	4.1	077
4·5 ,,	24	12·9	10·7	280	25	13·1	10·8	285					27	6·3	3·2	090	26	6·0	3·5	087	5	3·6	2·2	343
5·4 ,,	20	15·9	15·5	266	22	17·3	15·5	274					27	7·4	2·7	010	25	6·4	2·3	098	2	5·5	2·7	276
6·0 ,,	17	18·7	17·3	262	20	20·2	18·0	268					27	6·1	1·1	130	23	6·8	1·3	090				
7·2 ,,	8	25·9	23·9	262	2	15·3	15·2	233					25	6·8	2·4	248	18	6·7	2·7	233				
9·0 ,,													22	9·4	7·9	267	10	12·7	12·1	260				

Station	ASANSOL												AURANGABAD/CHIKALTHAN											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·9	293	31	1·3	1·1	324	31	0·5	0·5	305	31	2·0	2·0	090	31	1·2	1·0	115	31	0·2	0·1	049
0·15 a. g.	31	5·7	4·4	248	31	3·7	2·5	323	31	5·4	4·3	355	31	5·1	4·4	099	31	3·3	2·4	117	31	5·7	4·5	082
0·3 a. m. s. l.	31	5·7	4·4	357	31	3·7	2·6	323	31	5·4	4·3	354												
0·6 ,,	31	5·8	4·1	352	31	4·0	3·1	323	31	5·6	4·2	343												
0·9 ,,	30	5·7	3·8	332	31	4·6	3·7	322	31	5·2	3·6	324	31	6·4	5·7	108	31	3·1	2·0	109	31	6·1	5·3	087
1·5 ,,	30	7·0	4·9	320	31	6·1	5·1	320	31	5·9	4·0	305	31	5·0	3·7	110	31	3·7	2·2	079	31	5·5	4·2	105
2·1 ,,	25	7·7	5·4	320	31	8·4	6·2	310	30	8·4	6·8	308	31	4·8	1·3	102	31	4·3	2·3	061	31	5·3	2·7	117
3·0 ,,	20	11·0	8·3	310	31	12·9	10·6	304	24	10·7	8.7	297	31	6·0	1·6	205	31	6·8	0·7	056	31	6·7	1·3	135
3·6 ,,	10	12·9	10·6	303	29	14·1	13·0	296	14	10·5	8·2	292	12	7·0	3·0	215	30	6·9	0·5	238	24	6·7	1·9	198
4·5 ,,	3	9·2	6·5	294	27	15·7	14·5	293	6	13·8	13·1	282	1	4·0	4·0	060	29	7·4	2·8	240	5	7·2	4·5	173
5·4 ,,	2	7·0	5·9	270	20	15·8	14·3	285	1	10·0	10·0	285					27	9·0	0·4	257	2	10·5	9·1	245
6·0 ,,	1	11·5	11·5	235	18	17·0	15·7	290	1	15·5	15·5	290					23	10·4	7·1	257	1	12·5	12·5	100
7·2 ,,					13	23·5	21·3	292									1	8·5	8·5	280				
9·0 ,,					5	31·0	30·0	296																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	BAHRAICH												BANGALORE											
Time in I. S. T.	0530				1130				1730				0530@				1130				1730@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·5	0·3	281	31	0·8	0·4	327	31	0·9	0·6	295	31	3·2	2·9	080	31	3·2	2·8	073	31	2·7	2·3	091
0·15 a. g. .	26	4·7	3·4	320	31	3·2	1·0	307	31	3·9	2·7	304	23	7·0	6·8	082	31	5·5	5·1	089	30	5·4	5·1	094
0·3 a. m. s. l. .	26	4·8	3·0	328	31	3·3	1·1	307	31	4·2	1·9	304												
0·6 ,, .	26	5·5	4·3	308	31	3·9	2·1	308	31	4·7	3·0	292												
0·9 ,, .	26	6·2	4·7	303	31	5·2	2·4	306	31	5·3	3·8	291												
1·5 ,, .	26	7·3	4·8	294	31	7·4	3·2	302	31	7·6	6·4	291	22	7·3	6·9	076	30	6·2	5·8	089	30	5·7	5·4	092
2·1 ,, .	26	9·0	6·1	308	30	8·5	4·4	293	31	9·6	6·2	301	22	6·9	6·3	082	28	7·1	6·4	090	29	5·7	5·4	083
3·0 ,, .	26	12·1	9·6	295	27	11·9	9·6	296	30	12·5	10·1	301	21	7·2	5·8	074	24	7·8	5·9	086	29	6·7	5·4	078
3·6 ,, .	23	13·4	8·3	293	25	14·1	12·0	292	28	13·8	12·5	304	21	6·9	5·5	076	23	7·2	5·2	079	29	6·3	5·1	084
4·5 ,, .	17	14·0	12·9	285	23	15·6	12·5	279	28	18·3	17·1	297	20	7·4	5·0	086	21	7·3	5·1	086	28	6·3	4·2	092
5·4 ,, .	11	18·1	17·3	279	20	18·5	15·2	281	24	19·4	18·8	284	19	6·5	5·6	084	20	7·6	4·6	083	28	7·2	4·2	097
6·0 ,, .	7	20·0	19·6	289	17	19·5	17·0	278	22	20·6	19·2	285	19	6·1	5·8	088	19	6·3	3·8	096	27	6·0	2·8	104
7·2 ,, .	1	22·0	22·0	295	13	25·2	24·0	269	17	24·8	22·8	283	18	4·2	2·0	257	19	6·4	1·0	146	26	6·0	0·5	073
9·0 ,, .					5	31·4	31·1	262	6	29·4	27·2	283	18	7·9	6·6	257	17	8·0	6·3	265	24	7·1	5·9	259

Station	BANGALORE				BAREILLY								BEGAMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·0	2·9	086	31	0·9	0·4	311	31	1·3	0·5	295	31	1·2	1·0	087	31	2·2	2·0	089	31	1·5	1·2	073
0·15 a. g. . .	29	8·3	8·1	088	28	5·8	3·6	324	31	4·2	2·3	312	30	4·4	3·9	102	31	3·8	3·5	090	31	5·3	4·6	092
0·3 a. m. s. l. .					28	5·4	3·4	323	31	4·1	2·2	313												
0·6 ,, .					28	7·4	4·4	312	31	5·5	2·8	309	30	3·3	2·9	101	31	3·6	3·3	091	31	4·2	3·6	089
0·9 ,, .					28	7·8	4·1	309	31	6·0	3·3	297	30	4·9	4·5	094	31	3·9	3·5	089	31	5·1	4·7	093
1·5 ,, .	29	6·4	6·1	090	28	8·8	4·5	304	30	7·9	4·5	303	30	6·0	4·7	079	31	4·1	3·5	081	31	4·8	3·6	079
2·1 ,, .	29	5·9	5·0	082	28	10·1	6·4	296	30	9·3	6·4	298	30	5·9	4·5	077	31	5·1	3·5	076	31	5·2	3·0	077
3·0 ,, .	29	7·3	6·0	085	25	11·4	9·1	301	28	11·7	10·3	299	30	6·3	3·5	070	31	6·8	4·0	064	31	5·9	3·2	087
3·6 ,, .	28	7·0	5·8	087	18	11·0	8·2	287	26	13·3	12·3	301	29	6·3	2·7	068	27	6·5	2·6	081	5	5·2	1·8	066
4·5 ,, .	22	5·9	3·8	079	15	13·9	11·7	281	17	15·1	13·3	287	27	6·4	1·3	076	27	6·0	0·4	050	2	8·5	4·1	007
5·4 ,, .	8	5·7	2·5	056	9	17·3	14·3	286	14	16·7	15·0	278	26	7·4	1·4	239	26	7·5	1·0	254				
6·0 ,, .	5	6·5	2·9	079	6	17·1	15·4	262	9	15·8	15·5	275	25	8·6	2·6	243	24	8·5	3·3	279				
7·2 ,, .	3	8·7	7·4	082	2	18·5	16·8	257	5	18·9	17·2	273	24	9·9	5·4	258	21	10·9	6·7	276				
9·0 ,, .					2	27·0	25·2	260	2	24·3	23·9	273	18	13·8	11·4	285	12	15·2	13·8	274				

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Wind upto 9 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886—Saka)

Station	BHAGALPUR								BHOPAL/BAIRAGARH												BHUBANESHWAR			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·0	0·7	256	31	1·9	1·7	290	31	1·1	0·7	086	31	1·4	0·6	048	31	1·5	0·8	088	31	1·8	1·4	005
0·15 a. g.	29	4·3	2·5	293	31	4·5	3·8	300	31	5·7	3·3	112	31	3·2	1·3	037	31	5·7	3·4	083	31	4·7	3·5	020
0·3 a. m. s. l.	29	4·9	2·9	309	31	4·7	4·0	302													31	4·8	3·3	037
0·6 ,,	29	5·3	3·7	323	31	4·9	4·2	299	31	5·1	2·8	108	31	3·0	1·1	034	31	5·3	3·2	085	31	4·1	2·9	044
0·9 ,,	28	5·9	4·3	314	31	5·3	4·5	297	31	5·5	2·2	096	31	3·4	1·2	037	31	4·7	2·3	077	31	3·7	2·5	036
1·5 ,,	28	7·4	5·1	302	31	7·1	5·1	289	31	4·7	1·4	318	31	3·5	0·8	328	31	4·0	0·5	331	31	4·5	3·3	351
2·1 ,,	26	9·7	6·5	301	29	9·1	6·4	295	31	6·3	3·2	298	31	5·1	1·9	297	31	5·2	1·7	273	31	6·7	5·2	340
3·0 ,,	17	12·0	9·6	301	19	11·8	9·9	300	31	8·5	5·5	275	31	8·2	5·4	285	30	7·3	4·3	274	31	7·7	5·0	325
3·6 ,,	12	12·4	11·1	300	12	11·7	11·4	299	31	9·3	6·6	272	29	9·5	6·9	280	21	8·3	5·5	274	30	8·6	6·3	306
4·5 ,,	6	9·5	6·5	295	6	13·9	11·0	302	30	11·1	8·7	271	29	11·6	9·3	268					23	9·8	7·8	304
5·4 ,,	3	15·8	13·4	270	3	13·2	13·2	314	27	14·2	12·0	265	26	15·3	12·5	270					16	12·2	9·0	287
6·0 ,,	2	13·7	13·4	297	2	15·3	15·3	307	21	14·0	11·8	258	25	17·0	14·5	264					11	12·5	11·8	263
7·2 ,,					1	18·0	18·0	310	14	19·1	17·5	262	17	19·8	17·8	259					9	15·3	14·5	261
9·0 ,,									1	21·0	21·0	290	2	31·7	31·1	267					1	12·0	12·0	270

Station	BHUBANESHWAR								BHUJ/RUDRAMATA												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2·0	1·1	026	31	1·6	0·2	106	31	1·2	1·0	017	31	3·1	2·5	021	31	1·8	1·5	350	31	0·2	0·1	311
0·15 a. g.	31	3·2	2·0	020	31	4·0	1·1	120	31	5·7	5·2	028	31	4·3	3·8	021	31	6·6	5·4	012	31	5·7	3·2	073
0·3 a. m. s. l.	31	3·1	1·9	017	31	4·1	0·7	060	31	6·4	5·7	038	31	4·4	3·8	022	31	7·1	5·9	019	31	4·5	2·5	075
0·6 ,,	31	2·8	1·9	012	31	3·2	1·8	211	31	6·6	5·1	037	31	4·7	3·6	023	31	6·6	5·7	025	31	5·6	2·5	043
0·9 ,,	31	2·9	2·0	360	31	3·5	2·6	351	31	5·7	3·5	029	31	4·6	2·9	019	31	5·7	3·8	036	31	5·1	1·8	351
1·5 ,,	31	4·2	3·2	348	31	5·1	4·1	345	31	5·5	1·1	272	31	5·3	1·7	306	31	5·6	0·4	193	31	4·9	2·0	298
2·1 ,,	30	7·4	5·9	340	30	7·1	5·5	342	31	6·8	3·7	245	31	7·5	3·5	252	31	6·4	2·5	239	31	5·9	3·8	262
3·0 ,,	30	8·3	6·2	320	30	6·7	5·2	335	31	9·6	6·9	248	31	9·8	7·2	249	31	8·6	6·0	245	29	9·6	7·0	258
3·6 ,,	27	8·3	6·3	310	2	3·3	2·3	360	31	11·1	9·0	251	29	11·0	8·8	248	7	9·9	9·4	228	27	11·6	9·4	258
4·5 ,,	25	9·1	6·3	305					30	13·7	11·5	246	27	12·6	10·7	247	1	12·0	12·0	230	23	15·1	12·8	258
5·4 ,,	19	10·3	7·4	297					29	15·3	14·2	245	26	14·2	12·9	248					19	18·8	16·8	251
6·0 ,,	14	12·1	9·2	290					28	15·8	14·9	246	24	14·6	13·5	250					13	21·1	9·4	232
7·2 ,,	8	15·8	13·6	280					12	18·0	17·0	246	13	19·5	19·0	250					2	20·7	20·1	268
9·0 ,,	3	16·7	16·1	285					2	26·0	24·5	262	2	29·7	29·3	236								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	BIKANER								BOMBAY/SANTA CRUZ															
Time in I. S. T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·1	093	31	0·9	0·6	018	31	0·8	0·7	070	31	1·6	1·1	090	31	3·8	3·5	315	31	1·5	1·3	009
0·15 a.g. .	31	3·0	0·2	078	31	6·3	4·5	041	31	3·7	2·6	041	31	3·6	2·6	083	31	4·6	3·9	307	31	4·1	3·4	003
0·3 a.m.s.l. .	31	1·7	1·2	074	31	5·3	3·6	036	31	3·8	2·8	049	31	4·2	3·3	088	31	4·0	3·1	314	31	4·4	3·7	357
0·6 ,, .	31	3·1	1·0	063	31	5·2	2·5	058	31	4·1	2·7	062	31	4·4	3·5	097	31	3·0	1·6	350	31	4·1	3·2	011
0·9 ,, .	31	3·2	0·8	055	30	3·9	1·2	116	31	3·9	2·3	081	31	4·1	2·8	112	31	3·3	1·8	066	31	4·1	2·4	041
1·5 ,, .	31	4·4	1·4	272	29	5·3	2·9	234	31	4·2	2·6	107	31	4·5	2·4	133	31	4·7	3·0	079	31	4·8	3·6	099
2·1 ,, .	31	6·4	3·6	264	28	6·0	4·1	259	31	5·0	2·3	137	31	5·8	2·0	142	31	6·0	2.8	087	31	6·6	4·8	105
3·0 ,, .	28	9·5	0·9	218	26	8·6	6·8	273	31	6·3	1·0	154	31	7 0	1·5	161	31	6·1	1·5	116	31	6·4	1·2	149
3·6 ,, .	25	11·4	8·7	263	1	13·0	13·0	300	31	7·0	1·9	215	31	7·4	2·2	187	31	6·4	2·2	171	28	6·1	2·5	189
4·5 ,, .	23	14·9	12·2	257					30	8·2	4·3	202	31	7·9	4·7	221	31	7·1	4·2	221	26	7·1	4·6	222
5·4 ,, .	16	16·4	14·7	266					30	9·3	7·3	222	30	9·7	7·6	231	31	9·7	7·1	228	19	8.0	6·0	238
6·0 ,, .	10	17·8	15·1	259					30	11·0	9·7	231	30	11·6	10·0	234	31	11·4	10·1	227	17	9·9	9·0	238
7·2 ,, .									30	13·5	12·1	232	29	15·3	13·9	239	31	14·2	13·3	230	9	13·8	13·5	238
9·0 ,, .									30	20·0	19·0	244	26	22·7	21·5	249	31	21·9	20·6	244				

