India - Meteorological Dept.

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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

January

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Chief features—

(i) Passage of two active western disturbances which gave abundant rainfall over the northern and the central parts of the country and

(ii) Movement of a depression across the extreme south Peninsula resulting in a short spell of heavy rainfall in the Madras State in the second week of January.

Five western disturbances affected the weather over north India during this month. Of these, the first and the last disturbances were particularly active and caused extensive precipitation over north India and the central parts of the country. In fact, the last western disturbance of the month attained the intensity of a depression while it lay over the Punjabs on 30th January and caused fairly widespread rain or snow in the Western Himalayas and also fairly widespread showers with a few heavy falls in the adjoining plains. The movement and activity of each of the western disturbances is given in the following tabular statement.

Statement showing the movement and activity of western disturbances during January 1961

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	29th Dec. 1960—5th Jan. 1961.	South Baluchistan-Sind-Punjab (P)-Punjab (I)-Western Himalayas Nepal Himalayas-Eastern Himalayas.	Rajasthan	Scattered showers	29th Dec. 1960—3rd Jan. 1961.	
			Punjab-Kumaon hills, Himachal Pradesh	Fairly widespread or local rain/snow.	30th Dec. 1960—3rd Jan. 1961.	
			Jammu and Kashmir	Local or scattered rain/snow	30th Dec. 1960—3rd Jan. 1961.	
			Plains of Punjab(I) and of west Uttar Pradesh.	Local or scattered rain	31st Dec. 1960—3rd Jan. 1961.	
			East Uttar Pradesh, Madhya Pradesh, Orrisa Bihar State and West Bengal.	Local or scattered rain.	1st-4th Jan.	
			Assam	Local or scattered rain.	2nd-5th Jan.	
2	9th—13th	Northern divisions of West Pakistan-Punjab (I)-Jammu and Kashmir-Western Himalayas-Nepal Himalayas-Eastern Himalayas.	Jammu and Kashmir	Scattered rain/snow.	11th	
			Punjab hills	Scattered rain/snow.	12th	
			Northeast Assam	Isolated light or very light showers.	13th	
3	16th—18th	Baluchistan-Sind-Punjab (P)-Punjab (I)-Jammu and Kashmir.	North Rajasthan Punjab-Kumaon hills Jammu and Kashmir	Isolated light to very light showers	18th	
4	23rd—27th	Baluchistan-Sind-Punjab (P)-Punjab (I)-Jammu and Kashmir.	Punjab (I)	Scattered showers	26th-27th	Isolated snowfalls in the hills on 27th
			Himachal Pradesh	Local rain	26th	
			Jammu and Kashmir	Local or scattered rain/snow	25th—27th	
5	27th January—3rd February	Baluchistan-Punjab (P)-Punjab (I)-Jammu and Kashmir-Western Himalayas-Nepal Himalayas-Eastern Himalayas	Rajasthan	Scattered showers.	29th-30th	
			Jammu and Kashmir Himachal Pradesh-Punjab-Kumaon hills	Fairly widespread or local rain/snow.	29th January-1st Feb.	(i) It intensified into a depression with centre near Lyallpur on 30th morning.
			Punjab Plains	Fairly widespread showers	30th Jan.	

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Statement showing the movement and activity of western disturbances during January 1961—*Contd.*

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
5.	27th January 3rd February—*contd.*			Local or scattered showers	29th 31st Jan. and 1st Feb.	(ii) Ambala reported 9 cm of rain, Mandi and Dharamsala 8 cm each and Chandigarh 7cm on 30th January.
			Plains of Uttar Pradesh	Fairly widespread or local showers.	30th Jan 1st Feb.	
			Madhya Pradesh	Local or scattered thundershowers.	30th Jan. 1st Feb.	
			Northeast India	Fairly widespread thundershowers	3rd Feb.	(iii) A few hailstorms occurred in Madhya Pradesh.
				Scattered thunder showers	1st-2nd Feb.	

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A trough of low pressure which lay off the Circars-north Coromandal coast on 31st December shifted a little northwards and filled up by 3rd January. Under its influence, a few showers occurred in the Madras State, coastal Andhra Pradesh and coastal Orissa between 1st and 3rd January.

In association with an easterly wave, a depression developed in the southwest Bay of Bengal with centre about 100 kms northeast of Trincomalee on the evening of 9th. It crossed the extreme south Peninsula, weakened into a low pressure area over the southeast Arabian Sea on 12th and then moved away westwards. Under its influence, rainfall was fairly widespread in the Madras State and occurred at a few places over the rest of the south Peninsula on 11th and 12th. Cuddalore and Palayamcottai each reported 13 cm of rain and Tuticorin 9 cm on 11th. Stormy weather occurred in the Seas near Tuticorin and this was responsible for the sinking of ten cargo boats near the Tuticorin port on the night of 10th-11th.

In association with another easterly wave, a low pressure area formed in the extreme southwest Bay of Bengal on 14th. It crossed south Ceylon and the neighbouring sea area and moved away westwards across the southeast Arabian Sea by 18th. In association with it, local or fairly widespread rain occurred in the Bay Islands from 12th to 14th and in the south Madras State from 15th to 17th. Adiramapattinam reported 8 cm of rain on 16th. Very heavy rainfall was reported from Ceylon on 15th and according to press reports, nearly 4000 persons in Ceylon were marooned by the flood waters.

In the wake of the first western disturbance of the month, night temperatures generally fell below normal practically over the whole of north India by 6th January and remained so till about the 15th. They were appreciably below normal over Gujarat State, south Rajasthan and west Madhya Pradesh on a few days. Over the Peninsula, night temperatures remained generally above normal during the first half of the month. During the second half of the month, the temperatures over north India were above normal at many places, being appreciably so over Uttar Pradesh and north Madhya Pradesh toward the close of the month.

The rainfall during the month was in large excess in Orissa, Uttar Pradesh, the Punjab (I), east Rajasthan, west Madhya Pradesh, the Madras State and the Arabian Sea Islands, in moderate excess in the Bay Islands, in slight excess in west Rajasthan and east Madhya Pradesh and normal in Gangetic West Bengal, Jammu & Kashmir and Kerala. It was in slight defect in Bihar Plains, in moderate defect in Assam, Sub-Himalayan west Bengal, Bihar Plateau, coastal Andhra Pradesh and south Interior Mysore and in large defect in Saurashtra and Kutch, Madhya Maharashtra, Vidarbha and Telangana. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Assam, Bihar Plateau, the Konkan, Marathwada, Vidarbha and coastal Mysore and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was normal in Orissa, Bihar Plateau, Jammu and Kashmir, east Rajasthan, west Madhya Pradesh, Gujarat State, the Konkan, Madhya Maharashtra, the Mysore State, Kerala and the Arabian Sea Islands and above normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Uttar Pradesh, the Punjab (I), Rajasthan and south Interior Mysore, below normal in Assam, Gujarat Region and the Konkan and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was below normal in Assam, normal in West Bengal, Bihar State, west Uttar Pradesh, Jammu and Kashmir, west Rajasthan, Saurashtra and Kutch, the Konkan, Marathwada and Vidarbha and normal over the rest of the country outside Himachal, Pradesh.

Errata to M.W.R. for January 1961 (Pausa 11 - Magha 11, 1882 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Division					
4	12. Andhra Pradesh		4	-0.1	+0.1
Sub- division					
4	16. Madhya Pradesh (East)		4	+1.7	+0.7
Table - II					
5	Rangia		1	Ramiya(R)	Rangia
6	Puri		7	-0.4	+0.4
6	Koraput		12	+ .7	+12.7
8	Nimuch		1	Ne mmuch	Nimuch
9	Ahmadabad		1	Ahmadnoad	Ahmadabad
9	Nander		1	Nanded	Nander
9	Bir		1	Bhir	Bir
10	Pusad		4	30.0	33.0
10	Kakinada		3	-0.4	+0.4
10	Tiruppattur		1	Tirupattu	Tirupattur
10	Tuticorin		12	+39.3	+139.3
11	Karwar		9	(Blank)	20
11	Honavar		29	(Blank)	0
11	Bidar		7	+0.1	+1.0
11	Balehonnur		7	-0.4	+0.4
12	Mannar to Hambantota		1 to 29	(Data given)	(Delete)
12	Hirakud		13	5.4	4.4
12	Tehri		8	0.4	-0.4
13	Gezing		21	0	(Blank)
Table- III					
14	Long Island	1730	28	0	1
14	Port Blair	0830	14	(Not clear)	+1.3
15	Imphal (Tulihal)	1730	25	(Not clear)	10
16	Krishnanagar	0830	9	18.7	12.7
16	Burdwan	0830	12	-7	-2
17	Cuttack	0830	8	17.5	17.6
17	Titlagarh	0830	1	(Not clear)	Titlagarh
17	Puri	0830	17	0	1
17	Ranchi (Aerodrome)	0830	8	19.6	10.6
17	Motihari	1730	15	0.2	0.3
18	Lucknow (Amausi)	0830	14	+ 0.	+0.6
19	Varanasi	1730	10	(Not clear)	14.1
19	Najibabad	0830	1	Najibad	Nijibabad
19	Bareilly	0830	6	-1.2	+1.2
20	Ambala (Aerodrome)	1130	6	0	..
20	Hissar	0830	5	992.	992.6
20	Hissar	1130	5	993.	993.6
20	Hissar	1730	5	990.	990.6
21	Palam (Aerodrome)	2330	7	19.9	10.9
22	Munabao	0830	13	9.0	4.0
22	Udaipur	2330	8	3.3	8.3
23	Chhindwara	0830	10	(Not clear)	11.1
24	Surat	0830	22	1	2
25	Porbandar	0830	3	37	7
25	Keshod	1730	22	8	0
25	Veraval	0830	6	+0.1	-0.1
25	Dahanu	0830	5	+10.6	+0.6
25	Ratnagiri	0830	7	22.1	22.5
26	Deolali (Aerodrome)	0830	18	28	18
26	Kolhapur	1730	8	17.4	17.5
26	Kolhapur	2330	5	959.6	949.6

Contd.2

Page No.	Station	Hour	Column	For	Read
27	Akola	0830	13	..	2.0
27	Rentachintala	1730	4	1013.9	1012.9
28	Kurnool	0830	12	(Not clear)	+'4
28	Tiruppattur	0830	3	,,	390
28	Cuddalore	0830	6	+0.1	-0.1
28	Cuddalore	0830	10	25.3	25.8
30	Raichur	0830	1	(Not clear)	Raichur
30	Bangalore (Aerodrome)	1130	5	515.5	915.5
30	Fort Cochin	0830	1	(Not clear)	Fort Cochin
31	Dharmsala	0830	3	(Not clear)	1211
32	Mannar to Hambantota	all hours	1 to 28	(Data Given)	(Delete)
33	Barahakshetra	0830	5	1007.7	1001.7
33	Barahakshetra	1730	5	297.6	997.6

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Page	Station	Time in I.S.T	Height in km.	Entry under column	Existing entry	Correct entry
35	Bhagalpur	-	-	Approximate times of flights(IST)	0530, 1730, 2330	0530, 1730
Table - IV						
41	Dum Dum	1130*	0.3	V	4.5	2.5
41	Dum Dum	2330*	Surface	D	266	066
42	Gauhati	1730*	0.3	v	0.	0.9
42	Gauhati	1730*	0.6	D	068	078
44	Jamshedpur	0530 & 1730	7.2	n V v D	Values for 7.2 level slightly printed up.	
44	Jharsuguda	1730	7.2 & 9.0	n V v D	Values for 7.2 and 9.0 levels are slightly printed up.	
44	Jodhpur	1730*	4.5	D	064	264
47	Raipur	1730	5.4	D	378	278
47	Tiruchirapalli	0530		Time in IST	0530*	0530
48	Vengurla	1730	7.2	n V v D	Values printed slightly up.	
49	Visakhapatnam	1730	Surface	D	04	044
49	Visakhapatnam	1730	3.0	D	041	341
49	Visakhapatnam	1730	9.0	D		259
Table - V						
51	Nagpur	0530	-	Time in IST	0530	0530*
51	Nagpur	1130	-	Time in IST	1130*	1130
51	Santa Cruz	1730*	10.5	V	28.1	28.0
51	Trivandrum	1130	-	Time in IST	1330	1130
Table VI - RADIOSONDE DATA						
53	Gwalior	00 GMT	800 mb.	Mean	280.2	280.9
54	Madras	00 GMT	200 mb.	Ht. gpm	12345	12346
54	Trivandrum	00 GMT	80 mb.	Min.	785	185
55	Visakhapatnam	00 GMT		Surface Pressure	1008	1009
55	Visakhapatnam	00 GMT	850 mb.	Mean	289.5	288.5
55	Visakhapatnam	00 GMT	700 mb.	Mean	280.2	280.9
55	Visakhapatnam	00 GMT	60 mb.	Mean	291.6	201.6
56	Gauhati	12 GMT	800 mb.	Dew Point	275.2	275.7
57	Port Blair	12 GMT	175 mb.	Ht. gpm	13131	13181
57	Veraval	12 GMT	700 mb.	Dew Point	267.5	265.5
58	Visakhapatnam	12 GMT		Surface pres-	1009	1008
58	Visakhapatnam	12 GMT	800 mb.	Min.	239	279
58	Visakhapatnam	12 GMT	150 mb.	Mean	207.3	207.2