Station	CALCUTTA/DUM DUM																COCHIN/WILLINGDON†							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·1	0·1	032	31	1·1	0·6	328	31	CALM			31	0·3	0·2	350	31	1·4	1·1	070	31	3·4	2·7	270
0·15 a. g. .	31	4·2	2·6	360	31	2·9	1·9	330	31	3·8	2·6	330	31	4·3	2·4	356	31	5·3	4·2	082	30	4·2	3·6	270
0·3 a. m. s. l. .	31	4·1	2·7	355	31	2·7	1·9	335	31	3·8	2·7	330	31	4·3	2·8	351	31	5·2	3·8	085	30	3·9	2·9	288
0·6 ,, .	31	4·1	2·9	353	31	3·6	2·3	3·0	31	4·0	2·7	335	31	4·5	3·1	347	31	4·7	3·5	077	30	3·6	2·2	357
0·9 ,, .	31	4·5	3·1	3·8	31	4·6	3·0	332	31	4·2	2·9	337	31	5·4	4·2	338	31	4·5	3·0	069	30	3·9	3·0	060
1·5 ,, .	31	5·9	3·5	339	30	6·5	3·7	326	31	5·5	3·4	330	31	6·0	4·9	329	30	5·1	3·5	077	30	5·7	5·3	092
2·1 ,, .	31	7·1	4·7	325	27	8·4	5·7	323	31	7·5	4·7	317	30	8·5	5·2	318	30	6·9	5·3	097	30	6·9	6·1	090
3·0 ,, .	31	9·5	8·0	310	24	10·9	8·5	305	31	10·3	8·3	307	19	9·5	7·2	301	26	7·5	5·9	081	29	8·3	6·1	079
3·6 ,, .	31	9·9	8·5	302	22	12·3	11·2	299	31	11·4	9·9	304	5	8·4	7·4	272	15	7·2	5·0	083	26	8·0	6·0	081
4·5 ,, .	31	11·0	9·7	295	20	16·3	15·1	295	31	13·6	12·4	297									19	10·3	9·1	084
5·4 ,, .	31	13·7	12·6	291	17	20·6	19·4	288	31	15·9	14·4	296									15	10·1	9·1	079
6·0 ,, .	30	14·8	13·6	288	12	19·1	18·4	287	31	17·2	15·6	292									15	10·0	8·9	086
7·2 ,, .	30	19·2	17·7	284	9	22·9	21·2	284	31	20·5	19·0	284									4	6·0	5·2	127
9·0 ,, .	30	24·1	22·3	281	4	29·2	27·6	286	31	25·0	23·7	281												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	COCHIN/ WILLINGDON†				DEHRA DUN								DIBRUGARH/MOHANBARI											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·2	045	31	0·2	0·1	024	31	0·5	0·3	235	31	0·9	0·6	044	31	0·2	0·2	059	31	3·7	0·3	040
0·15 a.g. .	31	3·7	1·6	047	30	1·5	0·8	088	29	2·7	1·8	257	27	4·1	3·5	058	30	1·7	1·1	066	30	2·2	0·2	025
0·3 a.m.s.l. .	31	4·2	1·2	041									27	3·9	3·6	059	30	1·7	1·1	064	30	2·1	0·2	030
0·6 ,, .	31	4·8	2·6	079									27	2·6	2·2	052	30	1·8	1·1	062	30	1·9	1·3	065
0·9 ,, .	31	5·1	4·1	095	30	1·4	0·5	157	29	2·7	1·9	262	27	2·4	1·1	052	30	2·0	1·3	076	30	2·0	0·7	118
1·5 ,, .	30	4·9	4·2	095	30	2·8	0·6	288	29	2·6	1·0	317	27	2·4	0·8	079	29	2·7	0·4	128	29	2·9	1·7	197
2·1 ,, .	28	6·3	5·3	077	29	4·5	1·9	286	28	4·9	2·4	286	26	2·7	0·6	142	28	3·2	1·0	180	28	3·7	2·5	192
3·0 ,, .	24	7·0	6·0	081	24	4·8	2·9	294	24	7·6	3·6	302	24	3·4	0·8	030	27	4·2	1·4	215	26	4·7	2·7	215
3·6 ,, .	11	7·9	6·9	081	14	7·0	5·7	289	24	8·2	4·8	306	21	4·3	0·7	011	23	6·1	4·1	288	24	4·7	1·4	235
4·5 ,, .					4	9·5	8·5	254	21	10·0	7·3	331	18	7·1	5·3	296	19	12·5	10·8	288	21	9·2	6·9	260
5·4 ,, .					3	14·2	12·8	253	17	14·1	13·9	285	16	10·6	8·7	290	13	13·9	11·5	292	17	10·9	7·9	293
6·0 ,, .					1	16·0	16·0	230	10	16·7	15·0	273	10	11·3	9·8	295	12	16·1	12·9	293	17	12·6	8·8	294
7·2 ,, .									5	21·6	20·0	287	2	10·3	10·2	280	5	20·3	19·8	297	7	18·9	14·5	300
9·0 ,, .									1	23·0	23·0	290					5	31·2	30·6	292	1	30·0	30·0	320

Station	DIBRUGARH/ MOHANBARI				GADAG												GANGTOK							
Time in I. S. T.	2330				0530				1730				2330				0830				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·4	043	31	4·6	4·2	112	31	3·9	3·6	090	31	4·7	4·4	091	31	0·3	0·1	022	31	0·6	0·5	170
0·15 a.g. .	28	2·9	2·5	050	31	7·5	7·3	111	31	5·4	5·1	087	31	8·3	7·9	083	23	1·2	0·2	034	18	2·2	2·1	173
0·3 a.m.s.l. .	28	2·8	2·5	060																				
0·6 ,, .	28	2·5	2·3	068																				
0·9 ,, .	28	2·2	1·6	066	31	8·0	7·8	105	31	5·3	5·1	088	31	8·7	8·5	086								
1·5 ,, .	27	2·1	0·5	180	31	7·5	6·9	082	31	5·6	5·3	088	31	7·3	7·0	086								
2·1 ,, .	27	3·3	1·7	228	30	7·0	6·1	084	31	5·9	5·2	085	31	7·2	6·4	089	23	1·1	0·4	172	18	1·7	1·5	180
3·0 ,, .	24	5·1	2·2	261	30	7·0	5·4	090	29	7·0	5·4	089	30	6·7	5·1	093	23	2·1	0·5	072	14	1·6	0·5	333
3·6 ,, .	8	6·9	5·0	255	29	6·6	3·9	090	29	6·7	4·2	089	30	6·2	3·7	093	21	5·2	4·0	330	12	3·5	2·4	280
4·5 ,, .					28	6·2	2·2	114	26	6·4	3·2	114	15	6·3	1·9	187	19	8·8	5·9	286	10	6·2	5·2	296
5·4 ,, .					28	6·7	2·6	162	26	7·1	2·1	144	8	7·7	3·3	216	17	13·5	11·8	281	8	6·4	4·7	330
6·0 ,, .					27	6·9	2·4	180	25	7·0	1·6	180	4	6·7	3·5	229	16	10·6	9·9	270	8	8·6	7·2	334
7·2 ,, .					27	7·7	5·0	233	25	7·2	4·1	248					13	18·7	17·6	290	7	13·1	12·6	302
9·0 ,, .					26	11·7	10·3	250	25	12·1	10·8	256					8	36·1	34·3	294	4	35·0	33·7	290

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10,—Pausa 10, 1886 Saka)

Station	GAUHATI																GAYA							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·1	045	31	1·5	0·9	026	31	0·2	0·2	256	31	0·3	0·3	193	31	0·7	0·5	215	31	1·7	1·4	311
0·15 a. g. .	31	2·3	0·9	114	31	2·2	1·6	037	31	3·2	1·8	050	31	2·4	0·8	174	31	4·0	2·5	264	31	4·5	3·9	308
0·3 a. m. s. l. .	31	2·6	0·9	111	31	2·2	1·8	066	31	3·3	1·4	048	31	2·9	0·4	133	31	4·2	2·4	280	31	4·6	4·0	309
0·6 ,, .	31	3·5	0·7	089	31	3·6	1·9	081	31	3·0	0·5	098	31	3·4	0·3	120	31	5·3	2·8	315	31	4·9	4·3	302
0·9 ,, .	31	4·1	0·8	104	31	3·6	1·4	108	31	3·0	0·9	258	31	3·2	0·8	268	31	5·6	3·4	304	31	5·0	4·3	297
1·5 ,, .	31	4·5	0·1	302	31	3·4	0 9	212	31	5·1	3·1	264	31	4·1	2·2	255	31	6·9	5·3	306	31	7·0	5·2	295
2·1 ,, .	31	5·6	1·8	271	31	5·1	2·2	257	31	6·7	4·5	251	29	5·4	2·2	255	31	8·7	6·3	307	31	8·3	7·4	294
3·0 ,, .	31	9·1	5·5	293	30	8·9	5·1	265	31	9·2	6·0	271	24	8·3	4·3	287	31	12·9	11·3	305	31	12·6	10·4	302
3·6 ,, .	31	13·5	10·5	288	28	12·3	8 8	282	31	13·0	10·8	281	10	8·6	5·1	280	24	12·8	11·8	300	28	13·2	11·9	297
4·5 ,, .	31	18·3	16·2	290	27	15·5	13 7	284	31	17·7	16·1	284	3	16·3	13·9	299	15	13·1	11·8	279	21	15·3	13·6	292
5·4 ,, .	31	20·7	19·4	289	25	17·9	16·0	285	31	23·4	21·8	287	1	8·0	8·0	020	12	17·6	14·9	276	14	17·4	15·9	285
6·0 ,, .	31	22·4	20·8	287	24	19·3	18·3	283	31	23·9	22·1	288				-	10	20·1	17·2	274	14	20·5	19·1	278
7·2 ,, .	29	27·6	24·8	284	18	24·7	23·4	285	28	28·5	26·0	291					4	27·1	22·2	290	8	26·4	24·0	284
9·0 ,, .	24	34·5	32·7	290	10	30·6	28·4	287	25	36·9	34·0	288					1	21·0	21·0	310				

Station	GAYA				GOPALPUR												GORAKHPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·4	0·2	229	31	1·9	1·8	326	31	1·7	1·4	098	31	0·9	0·7	316	31	0·3	0·3	277	31	0·5	0·4	265
0·15 a. g. .	30	5·5	3·3	323	31	5·3	5·0	347	31	4·0	3·6	095	31	2·8	0·9	025	28	4·0	2·8	308	31	3·2	2·8	273
0·3 a. m. s. l. .	30	5·7	3·4	330	31	4·0	2·6	015	31	4·1	3·7	086	31	2·6	1·3	061	28	4·3	3·3	304	31	3·6	3·3	275
0·6 ,, .	30	5·9	4·2	323	31	4·0	3·0	050	31	3·2	2·4	043	31	3·0	2·1	053	28	5·6	4·3	293	31	4·6	4·2	281
0·9 ,, .	30	5·3	3·9	301	31	4·1	3·5	050	31	3·8	3·3	049	31	3·7	3·1	027	28	6·8	4·7	295	31	5·3	4·5	281
1·5 ,, .	30	7·1	5·5	281	31	4·6	3·3	028	31	5·1	4·1	340	31	4·3	3·5	003	28	8·9	5·7	292	31	8·0	5·1	290
2·1 ,, .	30	8·3	7·1	298	31	6·1	4·2	013	31	5·4	4·9	350	31	5·7	4·0	357	28	10·6	7·1	295	31	10·0	7·1	290
3·0 ,, .	21	8·8	7·9	301	30	7·9	5·1	332	30	7·6	5·0	341	27	5·5	3·2	335	22	12·4	9·7	290	29	13·4	11·3	295
3·6 ,, .	8	9·9	8·7	287	29	7·2	5·1	322	30	7·1	5·4	324	1	4·0	4·0	235	17	13·2	10·7	291	25	14·3	12·9	295
4·5 ,, .	1	5·0	5·0	245	25	7·1	3·9	304	29	8·5	4·7	324					10	13·3	10·2	278	19	15·5	14·1	292
5·4 ,, .	1	8·0	8·0	245	21	10·6	8·4	286	28	9·7	7·5	294					5	12·1	11·5	295	14	17·3	15·6	293
6·0 ,, .					20	11·6	9·0	282	28	11·5	9·2	286					3	16·2	16·0	313	10	16·8	14·8	291
					3	8·5	8·1	254	19	12·7	11·8	278					2	25·0	24·5	311	4	23·0	20·4	300
7·2 ,, .									7	17·1	15·9	255					1	21·0	21·0	295	1	22·5	22·5	315
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	GWALIOR																IMPHAL/TULIHAL							
Time in I. S. T.	0530				1130				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·1	180	31	1·4	0·6	339	31	1·0	0·6	008	31	0·4	0·1	323	31	0·1	0·1	045	31	0·4	0·2	246
0·15 a. g.	31	4·4	0·9	020	31	2·7	0·6	351	31	3·0	2·0	016	31	4·2	1·9	050	18	1·9	1·4	050	31	1·5	1·1	213
0·3 a. m. s. l.	31	3·3	0·3	341	31	2·5	0·9	350	31	2·6	1·6	008	31	3·4	1·6	044								
0·6 ,,	31	5·2	1·0	004	31	3·2	0·6	318	31	3·5	2·0	359	31	4·3	1·3	042								
0·9 ,,	31	5·1	1·6	310	31	4·1	1·7	288	31	3·3	1·8	320	31	4·8	1·9	305	18	1·7	1·4	050	31	1·5	0·9	208
1·5 ,,	31	6·8	4·2	292	31	6·3	4·0	293	31	6·0	4·6	298	31	6·6	4·6	292	18	2·9	0·4	027	31	2·8	1·0	207
2·1 ,,	30	8·6	5·9	290	31	8·1	5·8	289	30	8·3	6·5	291	31	7·9	6·2	289	18	5·9	1·5	283	30	5·3	1·3	248
3·0 ,,	29	10·5	8·2	292	30	10·2	8·1	283	30	11·9	9·7	279	29	9·4	8·1	282	12	8·6	4·7	303	29	8·5	5·5	279
3·6 ,,	27	12·2	10·4	292	28	12·0	10·3	287	30	13·1	11·2	276					8	12·7	8·9	289	27	12·4	10·1	286
4·5 ,,	24	14·6	12·7	283	24	14·8	12·9	279	27	15·6	14·1	276					5	14·5	13·9	283	15	15·8	15·0	285
5·4 ,,	20	16·6	13·6	272	24	18·2	15·7	277	23	17·7	16·4	267					3	16·8	16·7	298	9	17·4	16·9	292
6·0 ,,	19	16·4	14·4	271	24	18·6	16·6	275	20	19·2	18·0	262					1	12·0	12·0	295	5	16·6	15·6	300
																					3	23·0	20·0	306
7·2 ,,	11	20·1	18·0	268	16	23·1	21·3	260	13	22·7	22·0	255												
9·0 ,,	6	30·1	28·3	267	5	32·9	32·4	258	2	23·5	23·4	259												

Station	IMPHAL/TULIHAL								JABALPUR												JAGDALPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·8	247	31	0·7	0·3	022	31	0·5	0·3	137	31	0·4	0·3	013	31	0·3	0·2	152	31	C	A	L	M
0·15 a. g.	31	2·9	2·0	241	31	2·0	0·1	030	31	3·7	2·4	128	31	2·6	1·5	016	31	3·9	2·1	075	22	2·7	2·4	053
0·3 a. m. s. l.																								
0·6 ,,									31	4·1	2·3	123	31	2·8	1·6	014	31	4·0	2·0	064	22	1·3	1·1	050
0·9 ,,	31	2·8	1·7	236	31	2·0	0·1	023	30	4·1	0·9	022	31	3·1	1·8	001	31	3·3	1·1	048	22	3·6	3·0	059
1·5 ,,	31	3·1	2·0	238	31	3·0	1·6	259	30	5·4	3·4	331	31	5·0	3·3	329	31	4·7	2·6	328	22	3·5	2·3	028
2·1 ,,	30	4·6	2·0	244	31	5·0	3·6	269	30	7·3	5·1	313	31	6·7	4·6	310	31	6·3	4·3	317	22	4·9	2·3	027
3·0 ,,	28	9·0	6·1	282	19	8·0	5·7	275	30	9·1	7·1	294	31	8·6	6·5	298	29	7·8	5·9	302	22	6·9	3·5	084
3·6 ,,	24	13·2	10·5	285	7	15·0	15·0	278	29	10·2	8·0	290	31	10·5	7·8	291	13	8·6	7·5	290	22	6·1	2·1	316
4·5 ,,	18	12·7	10·4	291	1	13·0	13·0	270	28	12·8	10·3	284	31	12·3	10·5	279	2	3·7	3·5	228	20	7·0	3·8	269
5·4 ,,	8	14·8	10·1	322					26	15·5	13·1	267	25	16·5	14·7	273	1	15·0	15·0	245	20	8·4	5·7	263
6·0 ,,	3	15·0	14·8	302					22	16·3	14·0	269	21	18·2	16·0	272					18	10·2	7·4	270
7·2 ,,	3	21·0	15·2	332					9	17·6	16·0	268	10	18·4	16·7	277					16	14·3	11·9	270
9·0 ,,																					12	18·5	17·5	273

Table IV—Monthly Mean Directions And Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	JAGDALPUR								JAIPUR/SANGANER												JAMSHEDPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·4	0·4	009	31	C	A	L	M	31	0·9	0·5	051	31	1·0	0·3	008	31	1·3	0·9	062	31	0·3	0·3	310
0·15 a. g. .	30	2·3	2·0	025	31	4·6	4·2	060	31	5·5	2·9	061	31	2·9	0·6	358	31	5·0	2·9	068	31	2·8	2·2	303
0·3 a.m.s.l. .																					31	2·9	1·9	322
0·6 ,, .	30	1·6	1·3	026	31	3·0	2·6	063	31	5·7	2·4	060	31	3·0	0·6	354	31	4·9	2·4	071	31	3·7	2·1	351
0·9 ,, .	30	2·6	2·3	021	31	4·9	4·3	054	31	4·9	0·8	302	31	3·0	0·7	325	31	3·8	1·0	099	31	4·3	2·4	353
1·5 ,, .	30	2·7	2·3	011	31	2·4	1·7	029	30	5·8	3·3	280	31	4·9	2·9	295	31	4·7	2·1	270	31	6·2	4·2	335
2·1 ,, .	30	4·7	3·0	032	31	5·0	3·2	029	30	7·8	4·9	268	31	7·5	5·3	282	31	6·8	4·5	270	31	8·5	6·4	324
3·0 ,, .	29	6·6	3·7	010	31	6·0	3·1	352	28	10·7	8·2	265	30	10·7	8·6	272	31	10·2	7·7	268	30	10·7	8·8	310
3·6 ,, .	28	6·4	3·0	344	16	5·9	2·4	334	26	12·6	9·9	269	30	13·0	11·1	267	20	14·0	11·6	266	28	11·5	9·1	298
4·5 ,, .	26	7·2	3·6	304	4	7·9	7·2	256	23	14·2	12·2	276	30	15·9	14·1	264					25	12·3	11·0	288
5·4 ,, .	26	9·0	5·4	282	4	10·1	9·2	242	21	16·5	14·1	268	25	17·3	15·2	266					15	13·2	12·1	277
6·0 ,, .	26	10·3	6·3	282					10	14·3	12·7	251	23	19·4	18·1	263					10	16·3	14·1	281
7·2 ,, .	26	12·6	10·0	273					5	19·0	18·9	249	13	17·6	16·9	263					2	24·5	22·0	304
9·0 ,, .	15	20·4	18·1	272									2	18·7	18·7	274								

Station	JAMSHEDPUR				JHARSUGUDA												JODHPUR							
Time in I. S. T.	1730				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·3	0·3	358	31	1·5	1·4	024	31	0·7	0·3	270	31	0·7	0·4	343	31	2·3	2·2	035	31	1·8	1·7	047
0·15 a.g. .	31	2·2	1·6	339	31	3·7	3·4	045	31	1·8	0·8	296	31	3·1	1·6	310	31	6·5	6·0	035	31	4·1	2·9	054
0·3 a.m.s.l. .	31	2·2	1·6	340	31	3·2	3·0	036	31	1·8	0·7	292	31	2·7	1·1	330	31	6·7	5·8	038	31	3·7	2·9	049
0·6 ,, .	31	2·7	2·0	331	31	3·6	2·5	043	31	2·0	1·2	315	31	3·5	1·8	317	31	5·7	3·9	044	31	4·3	2·4	052
0·9 ,, .	31	2·9	2·1	326	31	3·6	1·8	020	31	2·1	1·3	320	31	3·3	1·5	326	31	4·8	1·4	024	31	4·0	1·4	029
1·5 ,, .	31	4·7	3·8	316	31	4·6	3·3	344	31	4·2	3·0	333	31	4·0	2·5	357	31	5·0	2·0	257	31	4·2	1·4	256
2·1 ,, .	30	7·9	6·0	321	31	7·0	5·5	335	31	7·2	5·7	329	31	6·6	4·7	327	29	6·8	4·4	253	31	6·8	4·4	245
3·0 ,, .	29	10·7	9·2	311	31	9·6	6·9	324	31	9·8	7·7	319	31	8·6	6·5	313	27	8·5	6·4	249	30	9·5	7·9	251
3·6 ,, .	27	11·1	9·9	299	31	10·7	7·7	313	31	10·5	8·6	306	5	9·7	9·0	274	22	11·3	10·0	247	26	11·1	9·6	251
4·5 ,, .	22	13·8	12·1	291	31	11·6	9·6	285	31	11·7	10·1	291					20	17·1	16·3	248	24	15·1	13·4	252
5·4 ,, .	14	14·2	12·0	285	23	13·2	10·6	282	28	14·4	12·5	290					18	21·5	20·4	243	23	18·3	17·1	251
6·0 ,, .	7	17·1	14·3	281	17	13·0	11·2	276	23	15·9	13·8	281					18	21·9	20·6	245	23	20·9	19·5	252
7·2 ,, .	1	18·0	18·0	270	10	15·3	13·9	271	9	19·4	18·0	272					17	29·1	27·5	246	21	24·4	23·1	252
9·0 ,, .					3	27·0	26·6	280	3	29·8	29·6	267					10	32·7	30·5	253	16	30·3	28·8	262

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	JODHPUR								LUCKNOW/AMAUSI												MADRAS/MINAMBAKKAM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·0	008	31	2·2	1·8	017	31	0·6	0·2	275	31	1·5	1·1	298	31	0·8	0·6	271	31	4·0	3·6	024
0·15 a. g.	31	4·5	3·1	010	31	6·8	4·4	030	31	5·5	3·2	327	31	4·3	3·0	300	31	6·4	4·4	314	31	6·9	6·5	028
0·3 a. m. s. l.	31	4·5	3·1	010	31	6·1	4·6	025	31	5·5	3·2	334	31	4·4	3·2	303	31	6·4	4·5	317	31	6·8	6·3	038
0·6 ,,	31	4·0	2·1	011	31	5·6	3·3	055	31	6·1	3·5	312	31	4·8	3·5	307	31	6·0	4·3	306	31	6·8	6·3	053
0·9 ,,	31	3·5	1·0	001	31	4·2	1·4	094	31	7·0	4·3	299	31	5·6	4·4	300	31	6·2	4·3	301	31	6·4	5·9	062
1·5 ,,	31	4·3	1·7	269	31	5·2	2·2	212	31	8·8	6·0	303	31	8·2	5·5	304	31	8·0	5·1	300	31	6·0	5·1	080
2·1 ,,	31	6·6	4·0	252	31	7·1	4·1	233	29	11·0	8·8	305	31	10·1	8·4	303	28	10·0	8·1	295	31	7·5	6·5	084
3·0 ,,	29	9·5	6·8	253	25	8·6	5·9	254	23	12·5	11·0	300	30	12·9	11·3	300	16	10·2	8·2	280	31	7·8	6·3	087
3·6 ,,	25	12·3	10·0	255	7	6·9	4·6	270	14	13·2	11·1	298	30	13·8	12·4	297	6	8·1	7·2	266	31	8·1	5·8	087
4·5 ,,	24	16·0	14·1	252	1	9·0	9·0	305	8	13·4	12·4	270	26	17·0	15·2	290	1	14·5	14·5	310	31	7·5	5·5	093
5·4 ,,	23	21·3	18·5	247					7	15·1	14·3	272	22	19·9	18·2	283					31	6·9	4·4	096
6·0 ,,	22	24·5	22·1	246					4	19·2	17·6	266	19	21·7	19·6	282					31	6·8	3·8	100
7·2 ,,	19	30·8	27·6	247					2	32·2	27·6	275	14	27·1	26·0	273					31	6·2	1·2	123
9·0 ,,	15	39·3	32·0	252									6	36·0	34·2	275					31	7·6	4·1	260