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

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

POONA 5,

The 31st March, 1961.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	10·7	56	24·6	12·2	82	67	2·3	1·5
	−8·5		+1·5	+1·7	−6		−0·8	
2. West Bengal	10·6	94	25·7	13·4	73	54	1·7	1·6
	−0 7		+0·5	+1·5	−2		0	
3. Orissa	31·0	326	26·8	15·6	77	59	2·4	3·2
	+21·5		−0·6	+0·7	+3		+0·6	
4. Bihar	11·3	71	24·7	10·6	72	60	1·5	1·7
	−4·6		+0·8	+0·9	0		−0·3	
5. Uttar Pradesh	37·7	175	22·1	9·2	82	60	2·3	2·8
	+16·2		−0·4	+1·3	+7		+0·3	
6. Punjab (India) (Including Delhi)*	59·8	203	21·3	7·5	85	57	2·9	2·6
	+30·4		+0·6	+1·2	+10		+0·2	
7. Jammu and Kashmir	41·7	100	2·1	−7·4	72	60	5·8	5·1
	−0·1		+0·3	+0·5	−1		−0·2	
Sub-Division								
1. Bay Islands	62·8	138	29·9	23·7	73	79	4·7	5·3
	+17·3		+0·9	+1·7	+2		+1·3	
2. Assam (Including Manipur, Tripura)	10·7	56	24·6	12·2	82	67	2·3	1·5
	−8·5		+1·5	+1·7	−6		−0·8	
3. Sub-Himalayan West Bengal	6·7	71	23·9	12·0	77	58	1·3	1·3
	−2·7		+0·3	+1·7	−2		+0·1	
4. Gangetic West Bengal	12·3	102	26·3	13·8	71	53	1·8	1·7
	+0·2		+0·5	+1·4	−2		0	
5. Orissa	31·0	326	26·8	15·6	77	59	2·4	3·2
	+21·5		−0·6	+0·7	+3		+0·6	
6. Bihar Plateau	9.5	51	25·7	11·0	68	57	1·5	1·9
	−9·2		+1·1	+0·7	−1		−0·3	
7. Bihar Plains	12·3	87	23·7	10·2	75	63	1·4	1·4
	−1·9		+0·4	+1·2	+1		−0·3	
8. Uttar Pradesh (East)	28·3	164	22·9	9·6	83	59	2·2	2·6
	+11·0		−0·2	+1·4	+5		+0·4	
9. Uttar Pradesh (West)	48·3	184	21·1	8·6	81	61	2·5	3·0
	+22·0		−0·6	+1·3	+9		+0·2	
10. Punjab (India) (Including Delhi).	59·8	203	21·3	7·5	85	57	2·9	2·6
	+30·4		+0·6	+1·2	+10		+0·2	
11. Himachal Pradesh	117·1	..	18·7	4·8	94	57	5·0	4·1
	..		..	..	..		..	
12. Jammu and Kashmir	41·7	100	2·1	−7·4	72	60	5·8	5·1
	−0·1		+0·3	+0·5	−1		−0·2	
13. Rajasthan (West)	7·4	121	23·6	8·2	69	40	2·9	1·1
	+1·3		+0·8	+1·3	+10		+0·4	
14. Rajasthan (East)	21·6	281	23·4	8·6	65	36	2·5	2·6
	+13·9		−0·6	−0·1	+8		+0·7	
15. Madhya Pradesh (West)	34·3	330	25·5	10·2	63	39	2·7	2·8
	+23·9		−0·2	+0·4	+3		+1·0	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	14·5	210	23·5	8·4	67	38	2·7	2·4
	+7·6		0	+0·5	+9		+0·6	
9. Madhya Pradesh	28·4	222	26·0	10·9	65	41	2·7	2·7
	+15·6		+0·2	+0·8	+2		+0·8	
10. Gujarat State	0	0	28·9	12·5	49	30	1·6	1·5
	−1·6		+0·3	+0·7	−5		+0·3	
11. Maharashtra State	0·6	13	30·5	22·2	60	39	1·7	1·9
	−4·1		+1·1	+1·1	−1		+0·2	
12. Andhra Pradesh	4·0	22	29·2	18·9	71	57	3·6	3·3
	−14·2		−0·1	+1·3	+4		+1·0	
13. Madras State	104·4	275	29·1	21·5	82	64	5·1	4·9
	+66·5		−0 2	+1·5	+1		+1·8	
14. Mysore	1·0	24	29·6	17·6	71	39	3·5	3·8
	−3·1		0	+1·0	+5		+1·5	
15. Kerala	17·0	99	31·1	23·2	75	65	4.2	4·3
	−0·2		+0·1	+0·9	0		+1·9	
Sub-Division—*contd.*								
16. Madhya Pradesh (East)	20·0	123	26·6	11·8	69	45	2·6	2·7
	+3·8		+1·7	+1·5	0		+0·7	
17. Gujarat Region	0	0	30·1	12·7	51	25	1·8	1·7
	−1·8		+0·5	+1·0	−7		+0·6	
18. Saurashtra and Kutch	0·1	6	27·7	12·4	49	35	1·5	1·4
	−1·6		+0·3	+0·3	−3		+0·1	
19. Konkan	0	0	29·6	19·5	63	62	1·7	1·6
	−2·5		+1·1	+0·9	−6		+0·2	
20. Madhya Maharashtra	0·9	25	31·0	14·1	59	28	1·7	2·2
	−2·7		+0·9	+0·9	+3		+0·3	
21. Marathwada	0	0	30·6	15·5	42	26	1·6	1·6
	−8·3		+1·3	+1·8	−5		0	
22. Vidarbha	1·4	16	30·9	14·9	60	32	1·8	1·7
	−7·5		+1·5	+1·5	+1		+0·1	
23. Coastal Andhra Pradesh	7·2	70	28·6	19·6	82	70	4·0	3·5
	−3·1		−0.2	+1·3	+5		+1·2	
24. Telangana	0·2	2	29·6	17·1	77	37	3·0	2·9
	−8·9		+0·7	+1·4	+5		+0·6	
25. Rayalaseema	0	0	31·7	18·7	72	45	3·0	3·1
	−6·6		+0·4	+1·2	+1		+1·1	
26. Madras State	104·4	275	29·1	21·5	82	64	5·1	4·9
	+66·5		−0·2	+1·5	+1		+1·8	
27. Coastal Mysore	0	0	32·9	21·3	66	55	3·7	3·5
	−3·5		+1·1	+0·6	−3		+1·4	
28. Interior Mysore (North)	0	0	30·1	17·1	65	37	2·6	3·4
	−4·4		+0·1	+1·0	+4		+1·1	
29. Interior Mysore (South)	2·3	57	28·1	16·7	80	46	4·4	4·5
	−1·7		−0·5	+1·0	+10		+2·0	
30. Kerala	17·0	99	31·1	23·2	75	65	4·2	4·3
	−0·2		+0·1	+0·9	0		+1·9	
31. Arabian Sea Islands	60·3	190	31·1	23·3	79	69	4·5	4·1
	+28·6		+1·0	+0·2	+5		+1·1	

NOTE—The entries in the second line for each division and sub-division indicate departures from normal. *Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Maya Bandar	28·7	..	30·0	31	23·4	..	20·6	4	0	73·4	..	63·2	7	3	..	17·6	12·1	..	0	3	0	0	1	0	0	0	0	0	0
Long Island	30·1	..	31·1	1,2,13	23·0	..	20·7	26	0	33·0	..	23·0	7	3	..	2·5	1·5	..	0	3	0	0	0	0	0	0	0	0	0
Port Blair	29·9	+0·9	31·2	13	23·7	+1·7	21·2	3,26	12·4	62·8	+17·3	35·6	7	3	+0·7	9·2	9·1	−4·6	0	5	0	0	2	0	0	0	0	0	0
Car Nicobar	29·3	..	29·8	29	24·4	..	22·1	4	101·6	177·6	..	50·3	8	7	..	8·1	6·0	..	0	8	0	0	1	0	0	0	0	0	0
Nancowry	30·9	..	32·7	10	24·5	..	22·7	4,5	20·2	117·8	..	38·2	4	9	..	0.5	0·3	..	0	11	0	0	3	0	0	0	0	0	0
Kondul	27·6	..	28·9	28,30	24·7	..	23·2	5, 7,8	80·2	197·4	..	48·4	12	11	..	..	..	..	1	15	0	0	2	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	25·8	..	26·6	30	14·6	..	7·7	21	12·0	50·0	..	32·4	5	2	..	10·4	14·5	..	0	4	0	1	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	23·8	+2.2	27.0	30,31	9·5	+1.4	6·3	16	5·1	39·0	−2.7	17·2	20	4	+0·3	5·3	2·5	+0·4	0	5	0	0	4	14	0	0	0	0	0
Dibrugarh	24·5	+2·6	27·3	31	11·9	+1·8	8·9	26	1·8	28·2	−9·7	21·1	20	2	−1·7	2·2	1.4	+0·4	0	6	0	0	1	8	0	0	0	0	0
Digboi *																														
North Lakhimpur	23·6	+0.8	25·8	1	9·1	+0.2	5·8	15	1·2	20·0	−19·1	19·0	20	1	−2·3	..	..	..	1	3	0	0	3	2	0	0	0	0	0
Sibsagar	24·3	+2·9	26·1	20	11·6	+1·8	7·9	25	3·1	23·8	−6·9	14·0	20	4	+0·5	1·9	2·0	+0·2	0	4	0	0	1	28	0	0	0	0	0
Gohpur (R)																														
Majbat	..	..	..	..	..	..	..	..	0	11·0	..	10·2	20	1	..	2·0	0·9	..	0	2	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	24.9	..	26 5	20	10·5	..	6·6	26	0	7.3	..	3·0	20	1	..	..	..	..	0	3	0	0	0	14	0	0	0	0	0
Tangla	25·9	..	28·2	30	12·0	..	6·5	16	0	5·6	..	5·6	20	1	..	2·2	2·2	.	0	1	0	0	0	6	0	0	0	0	0
Tezpur	25·0	+1·8	27·8	31	13·0	+1·6	11·2	16, 17	0	7·8	−6·9	7·4	20	1	−0 5	5·0	4·5	+1·8	0	2	0	0	0	0	0	0	0	0	0
Golaghat	25.3	..	28·3	31	11·3	..	7.5	25	0	(c) 3·4	..	2·0	4	0	..	..	..	..	0	2	0	0	0	1	0	0	0	0	0
Rangiya (R)																														
Chaparmukh	Temporarily closed from 7-7-1960																													
Goalpara	26·0	..	27·9	30	11·5	..	6.5	15	0	5·0	..	3·4	20	1	..	(a) 4·1	(b) 5·4	..	0	2	0	0	0	2	0	0	0	0	0
Gauhati	25·1	+1.4	28·3	30	13·0	+2·4	10·2	16	0	4·0	−5·7	0.2	4, 20	0	−1·1	1·0	1·0	−0·9	0	2	0	0	2	28	0	0	0	0	0
Gauhati (Bhorjor)	24·9	..	27.5	30	10·8	..	7·8	14	0	1·9	..	1·3	4	0	..	4·7	2·3	..	0	2	0	0	1	7	0	0	0	0	0
Dhubri (Rupsi)	25·6	..	28·1	30	10·8	..	5·2	13	0	7·0	..	5·8	20	1	..	4·5	2·4	..	0	2	0	0	1	4	0	0	0	0	0
Dhubri	23·6	+0·6	26·7	31	13·7	+1·9	9·5	14	0	1·1	−6·8	1·1	4	0	−0.8	2·0	1·0	−4·0	0	1	0	0	0	0	0	0	0	0	0
Lumding	25.6	+2.5	29·0	31	9.0	+0.6	5·0	15	2·4	3·8	−10·4	2·4	5	1	−0·4	3·5	1·6	..	0	2	0	0	0	0	0	0	0	0	0
Umroi	21·3	..	24·0	26	5.6	..	2·3	16	0·2	1·6	..	1·2	22	0	..	9·6	4.8	..	1	2	0	0	0	29	0	0	0	0	0
Tura	24·5	..	27·9	30	9·8	..	5·6	14	0	18·3	..	18·3	5	1	..	4·5	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Haflong	22·9	..	24·6	4	11·9	..	9·3	15	3·6	5·1	..	2.4	21	1	..	..	..	..	0	3	0	0	1	4	0	0	0	0	0
Silchar (Kumbhigram)	26·6	..	29·3	4,30	13·1	..	9·5	15	0	4·6	..	4·6	4	1	..	5·5	7·5	..	0	1	0	0	0	1	0	0	0	0	0
Silchar	24·0	−1·6	28·6	25	13·1	+1·8	9·8	15	1·6	6·4	−13·2	4·8	4	1	−0·5	1·8	0 9	−0.9	0	2	0	0	0	0	0	0	0	0	0
Imphal (Tulihal)	22·3	+1·2	25·1	30	5·0	+1.4	0 9	15	4·9	13·7	−3·6	8·4	4	2	+0·3	7·3	4·4	−0·5	0	2	0	0	0	15	0	0	0	0	0
Kailashahar	27·3	..	29·9	29,30	10 5	..	5·4	15	0	0·2	..	0·2	2	0	..	3·8	2·0	..	0	1	0	0	0	8	0	0	0	0	0
Agartala	26·5	+1·0	29 9	30	11·3	+0·9	7·3	6	0	2·4	−14·8	1·2	4, 22	0	−1·3	6·7	3·2	−0·6	0	2	0	0	0	6	0	0	0	0	0
Sub-Himalayan West Bengal																														
Bagdogra	24·8	+0·8	26.6	19	9·3	+0.6	5 8	13	14·4	35·2	+16·3	20·8	21	2	+0·4	7·7	6·1	+2·4	0	2	0	0	1	3	0	0	0	0	0
Jalpaiguri	22·5	−1·1	25·4	30	11·9	+1·3	8 5	13	0	0	−7·9	0	..	0	−0·7	5·5	3·7	+2·3	0	0	0	0	0	2	0	0	0	0	0
Cooch Behar	25·3	..	28·8	30	10 4	..	6·2	13	0	0	−6·6	0	..	0	−0·5	4·5	2·0	..	0	0	0	0	1	11	0	0	0	0	0
Balurghat	26·6	..	29·8	29	10·9	..	6·3	14	2·0	3·9	..	3.9	4	1	..	4·9	3·1	..	0	1	0	0	0	7	0	0	0	0	0
Malda	25·2	+1·6	28·6	2	12·1	+2·1	7·2	14	20·0	20·0	+6.3	20·0	4	1	+0.1	7·1	5·1	+0·8	0	1	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																														
Berhampore	26·3	+1·5	30·7	1,31	12·5	+0·7	8·9	11	0	6·6	−3·1	6·6	4	1	0	1·3	0·6	−1·2	0	1	0	0	0	3	0	0	0	0	0
Suri	25·8	..	29·3	31	13·5	..	9·0	9	0	13·0	..	11·4	4	1	..	6·7	5·3	..	0	2	0	0	0	1	0	0	0	0	0
Asansol	26·0	+0·6	30·3	1	13·1	+1·6	9·2	7	0	8·1	−8 9	4·4	4	2	+0·6	7·2	5·0	−0·3	0	2	0	0	1	1	0	0	0	0	0
Shanti Niketan	25·9	..	29·9	31	12·5	..	8·1	8	0	6·2	..	3·0	22	2	..	5·9	6·4	..	0	3	0	0	1	0	0	0	0	0	0
Krishnagar	27·0	+1·4	31·1	31	12·5	+1.6	7·5	15	0	1·8	−9·6	1·0	4	0	−0·9	3·0	1·4	−0·4	0	2	0	0	0	0	0	0	0	0	0
Purulia	25·1	−1·0	29·4	1	13·0	+0·2	8·2	7	1·6	4·0	−4·9	2·4	22	0	−1·1	4·2	3·0	0	0	2	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	19·4	+4·7	11·0	22	2	+0·8	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Burdwan	23.6	−2·5	28·5	3	13.9	+1.3	9·4	8	0	6·4	−5·0	4·4	22	1	+0·1	4·6	2·8	+0·9	0	2	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	25.7	..	29.4	31	12·9	..	8·3	16	0·5	31·8	..	27·5	22	2	..	..	..	..	0	2	0	0	1	6	0	0	0	0	0
Calcutta (Dum Dum)	26·9	+0·6	31.2	13	12·7	+0·1	8·9	16	1·6	19·4	+2·7	15·2	22	2	+0·9	5·3	3·3	−0·7	0	4	0	0	1	7	0	0	0	0	0
Calcutta	26·9	+0·5	30·6	31	14·6	+2·0	10.5	9	2·5	36·2	+26.8	30·6	22	2	+1·2	6·5	3·5	+0·3	1	4	0	0	2	9	0	0	0	1	0
Midnapore	26·5	−0·6	30.7	31	13·9	+0·8	8·3	8	2.6	4.0	−7·9	4·0	2	1	+0·1	5·0	3·2	+0·6	0	1	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Total or Mean of 28 days. (R) Register not received. *Data not reliable.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days upto (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*contd.*																													
Contai	26·1	−0·7	28·3	13	14·8	+0·2	10·1	8	7·1	10·1	−3·4	9·1	2	1	0	5·8	3·6	−0·6	0	2	0	0	0	6	0	0	0	0	0
Sagar Island	24·8	−0·2	26·8	28	16·4	+1·6	12·9	6,8	2·8	10·1	−0·3	3·7	1	3	+2·1	13·8	10·6	+1·7	0	3	0	0	0	11	0	0	0	0	0
Sandheads	27·5	..	32·6	30	21·4	..	17·9	9	1·6	4·7	−0·1	3·1	1	1	+0·5	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	27.1	..	31·4	31	13·4	..	8·6	8	3·4	10·6	..	10·0	2	1	..	3·5	1·7	..	0	2	0	0	0	20	0	0	0	0	0
Jharsuguda	27·5	−0·1	30·0	13	12·8	+0·1	7.9	8	1·0	9·9	−5·6	9·3	3	1	−0·3	6·4	5·5	−0.3	0	2	0	0	1	0	0	0	0	0	0
Keonjhargarh	25·7	..	27·8	4days	12·6	..	8·5	8	1·2	8·2	..	4·4	2	1	..	4·2	3·0	..	0	3	0	0	0	1	0	0	0	0	0
Balasore	26·5	−0·7	29·3	21	14·7	+1·2	10·6	8	14·2	21·5	+8·0	15·5	2	2	+1·0	4·3	2·3	−0·6	0	4	0	0	1	0	0	0	0	0	0
Sambalpur	27·9	+0·2	31·2	13	13·4	+0·6	8·7	8	5·6	6·8	−4·1	5·6	2	1	+0·1	3·9	2·9	−0·5	0	2	0	0	0	0	0	0	0	0	0
Angul	26·7	−1·0	29·4	13,14	14·5	+1·1	10·1	8	14·2	32·2	+21·0	17·6	2	3	+2·1	5·6	4·8	0	0	3	0	0	0	0	0	0	0	0	0
Cuttack	28·1	−0·3	32·3	22	16·5	+1·1	13·3	7,8	11·4	45·2	+37·1	31·2	1	3	+2·3	4·3	3·1	+1·3	0	3	0	0	0	1	0	0	0	0	0
Chandbali	26.1	−1·3	29·4	22,23	14·2	−0·2	10·0	7	9·2	50·2	+45·1	23·6	1	3	+2·3	8·0	5·5	−0·3	0	3	0	0	0	5	0	0	0	0	0
Bolangir	28·4	..	30·9	31	14·8	..	11·1	7	1·2	12·6	..	8·6	2	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Phulabani	26·6	..	29·9	12,13	10·4	..	5·8	8	13·4	22·0	..	13·6	2	2	..	2·7	1·9	..	3	0	0	0	0	0	0	0	0	0	0
Titilagarh	29·3	..	31·5	22	15·5	..	10·7	24	0	0	..	0	..	0	..	2·3	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Bhubaneswar	27·2	−1·4	30·6	25	17.0	+1·1	13·3	7,9	14·1	34·4	+22·8	18·8	1	3	+2·3	8·4	6·8	−2·3	0	3	0	0	0	3	0	0	0	0	0
Puri	26·2	−0·5	28·3	5,20	18·0	−0·4	14·4	8	16·6	39·0	+28·6	15·0	3	3	+2·4	11·5	10·9	+0·9	0	3	0	0	0	0	0	0	0	0	0
Gopalpur	26·4	−0·6	28·5	14,20	17·6	+0·8	14·4	7	1·6	22·2	+15·1	16·4	1	2	+1·5	11·7	9·6	−0·2	0	2	0	0	0	1	0	0	0	0	0
Koraput	24·0	−1.2	27·2	12,13, 14	13·3	+1·3	8·9	8	4·1	19·8	+ ·7	15·7	1	2	+1·8	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	25·7	+1·3	29·8	1	11·8	+1·3	7·9	15	8·6	14·6	−2·4	8·6	4	2	+0·7	4·7	3·1	+1·0	0	2	0	0	0	1	0	0	0	0	0
Daltonganj	24·9	+0·5	30·8	2	9·7	+1·1	4·7	8	15·0	23·0	−0·4	15·0	4	2	+0·1	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hazaribagh	24·0	+1·3	28·5	1	9·9	−0·3	5·6	15	1·8	10·8	−11·8	6·4	3	1	−0·9	8·8	6·9	−1·5	0	4	0	0	1	0	0	0	0	0	0
Dhanbad	26·1	..	28·7	1	12.9	..	8·7	16	0	4·9	..	2.6	22	1	..	5·5	4·4	..	0	2	0	0	1	6	0	0	0	0	0
Ranchi	26·1	+3·0	31·4	1	9·9	−0·7	5·9	7	2·4	3·1	−20·3	3·1	4	1	−0·8	(a) 2·3	(a) 1·9	−3·7	0	1	0	0	0	0	0	0	0	0	0
Ranchi(Aerodrome)	23·4	..	26·2	1,12	11·1	..	6·7	7	0	4.0	..	4·0	4	1	..	(j) 8·8	7·6	..	0	1	0	0	0	2	0	0	0	0	0
Jamshedpur	27·1	+0·2	31·2	31	12·5	+1·8	7·7	8	4.4	1·8	−7·3	1·0	4	0	−0·9	4·7	3·0	+0.6	0	2	0	0	1	2	0	0	0	0	0
Jamshedpur(P.B.O.)	26·3	..	29·8	31	12·4	..	7·4	8	0·2	1·7	..	1·3	4	0	..	..	..	..	0	2	0	0	1	0	0	0	0	0	0
Chaibasa	26·7	+0·5	30·1	31	12·2	+0·9	8·2	8	3·6	3·4	−12·9	3·4	4	1	−0·4	2·3	1·5	−0·6	0	1	0	0	1	0	0	0	0	0	0
Bihar Plains																													
Motihari	20·4	−2·4	24·5	2	9·9	+1·6	5·5	14	0	0	−11·9	0	..	0	−1·1	1.5	1·0	−1·4	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	26·1	..	30·4	30	10·5	..	6·3	14	1·2	1·5	..	0·8	3	0	..	6·8	4·6	..	0	2	0	0	0	2	0	0	0	0	0
Darbhanga	24·1	+0·6	28·3	30	11·5	+1·6	9·4	5,15	24·6	37·0	+25·8	22·4	3	3	+2·0	2·7	2·2	−0·1	0	3	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	30·5	+17·3	25·4	3	2	+0·9	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Chapra	24·0	..	27·7	2	10·5	..	6·2	14, 15	1·7	3·2	−11·3	1·8	4	0	−1·3	1·4	0·5	..	1	2	0	0	0	0	0	0	0	0	0
Purnea	25·4	+1·7	28·6	30	9·4	+0·7	5·5	13, 14	0	0	−10·4	0	..	0	−0·8	4·7	2 3	0	0	0	0	0	0	1	0	0	0	0	0
Patna	24·3	+1·5	29·2	2	11·6	+1·0	6·6	15	2·0	20·1	+5·1	18·1	2	1	−0·3	5·7	5·1	+1·6	0	2	0	0	0	1	0	0	0	0	0
Patna (Aerodrome)	23·5	..	27·8	30	10·0	..	5·5	14	5·1	16·9	..	11·8	2	2	..	7·0	3 6	..	0	2	0	0	1	5	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0·2	−16·8	0·2	3	0	−1·3	..	..	..	1	0	..	..	..	..	..	..	..	..	..
Bhagalpur	24·4	+0·4	28·6	30	11·2	−0·6	7·9	14	4·6	4·6	−29·9	4.6	4	1	−0·8	6·5	5·1	+0·1	0	1	0	0	1	0	0	0	0	0	0
Sabour	24·0	+0·7	28·4	2	9·1	+1·9	4·0	15	4·2	4·3	−9·4	4·2	4	1	−0·1	7·0	4·1	−0·9	1	1	0	0	1	1	0	0	0	0	0
Jamui	25·2	..	29·5	1	10·3	..	5·8	15	10·2	10·2	..	10·2	4	1	..	7.2	3·7	..	0	1	0	0	1	7	0	0	0	0	0
Dehri	24·0	..	29·2	1	12·0	..	7·6	15	2·4	18·2	+0·9	11·4	3	2	+0·5	6·1	4·6	..	0	3	0	0	0	0	0	0	0	0	0
Gaya	23·9	+0·4	30·3	1	9·8	+0·2	5·1	15	7·4	9·9	−8·4	7·4	4	2	+0·7	7·9	5·6	+0·5	0	2	0	0	1	1	0	0	0	1	0
Uttar Pradesh (East)																													
Kheri	22·2	0	26·0	20	9·4	+0·3	5·3	15, 16	7·2	27·0	−21·8	19·6	2	2	−1·2	3·8	2·4	+0·1	1	3	0	0	1	2	0	0	0	0	0
Bahraich	22·7	+0·1	26·2	1	9·7	+1·3	4·7	14	12·1	37·1	+16·3	17·8	2	3	+1·4	5·5	4·3	+1·7	0	4	0	0	1	1	0	0	0	0	0
Nautanwa	..	..	..	..	8·3	..	3·6	13	0	0	..	0	..	0	..	4·1	2·3	..	0	0	0	0	0	3	0	0	0	0	0
Hardoi	21·8	−0·3	25·6	19	9·5	+1·0	5·1	13, 14	3·4	30·8	−8·0	16·0	2	4	+1·2	6·9	4·3	−0·2	0	3	0	0	0	1	0	0	0	0	0
Gonda	22·5	−0·7	25·6	1	9·7	+2·0	5·0	14	2·4	12.2	−0·7	7·2	2	2	+0·8	2·8	1·9	−2·4	0	3	0	0	0	0	0	0	0	0	0
Lucknow	22·1	−1·2	26·0	29	9·8	+1·4	6·6	13, 14	11·0	35·8	+16·5	14·4	1	4	+2·5	4·3	2·6	+0·5	0	4	0	0	0	1	0	0	0	0	0
Lucknow (Amausi)	22·2	−0·7	25·5	1,19	8·1	+0·5	4·0	14	12·3	27·4	+8·1	10·6	2	3	+1·5	7·0	4·8	..	1	4	0	0	1	4	0	0	0	0	0
Faizabad	23·0	..	26 8	1	8·0	..	3·4	13	0·7	13·7	..	13·0	2	1	..	5·5	3·0	..	0	2	0	0	0	5	0	0	0	0	0
Gorakhpur	24·3	+1·5	27·8	1,29	11·4	+2·2	6·7	14	1·0	23·0	+8·0	14·0	2	2	+0·7	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Kanpur	22·4	+0·2	25·9	25,26, 27	9·0	+1·4	5·1	14, 15	22·2	42·2	+28·0	14·0	29	5	+3·6	10·7	8·4	+4·7	0	5	0	0	1	2	0	0	0	0	0
Kanpur (Aerodrome)	22·2	..	25·6	27	9·0	..	3·5	14	23·8	39·8	..	14·2	2,29	4	..	..	..	..	0	5	0	0	3	2	0	0	0	0	0
Sultanpur	22·6	..	27·3	1	9·9	..	5·9	6	2·2	13·7	..	8·9	2	2	..	4·3	2·5	..	0	3	0	0	2	0	0	0	0	0	0