Station	MADRAS/MINAMBAKKAM												MANGALORE/BAJPE											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·5	3·9	028	31	5·1	5·0	043	31	3·3	3·1	019	31	1·6	1·2	088	31	3·3	3·1	277	31	0·9	0·4	021
0·15 a.g.	31	6·2	5·6	038	31	7·3	7·1	041	31	6·2	5·9	037	30	5·4	4·8	090	31	4·7	4·1	277	30	3·7	3·0	341
0·3 a. m. s. l.	31	6·5	6·1	040	31	7·1	6·9	042	31	6·7	6·5	042	30	5·5	4·9	090	31	4·6	3·8	281	30	3·6	3·1	338
0·6 ,,	31	6·1	5·7	047	31	6·7	6·4	048	31	7·0	6·8	048	30	5·5	5·0	094	31	2·8	0·6	315	30	3·5	2·8	343
0·9 ,,	29	6·3	5·9	056	31	6·5	6·2	051	30	7·1	6·9	054	30	5·4	4·8	098	31	2·8	2·1	083	30	3.5	2·5	037
1·5 ,,	26	5·9	5·1	070	31	5·6	4·8	075	30	6·3	5·6	066	30	5·0	4·2	090	31	6·1	5·7	085	30	7·1	6·8	080
2·1 ,,	21	6·7	5·7	082	31	6·4	5·0	087	30	6·7	5·9	070	30	6·6	5·5	087	30	8·1	7·7	080	30	7·5	7·2	090
3·0 ,,	15	7·8	6·3	086	31	7·2	5·6	084	29	6·9	5·3	081	30	7·7	6·2	087	30	7·3	5·9	086	30	7·3	5·7	088
3·6 ,,	8	7·7	7·1	096	31	7·0	5·5	087	17	7·1	5·1	086	29	7·5	5·9	089	30	7·3	5·5	087	22	7·0	4·9	073
4·5 ,,	7	7·1	6·3	107	31	7·1	5·2	090	12	6·5	4·4	093	29	7·2	4·5	095	28	7·2	4·6	094	16	5·7	2·4	079
5·4 ,,	6	6·3	3·7	105	31	7·1	4·1	093	6	8·9	5·1	090	29	7·3	4·3	111	27	6·7	3·5	105	10	5·7	1·7	120
6·0 ,,	5	4·2	3·0	046	31	6·6	3·1	100	5	8·0	3·8	110	28	6·9	4·0	118	27	7·0	3·9	119	6	5·9	2·5	114
7·2 ,,	4	3·6	1·9	258	31	6·7	1·6	125	2	12·3	9·5	161	26	5·9	2·3	143	26	6·5	1·6	147				
9·0 ,,	3	8·5	5·0	304	31	7·6	4·1	281	1	11·0	11·0	055	17	9·0	6·1	242	19	8·2	6·0	245				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS
Winds up to 9·0 Km. above mean sea level.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	MINICOY																NAGPUR/SONEGAON							
Time in I.S.T.	0530				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·8	0·1	027	31	1·8	1·1	053	31	1·2	0·7	010	31	1·0	0·8	060	31	1·6	1·2	028	31	1·4	1·2	047
0·15 a.g. . .	31	3·3	1·8	047	31	3·8	2·7	047	31	3·0	2·1	025	31	3·7	2·6	058	31	3·2	2·6	056	31	2·8	2·1	045
0·3 a.m.s.l. .	31	3·2	1·8	045	31	4·0	3·1	042	31	3·3	2·4	031	31	3·8	3·0	054								
0·6 ,, .	31	3·6	2·4	068	31	4·0	3·0	058	31	3·8	2·9	041	31	4·0	3·1	059	31	3·4	2·6	067	31	3·1	2·1	064
0·9 ,, .	31	4·4	3·3	085	30	4·7	3·7	077	31	4·1	3·1	056	31	4·4	3·3	075	31	3·2	2·1	071	31	3·4	1·7	067
1·5 ,, .	31	5·1	4·2	084	30	5·0	3·9	088	31	3·6	2·2	090	31	4·1	2·9	090	31	3·5	2·1	007	31	3·8	1·7	039
2·1 ,, .	31	5·3	4·1	088	31	4·8	3·5	088	31	4·4	2·4	087	30	4·7	3·7	082	31	4·5	1·8	288	31	4·5	2·0	330
3·0 ,, .	30	5·9	4·6	092	27	5·9	4·4	086	31	5·1	4·1	078	27	5·6	4·9	078	31	5·5	2·8	304	30	5·9	2·7	283
3·6 ,, .	28	6·8	5·3	097	24	6·5	4·9	093	31	6·0	5·1	079	14	6·1	5·0	091	31	6·2	3·6	288	30	7·2	3·8	279
4·5 ,, .	24	7·9	7·5	096	21	8·0	7·5	091	31	6·8	5·8	079	2	6·0	5·5	110	31	8·3	5·5	289	30	8·8	6·3	270
5·4 ,, .	23	7·8	7·0	094	20	7·3	6·6	092	31	7·2	6·0	082					31	11·1	9·4	275	29	11·7	9·5	265
6·0 ,, .	22	7·8	7·1	097	20	7·3	6·7	090	31	7·0	5·7	078					31	12·4	10·1	261	28	13·6	11·4	258
7·2 ,, .	18	7·0	5·5	108	13	6·8	6·7	117	31	7·5	5·9	101					31	15·3	13·7	261	28	17·1	15·6	257
9·0 ,, .	6	3·6	5·1	184	6	6·8	3·6	125	30	5·4	1·9	157					31	20·5	19·2	265	24	25·1	23·4	263

Station	NAGPUR/SONEGAON								NEW DELHI/SAFDARJUNG															
Time in I.S.T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·8	0·7	060	31	1·3	0·7	055	31	2·1	1·2	337	31	2·7	1·5	303	31	2·0	1·2	328	31	1·4	1·0	199
0·15 a.g. .	31	2·4	1·8	075	31	4·3	3·5	090	31	5·6	3·3	339	31	4·3	1·9	308	31	4·4	2·2	330	31	6·0	3·4	325
0·3 a. m. s. l. .									31	3·7	2·2	329	31	3·9	2·0	310	31	3·2	1·5	333	31	4·9	3·0	324
0·6 ,, .	31	2·3	1·7	076	31	4·1	3·4	085	31	5·5	3·1	329	31	5·3	2·7	315	31	4·6	3·1	312	31	5·9	3·1	318
0·9 ,, .	31	2·3	1·3	076	31	3·5	2·5	072	31	5·7	3·7	312	30	5·9	3·9	315	31	5·0	3·0	319	31	5·8	3·2	295
1·5 ,, .	31	3·3	1·9	011	31	3·9	2·2	007	31	6·8	4·5	310	28	6·7	4·9	303	31	6·5	4·4	309	31	6·6	4·7	292
2·1 ,, .	31	4·1	2·6	350	31	4·3	1·5	341	31	8·1	5·9	301	28	8·7	5·6	200	31	8·2	6·2	295	30	8·2	6·0	283
3·0 ,, .	31	6·0	3·4	310	31	5·5	2·9	291	31	10·5	7·8	282	26	10·1	8·3	285	31	10·6	8·7	282	26	9·6	7·3	268
3·6 ,, .	31	6·4	3·8	290	27	6·4	3·8	280	31	13·4	10·5	274	25	12·9	9·7	290	31	12·7	10·4	277	2	5·0	4·8	275
4·5 ,, .	31	7·9	5·5	284	12	8·9	7·4	265	31	16·6	14·0	270	23	16·1	13·8	276	31	16·4	14·1	272	1	9·0	9·0	255
5·4 ,, .	31	10·6	8·5	272	3	14·7	14·3	248	31	20·5	18·3	269	21	19·8	18·1	270	31	21·2	19·2	271				
6·0 ,, .	31	12·7	11·0	260	1	18·5	18·5	245	31	23·3	21·0	267	21	22·7	21·1	263	31	23·3	21·6	267				
7·2 ,, .	31	15·0	13·7	260					31	28·3	26·0	263	15	26·5	24·3	266	30	28·3	26·0	262				
9·0 ,, .	31	19·5	18·3	264					27	33·2	31·4	262	6	31·3	29·3	258	28	34·6	31·7	262				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	..	CALM	..	31	0·8	0·5	060	31	0·1	0·1	090	31	2·5	2·3	056	31	4·1	3·8	064	31	3·6	3·0	059
0·15 a.g. . .	30	3·1	2·6	100	31	3·8	2·7	076	31	4·1	2·9	089	31	6·2	5·6	055	31	6·9	6·5	058	31	6·7	6·1	062
0·3 a. m.s.l. .													31	6·2	5·6	056	31	7·2	6·6	060	31	6·7	6·0	062
0·6 ,, .	30	1·5	0·4	190	31	2·3	1·7	078	31	1·7	0·9	136	31	6·5	5·9	062	31	7·6	6·9	062	31	6·6	6·1	064
0·9 ,, .	30	5·1	4·8	106	31	3·3	1·9	078	31	5·5	4·4	082	31	7·2	6·6	069	29	7·3	6·4	066	31	6·5	6·0	068
1·5 ,, .	30	5·8	5·3	103	31	3·5	2·6	090	31	5·7	5·7	094	31	6·8	6·0	084	23	6·0	4·9	076	31	6·1	5·2	084
2·1 ,, .	30	5·6	3·5	108	31	4·9	2·9	073	31	5·8	4·5	095	31	5·9	5·3	082	21	5·4	4·1	074	31	6·0	5·0	081
3·0 ,, .	30	6·4	0·6	159	31	5·9	2·2	127	31	5·9	2·4	136	31	6·2	4·8	081	15	4·9	4·0	070	31	6·7	5·4	073
3·6 ,, .	28	6·5	2·5	201	31	6·3	1·5	166	29	6·2	2·4	182	31	7·0	5·3	076	14	7·2	4·7	060	31	7·1	5·2	064
4·5 ,, .	10	5·7	3·1	217	30	7·3	4·2	228	11	6·0	3·2	226	31	7·8	5·9	063	10	8·1	5·9	062	31	7·8	6·1	060
5·4 ,, .	3	8·2	8·2	220	29	9·7	7·7	234	5	10·2	8·8	226	31	8·1	6·5	059	8	6·4	3·8	054	31	7·8	6·3	058
6·0 ,, .	1	9·0	9·0	260	28	10·7	9·4	239	1	12·0	12·0	220	31	7·7	6·1	654	8	6·4	3·3	063	31	7·1	5·6	052
7·2 ,, .					25	13·9	12·3	245					31	6·2	4·6	062	7	6·0	1·9	022	31	6·7	4·5	061
9.0 ,, .					16	21·0	10·4	254					30	6·5	2·1	356	4	5·4	2·1	131	30	6·1	2·0	340

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·6	3.2	056	31	0.6	0·4	023	31	0·8	0·7	023	31	1·1	0·9	075	31	1·2	0·3	033	31	1·5	1·2	265
0·15 a.g. . .	31	6·3	4·2	045	31	2·8	2·4	065	31	1·8	1·5	027	31	3·1	2·5	076	25	3·4	1·1	348	31	3·7	3·0	262
0·3 a. m.s.l. .	31	6·4	5·9	060													25	3·3	1·4	330	31	3·8	3·1	264
0·6 ,, .	31	6·2	5.7	064	31	3·0	2·1	077	31	1·8	1·5	023	31	2·7	2·1	068	25	4·0	2·5	301	31	4·0	3·2	272
0·9 ,, .	26	6·3	5·7	073	30	3·0	2·0	060	31	1·9	1·5	016	31	2·6	1·9	035	25	5·2	2·7	286	31	3·6	3·2	280
1·5 ,, .	22	5·4	4·7	081	30	4·5	3·3	010	31	4·4	3·3	357	31	4·7	3·3	355	25	7·0	3·5	283	31	5·5	3·4	299
2·1 ,, .	20	5·6	4·8	078	30	6·5	4·2	355	31	5·9	4·1	342	31	5·3	3·5	336	25	8·9	4·9	290	31	8·0	5·1	249
3·0 ,, .	18	6·7	5·7	068	31	7·2	3·2	307	31	7·5	4·8	317	31	6·6	4·3	311	11	10·1	8·4	285	21	11·8	10·2	293
3·7 ,, .	9	5·5	4·8	078	31	8·1	5·8	299	31	8·3	5·6	298	25	7·0	4·9	291	6	12·9	12·7	296	12	10·9	10·8	290
4.5 ,, .	4	8·9	6·7	071	31	9·2	3·7	294	31	10·0	7·8	284	10	10·5	7·9	286	2	10·0	9·9	275	3	7·5	7·3	288
5·4 ,, .	4	8.4	7·9	062	30	11·9	9·3	270	31	13·1	11·0	273	5	14·6	14·4	250								
6·0 ,, .	3	8·7	8·4	064	28	12·9	9·7	265	30	14·8	12·8	267	2	13·3	13·2	240								
7·2 ,, .					23	16·1	14·4	260	24	19·1	17·5	260												
9.0 ,, .					11	22·8	22·0	266	6	17·7	16·6	268												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	SILIGURI/BAGHDOGRA												SRINAGAR								TIRUCHCHIRAPPALLI			
Time in I.S.T.	0530				1730				2330				0530*				1730*				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.5	1.4	035	31	1.1	1.0	222	31	1.3	1.1	002	8	CALM			9	0.5	0.4	300	31	3.8	3.3	016
0.15 a. g. .	29	3.4	2.9	070	31	2.5	1.8	219	31	1.8	0.3	029	8	1.6	1.2	150	9	1.2	0.4	264	30	8.1	7.6	021
0.3 a. m. s. l. .	29	3.5	3.1	076	31	2.4	1.8	222	31	1.8	0.3	315									30	8.9	8.3	031
0.6 ,, .	29	3.1	2.7	074	31	2.6	1.9	234	31	2.1	0.8	275									30	9.5	8.7	046
0.9 ,, .	29	2.8	1.9	071	31	2.8	1.6	236	31	2.3	0.4	273									29	8.4	7.8	052
1.5 ,, .	29	3.3	0.8	070	31	3.0	1.7	268	31	3.3	0.5	045									28	6.7	6.1	065
2.1 ,, .	27	4.5	0.5	069	31	4.5	2.3	294	30	5.6	2.5	299	8	1.3	0.8	159	9	1.8	0.8	126	27	6.4	5.4	080
3.0 ,, .	24	10.1	6.3	287	29	9.3	8.1	287	29	10.4	9.7	285	8	4.5	3.3	143	9	5.2	5.0	149	24	8.1	6.3	083
3.6 ,, .	21	15.9	10.6	303	24	14.3	13.2	288	3	12.2	6.2	294	7	7.0	6.7	162	9	5.6	5.5	164	24	8.6	6.4	078
4.5 ,, .	18	13.8	9.1	310	20	15.4	14.8	292					7	9.6	8.9	170	9	8.9	7.7	198	21	7.2	5.6	085
5.6 ,, .	14	13.7	12.5	293	16	20.9	14.9	300					7	13.3	10.7	203	9	12.3	11.0	214	19	8.2	6.7	090
6.0 ,, .	12	15.0	14.3	310	15	19.6	16.0	282					7	16.3	12.5	210	9	12.6	11.5	225	18	8.4	7.4	090
7.2 ,, .	4	24.8	22.6	307	5	33.3	31.8	305					7	19.3	17.1	243	9	19.8	18.2	236	11	8.3	6.3	099
9.0 ,, .					1	20.5	20.5	300					7	27.3	24.3	246	8	28.4	25.8	237	6	6.3	2.9	057

Station	TIRUCHCHIRAPPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.3	3.9	065	31	4.0	3.8	052	31	1.5	1.1	037	31	0.8	0.2	336	31	1.9	1.5	235	31	1.0	0.6	012
0.15 a. g. .	30	6.1	5.8	067	30	8.1	7.9	055	31	3.2	2.0	030	31	2.3	0.8	318	31	3.4	2.5	253	31	2.5	1.2	313
0.3 a. m. s. l. .	30	6.4	6.0	066	30	9.3	9.1	055	31	3.2	1.9	036	31	2.0	0.4	317	31	3.2	2.3	252	31	2.7	1.1	317
0.6 ,, .	30	6.6	6.2	057	30	10.0	9.8	056	31	3.3	1.2	050	31	2.0	0.8	034	31	3.0	0.2	266	31	2.7	1.2	357
0.9 ,, .	30	6.9	6.5	050	29	9.2	9.0	047	31	3.5	2.5	067	31	2.5	1.2	054	31	3.8	2.7	045	31	3.6	2.3	040
1.5 ,, .	30	6.6	6.1	044	29	6.6	6.2	043	31	4.2	2.2	087	26	3.5	1.9	053	31	5.3	4.4	057	29	4.9	3.8	060
2.1 ,, .	29	6.2	5.5	065	25	5.9	5.3	080	31	4.9	3.2	095	25	5.3	3.4	067	31	5.2	3.9	067	24	6.4	5.1	078
3.0 ,, .	20	7.9	6.1	077	22	7.5	6.3	090	31	6.1	4.2	087	21	6.2	4.3	076	31	6.2	4.2	071	19	5.4	4.6	096
3.6 ,, .	18	7.1	4.7	084	16	7.4	5.0	085	31	7.4	5.7	084	17	6.9	6.2	086	31	7.3	5.0	077	13	5.9	4.9	087
4.5 ,, .	12	6.1	4.2	090	14	8.6	7.7	090	31	8.3	7.1	086	15	8.4	7.8	082	31	8.4	6.4	083	9	6.7	6.0	095
5.4 ,, .	10	6.1	3.6	083	5	8.2	7.9	070	31	9.1	7.2	087	13	9.7	9.1	090	31	9.8	7.9	085	3	7.5	6.7	095
6.0 ,, .	6	6.1	4.8	066	2	8.5	3.3	090	31	9.2	7.7	089	12	9.8	9.0	090	31	9.6	7.3	083	2	5.0	4.0	090
7.2 ,, .	5	8.4	5.9	104					31	8.8	5.9	086	10	9.0	7.7	083	31	9.0	6.5	090				
9.0 ,, .	2	4.3	3.2	226					31	5.8	2.5	083	10	5.5	1.8	120	31	6.6	3.1	087				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·1	0·1	225	31	0·5	0·1	202	31	0·1	0·0	325	31	0·9	0·7	007	31	1·9	1·6	268	31	0·8	0·7	013
0·15 a. g.	31	2·0	0·6	010	31	2·6	0·9	128	31	2·1	0·7	030	31	4·0	3·0	068	31	3·5	2·4	270	31	4·8	4·2	011
0·3 a. m. s. l.													31	4·4	3·2	079	31	3·3	1·8	275	31	5·2	4·3	012
0·6 ,,													31	4·5	3·8	090	31	2·9	1·4	055	31	5·0	3·8	033
0·9 ,,	31	3·1	0·8	073	31	2·9	0·8	158	31	2·6	0·8	080	31	5·5	5·2	093	31	3·7	3·0	066	31	5·2	4·1	068
1·5 ,,	31	5·3	2·0	235	31	3·5	1·5	260	31	3·9	0·9	190	31	5·5	4·7	095	31	6·9	6·6	079	31	6·9	6·7	091
2·1 ,,	31	7·4	4·4	260	31	5·5	3·4	260	31	5·1	2·2	235	30	5·1	3·6	101	29	7·3	6·7	081	29	6·7	6·2	093
3·0 ,,	31	9·2	7·2	260	31	8·1	5·7	270	31	7·6	5·6	250	29	6·0	2·7	103	29	6·7	4·3	090	27	6·2	3·7	108
3·6 ,,	31	10·7	9·2	203	31	10·6	8·2	263	27	10·3	7·7	258	1	8·5	8·5	210	29	6·3	3·3	107	14	6·0	2·7	162
4.5 ,,	31	13·5	11·8	256	28	14·0	11·6	258	9	12·8	11·4	270					23	6·9	2·1	149				
5·4 ,,	31	17·0	14·6	255	26	16·1	14·0	258	3	9·3	7·1	360					27	7·0	3·1	193				
6·0 ,,	31	18·8	16·2	252	23	17·6	15·7	262									27	7·5	4·3	201				
7·2 ,,	18	21·2	19·9	255	13	17·0	15·4	262									22	8·5	6·5	244				
9·0 ,,	12	22·3	21·3	260	4	22·1	19·5	273									9	11·1	10·4	248				

Station	VERAVAL												VIJAYWADA/GANNAVARAM											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·0	3·6	019	31	3·8	1·6	239	31	2·1	1·8	360	31	3·0	2·7	043	31	2·9	2·4	088	31	1·8	1·5	084
0·5 a. g.	31	8·9	8·1	034	31	4·3	1·1	180	31	5·6	3·6	016	31	5·1	4·8	078	31	3·0	2·7	090	31	5·6	5·2	110
0·3 a. m. s. l.	31	7·6	6·3	035	31	4·3	0·7	104	31	6·0	3·7	027	31	5·5	5·2	088	31	3·0	2·9	083	31	5·7	5·4	104
0·6 ,,	31	4·8	3·0	048	31	4·1	1·9	041	31	5·3	3·4	049	31	5·1	4·6	081	31	2·9	3·7	078	31	4·4	4·1	081
0·9 ,,	31	4·2	2·4	069	31	3·9	2·6	041	31	4·4	2·7	064	31	5·4	4·8	075	31	3·0	2·7	064	31	4·2	3·8	054
1·5 ,,	31	4·8	2·1	114	31	4·7	2·1	040	31	5·2	3·1	076	31	5·7	4·7	069	30	4·8	3·9	061	31	5·9	4·9	057
2·1 ,,	30	5·8	1·2	177	31	5·4	0·3	047	31	5·6	2·0	117	31	6·3	5·0	070	30	6·2	4·7	065	31	6·7	5·3	072
3·0 ,,	30	6·3	2·5	229	31	7·0	3·3	238	31	5·8	2·0	212	31	6·7	4·8	061	29	6·9	4·2	072	30	6·4	3·9	071
3·6 ,,	1	8·0	8·0	270	31	8·3	5·3	236	3	4·5	3·2	270	29	6·2	3·8	062	29	5·8	2·3	067	27	6·0	2·7	067
4·1 ,,					31	10·9	8·5	238	2	4·3	1·8	254	28	5·9	2·0	064	28	5·7	0·7	040	24	5·6	0·7	050
5·4 ,,					31	13·0	11·0	242	1	10·0	10·0	245	28	7·6	0·4	031	27	6·7	1·1	270	21	6·6	1·0	282
6·0 ,,					30	14·7	13·5	242					28	8·1	1·3	270	26	7·4	2·4	267	17	7·5	3·6	249
7·2 ,,					25	19·7	19·5	243					27	8·3	4·5	267	24	9·1	6·1	268	8	10·3	8·5	258
9·0 ,,					17	28·1	27·2	250					23	12·8	11·3	272	20	13·1	11·3	267				

TABLE IV—MONTHLY MEAN DIRECITIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Station	VISHAKHAPATNAM															
Time in I.S.T.	0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.2	3.8	018	31	1.1	1.0	067	31	4.3	4.2	045	31	0.6	0.5	044
0.15 a. g. .	30	6·6	6.4	023	31	3.9	3.7	067	30	6.1	6.0	047	31	3.5	3.2	067
0.3 a. m. s. l.	30	6.1	6.0	034	31	4.1	3.9	059	30	5.6	5.6	052	31	9.7	3.5	071
0.6 ,, .	30	5.3	4.8	051	31	4.3	4.0	047	30	4.7	4.5	059	31	4.2	3.3	076
0.9 ,, .	30	4.9	4.2	056	31	4.5	4.1	051	30	4.2	4.0	042	30	3.8	3.5	056
1.5 ,, .	30	5.3	4.3	049	30	4.9	3.9	053	30	5.4	4.4	014	29	5.0	4.3	025
2.1 ,, .	30	6.1	4.1	043	30	6.0	4.5	040	30	6.1	4.6	022	29	5.5	3.9	037
3.0 ,, .	30	7.2	4.1	023	29	6.3	3.6	028	30	6.0	2.7	012	28	5.8	2.2	008
3.6 ,, .	30	7.3	3.3	003	28	5.9	2.4	011	29	6.8	2.2	353	16	5.6	2.5	015
4.5 ,, .	30	6.9	2.1	333	27	5.7	1.9	314	29	7.0	2.9	301	7	4.6	3.0	072
5.4 ,, .	30	9.8	4.3	295	26	6.8	2.2	294	29	9.4	4.9	293	3	4.8	2.3	304
6.0 ,, .	30	9.9	6.3	280	25	8.2	3.8	290	29	8.8	5.8	286	2	6.0	4.7	280
7.2 ,, .	30	11.6	8.7	275	25	10.2	7.5	276	29	11.7	9.0	272	1	8.5	8.5	190
9.0 ,, .	28	17.6	15.2	273	16	15.3	13.1	275	29	16·8	14.5	266				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Ht. in Km.	n	V	v	D
	AHMADABAD 0530 h. *			
10·5	22	34·7	31·9	260
12·0	17	40·1	37·6	255
14·1	7	44·6	43·0	256
16·2	1	40·6	40·0	270
	1130 hr.			
10·5	12	42·2	41·0	251
12·0	6	36·3	35·4	251
	1730 hr.*			
10·5	25	36·6	35·0	255
12·0	22	41·2	39·8	256
14·1	10	39·3	38·3	254
16·2	3	43·0	42·5	249
	ALLAHABAD/BAMHRAULI 0530 hr.*			
10·5	27	44·9	43·0	265
12·0	19	44·8	41·1	270
14·1	8	39·6	37·3	260
16·2	1	22·5	22·5	280
	1130 hr.			
10·5	1	45·0	45·0	295
	1730 hr.*			
10·5	25	44·9	42·7	267
12·0	22	44·4	42·2	264
14·1	8	39·9	39·1	260
16·2	1	23·5	23·5	265
	ANANTAPUR 0530 hr.			
10·5	16	14·5	13·6	261
12·0	11	17·6	17·3	256
14·1	1	19·0	19·0	275
	1730 hr.			
10·5	3	16·8	16·3	247
12·0	3	16·5	15·6	264
14·1	2	17·5	17·5	265
	ASANSOL 1730 hr.			
10·5	1	44·0	44·0	300
12·0	1	74·5	74·5	295
	BAHRAICH 1130 hr.			
10·5	2	45·5	45·5	252
	1730 hr.			
10·5	3	36·8	33·3	293

Ht. in Km.	n	V	v	D
	BANGALORE 0530 hr.@			
10·5	16	11·8	9·1	247
12·0	16	14·5	10·9	249
14·1	10	13·5	13·5	238
16·2	6	10·7	5·3	196
18·0	5	7·1	4·1	104
21·0	4	4·7	4·0	253
24·0	1	9·5	9·5	080
	1130 hr.			
10·5	16	11·0	9·7	251
12·0	14	13·4	12·0	243
14·1	9	16·8	16·1	249
16·2	8	14·0	12·0	251
18·0	6	9·7	2·2	245
21·0	2	5·7	5·5	160
	1730 hr.@			
10·5	23	10·7	9·2	235
12·0	22	13·5	11·9	239
14·1	15	13·6	12·4	243
16·2	6	7·2	3·5	135
18·0	5	5·7	5·1	127
21·0	1	4·0	4·0	270
24·0	1	5·0	5·0	100
	BAREILLY 1730 hr.			
10·5	1	37·0	37·0	285
	BEGAMPET 0530 hr.			
10·5	9	17·6	17·3	256
12·0	6	16·6	15·8	257
14·1	1	16·0	16·0	275
	1730 hr.			
10·5	2	22·0	21·5	252
12·0	1	18·5	18·5	260
	BOMBAY/SANTACRUZ 0530 hr.*			
10·5	30	28·0	26·0	239
12·0	30	28·4	27·0	239
14·1	23	25·9	22·0	234
16·2	12	18·5	18·0	234
18·0	2	14·2	13·2	219
	1130 hr.			
10·5	22	28·9	27·9	248
12·0	18	33·6	32·6	246

Ht. in Km.	n	V	v	D
14·1	14	35·8	34·0	241
16·2	10	27·5	25·7	255
18·0	5	15·0	13·0	247
21·0	4	6·3	2·4	307
24·0	1	4·0	4·0	240
27·0	1	12·0	12·0	115
	1730 hr.*			
10·5	29	29·2	28·3	240
12·0	28	29·5	28·2	239
14·1	23	27·9	27·2	244
16·2	16	21·7	18·5	242
18·0	7	15·4	13·6	217
21·0	1	15·0	15·0	245
	CALCUTTA/DUM DUM 0530 hr.*			
10·5	30	28·1	26·7	283
12·0	30	31·6	30·4	275
14·1	29	24·8	24·7	271
16·2	28	24·6	23·6	280
18·0	14	17·8	15·8	278
21·0	2	9·5	8·8	241
	1130 hr.			
10·5	4	34·2	31·7	334
12·0	3	31·8	31·0	288
	1730 hr.*			
10·5	31	29·6	28·3	279
12·0	29	29·8	28·8	273
14·1	28	28·5	27·7	269
16·2	26	23·0	21·7	273
18·0	12	17·4	15·5	297
21·0	1	16·0	16·0	305
	DIBRUGARH/MOHANBARI 1130 hr.			
10·5	4	33·0	31·2	287
12·0	3	39·7	38·0	299
14·1	1	40·0	40·0	250
	GADAG 0530 hr.			
10·5	24	17·4	16·9	254
12·0	23	19·8	18·8	254
14·1	16	20·1	19·4	253
16·2	15	12·5	10·9	249
18·0	14	8·2	5·2	241
21·0	11	15·3	8·8	250
24·0	3	25·8	22·4	233
27·0	1	29·5	29·5	255

Ht. in Km.	n	V	v	D
	1730 hr.			
10·5	23	17·8	16·8	246
12·0	22	19·6	17·7	247
14·1	20	18·0	16·7	248
16·2	18	9·0	7·8	237
18·0	11	6·9	2·4	221
21·0	7	8·0	3·2	250
24·0	3	15·5	13·8	222
27·0	1	14·0	14·0	190
	GANGTOK 0830 hr.			
10·5	2	32·5	32·4	302
	1730 hr.			
10·5	1	27·5	27·5	285
12·0	1	27·0	27·0	290
	GAUHATI 0530 hr.*			
10·5	23	44·7	42·4	290
12·0	14	47·1	45·4	295
14·1	7	44·4	43·5	283
16·2	4	28·5	27·7	279
18·0	2	30·5	29·0	287
	1130 hr.			
10·5	6	35·4	34·3	287
12·0	1	45·0	45·0	275
	1730 hr.*			
10·5	21	43·1	41·5	295
12·0	21	51·4	50·2	293
14·1	11	50·1	49·1	290
16·2	2	45·0	44·9	287
18·0	1	52·0	52·0	300
	GOPALPUR 1730 hr.			
10·5	7	19·5	18·9	267
12·0	4	23·2	22·6	254
	GWALIOR 1130 hr.			
10·5	2	37·0	35·8	252
	JAGDALPUR 0530 hr.			
10·5	7	19·0	18·2	272
12·0	3	26·8	24·3	277
14·1	1	30·5	30·5	275
	1730 hr.			
10·5	5	23·2	22·2	280