(j) Mean of 21 days. (a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 an 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Azamgarh	24.2	..	28.4	1	7.0	..	3.1	13,14	0	6.4	..	3.2	3	2	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Fatehpur	23·1	−0·9	27·9	1	9·5	+1·5	4.5	15 14	20·5	31·2	+17·5	10·5	28	4	+2·6	5.7	3·2	0	0	5	0	0	1	0	0	0	0	0	0
Ballia	24·3	..	28·8	2	10·5	..	6·2	14	1·8	5·0	..	2·8	30	1	..	4·1	2·3	..	0	3	0	0	0	0	0	0	0	0	0
Banda	23·7	..	28.5	1,27	9·7	..	5·0	13,14	21.9	39·3	..	21·7	30	4	..	4·1	2.5	..	0	6	0	0	0	1	0	0	0	0	0
Allahabad (Bamhrauli)	23·9	+0 1	28·6	1	9·5	+1·1	5·0	13	6·0	27 0	+5·4	10·9	31	3	+1·9	6·2	3.7	−0·5	0	6	0	0	3	4	0	0	0	1	0
Varanasi ((Babatpur)	23·6	+0.4	28·3	1	8·9	−0·4	4·4	14	0.9	21·0	−2·5	12.0	30	2	−0.1	9·1	7·0	+0·3	0	6	0	1	3	1	0	0	0	0	0
Varanasi	23·1	−0·3	29·0	1	10.1	+1·2	6·6	15	2·0	18.9	+0.1	8·3	30	2	+0·5	5·7	3·5	0	0	6	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	19·6	+0·7	24·1	16	6·7	0	2·7	12	34.9	95.7	+36·8	30·0	31	5	+1·1	3·0	2·4	0	0	5	0	0	3	0	0	0	0	0	0
Roorkee	20·5	+0.3	25·3	29	7·7	+1·2	3·6	13	29.2	54·6	+12.2	22·9	31	3	+0·2	6·0	4·8	+1·9	0	4	0	0	2	0	0	0	0	0	0
Najibabad	21·1	..	27·0	29	..	..	..	..	22·0	53·8	..	39·2	2	2	..	5·5	3.7	..	0	4	0	0	1	0	0	0	0	0	0
Meerut	20·2	−0.9	23 9	25,27, 28	7·8	+0·6	4·4	12,14	..	23 0	−8.7	12·0	2	2	−0·5	..	6·0	..	0	2	0	0	0	0	0	0	0	0	0
Bareilly	21·9	+0·3	25·5	19,27	9·6	+1·7	5·0	13	9·4	30·4	+5·3	16·6	1	2	+0·1	4.6	3·2	+0·8	1	4	0	0	2	7	0	0	0	0	0
Aligarh	21·2	−0·4	25·1	25	8.1	+0·8	3·2	13	6·0	13·8	+2·1	6·0	2	3	+1·8	7·1	5·1	−0.2	0	3	0	0	0	0	0	0	0	0	0
Mainpuri	21·3	−1.6	25·7	19,28, 29	8·9	+1·3	5·2	6,7, 13	7·2	45·5	+31·0	20·7	2	3	+1·7	5.0	3·7	+1.4	0	3	0	0	2	0	0	0	0	0	0
Agra	21·2	−1·4	25·4	22,27	8·2	+1·4	3·4	13	25·0	41·8	+28·9	18·7	2	4	+2·8	4·6	3.2	−1·1	0	5	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	21·3	..	25·6	21,22	7·4	..	1.7	14	20·0	27·1	..	13·7	29	2	..	..	..	..	0	5	0	0	4	4	0	0	0	0	0
Orai	20·4	..	23 9	9,17,19	9·4	..	5·0	13	27.0	106·9	..	35·0	29	5	..	6·9	5·5	..	0	7	0	2	0	0	0	0	0	0	0
Jhansi	22·8	−1·7	27·2	23,25	11·8	+3.2	6·5	5,6	8·4	81·8	+68.1	28·2	29	4	+2.8	4.6	3.5	0	0	6	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	19·2	+0·8	23·6	17	7·3	+1·7	2·8	12	33·2	82·3	−9·9	38·8	30	5	−0·2	7.2	6·3	+0.6	0	6	0	1	6	0	0	2	0	2	0
Amritsar (Rajasansi)	20·4	+1·5	24·2	17,21	4.6	−0.1	−0.5	13	25·7	89·4	+52.3	43·4	30	4	+1.1	8.7	7.1	+0.4	0	5	0	1	4	6	0	0	0	0	0
Adampur (Aerodrome) (R)																													
Ludhiana	20·9	+1·5	25·1	17	7·0	+0·5	2·1	13	33·9	70·1	+31·8	60·1	30	3	+0·3	4·5	4·0	+1.9	0	4	0	0	0	0	0	0	0	0	0
Ferozepur	19·8	..	25·3	21	5.5	..	1·3	13	2.6	31·8	..	25·0	29	2	..	4·3	2·3	..	0	3	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	20·2	..	25·6	17	5·5	..	0	13	53.5	64·3	..	61·7	30	1	..	..	..	..	0	3	0	0	6	3	0	0	0	0	0
Chandigarh	21·3	+1.2	26·3	29	7·0	−0.3	2·2	13	48·4	90·4	+34.4	68·4	30	3	−1·6	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Ambala	21·3	+0·7	24·6	19,29	8·0	+1.7	3.9	13	56.4	94·8	+61·3	85.8	30	3	+0·5	6·6	4·7	+0·7	0	3	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	20·7	..	25·6	22	6·6	..	0·8	13	65.6	137·0	..	117·1	30	8	..	..	..	..	0	4	0	0	4	2	0	0	0	0	0
Patiala	20·6	..	25·9	28	7.7	..	4.0	13	24·0	67·4	+29.8	52·0	30	2	−1.0	8·9	8·1	..	1	3	0	0	2	0	0	0	0	0	0
Bhatinda	21·0	..	26·2	21	6·4	..	2·0	14	0	16·0	..	9·0	30	2	..	7·0	5·4	..	0	2	0	0	2	2	0	0	0	0	0
Karnal	20·8	..	24·1	7 days	9.6	..	6·0	13	50 0	113·0	..	52·0	30	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hissar	21·6	0	26.3	17	6.7	+1.5	2.0	12	13.2	54.4	+41.7	46·6	30	2	+0.6	7.6	6.6	+1.3	0	2	0	1	3	5	0	0	0	0	0
New Delhi (Safdarjung)	21.4	+0.3	26·0	25	8·3	+1.0	3.8	13	9.5	12·5	−12.6	6·2	31	2	0	12.9	9·6	+0.6	0	4	0	0	2	8	0	0	0	0	0
Palam (Aerodrome)	21·4	..	26·3	25	6.5	..	0	13	7·5	9.6	..	5.9	31	2	..	..	..	..	1	2	0	0	2	5	0	1	0	0	0
Himachal Pradesh																													
Mandi	17·5	−0·2	23·8	17	4·5	+0·8	0.4	14	42.8	132·0	+50·0	76.0	30	7	+0·8	2·1	2·0	−0·2	0	7	0	0	2	0	0	0	0	0	0
Bilaspur	19·8	..	24·8	17	5.1	..	2·2	9	27.5	102·2	..	57·9	30	4	..	..	..	..	0	5	0	0	3	14	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonemarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	−3.1	−1.7	1.3	1	−13.6	−0.3	−19.4	13	0.8	2.7	−7.0	0.8	18	0	−1.0	3.2	3.3	+1.5	0	6	9	0	0	0	0	0	0	0	0
Srinagar	7.2	+2.2	12.2	21	−1.2	+1.4	−5.1	14	35.2	80.6	+6.9	27.8	29	6	−0.1	5.4	4.6	+1.1	0	11	8	0	0	2	0	15	0	0	0
Srinagar (Aerodrome)	6.5	..	11·2	22	−2·0	..	−5·9	13	57.3	120·9	..	40·1	29	11	..	..	..	..	0	11	8	0	2	0	0	13	0	0	0
Gulmarg	Closed during winter months																												
Jammu†																													
Jammu (Aerodrome)	18·6	..	23·7	17	7·7	..	3·6	12	53·2	132·1	..	42·3	30	5	..	..	..	..	0	6	0	3	7	0	0	0	0	0	0

*Data not reliable. (R) Registered not received. †Temporarily closed.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																														
Sri Ganganagar	21·4	+1·5	27·0	21	6·6	+3.2	2·6	14, 15	0·6	19·3	+7·9	18 9	29	1	−0·3	5·0	3·5	−2·1	1	2	0	0	1	7	0	0	0	0	0
Churu	22·1	..	29.1	26	6.2	..	0.3	13	8·2	0 8	..	0·8	30	0	..	7·5	5.4	..	0	1	0	1	1	4	0	0	0	0	0
Bikaner	22·7	+0.8	29.3	25	6·2	+1·3	0·8	12	21·8	9·6	+2 7	8·4	3	1	+0·2	4·4	2·8	−2·0	0	3	0	0	1	3	0	0	0	0	0
Nagaur	21·8	..	28.2	25	8·0	..	3·3	11	0	3.9	..	2.3	3	0	..	6·5	5.5	..	0	3	0	0	1	2	0	0	0	0	0
Phalodi	22·9	..	30·4	25	7·7	..	2·2	12	4.8	4.8	+1 2	3·4	3	1	+0 5	9.5	7·3	..	0	2	0	0	0	3	0	0	0	0	0
Jaisalmer	24·0	..	30·7	25	6·4	..	−0·1	11	0	0.5	..	0 5	31	0	..	8·7	6·2	..	0	1	0	0	0	2	0	0	0	0	0
Jodhpur	24·9	+0·3	31·8	25	9.1	−0·1	3·4	12	10 2	2·2	−1.6	2·2	31	0	−0·3	8.5	7.8	−3·3	0	1	0	0	0	3	0	0	0	0	0
Barmer	25·4	+0.7	31·0	18	10.9	+0·9	5.3	12	0	0.9	−3·7	0·9	31	0	−0·4	8.7	7·4	−0·2	0	1	0	0	0	0	0	0	0	0	0
Munabao	26·5	..	32·0	22	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																														
Pilani	22.3	..	28·9	26	5·8	..	0·5	12	7·1	7·2	..	6.2	1	1	..	10·4	6·9	..	0	2	0	0	0	4	0	0	0	0	0
Sikar	21·9	..	26·8	18,25	6 3	..	0	13	10·0	14·1	..	8·4	31	2	..	4.1	3·6	..	0	3	0	0	0	0	0	0	0	0	0
Alwar	22·2	..	27·0	2	5·8	..	1·2	14	7·4	14·4	..	7·4	2	2	..	4.2	2·5	..	0	3	0	0	1	1	0	0	0	0	0
Jaipur (Sanganer)	22·3	−0·3	26·8	17,27	8·3	+0·1	1·2	12	15·4	17·1	+5·9	6·6	2	2	+1·0	..	..	..	0	4	0	0	4	1	0	0	0	0	0
Dholpur	21·9	..	29·7	27	8·2	..	3·8	14	23·1	40·7	..	17.0	29	4	..	5·3	3.7	..	0	4	0	0	3	4	0	0	0	0	0
Ajmer	23·3	+0.7	27·4	17	7·3	−0·3	2·4	14	5.0	0	−9·4	0	..	0	−1·0	6·5	4·7	+2·1	0	0	0	0	1	0	0	0	0	0	0
Tonk	23·8	..	29·1	27	..	..	..	..	0·8	4·6	..	4·6	29	1	..	6·2	4 7	..	0	1	0	0	2	1	0	0	0	0	0
Kota	22·0	−3.1	26·6	27	10·4	−0·2	6·6	13	8·7	40·1	+34·0	21·8	30	2	+1·4	..	..	..	0	2	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam)	26.1	..	31 6	18	8·0	..	3·7	14	0	0.8	..	0.8	31	0	..	5·1	3 5	..	0	1	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhota Dam)	24·9	..	30.3	25	9·1	..	4·5	5	2·5	24.4	..	15·6	30	2	..	6·6	4·3	..	0	2	0	0	2	0	0	0	0	0	0
Udaipur	24·1	−0·2	29·1	18	7·1	−1·5	2·9	5	0	0	−5·1	0	..	0	−0·4	3.2	1·6	..	0	0	0	0	1	0	0	0	0	0	0
Jhalawar	25·3	−0.2	30·0	25,27	10 0	+1·2	5·6	5	13.6	51·0	+43·9	46·0	29	2	+1·3	5·9	4·0	+0·8	0	2	0	0	4	0	0	0	0	0	0
Madhya Pradesh West)																														
Gwalior	22·0	−0·9	27·3	22,27	7·9	+0·1	2·4	14	20.2	78.3	+59·5	31·5	29	5	+3·5	6 6	4 0	..	0	5	0	0	4	4	0	0	0	0	0
Sheopur	24·4	−0·1	29·9	26	7·2	−0.6	2·3	13, 14	10·6	30·2	+14·9	27·8	29	1	−0·9	6·5	5·3	−0·1	0	2	0	0	1	0	0	0	0	0	0
Shivpuri	22·8	..	29·0	27	7·2	..	2·7	5,7	21·2	44·8	..	19·8	29	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Nowgong	23·3	−0·5	28·9	28	7.6	−0·5	3.2	13	20·2	71·6	+56·6	20.6	28	5	+3·5	5·7	3·4	+1·6	0	5	0	0	3	1	0	0	0	0	0
Guna	24·1	−1·0	30·1	26,27	7·7	+0·1	2·3	5	30·0	54·0	+47·4	22.4	30	4	+2·8	8·2	5·2	..	0	4	0	1	3	5	0	0	0	0	0
Neemuch	25·0	−0·1	30·0	25	10.0	+0·8	5·5	12	0·8	0.8	−4·3	0.8	29	0	−0.4	7.0	5.7	−0·7	0	1	0	0	1	0	0	0	0	0	0
Rajgarh	26·2	..	32·2	26	9·5	..	4·1	5	0·7	13·5	..	8·1	29	2	..	6·5	5·2	..	0	4	0	0	1	1	0	0	0	0	0
Sagar	23·5	−1·7	30·0	27	11·1	−0·3	6·8	13	6·0	43·0	+28·5	22·0	30	3	+1·7	7·5	7·7	..	0	6	0	1	5	4	0	0	0	0	0
Ratlam	27·4	+0·9	33·0	25	11·1	0	7·3	12	1·2	1·2	−6·8	1·2	30	0	−0·7	8·8	6·0	−2·0	0	1	0	0	1	0	0	0	0	0	0
Bhopal (Bairagarh)	25·7	−0.6	30·7	27	10·9	+1·0	5·4	5	1·0	45·2	+39·1	17·0	30	4	+3·2	..	..	..	0	5	0	0	5	4	0	0	0	0	0
Ujjain	27·0	..	32·2	25	9·7	..	4·0	3	..	5·2	..	5·2	29	1	..	..	7·4	..	0	1	0	0	0	4	0	0	0	0	0
Hoshangabad	27·2	+0·3	32·5	27	12·3	0	6·7	5	0·8	12·8	+2·6	10.4	30	1	+0·1	6·7	6·3	+2·9	0	4	0	0	3	0	0	0	0	0	0
Indore	27·2	+0·8	31·4	27	9·8	+0.1	4·2	4	0	3.0	−3·1	2.5	29	1	+0·5	11·7	9·1	..	0	2	0	0	1	0	0	0	0	0	0
Raipur	28·7	..	32 8	25	11·2	..	5·4	3	0	0·1	..	0·1	29	0	..	6·6	3.3	..	1	0	0	0	0	0	0	0	0	0	0
Chhindwara	27·5	+1·4	29·8	16	11·5	+0·9	4·5	5	2.0	4·9	−16·2	2.7	31	1	−0.6	5·0	2·8	−1.7	0	2	0	0	1	0	0	0	0	0	0
Seoni	26·8	+0 8	29·8	1	12·3	+1·2	7·1	5	0	33.2	+19·2	20.0	31	3	+1·8	6·8	4·2	+0·5	0	4	0	0	2	2	0	0	0	0	0
Betul	28·2	+1·7	31·3	26	12·0	+0·9	3·3	5	0	1·2	−6·1	0·8	30	0	−0·9	6·4	4·6	−0·1	0	2	0	0	0	0	0	0	0	0	0
Khandwa	30·6	+1·3	34·2	26	12·8	+1·4	6·1	5	0	1.0	−6·9	1·0	27	0	−0·6	7·8	5·7	+1·4	0	1	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																														
Sutna	24·2	+0·3	29·4	1	9·1	+0·2	4·9	15	7.0	22·2	+1·1	8.8	2	3	+1·2	5·6	4·1	+0·7	0	4	0	0	3	3	0	0	0	0	0
Sidhi	24·5	..	30·8	1	9·5	..	5·0	15, 16	0	80·7	..	47·3	3	4	..	4·5	2·3	..	0	4	0	0	2	0	0	0	0	0	0
Umaria	25·4	+0·4	30·4	1	9·1	+1·0	4·0	6	0	36·5	+10·8	12·2	30	5	+2·9	4·7	2·8	−0·6	0	5	0	0	1	3	0	0	0	0	0
Jabalpur	26·5	+1·3	31·7	27	10·5	+1·7	5·5	5	7.3	77·7	+56·9	35·4	27	4	+2·3	4·9	3·0	+0·7	0	5	0	0	5	1	0	0	0	0	0
Ambikapur	24·5	+0·6	29·0	1	9·0	+0·4	3·8	8	33·3	8·0	−13·9	5·2	31	2	−0·2	8·2	6·4	+0·1	0	2	0	0	0	1	0	0	0	0	0
Pendra	24·5	+0·8	27·0	26,27	11·2	+0·9	6·0	7	3.2	3.2	−18·4	3·2	4	1	−0·7	9·0	6·0	..	0	1	0	0	2	1	0	0	0	0	0
Mandla	26·4	+0·4	30·0	27	10·0	+1·2	4·5	5	6.2	21.0	−7·7	11.8	31	2	−0·7	2·5	2·4	+0·4	0	3	0	0	2	4	0	0	0	0	0
Champa	27·6	+0·1	29·8	14	13·8	+0.1	9·9	6,7	0	11·2	−12.0	11·2	31	1	−0·5	3·6	3·4	−1·5	0	1	0	0	1	0	0	0	0	0	0
Raigarh	28·2	−0·2	30·8	13	14·1	+0·5	9·5	7	0·8	0·8	−17·6	0.8	4	0	−1·3	4·0	3·1	−0·9	0	1	0	0	0	0	0	0	0	0	0
Raipur	28·1	+0·5	30·6	14	13·8	+0·6	9·3	5	0	0·3	−9·1	0.3	31	0	−0·8	5·5	3·9	−0·6	0	1	0	0	1	2	0	0	0	0	0
Kanker	28·7	+0.6	30·6	12,27	15·7	+4·4	11·5	8	0	0	−5·1	0	..	0	−0·5	3·2	1·9	−1.0	0	0	0	0	9	0	0	0	0	0	0
Jagdalpur	28·8	+0·9	30·7	13	13·2	+1·7	10 0	8	0	0·4	−9·5	0.4	1	0	−0·7	5·6	3·3	..	0	1	0	0	0	1	0	0	0	0	0
Gujarat Region																														
Deesa	27·8	..	33.8	18	9·9	..	6·9	7	0	0	..	0	..	0	..	10.8	9·1	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	27.7	..	33·6	18	10·8	..	6·6	12	0	0.3	..	0·3	31	0	..	7·8	6·8	..	0	1	0	0	0	0	0	0	0	0	0
Idar	28·2	..	33·0	18,25	15·5	..	8·5	2	0	0	..	0	..	0	..	8·2	8·2	..	0	0	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat Region (*Contd.*)																													
Ahmedabad	28·9	−0·2	33·8	25	11·8	+0·2	7·4	12	0	0	−0·5	0	..	0	−0·1	10·7	6.3	+2·3	0	0	0	0	1	0	0	0	0	0	0
Dohad	28·3	+0·2	32·5	25	12·3	+0·5	7·5	4	0	0	−3·0	0	..	0	−0·4	9 5	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Baroda (Aerodrome)	30·3	..	35·5	25	12.7	..	5·8	3	0	0	..	0	..	0	..	9·3	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	31·2	+1·0	36·6	25	12·4	+1·5	5·8	3	0	0	−1·5	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Broach	32·3	+0·9	36·9	25	12·9	+0·1	7·6	4	0	0	−1·1	0	..	0	−0·1	7·0	5·6	−0·3	0	0	0	0	0	0	0	0	0	0	0
Surat	32·0	+1·6	37·0	17	14·3	0	10 8	4	0	0	−2·8	0	..	0	−0·2	(b) 8·7	(d) 7·9	+3·4	0	0	0	0	0	1	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar	27 2	..	33·6	18	14·0	..	8 9	12	0	0	..	0	..	0	..	20·5	18·5	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	27·5	..	32·8	18	8·7	..	3·0	4	0	5·5	..	5 5	31	1	..	16·1	11·4	..	0	1	0	0	0	2	0	0	0	0	0
Bhuj (Rudramata)	26·8	+0·5	31·4	18	9·9	−0·8	5·3	5,6	0	0·5	−1·5	0·5	31	0	.. 0 2	14·3	9·5	+0 5	0	1	0	0	0	0	0	0	0	0	0
New Kandla	25·6	..	29·7	18	14·2	..	10·5	11	0	0	..	0	..	0	..	13 5	13·2	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	25·8	+0.2	30·7	17	13·7	−0·5	9·7	4	0	0	−1·4	0	..	0	−0·3	16·6	14·6	−0·7	0	0	0	0	0	0	0	0	1	0	0
Surendranagar	28·7	+0·5	33·4	18	13·0	+0·1	7·9	12	0	0	−0.4	0	..	0	0	10·3	9·3	−0·2	0	0	0	0	0	0	0	0	0	0	0
Jamnagar	26·4	−0·5	32·1	18	11·0	+0·8	7·2	6	0	0	−1·3	0	..	0	−0·1	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Dwarka	26 5	+1·0	32·3	18	15.5	+0·2	12·2	7	0	0.3	−2 2	0·3	31	0	−0·3	18·5	15·1	+1·9	0	1	0	0	0	0	0	0	0	0	0
Rajkot	28·4	+0·1	33·4	18	10·9	−0·2	5·7	12	4·3	0	−1·1	0	..	0	−0·1	19·7	14·0	..	0	0	0	0	0	3	0	0	0	0	0
Bhavnagar (Aerodrome)	27·6	..	30·8	26	13·5	..	8·6	3	0	0	..	0	..	0	..	17.6	14.6	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	29 5	+0·6	33·5	25	12·2	0	7·9	4	0	0	−2·3	0	..	0	−0·1	10·4	7·4	+1·6	0	0	0	0	0	0	0	0	0	0	0
Porbandar (Aerodrome)	29·7	..	35·0	18	14·3	..	10·5	6	3·4	7 2	..	7·2	31	1	..	18·3	15·1	..	0	1	0	0	0	0	0	0	0	0	0
Porbandar	28·9	+0·4	35·0	18	15·2	−0·1	11·9	12	9·4	4·4	+2·0	4·4	31	1	−0·3	15·3	10·4	+0 6	0	1	0	0	0	0	0	0	0	0	0
Keshod	30.6	..	35·6	18	12·2	..	7·6	4	1·2	0	..	0	..	0	..	17·9	14·9	..	0	0	0	0	0	1	0	0	1	0	0
Mahuva	30·5	..	34·3	19	15·5	..	11·2	30	0	0	..	0	..	0	..	11·2	8.5	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	29·9	..	36·0	18	14·8	..	10·9	4	0	0	−1·0	0	..	0	−0·1	(c) 17·6	(b) 14·4	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	27·2	−0·3	31·4	25	17.0	+0·4	..	..	0	0	−1·8	0	..	0	−0·2	16.5	12·3	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	31·3	+2.3	36·2	17	17·2	+1.9	12·4	2	0	0	−0·3	0	..	0	0	11.6	8·4	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	30.7	+2·3	35·0	17	20·0	+0·7	17·1	3	0	0	−3·6	0		0	−0·2	8.2	6·7	−3·9	0	0	0	0	0	0	0	0	0	0	0
Alibag	29·1	+1·0	32·0	7	18·5	+1·0	14.7	2	..	0	−1·3	0	..	0	−0·2	..	7.9	+0·5	0	0	0	0	0	0	0	0	0	0	0
Harnai	28·9	+1·1	33 0	17	22·7	+0·9	18·9	2	0	0	−1·4	0	..	0	−0·2	9.0	8·7	−4·4	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31·8	..	35 7	17	19·7	.	14·7	2	0	0	−2·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad	30·5	+0·4	33 4	7	21·4	+0·4	18·5	3	0	0	−1·9	0	..	0	−0·2	12·9	11·1	−1·8	0	0	0	0	0	0	0	0	0	0	0
Vengurla	32·4	+0·3	35·4	17	18·4	−0·2	15·9	3	0	0	−0 1	0	..	0	0	8.3	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	31·3	..	34·4	15,26	16·8	..	12·6	2	0	0	..	0	..	0	..	8·0	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	31·8	+1·3	34 3	26,27	13·5	+0·9	9·1	4	0	7·4	−0·5	7·4	27	1	+0·4	10.4	9·3	+1·7	0	1	0	0	1	0	0	0	0	0	0
Malegaon	31·3	+1·2	33·6	25	12·4	+1·1	6·7	4	0	0	−4·3	0	..	0	−0·3	7·1	5·6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	30·6	..	32·9	24,27	12·3	..	6 6	2	0	0	..	0	..	0	..	8.2	5 1	..	0	0	0	0	0	0	0	0	0	0	0
Ahmednagar	30·9	+1·7	32·6	26	13·1	+1·3	10·2	2	0	0	−5·3	0	..	0	−0·4	5.4	3·0	−3·0	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	−2·5	0	..	0	−0·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	30·3	..	32·2	16,26	14·3	..	9·8	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Poona	31·3	+1·0	32·9	15,26	13·0	+1·3	9 0	4	0	0	−1·5	0	..	0	−0·2	4·0	2·1	−3·9	0	0	0	0	0	0	0	0	0	0	0
Jeur	30·7	+0·1	32·2	8	12·9	−0·5	10·2	3	0	0	−0·1	0	..	0	0	9·8	5·5	−0·4	0	0	0	0	0	0	0	0	0	0	0
Baramati	29 8	−0·8	32 0	15	14·1	+0·1	10·9	4	0	0	0	0	..	0	0	8·1	6·0	+0 7	0	0	0	0	0	0	0	0	0	0	0
Sholapur	31·1	+0·3	32.4	17	16·4	+1·2	13.3	2	0	0	−3·8	0	..	0	−0·3	11·5	9·2	0	0	0	0	0	0	0	0	0	0	0	0
Miraj	30·8	+0·7	31·8	7	14·9	+0·7	11·3	2,3	0	0	−0·3	0	.	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	30 6	+0.2	31 8	8,15,17	14·8	+0·1	12·0	3	0	0	−2·5	0	..	0	−0·4	13·2	8·6	−0·1	0	0	0	0	0	3	0	0	0	0	0
Marathwada																													
Aurangabad	30·6	+1·3	32·6	24	15·5	+1·8	10·6	5,11	0	0	−7·4	0	..	0	−0·5	7·9	6·7	−0·7	0	0	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana)	29·8	..	31·6	15	11 2	..	6.7	5	0	0	..	0	..	0	..	8·9	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Parbhani	30·8	+0·7	32·3	17	13·8	+0·2	9·6	5	0	0	−6·9	0	..	0	−0·6	7·5	5·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Nanded	31·6	..	33 0	16,17, 20	..	..	..	..	0	0		0	..	0	..	6·2	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Bhir	30·7	..	32·9	26	14.6	..	8·5	4	0	0	..	0	..	0	..	(b) 7·7	(c) 4·5	..	0	0	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha—																														
Gondia	28·9	+1·4	32·0	27	14·2	+0·6	8·4	5	4·6	1·4	−19·7	1·4	31	0	−1·5	2·3	1·3	−1·8	0	1	0	0	1	0	0	0	0	0	0
Nagpur (Sonegaon)	30·2	+1·6	32·4	26	13·6	+0·8	7·2	5	0·8	4·4	−5·0	3·6	30	1	+2·0	7·7	6·6	..	0	2	0	0	1	0	0	0	0	0	0
Amraoati	30·9	+1·6	32·5	26,27	15·9	+0·8	10·8	5	0	1·2	−8·2	1·2	30	0	−0·8	8·5	8·9	+3·1	0	1	0	0	0	0	0	0	0	0	0
Akola (Aerodrome)	31·5	+1·4	33·7	26	14·9	+2·2	8·7	4	0	0	−8·9	0	..	0	−0·7	5·6	4·2	−0·1	0	0	0	0	0	0	0	0	0	0	0
Brahmpuri	29·8	..	31·6	27	14·9	..	9·7	5,	0	0·4	..	0·4	31	0	..	1·6	1·4	..	0	1	0	0	0	0	0	0	0	0	0
Buldhana	28·5	+1·0	30·8	27	15·7	+0·2	11·4	4	0	0	−7·7	0	..	0	−0·5	9·5	7·2	−1·0	0	0	0	0	0	0	0	0	0	0	0
Yeotmal	30·3	+1·6	32·3	11	16·2	+0·6	10·2	5	0	0·6	−10·3	0·6	30	0	−0·7	9·7	9·0	0	0	1	0	0	0	0	0	0	0	0	0
Chanda	30·9	+1·3	32·4	12	15·4	+2·4	9·6	5	0	0	−7·9	0	..	0	−0·5	6·6	4·2	+1·6	0	0	0	0	0	0	0	0	0	0	0
Pusad	32·0	..	30·0	22,27	13·4	..	9.1	5	0	0	..	0	..	0	..	7·4	4·9	..	0	0	0	0	0	0	0	0	0	0	0
Sironcha	31·1	+0·8	33·0	25	16·4	+0·9	13·2	7	0	0	−1·7	0	..	0	−0·4	5·0	3·0	−0·7	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Kalingapatam	26·2	−1·5	29·4	31	18·4	+0·9	15·3	8	0	0	−5·6	0	..	0	−0·6	12·2	8·0	+0·3	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	28·7	−0·6	30·4	14	18 8	+0.9	16·0	8	2·0	9·1	−1·8	5·3	2	2	+1·5	16·6	8·3	+3·6	0	2	0	0	0	0	0	0	0	0	0
Kakinada	27·7	−0·4	29·5	8, 28	19·9	+0·8	17·1	10	0	4·6	−2·5	3·2	1	1	+0·5	17·1	14·2	+5·3	0	2	0	0	0	0	0	0	0	0	0
Nidadavole	29·8	..	32·5	5	18·2	..	15.8	8	0	0	..	0	..	0	..	10·5	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	31·4	+0·7	33·7	31	18·8	+2.3	15·5	9	0	0	−0·3	0	..	0	0	7·8	(a) 5·3	0	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	29·8	−0·3	32·7	5	19 8	+0·7	17·3	9,10	0	1·2	+0·4	1·2	1	0	−0·1	15·6	10·6	+0·8	0	1	0	0	0	0	0	0	0	0	0
Nagarjuna Konda	31·9	..	34·1	31	20·1	..	16·8	10	0	2·6	..	2·6	6	1	..	13·5	11·7	..	0	1	0	0	0	0	0	0	0	0	0
Masulipatam	28·6	+0·3	31·0	5	20·6	+1·7	18·0	23, 24	0	0	−5·1	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ongole	29·6	..	31·3	4	20 9	..	19·1	24	0	1·0	..	1·0	28	0	..	8·6	5·7	..	0	1	0	0	0	0	0	0	0	0	0
Nellore	29·2	−0·4	31·6	31	21·0	+1·3	18·6	26	3·1	29·7	−3·6	26·6	1	2	+0·6	10·0	6·1	+1·6	0	2	0	0	0	0	0	0	0	0	0
Telangana																														
Ramgundam	32·0	+1·1	33·5	12, 14, 25	18 0	+2·0	14·1	7,20	0	0	−2·0	0	..	0	−0·3	6·9	3·7	−1·2	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	30·6	+0·5	31·9	12, 24 30	16·2	+2·0	13·6	17	0	0	−5·1	0	..	0	−0·4	6·2	4·7	+1·3	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	30·8	+1·4	33·0	24	18·5	+1·9	16·3	5	0	0	−10·2	0	..	0	−0·7	6·2	4·4	−1·4	0	0	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome).	27·5	..	29·9	8	16·6	..	14·4	21	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	7	0	0	0	0	0
Bhadrachalam	30 9	0	32·8	3	18·3	+1·6	15·4	10	0	33·0	+30·4	32·0	4	1	+0·6	6·0	4·6	−0·5	0	2	0	0	0	0	0	0	0	0	0
Hyderabad (Begum Pet)	28·4	+0·1	30·2	31	15·6	+0·9	12·3	10, 20	0	0·4	−7·5	0·4	31	0	−0·5	12·4	8·0	+0·8	0	1	0	0	0	3	0	0	0	0	0
Khammam	31·0	..	32·7	3, 4	18·8	..	15·7	10	0	0	..	0	..	0	..	5·4	3·5	..	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·2	..	31·4	4	16·8	..	14·1	20	0	0	..	0	..	0	..	13·3	10·0	..	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																														
Kurnool	31·7	+0·4	33 4	4	18·6	+2·2	16·2	24	0	0	−3·8	0	..	0	−0·3	8·9	6·8	+2·1	0	0	0	0	0	0	0	0	0	0	0
Anantapur	29·8	−0·5	32·7	4	18·3	+1·0	14·5	16	0	0	−3·9	0	..	0	−0·2	13·5	11·7	+1·6	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	..	..	..	..	18·9	+0·2	15·6	27	0	0	−9·9	0	..	0	−0·6	8·6	7·5	−3·1	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	26·2	..	29·2	31	16·3	..	12·5	27	10·8	10·8	..	10·8	12	1	..	8·7	6·0	..	0	1	0	0	0	0	0	0	0	0	0
Madras State																														
Madras	28·4	..	30·5	2	21·4	..	18·0	26	..	70.4	..	43·1	11	2	..	..	7·1	..	0	3	0	0	0	0	0	0	0	0	0
Madras (Minambakkam).	28·7	−0·9	31·0	3	21·4	+1·9	18·7	26	17·5	29·6	−6·2	16·0	11	2	+0·3	(k) 15·8	(j) 8·7	−1·0	0	3	0	0	0	2	0	0	0	0	0
Vellore	29·1	+0·3	31 9	4, 31	19·3	+1·4	15·5	26, 27	0	2·6	−34·2	2·6	11	1	−1·1	(c) 9·6	(c) 7·3	+3·4	0	1	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	29·5	..	32·3	3	21 2	..	18·6	26	13·7	24·7	..	15·6	11	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Tirupattu	29·3	..	32·0	4	18·6	..	13·3	26	0	8·4	..	8·4	11	1	..	6·5	5·0	..	0	1	0	0	0	0	0	0	0	0	0
Cuddalore	28·2	0	30·4	3	21·7	+1·2	18·9	27	68·5	219·4	+159·7	131·4	11	7	+4·6	14·0	10·7	+3·5	1	7	0	0	0	0	0	0	0	0	0
Kallakurichilli	29·0	..	33·0	1, 3	21·2	..	18·4	27	40·6	142·8	..	66·6	11	6	..	11·2	8·4	..	0	6	0	0	0	0	0	0	0	0	0
Salem	30·3	−0·9	33·7	1	20·5	+2·2	17·5	27	1·6	47·2	+39·8	24·8	11	5	+4·3	11·0	10·6	+4·3	0	6	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	28·7	..	31·7	4	19·0	..	15·0	26	27·4	38·8	..	21·3	6	3	..	14·5	10·7	..	0	4	0	0	0	0	0	0	0	0	0
Coimbatore	29·0	−1·0	32·6	4	19·9	+1·6	17·2	25	40·8	54·2	+38·2	37·5	6	3	+1·9	8·7	6·0	+1·8	1	3	0	0	0	0	0	0	0	0	0
Nagapattinam	28·1	+0·2	29·9	3	23·6	+1·5	20·7	27	89·8	232·3	+163·0	57·0	5	7	+4·0	19·6	19·6	+6·9	0	12	0	0	0	1	0	0	0	0	0
Tiruchirapalli	29·6	−0·9	32·6	2,	21·5	+1·4	19·0	29	50·5	61·3	+36·2	36·1	11	4	+2·3	14·1	11·8	+3·1	0	9	0	0	0	0	0	0	0	0	0
Vedaranniyam	28·5	..	30·6	3	22·8	..	21·0	30	59·0	178·2	..	65·0	16	7	..	11·5	10·1	..	0	9	0	0	0	0	0	0	0	0	0
Atiramapattinam.	29·3	..	31·4	31	21·6	..	19·2	27	73·8	173·0	..	83·2	16	5	..	13·1	9·9	..	0	8	0	0	0	0	0	0	0	0	0
Madurai	30·4	+0·5	33·4	3	21·9	+1·7	19·7	18	14·8	35·9	+16·1	12·3	11	3	+1·5	9·7	7·1	−0·1	0	6	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	29·5	..	32·2	2	21·1	..	18·9	18	30·6	50·4	..	15·2	16	4	..	15·4	10·9	..	1	5	0	0	0	0	0	0	0	0	0
Tondi	28·9	..	30·7	1	22·3	..	20·6	10	61·2	199·0	..	81·0	11	7	..	17·4	14·3	..	0	7	0	0	0	0	0	0	0	0	0
Pamban	28 7	+0·6	31·2	30	23·9	+0·3	22·0	15, 18	130·6	201·6	+136·3	55·8	16	7	+3·0	11·8	18·0	+2·2	0	10	0	0	0	0	0	0	0	0	0
Tuticorin	27·8	+0·2	30·2	8	22·1	−0·2	20·2	18	41·5	155·8	+39·3	90·0	11	6	+4·3	19·7	18·8	−3·5	0	7	0	0	0	0	0	0	0	0	0