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Ht. in Km.	n	V	v	D
	JODHPUR 0530 hr.*			
10·5	5	48·5	48·2	248
12·0	2	47·0	46·3	244
	1130 hr.			
10·5	12	47·0	46·8	264
12·0	6	55·6	54·8	257
14·1	3	49·3	49·0	257
16·2	2	46·3	45·5	264
18·0	1	52·5	52·5	265
	1730 hr.*			
10·5	9	45·9	45·6	243
12·0	2	59·0	58·7	253
	LUCKNOW/ AMAUSI 1730 hr.			
10·5	2	44·0	43·5	273
	MADRAS/ MINAMBAKKAM 0530 hr.*			
10·5	30	9·7	7·3	253
12·0	30	13·2	10·4	248
14·1	27	11·3	9·5	252
16·2	22	8·6	2·3	183
18·0	14	6·1	2·8	075
21·0	4	2·9	1·1	228
24·0	1	6·0	6·0	125
	1130 hr.			
10·5	2	10·7	10·1	287
12·0	1	11·0	11·0	325
	1730 hr.*			
10·5	31	9·8	7·2	243
12·0	31	11·9	8·9	247
14·1	28	10·7	8·2	247
16·2	25	6·4	2·3	179
18·0	10	5·8	4·5	092
21·0	4	3·5	2·7	205
	2330 hr.			
10·5	1	8·0	8·0	120
12·0	1	21·0	21·0	140
14·1	1	9·0	9·0	125
16·2	1	3·0	3·0	070
	MANGALORE/ BAJPE 0530 hr.			
10·5	13	12·5	10·0	241
12·0	7	14·2	12·4	244
14·1	1	13·5	13·5	255
16·2	1	7·0	7·0	240
18·0	1	11·0	11·0	150
	1730 hr.			
10·5	14	14·1	12·5	256
12·0	10	14·7	13·9	249
14·1	6	15·1	12·6	222
16·2	2	20·3	20·0	253
18·0	2	19·5	16·1	255
21·0	1	19·0	19·0	275
24·0	1	51·0	51·0	270
	MINICOY 0530 hr.			
10·5	1	12·0	12·0	220
12·0	1	15·0	15·0	210
	1130 hr.			
10·5	1	10·0	10·0	205
12·0	1	16·0	16·0	235
14·1	1	16·5	16·5	265
16·2	1	7·0	7·0	190
18·0	1	9·0	9·0	145
	1730 hr.*			
10·5	30	8·7	5·2	177
12·0	30	11·5	6·7	189
14·1	27	9·6	6·0	213
16·2	20	8·1	4·0	119
18·0	15	6·9	1·1	245
21·0	9	7·3	6·5	255
24·0	1	22·0	21·7	281
	NAGPUR/ SONEGAON 0530 hr.*			
10·5	31	24·1	23·5	268
12·0	31	25·4	24·2	262
14·1	24	21·3	19·8	261
16·2	7	23·7	23·3	261
18·0	1	28·0	28·0	275
	1130 hr.			
10·5	18	31·6	30·4	261
12·0	14	32·2	31·1	255
14·1	6	32·0	31·4	250
16·2	3	20·3	20·3	245
18·0	1	18·5	18·5	255
	1730 hr.*			
10·5	31	26·0	25·2	265
12·0	31	26·8	26·1	262
14·1	27	26·0	23·3	256
16·2	8	26·9	25·8	265
18·0	2	16·0	15·8	270
21·0	1	15·0	15·0	255
	NEW DELHI/ SAFDARJUNG 0530 hr *			
10·5	26	38·8	37·3	261
12·0	21	44·1	41·8	261
14·1	7	41·6	41·2	273
16·2	5	26·4	25·4	265
18·0	3	22·5	21·7	293
21·0	1	8·0	8·0	155
24·0	1	7·0	7·0	015
27·0	1	8·0	8·0	335
	1730 hr.*			
10·5	24	41·7	38·3	266
12·0	17	47·2	44·5	267
14·1	8	42·5	41·6	274
16·2	2	42·0	41·3	271
	POONA 1730 hr.			
10·5	7	25·6	25·1	254
12·0	6	23·7	23·3	251
14·1	4	22·0	21·9	247
16·2	1	5·0	5·0	235
	PORTBLAIR 0530 hr.*			
10·5	29	6·9	4·0	223
12·0	29	10·0	8·1	201
14·1	23	6·4	4·5	216
16·2	16	6·5	1·1	097
18·0	12	6·5	0·4	067
21·0	5	8·2	6·5	263
	1130 hr.			
10·5	4	6·9	1·6	136
12·0	3	8·7	5·3	156
14·1	2	6·0	5·7	211
16·2	1	5·5	5·5	275
18·0	1	7·5	7·5	285
21·0	1	13·0	13·0	225
	1730 hr.*			
10·5	30	6·5	3·0	229
12·0	30	9·3	7·7	214
14·1	20	7·7	5·2	213
16·2	14	7·4	1·9	084
18·0	6	7·6	3·6	107
21·0	1	9·0	9·0	220
	RAIPUR 0530 hr.			
10·5	3	29·8	29·6	283
	1730 hr.			
10·5	1	31·0	31·0	270
	SRINAGAR 0530 hr.*			
10·5	5	29·4	27·2	261
12·0	5	41·6	39·7	255
14·1	3	34·3	33·8	269
	1730 hr.*			
10·5	7	39·0	37·9	245
12·0	6	45·5	37·6	254
14·1	3	33·2	32·2	258
	TIRUCHCHIRAIPPALLI 0530 hr.			
10·5	2	8·3	7·7	203
12·0	1	12·0	12·0	220
	1730 hr.			
10·5	1	12·5	12·5	235
	TRIVANDRUM 0530 hr.*			
10·5	31	7·5	3·9	164
12·0	31	10·5	7·3	129
14·1	31	12·7	7·1	228
16·2	27	9·0	1·8	159
18·0	19	8·5	2·6	111
21·0	5	8·2	5·3	300
24·0	1	3·5	3·5	275
	1130 hr.			
10·5	9	9·3	2·6	172
12·0	9	9·3	3·2	163
14·1	4	6·3	3·2	199
16·2	3	4·7	1·8	318
18·0	2	9·5	8·4	102
	1730 hr.*			
10·5	31	7·2	4·0	170
12·0	31	10·1	4·9	182
14·1	29	11·2	5·6	218
16·2	22	9·3	2·7	142
18·0	13	9·9	6·7	123
21·0	5	6·1	2·9	265
	UDAIPUR 0530 hr.			
10·5	4	36·6	36·1	265
12·0	1	52·0	52·0	305
	VERAVAL 1730 hr.			
10·5	3	34·0	32·3	244
12·0	2	39·7	37·6	249
	VIJAYAWADA/ GANNAVARAM 0530 hr.			
10·5	22	16·8	16·4	259
12·0	22	18·6	17·6	260
14·1	18	17·5	17·1	253
16·2	16	10·4	6·7	254
18·0	13	5·9	2·6	296
21·0	9	10·0	4·2	266
24·0	1	5·5	5·5	270
	1730 hr.			
10·5	17	17·4	16·9	262
12·0	12	17·6	16·4	254
14·1	3	15·0	14·5	254
	VISHAKHAPATNAM 0530 hr.*			
10·5	27	23·4	21·5	263
12·0	26	23·5	21·4	257
14·1	22	20·5	19·5	261
16·2	18	15·7	13·3	271
18·0	11	11·4	2·8	359
21·0	5	9·8	4·3	039
	1130 hr.			
10·5	11	19·2	17·8	265
12·0	9	19·4	17·6	254
14·1	8	19·0	18·0	246
16·2	5	9·0	7·7	238
18·0	4	7·3	4·1	197
21·0	1	15·0	15·0	210
24·0	1	32·5	32·5	195
	1730 hr.*			
10·5	28	19·7	18·8	264
12·0	26	22·7	21·2	255
14·1	23	19·8	18·2	258
16·2	17	15·6	13·4	263
18·0	11	12·0	6·8	250
21·0	4	8·6	6·1	235
24·0	1	27·5	27·5	215

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 15 stations in India as given in the list below. For detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmadabad	Clock type	20th July, 1961	00 and 12	Fan Type upto 24-2-63
2	Allahabad/Bamhrauli	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay/Santacruz	Fan type	7th September, 1954	00 and 12	Clock type up to 22-2-1963
5	Calcutta/Dum Dum	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras/Minambakkam	Fan type	29th June, 1946	00 and 12	
9	Minicoy	Fan type	12th May, 1963	12	
10	Nagpur/Sonegaon	Fan type	1st October, 1946	00 and 12	
11	New Delhi/Safdarjung	Clock type	3rd December, 1943	00 and 12	
12	Port Blair	Fan type	4th December, 1949	00 and 12	
13	Srinagar	Clock type	1st August, 1962	00 and 12	
14	Trivandrum	Fan type	1st July, 1947	00 and 12	
15	Vishakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

Table VI—Mean Dynamic Height, Temperature and Dew Point at Standard Pressure Surfaces