(c) Mean of 28 days. (a) Mean of 30 days. (k) Mean of 20 days. (j) Mean of 21 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madras State— *Contd.*																													
Palayankottai	30·0	−0.7	33·6	2	22·2	−0·1	20·2	18	21·2	159·9	+117·2	125·6	11	6	+3·4	11·5	8·3	−0·9	2	6	0	0	0	0	0	0	0	0	0
Kanniyakumari	29·9	..	31·6	1,2,9	23·4	..	22·4	2	21·6	114·3	..	53·7	11	4	..	24·6	21·4	..	0	4	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·3	+1·8	35·8	15	19·4	+0·5	16 6		0	0	−0·9	0	..	0	−0·1	11·0	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	33·2	+1·4	36·5	17	20·4	+0·5	17·6	9	0	0	−4·1	0	..	0	−0·1	10 0	8·6	+3·8	0	0	0	0	0	0	0	0	0	0	
Mangalore (Bacjp)	32·6	..	35·4	17	21·4	..	18·7	26,27	0	0	..	0	..	0	..	12·2	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	32·5	+0.8	36·3	17	22·1	+0·7	19·9	25,26	0	0	−2·8	0		0	−0·2	12·8	9·1	+1·4	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	28·6	−0·2	30·2	1	16·7	0	15·3	4,10,27	0	0	−5·6	0	.	0	−0·5	14·6	11·4	+1·1	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	30 9	+0·2	32·0	13,17	16·6	+0·1	14·4	20	0	0	−5·3	0	..	0	−0·3	11·9	10·6	+3·0	0	0	0	0	0	0	0	0	0	0	0
Bijapur	30·0	−0·1	31·2	1	17·2	+1·5	14·8	26	0	0	−4·6	0	..	0	−0·2	8·0	6·0	+1·5	0	0	0	0	0	0	0	0	0	0	0
Raichur	30·3	−0·1	32·5	31	19.4	+1·2	16·1	17	0	0	−3·3	0	..	0	−0·2	13.7	11·3	+2·6	0	0	0	0	0	0	0	0	0	0	0
Pelgaum	29·9	−0·2	31·7	6	15·5	+1·7	12·6	2	0	0	−3·1	0	..	0	−0·2	11·7	7·6	+1·8	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	29·3	..	30·4	6,12	16·0	..	12.3	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	4	0	0	0	0	0
Gadag	30·8	+1·2	32·1	4	17·1	+0·7	14·7	10	0	0	−4·3	0	..	0	−0·2	12·2	8·8	+1.4	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	30·2	−0·8	32·4	4	18·3	+1·5	14·9	24	0	0	−2·5	0	..	0	−0·3	10·2	6·5	+2·2	0	0	0	0	0	0	0	0	0	0	0
Chitradrug	28·6	−0·7	31·7	30	17·9	+0·9	15·0	15	0	0	−6·3	0	..	0	−0·3	13·0	9·4	+2·0	0	0	0	0	0	0	0	0	0	0	0
Shimoga	29·8	−0·7	31·4	30	14·4	−0·2	10·0	27	0	0	−0·1	0	..	0	0	8·8	5·3	+1·2	0	0	0	0	0	0	0	0	0	0	0
Balehonnur	27·3	+0·1	28·9	16	15·1	−0·4	12·8	4 days	..	0	−1·3	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	27.8	−0·4	30·7	30	..	..	..	..	0	0	−4·3	0	..	0	−0·3	8·5	6·2	+1·2	0	0	0	0	0	0	0	0	0	0	0
Bangalore	26.2	−0·6	29·7	31	15·9	+1·8	12·2	25	4·2	4·6	−1·5	3·5	3	1	+0·5	13·4	10·4	+2·2	0	3	0	0	0	3	0	0	0	0	0
Bangalore (Aerodrome).	27.1	..	30·0	31	15·6	..	11·9	26	2·6	3·2	..	1 0	12	0	..	..	..	..	0	4	0	0	0	4	0	0	0	0	0
Mysore	28·4	−0·6	30·8	2,3	16·5	+0·5	14·5	1	0	9·0	+5·4	6·2	5	1	+0·7	8·3	6·3	−3·2	0	3	0	0	0	3	0	0	0	0	0
Kerala																													
Calicut	31·5	+0·4	33·0	7,13	22·8	+1·2	19·9	26	0	0	−8·9	0	..	0	−0·6	13 3	10·3	+1·9	0	0	0	0	0	0	0	0	0	0	0
Palghat	32·5	..	34·9	5	22·3	..	20·4	18	0	0·7	..	0·7	6	0	..	13 9	11 2	..	0	1	0	0	0	0	0	0	0	0	0
Fort Cochin	30·6	+0·1	32·2	24	24·4	+1·3	22·6	26	0·2	0·2	−22·4	0 2	11	0	−1·1	11·3	10.0	+3·4	1	0	0	0	0	0	0	0	0	0	0
Cochin (Naval Air Station).	31.7	..	33·2	13,24	22·8	..	20·2	24	0	0·3	..	0·3	11	0	..	12 3	8.6	..	0	1	0	0	0	0	0	0	0	0	0
Alleppey	32.2	+0·4	34·4	13,24	23·0	+0·5	20·0	24	2 6	16 2	+1·1	7·6	11	2	+0·6	13·5	9·2	+0·6	0	4	0	0	0	0	0	0	0	0	0
Punalur	33·0	..	35·6	31	20·8	..	17·8	26	28·2	28·2	..	28·2	11	1	..	6·3	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Trivandrum	31·2	−0·1	33·5	25	22·4	+0·2	20·8	26	2·2	50.8	+30·7	44·2	11	2	+0·3	7·2	5·5	+1·0	0	6	0	0	1	0	0	0	0	0	0
Trivandrum (Aerodrome)	30.6	..	31·6	16	21·9	..	20·2	22	..	62·9	..	60·8	11	1	..	..	5·7	..	0	4	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousei	11·3	+0·4	19·2	16	3·1	+1·0	−0·1	30	91·0	188·0	−14·3	53·0	30	10	+2·2	3·7	3·5	−0·1	0	11	3	0	1	0	0	0	0	0	0
Dharamsala	14· 6	+0·2	21·2	17	7·0	+0·5	3·4	12	65·9	152·9	+9·7	75·8	30	9	+1·3	6·0	4·9	+0·1	0	9	0	0	4	0	0	0	0	0	0
Simla	8·9	+0·3	15·9	15	2·1	+0·2	−2·1	3	31·3	73·5	+7·2	32·4	30	4	−0·8	5.0	4.2	+1·7	0	7	6	0	1	0	0	0	0	0	0
Dharampur	..	..	..	..	..	..	..	..	..	191·5	+121·1	105·2	30	5	+1·0	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Lokpal	20·1	..	25·3	24	11·8	..	10·6	11	..	306·0	..	50·0	30	13	..	..	..	..	0	14	14	2	0	0	0	23	0	0	0
Badrinath	Closed during winter months																												
Joshimath	11·6	..	18·2	17	2·3	..	−1·0	13	44·4	128·3	..	57·0	31	8	..	5·3	6·7	..	0	11	2	0	0	0	0	0	0	0	0
Mussoorie	10·5	+0·8	17·3	17	2·8	+0·1	−2·1	3	26·8	77·8	+9.0	28·2	30	5	0	9·5	7·7	+0·6	0	5	2	2	3	3	0	0	0	0	0
Mukteswar (Kumaon).	10·4	+0·5	16·6	17	2·4	+0·5	−2·7	4	36·6	117·1	+62·2	35·4	1	6	+2·4	10.4	12·1	+3·1	1	7	7	1	3	1	0	0	0	0	0
Nainital	10·9	+0.6	16·7	16	2·2	+0·6	−1·7	12	52·0	147·0	+29.5	45·0	31	6	−0·5	9·0	8·0	+0·9	0	7	2	0	0	0	0	0	0	0	0
Walong (R).																													
Kalimpong	19·1	+3·9	26·2	16	9·2	+1·3	3·9	6	0	0	−10·4	0	..	0	−0·9	5·6	3.9	−6·9	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	11·6	+2·4	14·2	17	4·1	+1·2	1·7	22	1·8	13.0	−0·5	10·6	20	1	−0·2	0.1	0·3	−0·8	0	3	0	1	1	8	0	0	0	0	0
Kohima	16·2	..	18·4	18	10·6	..	8·8	5,9,15	6·2	18.6	..	12·4	4	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Shillong	16·6	+1·0	18·4	5	3.8	0	0·6	7	0	0·3	−12·9	0·3	4	0	..	3·0	2·1	−0·3	0	1	0	0	0	0	0	0	0	0	0

*Data given as addenda in December 1961 issue. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1014·6	1011·4	..	26·8	23·3	21·1	26·0	74	..	3·6	..	8·0	0	1	22	0	20	3	0	0	0	0	0	8	0
	1730	,,	1012·0	1008·9	..	26·5	22·8	20·9	25·0	72	..	3.9	..	11·1	0	2	28	0	25	5	0	0	0	0	0	1	0
Long Island	0830	25	1014·4	1011·7	..	26·9	23·2	21·3	25·4	72	..	4·8	..	1·5	0	0	8	0	1	0	1	0	2	0	0	23	4
	1730	,,	1011·7	1008·9	..	26·5	23·0	21·1	25·4	73	..	5·3	..	0·3	0	0	2	0	0	0	0	0	0	1	0	29	0
Port Blair	0530	79	1012·5	1003·5	..	24·2	22·3	21·3	25.6	81	..	4·3	..	9 5	0	1	22	0	10	12	0	0	0	0	1	8	0
	0830	,,	1014·4	1005·5	+0·7	27·8	24·1	22·3	26·9	73	+2	4·7	−1·3	12·1	0	2	27	1	16	12	0	0	0	0	0	2	0
	1130	,,	1012·9	1004·1	..	28·7	24·6	22·7	26·7	70	..	4·8	.	13.3	0	1	29	0	14	16	0	0	0	0	0	1	0
	1730	,,	1011·8	1002·9	..	25·7	23·0	21·7	25·9	79	..	5·3	..	11·8	0	2	26	0	14	14	0	0	0	0	0	3	0
	2330	,,	1013·2	1004·3	..	24·8	22·6	21·4	25 5	82	..	4·1	..	4·2	0	2	24	0	15	11	0	0	0	0	0	5	0
Car Nicobar	0830	10	1013·4	1012·2	..	28·0	24·4	22·8	27·7	74	..	4·9	..	6·7	0	0	31	0	19	9	3	0	0	0	0	0	0
	1730	,,	1010·7	1009·5	..	26·5	23·9	22·5	27·5	80	..	4 7	..	4·6	0	0	28	0	16	10	2	0	0	0	0	3	0
Nancowry	0830	26	1013·2	1010·3	..	28·2	25·4	24·0	30·3	79	..	5·0	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1010·6	1007·7	..	26·8	24·5	23·4	28·8	82	..	3·7	..	0·3	0	0	2	0	0	0	2	0	0	0	0	29	0
Kondul	0830	8	1013·0	1012·0	..	27·4	24·8	23·6	29·3	80	..	4·8	..	9·5	0	0	27	0	25	2	0	0	0	0	0	4	0
	1730	,,	1010·3	1009·3	..	27·8	25·3	23·5	30·2	81	..	4·6	..	10·3	0	0	27	0	25	1	1	0	0	0	0	4	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1019·6	1000·6	..	16·6	13·3	10·8	13·0	67	..	3·2	..	21·2	0	18	10	1	0	0	0	0	1	0	26	3	0
	1730	,,	1015·0	996·7	..	17·5	14·6	12·3	14·3	72	..	3·3	..	7·9	0	3	19	2	0	0	0	1	0	0	19	9	0
Dibrugarh (Mohanbari)	0230	111	1016·4	1003·1	..	10·9	10·6	10·2	12·8	95	..	2·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	,,	1017·0	1003·8	..	10·2	9·9	9·6	11·8	96	..	3·0	..	0·9	0	0	4	0	2	2	0	0	0	0	0	27	0
	0830	,,	1019·2	1006·1	+5.0	16·3	14 4	12·9	14·6	82	−10	3·3	−0·8	4·7	0	0	23	1	12	8	1	1	0	0	0	8	0
	1130	,,	1016·8	1003·9	..	21·5	16·2	12·0	13·8	57	..	3·4	..	6·7	0	0	29	6	11	9	1	0	0	1	1	2	0
	1730	,,	1015·0	1002·0	..	17·3	15·2	13·0	15·3	74	..	2·9	..	0·5	0	0	4	0	1	3	0	0	0	0	0	27	0
	2330	,,	1016·8	1003·6	..	12·1	11 6	11·5	13·3	93	..	2·0	..	0·9	0	0	4	1	2	1	0	0	0	0	0	27	0
Dibrugarh	0830	106	1019·0	1006·5	+0·9	17·6	15·2	13·2	15·7	77	−15	2·5	−1·6	3·0	0	0	30	5	4	12	2	4	1	0	2	1	0
	1730	,,	1014 5	1002·1	.	19·1	16 1	13·9	15·8	73	..	2·0	..	0·6	0	0	6	1	1	4	0	0	0	0	0	25	0
Digboi*	0830	152																									
	1730	,,																									
North Lakhimpur	0830	102	1019·0	1006·9	+0·4	16·5	14·5	12·9	15·2	80	−4	2·4	−1·2	3·5	0	0	25	11	7	1	4	1	0	0	1	6	0
	1130	,,	1016·9	1005·1	..	21·9	16·5	12·4	14·4	55	..	2·3	..	6·7	0	0	29	1	9	10	6	1	1	0	1	2	0
	1730	,,	1015·1	1003·2	..	17·2	15·0	13·3	15·3	78	..	1·9	..	1·2	0	0	9	1	6	1	0	0	0	0	1	22	0
Sibsagar	0830	97	1019·2	1007·8	+0·9	17·4	15·4	14·1	15·3	83	−10	5·3	−1·1	1 3	0	0	15	3	4	1	3	0	4	0	0	16	0
	1730	,,	1014·9	1003·7	..	20·6	16·7	14·5	15·8	67	..	3·9	..	1·1	0	0	8	1	3	1	1	0	2	0	0	23	0
Gohpur (R)	0830	..																									
(R)	1730	..																									
Majbat	0830	77	..	..	..	..	..	..	..	..	..	2·6	..	1·8	0	0	13	0	4	6	2	0	1	0	0	18	0
	1730	,,	..	..	..	..	..	..	..	..	..	1·4	.	0·9	0	0	9	4	2	1	0	0	1	0	1	22	0
Jorhat (Aerodrome)	0530	90	1016·5	1005·7	..	10·9	10 9	10·9	13·2	99	..	4·0	..	1·1	0	0	6	0	3	0	0	0	1	0	2	25	0
	0830	,,	1018·4	1007·6	..	15·9	14·2	13·1	15·1	86	..	3·2	..	3·1	0	0	16	2	5	3	1	2	1	1	1	15	0
	1130	,,	1016·3	1006·3	..	22·3	17·1	13·3	15.0	58	..	1·8	..	9·0	0	0	30	4	18	1	1	1	4	0	1	1	0
	1730	,,	1014·2	1003·7	..	18·6	15·6	13·3	14·9	72	..	1·9	..	6·3	0	0	25	4	20	0	0	1	0	0	0	6	0
	2330	,,	1015·7	1005·4	..	13·0	12·7	12·4	14·3	96	..	2·0	..	2·1	0	0	12	2	2	6	0	0	0	0	2	19	0
Tangla	0830	78	1018·1	1009·6	..	16·3	14·6	13·1	15·1	80	..	0·9	..	0·5	0	0	3	0	0	2	0	0	0	1	0	28	0
	1730	,,	1014·9	1007·3	..	18·8	17·0	15·5	18·3	80	..	0 4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Tezpur	0830	79	1019·2	1009 7	+0·2	16·0	15·0	14·1	16·2	88	0	1·6	−1·1	1·0	0	0	10	0	9	1	0	0	0	0	0	21	0
	1730	,,	1014·2	1005·3	..	21·8	18 8	16·0	19·2	71	..	0.5	..	1·5	0	0	11	0	8	1	1	0	1	0	0	20	0
Golaghat	0830	..	..	..	..	17·1	15·1	13·4	15·5	79	..	4·8	..	(c) 0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	..	..	..	..	21·3	18·0	15·8	17·9	74	..	2·5	..	(n) 0	0	0	0	0	0	0	0	0	0	0	0	17	0
Rangia (R)	0830	..																									
(R)	1730	..																									
Chaparmakh†	0830	66																									
	1730	..																									
Goalpara	0830	33	1017·8	1013·3	..	15·6	13·9	12·6	14·5	84	..	2·0	..	(a) 2·8	0	0	22	1	10	5	1	0	4	0	1	8	0
	1730	,,	1012·9	1008·3	..	23·2	18·7	15·7	18·2	61	..	0·6	..	2·6	0	0	18	0	8	0	1	0	3	4	2	13	0
Gauhati	0830	55	1018·6	1012·1	+0·5	16·4	14·8	13·5	15·7	84	−4	1·6	−0·4	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1014·1	1007·7	..	21·6	17·3	14·2	16·1	63	..	1·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0

(R) Register not received. *Data not reliable. †Temporarily closed from 7-7-1960. (c) Mean of 28 days. (n) Mean of 17 days. (a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1015·8	1009·3	..	12.6	12·3	12·0	14·3	96	..	0·8	..	0·8	0	0	4	0	2	0	0	0	1	1	0	27	0
	0530	"	1016 2	1009·6	..	11 5	11·3	11·0	13·3	96	..	1·2	..	1·1	0	0	6	0	1	1	1	0	2	1	0	25	0
	0830	"	1018 6	1012·1	..	16·8	15·3	14·1	16 1	84	..	2·1	..	1·5	0	0	10	4	4	1	0	0	1	0	0	21	0
	1130	"	1016·4	1010·1	..	22·4	17·4	13·7	15·6	58	..	1·4	..	6·8	0	0	27	9	6	1	1	0	2	2	6	4	0
	1730	"	1014·1	1007·8	..	20·2	17·1	14·8	16·9	72	..	2·4	..	1·9	0	0	10	0	3	2	0	1	3	1	0	21	0
	2330	"	1016·4	1009·9	..	14·1	13·5	12·9	14·9	93	..	1·5	..	1·7	0	0	9	0	0	2	0	1	5	1	0	22	0
Dhubri (Rupsi)	0530	36	1015·4	1011·9	..	11.3	10·8	10·4	12·3	94	..	1·1	..	1·0	0	0	8	0	4	4	0	0	0	0	0	23	0
	0830	"	1017·6	1013·3	..	16·6	14 5	12·7	14·7	79	..	1 5	..	3·8	0	0	23	0	8	11	0	1	0	3	0	8	0
	1130	"	1016·0	1011·9	..	22 8	17·0	12·7	14·0	53	..	1·0	..	6·0	0	0	27	1	0	14	5	0	2	1	1	4	3
	1730	"	1013·7	1009·5	..	18 1	15 9	14 4	16·5	79	..	1·0	..	0·1	0	0	1	1	0	0	0	0	0	0	0	30	0
Dhubri	0830	35	1018·8	1014·6	+0·9	16·5	14 9	13·5	15·7	82	−2	0·7	−1·0	1 2	0	0	9	0	8	0	0	0	1	0	0	22	0
	1730	"	1014·6	1010·6	..	21·2	17·5	14·8	17·1	67	..	0 3	..	0·2	0	0	2	1	0	0	0	0	1	0	0	29	0
Lumding	0830	149	1018·5	1000·9	..	14·4	12·9	11·3	13·4	82	−8	1·5	..	0 5	0	0	4	0	1	1	2	0	0	0	0	27	0
	1730	"	1013 5	996·4	..	22·1	17·6	14·4	15·4	62	..	2·3	..	0·8	0	0	5	0	1	2	1	0	1	0	0	26	0
Umroi	0830	..	..	..	..	12·7	11·1	9·6	11 9	83	..	1·6	..	3 1	0	0	23	1	4	11	5	0	0	1	1	8	0
	1130	..	..	..	.	19·5	12·7	7·5	10·4	48	..	2·9	..	9·1	0	1	30	2	6	9	3	1	1	1	8	0	0
	1730	..	..	..	..	15 3	12·7	10 5	12·7	74	..	4·8	..	7 7	0	0	22	2	5	1	1	0	0	3	10	9	0
Tura	0830	370	1019 4	976·3	..	15·4	13 6	11·0	14 0	76	..	2 2	..	3·9	0	0	30	0	1	21	4	2	2	0	0	1	0
	1730	"	1017·7	973·4	..	21 7	16 5	12 8	14 4	56	..	4·5	..	3 6	0	0	26	2	0	3	4	5	5	7	0	5	0
Haflong	0830	682	1017·0	939·6	.	16·2	13·1	10 7	12·6	71	..	2·6	..	..	..	..	..	10	8	0	0	0	12	0	1	0	0
	1730	"	1012 1	935·7		18·5	14·0	10·3	12·3	60	..	2·1	..	..	..	..	..	0	0	0	0	0	24	0	7	0	0
Silchar (Kubhigram)	0530	97	1014 7	1003·2	..	13·6	12·7	11·8	13·8	89	..	2·1	..	8·2	0	0	30	0	1	27	1	1	0	0	0	1	0
	0830	"	1016 8	1005·5	.	17·6	15 0	13·0	15·3	74	..	2 2	..	7 0	0	0	30	0	1	25	3	1	0	0	0	1	0
	1130	"	1014·7	1003·6	..	23·4	17·2	12·6	14·7	52	..	1·9	..	6 1	0	0	30	0	0	16	8	4	2	0	0	1	0
	1730	"	1012·8	1001·7	.	22 4	17 1	13·1	15·0	56	..	1·4	..	3 6	0	0	25	0	0	4	2	2	13	4	0	6	0
Silchar	0830	29	1018·3	1014·8	+0·3	17 5	15 4	13 8	15·8	79	−4	2·4	+0 6	0 4	0	0	4	0	1	2	0	1	0	0	0	27	0
	1730	"	1014·2	1010·8		21 8	17·4	14·3	16 4	63	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Imphal (Tulihal)	0530	801	1021 1	927·4		6·2	6·1	6 0	9·4	98	..	3·2		1 4	0	0	11	3	1	2	1	0	3	1	0	20	0
	0830	"	1021 0	929·4	—0·9	12 7	10 8	9 1	11 4	79	+3	3·1	+0·9	2 1	0	0	20	0	0	6	4	9	0	0	1	11	0
	1130	"	1016 1	926·9	.	19 6	14·1	9·6	11·3	53	..	2·9	..	6 6	0	0	30	0	1	3	9	11	3	1	1	1	1
	1730	"	1014 9	925·0	..	16 7	12·4	8 5	11·1	59	..	2·7	..	6·4	0	1	22	1	0	0	1	3	4	0	4	8	0
	2330	"	1019 3	926·9	..	9·5	8 6	7 7	10 5	90	..	2·4		1·6	0	0	10	0	0	0	1	1	1	4	3	21	0
Kailashar	0530	29	1016·5	1012·4	..	12 5	11·7	11 4	13·3	92	..	2·3	.	0 3	0	0	3	0	0	0	1	0	1	1	0	28	0
	0830	"	1018·5	1015·1	..	16 4	14·9	13·3	15·6	82	..	2·0	..	2 0	0	0	16	1	0	1	0	4	6	0	4	15	0
	1130	"	1016·7	1013·3	..	23·3	17·5	13 2	15·3	54	..	2·1	..	4·0	0	0	28	4	3	0	2	3	4	2	10	3	0
	1730	"	1014·6	1011·2	..	21 7	17·6	14 6	16·6	65	..	2·0	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agartala	0230	16	1014·6	1012·7	..	13·1	12·4	11·8	13 8	92	..	1·2	..	1·2	0	0	10	1	0	2	4	2	0	0	1	21	0
	0530	"	1015·0	1013·1	.	11 9	11·4	10 9	12 8	93	..	1 8	..	3 0	0	1	16	1	2	1	7	4	1	0	1	14	0
	0830	"	1017·2	1015·3	+0·7	18 4	15 7	14·3	15·4	78	−1	1·8	0	3 7	0	0	18	6	1	2	2	3	2	0	2	13	0
	1130	"	1015·6	1013·8	.	24·3	17·5	12·3	15·0	47	..	1·9	..	7·9	0	0	30	4	2	0	0	3	4	8	9	1	0
	1730	"	1013·6	1011·7	..	21·7	16·8	13·2	14·9	59	..	2·0	..	2·0	0	0	16	5	0	0	0	3	1	4	3	15	0
	2330	"	1015·3	1013·4	..	14·5	13 4	12 4	14·4	88	..	0·9	..	1·9	0	0	11	2	1	2	2	2	0	1	1	20	0
Sub-Himalayan West Bengal.																											
Bagdogra	0230	131	1015 5	1000·0	..	12·9	11·4	10·6	12·4	86	..	0·6	..	2 3	0	0	22	12	1	0	0	0	1	2	6	9	0
	0530	"	1016·1	1000·3	.	10 5	10·3	9·6	12·4	97	..	1·4	..	3·2	0	0	26	19	1	1	0	0	0	1	4	5	0
	0830	"	1018·2	1002·7	+0 6	16·3	14·4	12·8	15·0	80	−1	2·5	+0·2	3 3	0	0	25	8	7	6	2	1	1	0	0	6	0
	1130	"	1016 5	1001·5	..	22 8	16 7	11·7	14·0	51	..	2·3	..	6·1	0	0	31	1	1	13	7	4	1	4	0	0	0
	1730	"	1014·2	998 9	..	18 9	15 9	13·8	14·7	72	..	3·6	..	2 7	0	0	19	2	2	1	0	0	8	5	1	12	0
	2330	"	1016 2	1000·8	..	14 8	12·9	11·3	13·3	80	..	1·7	..	3·5	0	0	23	14	2	0	0	0	2	1	3	8	1
Jalpaiguri	0830	83	1018·3	1008 4	+0·6	13·7	13 0	12·3	14·4	91	+5	1·4	0	3·4	0	0	22	9	1	3	0	0	2	1	6	9	0
	1730	"	1014·0	1004·5	..	22·1	17·0	13·1	15·3	57	..	1·2	..	1·8	0	0	13	0	0	0	0	0	9	2	2	18	0
Cooch Behar	0830	43	1018·3	1013·2	..	16·3	14·3	12·4	14·8	78	..	1·5	..	3·9	0	0	19	0	8	6	3	0	0	1	0	12	1
	1130	"	1016·7	1011·8	..	22 9	16·8	12·2	14·2	52	..	1 4	..	6·6	0	0	28	1	9	13	2	0	1	0	1	3	1
	1730	"	1014·3	1009·3	..	19·3	16·1	13·6	15·6	70	..	1·6	..	0·9	0	0	3	0	1	0	0	0	0	1	1	28	0
Balurghat	0830	..	..	..	..	17·2	14 7	12 4	14·7	75	..	1·0	..	5·3	0	0	29	9	3	2	0	0	1	6	8	2	0
	1730	..	..	..	..	21·7	17·2	13·4	16·1	61	..	0·9	..	1·3	0	0	10	1	0	0	0	1	2	5	1	21	0
Malda	0830	31	1018·6	1014·9	+1·0	18·4	14·5	11·2	13·4	63	−9	1·1	+0·1	7·7	0	1	30	6	6	1	1	0	3	3	11	0	0
	1730	"	1014·7	1011·0	..	21·3	16·5	12·7	14·8	59	..	1·4	..	4·0	0	0	25	2	0	0	0	1	1	5	16	6	0