(A) From Ascents at 00 Hours G.M.T.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Standard Pressure Surface m b.	AHMADABAD Surf. Pr. (1008 mb.)						ALLAHABAD/BAMHRAULI (1005 mb.)						BANGALORE (912 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point.			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	55	287·0	292	280	278·1	31	098	284·0	289	279	281·8	31	921	288·5	291	285	287·1
1000	31	121	..	..	..	..	31	135	..	..	..	..	31	131	..	..	..	..
900	31	1030	291·8	295	286	272·1	31	1025	286·0	292	281	276·1	31	1030	288·4	291	285	286·5
850	31	1519	289·4	292	285	269·7	31	1505	284·2	289	277	272·6	31	1515	287·3	291	285	281·5
800	31	2033	285·9	291	281	268·3	31	2010	282·7	289	276	270·2	31	2028	286·1	290	282	279·6
700	31	3143	278·8	284	274	262·1	31	3109	277·1	285	272	..	31	3145	281·9	285	279	266·4
600	31	4393	271·5	275	268	..	31	4357	269·9	275	266	..	31	4406	275·1	279	271	261·1
500	31	5817	262·1	267	258	..	31	5768	260·6	264	257	..	31	5857	266·8	270	263	..
400	31	7502	251·0	255	246	..	30	7432	248·7	254	244	..	31	7564	255·6	266	252	..
300	31	9560	236·2	244	230	..	30	9472	234·5	241	229	..	30	9656	239·6	243	237	..
250	30	10801	228·3	235	223	..	30	10703	225·5	232	219	..	30	10912	230·5	234	225	..
200	30	12264	218·9	226	212	..	30	12151	217·2	225	211	..	30	12384	219·3	224	214	..
175	28	13100	213·2	220	207	..	29	13003	212·5	222	205	..	22	13238	214·4	217	210	..
150	26	14055	210·1	219	202	..	28	13943	209·8	218	202	..	20	14187	208·1	214	205	..
125	26	15166	205·9	214	199	..	22	15090	205·8	212	199	..	18	15291	202·9	209	201	..
100	23	16492	200·6	209	193	..	16	16388	202·9	214	194	..	18	16592	196·6	204	192	..
80	20	17796	193·3	207	195	..	8	17684	203·3	211	195	..	14	17932	199·6	205	196	..
70	19	18463	201·2	208	196	..	..	..	..	..	..	..	15	18712	201·6	207	197	..
60	15	19477	203·3	210	195	..	..	..	..	..	..	..	15	19560	204·2	210	201	..
50	11	20566	208·1	214	203	..	..	..	..	..	..	..	13	20676	207·2	215	202	..
40	6	21896	212·3	219	208	..	..	..	..	..	..	..	8	22069	208·9	215	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	5	23714	212·0	214	209	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTACRUZ (1011 mb.)						CALCUTTA/DUMDUM (1012 mb.)						GAUHATI (1009 mb.)					
Surface	31	013	291·1	294	288	286·3	31	6	287·1	290	282	286·9	31	49	286.7	293	283	285.9
1000	31	108	..	..	..	..	31	124	..	..	..	..	31	129	..	..	..	..
900	31	1029	294·2	297	287	280·2	31	1028	287·3	291	284	280·4	31	1024	286.7	289	285	279.2
850	31	1522	291·0	295	285	276·9	31	1524	284·7	290	282	274·7	31	1504	283.9	287	281	275.6
800	31	2039	287·8	291	283	274·3	31	2015	283·0	287	277	268·3	31	2008	281.0	285	278	272.2
700	31	3157	281·8	285	275	265·5	31	3120	280·0	285	276	258·2	31	3096	275.5	281	271	..
600	31	4416	273.9	278	269	..	31	4376	273·0	279	268	..	31	4334	271.6	279	265	..
500	31	5861	265·4	269	263	..	30	5807	263·6	268	260	..	31	5762	262.3	269	255	..
400	31	7556	253·4	259	251	..	30	7497	252·4	256	248	..	31	7439	250.5	257	241	..
300	31	9634	238·0	243	233	..	30	9521	238·0	247	233	..	31	9490	235.5	243	230	..
250	31	10883	228·9	235	222	..	30	10814	229·5	238	221	..	30	10726	227.8	234	220	..
200	31	12344	218·7	224	215	..	30	12284	219·7	226	211	..	30	12186	219.7	226	213	..
175	30	13199	213·2	221	207	..	30	13129	214·6	221	205	..	18	13044	215.3	221	209	..
150	30	14151	207·7	217	200	..	30	14089	206·6	217	201	..	15	14007	211.1	219	207	..
125	28	15262	203·4	211	195	..	30	15208	204·7	213	199	..	8	15169	207.7	215	203	..
100	27	16567	199·1	207	191	..	29	16524	199·7	208	190	..	..	..	..	..	..	..
80	21	17878	200·3	207	193	..	23	17820	197·9	205	191	..	..	..	..	..	..	..
70	20	18677	203·0	213	197	..	23	18597	199·3	209	191	..	..	..	..	..	..	..
60	17	19601	206·8	217	197	..	19	19523	203·3	211	196	..	..	..	..	..	..	..
50	15	20725	210·3	221	200	..	18	20610	208·2	217	201	..	..	..	..	..	..	..
40	12	22115	212·6	221	203	..	10	21971	215·0	222	205	..	..	..	..	..	..	..
30	9	23945	217·9	226	213	..	6	23746	221·8	225	216	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G. M.T.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (990 mb.)						MADRAS/MINAMBAKKAM (1011 mb.)						NAGPUR/SONEGAON (980 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	23	218	281·7	293	275	276·3	31	015	294·4	297	292	293·0	31	311	285·1	289	283	281·2
1000	23	135	..	..	..	..	31	113	..	..	..	..	31	138	..	..	..	..
900	23	1030	289·7	294	281	273·3	31	1025	290·6	293	287	286·7	31	1024	290·2	293	287	279·2
850	23	1514	287·3	293	283	271·0	31	1513	287·6	291	284	281·8	31	1510	287·9	291	284	274·1
800	23	2021	284·2	290	279	269·0	31	2025	286·2	290	281	274·6	31	2021	286·0	290	281	268·0
700	23	3121	277·9	283	272	264·5	31	3142	282·1	285	276	267·8	31	3132	280·4	285	276	262·5
600	21	4353	268·9	273	264	..	31	4405	275·5	279	272	..	31	4381	272·9	277	270	..
500	20	5764	259·4	264	253	..	31	5856	266·7	271	262	..	31	5818	263·9	267	261	..
400	15	7417	247·4	252	243	..	31	7568	255·7	259	252	..	31	7506	253·1	255	248	..
300	10	9449	234·1	238	229	..	31	9660	240·3	246	235	..	31	9566	236·7	242	232	..
250	9	10687	226·3	231	220	..	30	10924	230·6	237	225	..	31	10807	227·6	232	223	..
200	10	12128	218·8	226	212	..	30	12400	219·6	225	215	..	31	12263	217·6	224	213	..
175	8	12969	215·4	227	208	..	26	13235	213·3	219	210	..	30	13098	212·6	217	209	..
150	6	13927	214·7	223	209	..	25	14190	207·3	214	202	..	29	14015	207·9	212	202	..
125	..	..	..	..	..	..	24	15266	201·3	208	197	..	26	15138	203·2	208	198	..
100	..	..	..	..	..	..	21	16586	195·8	202	191	..	24	16461	198·5	203	192	..
80	..	..	..	..	..	..	15	17864	198·3	202	195	..	21	17756	198·2	205	192	..
70	..	..	..	..	..	..	12	18772	202·8	207	197	..	17	18542	200·2	207	195	..
60	..	..	..	..	..	..	10	19563	205·8	210	202	..	14	19449	202·9	207	199	..
50	..	..	..	..	..	..	10	20665	210·7	219	205	..	14	20520	207·4	212	202	..
40	..	..	..	..	..	..	5	22096	215·0	221	201	..	7	21936	213·1	217	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	6	23691	216·3	221	208	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI/SAFDARJUNG (991 mb.)						PORT BLAIR (1002 mb.)						SRINAGAR (847 mb.)					
Surface	31	209	283·2	291	278	280·9	31	79	296·5	300	292	294·3	12	1588	271·3	274	268	271.1
1000	31	138	..	..	..	..	31	100	..	..	..	..	12	242	..	..	..	..
900	31	1026	287·1	294	279	272·3	31	1016	291·7	294	287	289·6	12	1100	..	..	..	..
850	31	1504	285·4	291	279	266·8	31	1506	289·3	291	285	285·2	12	1557	..	..	..	..
800	31	2014	283·2	288	276	264·5	31	2021	286·8	289	281	281·1	12	2030	269·9	275	264	..
700	31	3112	276·7	283	271	..	31	3139	281·7	285	278	273·4	12	3095	268·7	272	266	..
600	31	4347	269·3	273	264	..	31	4401	275·6	278	271	..	12	4293	261·2	264	257	..
500	31	5759	259·1	264	251	..	31	5855	267·6	271	265	..	12	5665	251·4	255	244	..
400	31	7417	247·7	256	240	..	31	7571	256·2	261	253	..	12	7269	240.2	244	236	..
300	31	9437	231·9	239	225	..	29	9696	241·1	248	236	..	11	9245	226.0	230	223	..
250	31	10651	223·6	230	216	..	29	10940	231·8	240	226	..	11	10439	218.7	224	216	..
200	31	12089	216·1	223	208	..	29	12420	220·6	226	215	..	11	11876	217.6	223	210	..
175	31	12928	213·6	222	206	..	26	13226	214·6	222	209	..	11	12718	217.3	222	211	..
150	31	13884	210·4	219	204	..	22	14240	208·6	217	203	..	11	13697	217.1	220	209	..
125	31	14991	206·8	218	201	..	18	15332	202·3	209	196	..	11	14848	214.4	221	206	..
100	31	16338	203·8	215	197	..	16	16635	195·7	201	192	..	9	16237	213·8	218	209	..
80	29	17672	204·0	210	197	..	13	17897	195·7	200	192	..	7	17665	215.0	220	212	..
70	28	18480	204·6	211	200	..	10	18685	197·7	207	193	..	7	18506	215.9	221	211	..
60	27	19410	207·0	211	203	..	9	19560	202·9	211	198	..	5	19522	216.8	221	215	..
50	23	20519	210·5	216	206	..	7	20689	205·7	211	202	..	..	..	..	..	..	..
40	19	21917	214·0	219	206	..	..	..	..	..	..	..	..	..	..	..	..	..
30	14	23719	219·1	227	214	..	..	..	..	..	..	..	..	..	..	..	..	..
20	7	26343	223·3	225	220	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(A) From Ascents at 00 Hours G.M.T.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Standard Pressure Surface mbs.	TRIVANDRUM Surf. Pr. (1003 mb.)						VISHAKHAPATNAM (1010 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	064	296·6	299	295	293·3	31	041	293·7	297	289	290.3
1000	31	090	..	..	..	..	31	125	..	..	..	..
900	31	1007	291·8	294	289	286·1	30	1034	289·6	293	284	284.0
850	31	1498	289·1	291	286	282·9	30	1519	288·0	293	282	275.1
800	31	2012	287·1	289	285	278·4	30	2033	287·1	291	281	270.1
700	31	3129	281·9	285	279	269·9	30	3150	282·3	287	275	266.7
600	31	4389	274·9	279	270	..	30	4412	275·1	278	270	..
500	31	5840	266·4	270	263	..	30	5863	265·7	271	262	..
400	31	7554	256·2	259	253	..	30	7568	254·5	260	250	..
300	31	9649	240·2	245	235	..	28	9647	238.7	244	235	..
250	31	10908	230·5	235	227	..	28	10899	229.8	236	226	..
200	31	12378	218·7	223	214	..	27	12368	218.7	224	213	..
175	31	13214	213·2	218	207	..	26	13193	213.4	220	209	..
150	31	14175	207·2	213	201	..	26	14162	208.2	215	203	..
125	29	15256	201·5	208	194	..	24	15240	203.4	210	197	..
100	26	16575	195·5	202	191	..	22	16560	198.8	206	193	..
80	23	17861	197·6	205	189	..	18	17858	198.3	205	192	..
70	19	18642	201·7	207	194	..	17	18633	200.5	207	195	..
60	11	19547	204·4	209	199	..	17	19542	204.2	211	200	..
50	9	20648	207·9	216	205	..	11	20690	209.2	216	205	..
40	5	22010	210·4	214	206	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

December, 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Standard Pressure Surface mb.	AHMADABAD Surf. Pr. (1007 mb.)						ALLAHABAD/BAMHRAULI (1003 mb.)						BANGALORE (910 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	301·7	305	293	279.5	31	098	296.6	301	289	284.0	31	921	296.3	298	292	286.3
1000	31	115	..	..	..	..	31	126	..	..	..	..	31	094	..	..	..	..
900	31	1038	293.7	297	287	273.1	31	1032	289.2	295	282	274.8	31	1016	295.7	298	292	285.6
850	31	1529	290.3	295	286	268.3	31	1516	286.6	293	281	269.3	31	1510	291.4	295	288	283.4
800	31	2044	287.3	292	283	265.5	31	2025	285.0	290	281	265.5	31	2027	286.6	291	283	280.4
700	31	3158	280.5	286	276	260.7	31	3133	279.8	284	276	259.9	31	3145	282.6	286	278	266.7
600	31	4410	272.6	278	267	..	31	4382	272.5	276	267	..	30	4409	275.5	278	273	259.8
500	31	5843	263.3	267	259	..	31	5814	263.6	267	259	..	30	5861	266.8	271	264	..
400	31	7528	251.7	261	245	..	31	7498	251.5	259	247	..	30	7571	255.6	260	252	..
300	31	9591	237.5	244	231	..	31	9558	236.6	242	231	..	29	9668	240.1	247	233	..
250	31	10837	229.2	237	221	..	31	10799	228.1	235	221	..	28	10930	230.7	237	224	..
200	31	12303	219.8	227	213	..	31	12262	219.7	226	215	..	27	12400	219.9	225	215	..
175	31	13153	215.4	220	210	..	31	13113	215.5	223	212	..	18	13261	213.9	219	210	..
150	27	14105	210.8	215	202	..	29	14082	211.4	221	206	..	18	14220	207.8	216	205	..
125	25	15265	207.1	214	200	..	23	15192	207.1	215	200	..	12	15284	202.2	206	195	..
100	24	16571	202.8	210	198	..	15	16491	203.4	211	199	..	11	16621	196.6	203	187	..
80	22	17914	197.3	210	193	..	8	17841	203.0	214	199	..	11	17847	198.2	209	194	..
70	22	18722	202.9	213	197	..	5	18688	205.8	216	199	..	8	18741	200.6	207	196	..
60	18	19639	207.0	218	198	..	..	..	..	..	..	..	5	19779	203.0	209	199	..
50	13	20754	210.7	223	200	..	..	..	..	..	..	..	..	..	..	..	..	..
40	9	22069	212.6	223	207	..	..	..	..	..	..	..	..	..	..	..	..	..
30	8	23787	217.5	222	213	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY/SANTA CRUZ (1010 mb.)						CALCUTTA/DUMDUM (1013 mb.)						GAUHATI (1008 mb.)					
Surface	31	013	301.1	304	297	288.9	31	06	296.6	301	291	288.2	31	049	293.2	296	291	289.0
1000	31	101	..	..	..	..	31	115	..	..	..	..	31	115	..	..	..	..
900	31	1026	295.4	297	292	280.5	31	1030	291.3	296	285	279.1	31	1016	288.0	291	284	280.0
850	31	1520	291.9	295	289	276.5	31	1517	287.5	291	282	274.8	31	1498	284.9	289	281	277.0
800	31	2038	288.6	291	285	272.0	31	2031	285.5	293	281	268.5	31	2002	281·9	286	278	271.5
700	31	3158	282.3	286	278	265.2	31	3141	282.0	287	278	258.7	31	3094	275.6	281	271	..
600	31	4420	275.1	280	271	..	31	4403	275.0	282	271	..	31	4335	271.5	277	266	..
500	31	5868	265.9	271	261	..	31	5840	265.6	271	261	..	31	5764	262.5	269	257	..
400	31	7577	253.6	260	250	..	31	7550	254.4	259	250	..	31	7443	250.6	257	244	..
300	31	9661	238.8	244	233	..	31	9635	239.8	246	234	..	31	9499	235.9	243	230	..
250	30	10915	229.3	235	225	..	30	10892	231.1	241	224	..	31	10734	227.9	234	221	..
200	30	12380	218.1	225	211	..	29	12363	221.0	227	217	..	31	12195	219.4	225	214	..
175	26	13226	213.3	221	205	..	28	13212	216.0	223	208	..	27	13158	215.6	223	208	..
150	26	14181	208.7	216	197	..	28	14178	211.3	221	204	..	25	14015	211.6	219	205	..
125	25	15275	203.5	212	192	..	27	15292	205.8	217	199	..	16	15165	207.9	214	202	..
100	24	16591	199.4	207	185	..	26	16607	199.7	209	191	..	11	16495	203.0	209	198	..
80	21	17896	200.3	207	193	..	17	17945	198.6	208	191	..	6	17875	204.2	207	201	..
70	19	18692	202.4	213	193	..	13	18729	199.6	211	191	..	..	..	..	..	..	..
60	15	19611	204.7	217	193	..	11	19588	202.1	211	198	..	..	..	..	..	..	..
50	13	20641	207.3	215	201	..	..	..	..	..	..	..	..	..	..	..	..	..
40	11	22092	211.3	218	209	..	..	..	..	..	..	..	..	..	..	..	..	..
30	8	23911	214.3	222	210	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI—MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G. M. T.

December 1964 (Agrahayana 10—Pausa 10, 1886 Saka)

Standard Pressure Surface mbs.	JODHPUR Surf. Pr. (989 mb.)						MADRAS/MINAMBAKKAM (1010 mb.)						MINICOY (1010 mb.)					
	No of Obs.	Ht gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	26	218	297·4	302	290	279·5	31	015	298·9	300	298	292·5	31	002	299·9	301	298	294·5
1000	26	121	..	..	..	..	31	106	..	..	..	..	31	092	..	..	..	..
900	26	1034	291·6	297	283	271·8	31	1022	291·7	295	288	287·2	31	1013	292·2	295	289	287·4
850	26	1523	287·9	294	280	268·2	31	1511	288·9	292	286	283·2	31	1503	289·5	293	286	282·7
800	26	2028	284·0	290	278	265·2	31	2027	287·2	291	282	275·8	31	2017	287·2	291	283	278·0
700	26	3131	277·8	285	273	259·0	31	3149	283·5	286	279	268·8	31	3136	282·4	286	278	269·7
600	24	4366	269·6	278	263	..	31	4422	276·2	279	270	..	31	4398	275·5	277	271	..
500	21	5770	259·7	269	254	..	31	5873	267·9	271	263	..	31	5847	266·7	269	264	..
400	18	7421	246·9	251	241	..	31	7590	256·9	260	253	..	31	7553	255·4	260	252	..
300	15	9439	232·6	237	221	..	31	9694	241·3	247	237	..	30	9637	239·0	245	233	..
250	11	10662	224·2	231	212	..	31	10963	231·9	237	225	..	30	10885	228·6	235	221	..
200	9	12108	220·9	227	213	..	31	12445	221·0	226	216	..	30	12342	217·3	223	210	..
175	7	12932	215·8	221	212	..	28	13287	214·5	221	209	..	29	13165	211·3	218	205	..
150	7	13899	213·1	220	209	..	28	14249	207·7	213	199	..	28	14120	204·9	212	197	..
125	7	15041	209·4	219	205	..	25	15332	202·0	209	192	..	26	15180	198·3	207	191	..
100	..	..	..	..	..	..	22	16649	197·0	204	188	..	21	16498	196·6	208	189	..
80	..	..	..	..	..	..	15	17973	199·3	213	190	..	17	17808	199·9	206	191	..
70	..	..	..	..	..	..	11	18776	202·3	212	193	..	14	18588	204·1	211	198	..
60	..	..	..	..	..	..	8	19670	204·4	215	197	..	11	19509	206·6	213	198	..
50	..	..	..	..	..	..	7	20763	208·0	219	201	..	11	20618	209·8	217	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	21970	209·8	217	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mbs.	NAGPUR/SONEGAON (978mb.)						NEW DELHI/SAFDARJUNG (991 mb.)						PORT BLAIR (1001 mb.)					
Surface	31	311	298·6	301	296	282·2	31	209	292·9	299	287	286·6	31	079	298·8	300	297	294·8
1000	31	112	..	..	..	..	31	130	..	..	..	..	31	092	..	..	..	..
900	31	1033	292·8	296	290	279·3	31	1029	287·6	294	281	275·6	31	965	291·9	296	288	288·5
850	31	1523	289·3	291	286	274·8	31	1511	285·4	291	277	269·6	31	1499	289·0	291	286	285·4
800	31	2035	286·5	290	282	269·5	31	2018	283·4	287	274	267·7	31	2014	286·8	290	284	279·6
700	31	3146	281·4	285	277	262·5	31	3116	277·2	284	268	..	31	3131	281·9	286	277	272·0
600	31	4405	273·0	277	267	..	31	4352	269·5	275	264	..	31	4394	275·5	279	271	..
500	31	5841	264·1	268	260	..	31	5768	259·6	264	253	..	31	5846	266·6	270	260	..
400	31	7530	252·0	256	247	..	31	7427	248·3	256	242	..	31	7556	257·3	260	251	..
300	31	9590	236·8	244	232	..	31	9457	233·4	238	227	..	30	9650	240·5	248	235	..
250	31	10828	223·8	233	221	..	31	10683	225·4	231	218	..	30	10913	231·3	239	225	..
200	31	12284	217·0	223	212	..	30	12131	218·2	225	212	..	30	12387	219·3	226	214	..
175	31	13130	212·2	217	207	..	30	12983	215·0	226	211	..	24	13233	213·9	220	208	..
150	31	14074	207·6	215	202	..	30	13942	212·4	221	206	..	24	14192	207·4	214	201	..
125	29	15177	203·6	213	199	..	29	15073	209·1	213	204	..	21	15257	201·1	209	194	..
100	28	16494	199·4	210	193	..	28	16416	205·3	213	199	..	17	16525	194·2	200	186	..
80	27	17808	199·0	203	193	..	26	17774	205·0	213	200	..	10	17756	194·9	201	185	..
70	25	18594	200·3	213	191	..	26	18569	205·0	210	201	..	8	18515	198·0	203	196	..
60	24	19508	203·1	216	192	..	26	19514	206·8	215	201	..	8	19407	199·3	205	192	..
50	20	20598	207·1	219	201	..	26	20617	210·2	220	205	..	..	..	..	..	..	..
40	11	22053	212·6	221	205	..	20	22017	213·1	223	201	..	..	..	..	..	..	..
30	..	..	..	..	..	..	17	23834	218·7	226	213	..	..	..	..	..	..	..
20	..	..	..	..	..	..	8	26536	220·4	225	214	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

TABLE VI— MEAN DYNAMIC HEIGHT, TEMPERATURE AND DEW POINT AT STANDARD PRESSURE SURFACES

(B) From Ascents at 12 Hours G.M.T.

December, 1964(Agrahayana 10 — Pausa 10, 1886 Saka)

Standard Pressure Surface mb.	SRINAGAR Surf. Pr. (846 mb.)						TRIVANDRUM (1002 mb.)						VISHAKHAPATNAM (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A.				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature°A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	10	1588	276·7	283	271	273.2	31	064	301·3	303	299	294.8	31	041	298·3	301	296	292·6
1000	10	216	..	..	..	..	31	080	..	..	..	..	31	119	..	..	..	..
900	10	1087	..	..	..	..	31	1006	293·7	297	291	289.1	31	1034	291·9	294	289	284.5
850	10	1552	..	..	..	..	31	1499	290·3	293	287	286.5	31	1523	289·2	293	286	279.4
800	10	2030	272·2	280	266	..	31	2015	287·2	291	284	281.8	31	2037	287·3	292	282	268.3
700	10	3105	271·5	279	265	..	31	3135	282·3	285	279	273.3	31	3153	282·3	287	275	270.2
600	10	4316	264·0	271	258	..	31	4397	275·3	279	272	..	31	4421	275·7	281	269	..
500	10	5702	256·1	260	248	..	31	5848	267·2	271	264	..	31	5873	266·5	274	260	..
400	10	7328	242·0	251	235	..	31	7563	256·6	260	253	..	31	7579	255·0	259	249	..
300	10	9309	229·3	239	221	..	31	9665	241·0	247	236	..	29	9664	239·7	243	233	..
250	10	10517	223·3	236	215	..	31	10928	231·3	237	224	..	29	10919	230·2	237	222	..
200	10	11960	220·1	233	214	..	30	12403	219·5	225	212	..	28	12387	218·9	228	215	..
175	9	12866	219·9	233	215	..	29	13325	213·2	219	205	..	27	13216	213·0	216	211	..
150	8	13798	216·9	223	212	..	29	14207	207·1	213	199	..	27	14176	206·9	212	202	..
125	6	14949	214·3	216	211	..	27	15298	200.9	207	193	..	27	15250	201·6	206	193	..
100	..	..	..	..	..	..	23	16599	195.5	201	188	..	25	16573	198·0	202	193	..
80	..	..	..	..	..	..	19	17895	197.4	205	191	..	19	17870	196·9	205	190	..
70	..	..	..	..	..	..	14	18690	200.5	206	192	..	15	18657	199·2	207	190	.
60	..	..	..	..	..	..	12	19590	204.3	211	198	..	12	19575	202·1	209	198	..
50	..	..	..	..	..	..	9	20692	206.4	215	202	..	10	20631	205·1	208	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22021	209·6	214	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	.	..	..		..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..

NOTE.—Number of observations refer to those of dynamic height.

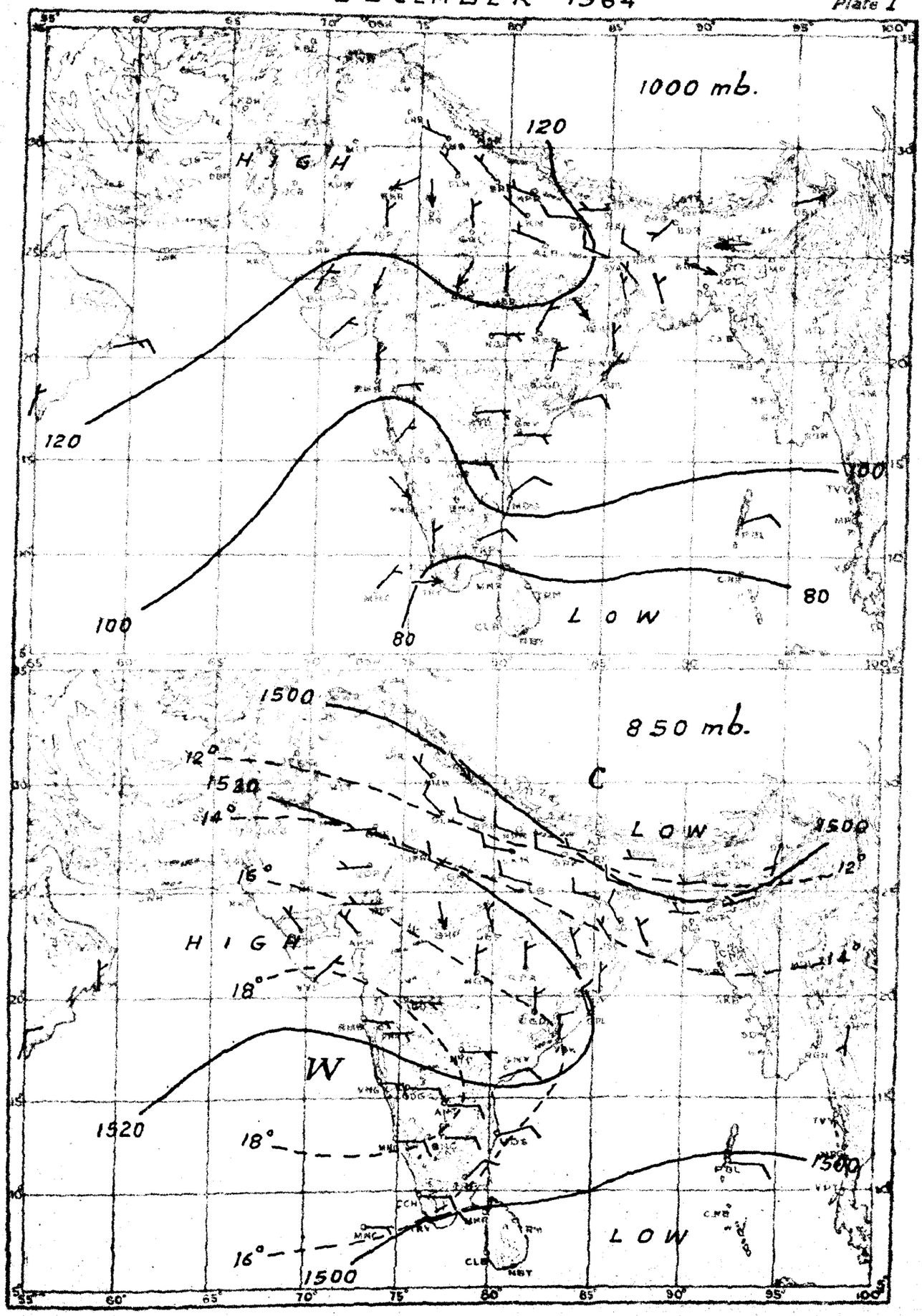
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273 °A.

Means are not worked out for less than five observations at standard pressure surfaces.

GIPN--83—3 D.D.G. Obs. Poona/68—21-8-68—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. DECEMBER 1964 Plate I



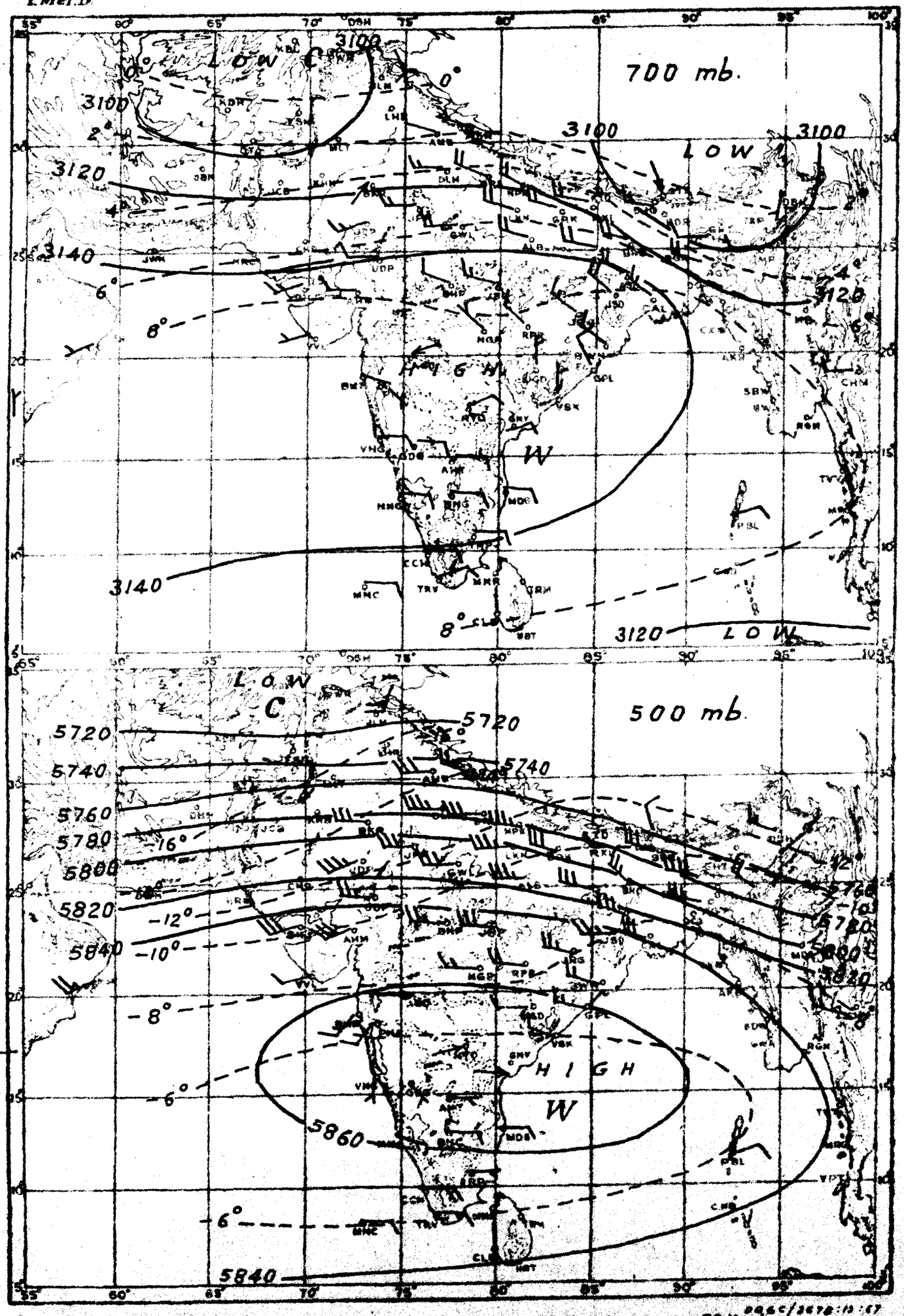
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots

- - - - - Isotherms in degrees centigrade ——— Contours in geopotential metres

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER

I.Met.D. Plate II



RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.