Division and station	Hour of observation I.S.T.	Station elevation in Meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1017·7	1015·4	−0.1	15·4	13·6	11·8	14·0	80	+3	1·5	−0·3	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1014·1	1011·9	..	21·5	16·9	13·3	15.5	59	..	1·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Suri	0830	77	1018·5	1009·5	..	17·2	13·8	11·0	13·7	67	..	2·1	..	5.5	0	0	29	4	2	3	1	0	3	5	11	2	0
	1730	„	1014·9	1006·0	..	23·0	16·0	10·2	12·5	45	..	2 4	..	2·7	0	0	22	1	1	2	1	1	5	7	4	9	0
Asansol	0830	126	1016·0	1001 1	..	14·9	12·9	11·3	13·4	77	..	1·1	..	2.7	0	0	11	3	0	0	0	1	0	2	5	20	0
	0530	„	1016·4	1001.5	..	13·7	12·1	10·8	12·9	82	..	1·5	..	2 7	0	0	11	1	1	0	0	1	0	4	4	20	0
	0830	„	1018·6	1003 8	+1 1	17·3	14·0	11·1	13 2	67	+1	1·4	−0.5	6.6	0	0	24	2	0	1	1	1	0	11	8	7	0
	1130	„	1017·3	1002·7	..	23·3	16 4	10·8	12·9	46	..	1·7	..	9·3	0	0	28	4	2	2	4	0	1	4	11	3	0
	1730	„	1014 5	1000·0	..	22·6	16 1	11·1	13·2	47	..	1·9	..	2.7	0	0	10	1	0	1	0	0	0	2	6	21	0
	2330	„	1016·6	1001·8	.	16·4	13·6	11·2	13·3	71	..	1·3	..	3·2	0	0	12	3	2	0	1	0	0	0	5	19	0
Shanti Niketan.	0830	59	1018.5	1011·8	..	18·5	15·2	12·3	14 6	69	..	2·0	..	5 0	0	0	29	9	5	0	1	0	0	2	12	2	0
	1130	„	1017.2	1010·4	..	22·9	17 9	14·3	16.4	59	..	1·5		4 7	0	0	30	10	2	1	1	2	2	3	9	1	0
	1730	„	1014·6	1007.3	..	20·7	16·6	13·5	15·5	63	..	2·0		3 8	0	0	31	8	3	0	3	2	0	2	13	0	0
Krishnanagar	0830	15	1018·4	1016 7	+1·0	18·4	15 1	18·7	14·5	70	−3	0 7	−0·6	0.9	0	0	9	3	0	1	0	1	0	0	4	22	0
	1730	„	1014·4	1012·7	..	22·9	17·5	14·0	15·6	58	..	0·9	..	0 2	0	0	2	1	0	0	0	1	0	0	0	29	0
Purulia	0830	255	1019·1	989 2	+0·8	16·7	12·8	9 1	11·6	61	+1	1·6	0	3·1	0	0	28	0	1	1	0	0	0	2	24	3	0
	1730	„	1014·5	985·5	..	22·4	15·8	10 3	12 5	46	..	1 7	..	1·4	0	0	11	1	0	0	1	1	0	1	7	20	0
Burdwan	0830	32	1018·4	1014·6	+0·8	18·5	15·1	12·5	14·6	68	−7	1 4	−0·4	4·7	0	0	23	3	2	1	0	0	0	1	16	8	0
	1730	„	1014 0	1010·3	..	23·3	17·6	13 6	15·6	58	..	1 1	.	1·3	0	0	6	0	2	0	1	0	0	0	3	25	0
Barrackpore (Aerodrome)	0530	7	1016·3	1015 5	..	14·0	13·1	12·3	14·4	91	..	2 2		1·5	0	0	8	2	1	1	0	0	1	1	2	23	0
	0830	„	1018·5	1017·7	+1·1	18·0	15·9	14 2	16·5	81	+7	2.1	+0·1	5·5	0	0	21	9	2	1	1	0	0	0	8	10	0
	1130	„	1017·4	1016 6	..	23·5	18·2	14·3	16 6	57	..	1 8	..	8.5	0	0	28	5	1	3	1	0	1	8	9	3	0
	1730	„	1014 8	1014·0	..	21·9	18·0	15 2	17·5	66	..	1.8	..	0.7	0	0	5	0	0	1	0	0	0	1	3	26	0
	2330	„	1016 5	1015.7	..	16·7	15·6	14·7	16 8	89	..	1.2	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
Calcutta (Dum Dum)	0230	6	1015·2	1014 4	..	14·4	13·5	12 8	14 7	90	..	1.5	..	1.3	0	0	10	7	2	0	0	0	0	0	1	21	0
	0530	„	1015·7	1014.9	..	13·6	12·9	12·3	14 9	92	..	2·0	..	1·4	0	0	10	3	1	1	1	0	0	0	4	21	0
	0830	„	1018·1	1017.3	+0·7	17·6	15·2	13 2	13·3	76	+3	2·1	+0.5	3.8	0	0	28	16	2	0	2	1	0	1	6	3	0
	1130	„	1016·8	1016·0	..	23·9	17·1	11 7	13·9	47	..	1·7	..	6 5	0	0	31	11	4	2	1	0	3	3	7	0	0
	1730	„	1014·4	1013 6	..	22·4	17·7	14·3	16 5	60	..	2·0	..	0 6	0	0	6	3	0	0	0	0	1	0	2	25	0
	2330	„	1015·9	1015·1	.	15·5	14·4	13·5	15·5	88	..	1·3	..	1·6	0	0	13	4	2	0	2	2	1	0	2	18	0
Calcutta	0830	6	1017·9	1017·1	+0·4	18·2	15·3	12·8	14·8	72	−10	1·9	+0·1	4·4	0	0	24	8	5	0	2	0	0	2	7	7	0
	1130	„	1016 5	1015·8	..	24 5	17·3	10·9	13 8	45	.	1·8	..	8·7	0	0	31	6	4	3	2	1	2	2	11	0	0
	1730	„	1014·1	1013·4	..	23·1	17·5	13·3	15 5	55	..	2·2	..	2·3	0	0	17	4	0	0	1	1	1	1	9	14	0
Midnapore	0830	45	1018·2	1012·9	−0·7	19·7	15·5	11 9	14·2	62	−2	1·9	+0·1	2·7	0	0	21	9	11	1	0	0	0	0	0	10	0
	1730	„	1014·0	1008·8	..	24·5	17·1	11·2	13·4	44	..	1·7	..	2·7	0	0	21	12	5	0	0	4	0	0	0	10	0
Contai	0830	11	1017 9	1016·6	+1·1	19 9	15·8	13·0	15 5	70	−2	1·5	+0 5	3·3	0	0	29	14	5	0	3	1	1	1	4	2	0
	1730	„	1014·1	1012·9	..	22·4	17·3	13·3	14 6	58	..	1·2	..	3·0	0	0	22	4	0	2	3	10	3	0	0	9	0
Saugor Island	0830	3	1017·3	1016·9	+0·1	19·5	17·1	15·2	17·4	77	−3	3 4	+1·2	12·3	0	3	27	12	12	1	0	1	1	0	3	1	0
	1730		1014·0	1013·7	.	22·5	18 5	15·5	18 1	56	..	2 3	..	11·3	0	0	31	8	6	0	3	5	4	2	3	0	0
Sandheads	0530	10	1014·7	1013·6	..	22·3	18·2	15·5	17.6	67	..	2·0	..	10 9	0	2	26	12	7	1	1	1	2	2	2	3	0
	0830	„	1017·3	1016 2	+0·1	23·0	19·0	16 2	18·9	66	+3	2 2	+0·4	11·6	0	4	24	14	7	2	0	1	0	1	3	3	0
	1130	„	1016.6	1015·5	..	24·0	19·2	16·0	18·3	62	..	2·3	..	11·2	0	4	23	12	11	0	1	1	0	0	2	4	0
	1730	„	1014·1	1013 0	.	23·9	19·1	15·9	18 3	61	..	2·4	.	8 5	0	1	26	9	4	2	3	1	1	2	5	4	0
	2330	„	1015.6	1014 5	..	22·6	18·4	15·6	18 0	65	..	0 8	.	8·5	0	0	30	9	8	1	4	4	2	0	2	1	0
Orissa																											
Baripada	0830	54	1019.4	1013 0	..	18 9	14·8	10·9	14 1	61	..	2·8	..	1·9	0	0	19	8	1	0	2	0	0	0	8	12	0
	1730	„	1014·9	1008 6	..	23·0	17·0	12·2	14.5	52	..	1 7	..	0·9	0	0	9	5	0	1	2	1	0	0	0	22	0
Jharsuguda	0230	230	1015·4	988·3	..	14·8	13·5	12·1	14.5	85	..	1·7	..	3·3	0	0	26	12	8	2	2	0	1	0	1	5	0
	0530	„	1016·1	988·9	..	13·6	12·4	11.3	13·5	87	..	2·1		5·3	0	0	29	18	8	2	1	0	0	0	0	2	0
	0830	„	1018·1	991·3	+0·8	16·9	14·1	11.7	13 8	71	+3	2 9	+1·4	6·1	0	0	30	13	15	2	0	0	0	0	0	1	0
	1130	„	1016·6	990·4	..	23·6	16·7	11.0	13 3	46	..	2 6	..	5·9	0	0	31	12	6	5	3	2	1	0	2	0	0
	1730	„	1013·4	987·3	..	24·3	17·2	11·5	14·0	46	..	2·9	..	3·3	0	0	22	3	2	1	6	2	5	2	1	9	0
	2330	„	1015·9	989·1	..	16·9	14·7	12·8	15·0	77	..	1 8	...	4·0	0	0	24	8	8	2	4	0	1	0	1	7	0
Keonjhargarh	0830	463	1018·5	962·7	..	18·6	14·2	10.4	12·9	59	..	1·6	..	2·4	0	0	20	5	7	1	2	0	0	0	5	11	0
	1730	„	1013.8	959.0	..	23·1	16·0	10.5	13·0	46	..	2 9	..	2·5	0	0	26	2	7	3	5	2	1	5	1	5	0
Balasore	0830	20	1017·8	1015 5	+0·3	18·3	15·3	13.0	14.9	71	−1	2·6	+0·8	3·4	0	0	25	18	4	0	0	0	1	0	2	6	0
	1730	„	1014·2	1011·9	..	22·3	17·5	14.1	16.2	61	..	2 7	..	0·9	0	0	8	0	0	0	6	2	0	0	0	23	0
Sambalpur	0830	148	1018·0	1000·8	+0.5	20·0	16·1	13.0	15.2	65	−6	2·0	+0 2	1·0	0	0	7	1	3	2	1	0	0	0	0	24	0
	1730	„	1013.4	996 6	..	25·8	17·9	11.8	14.2	43	..	1·9	..	0.4	0	0	4	1	0	2	1	0	0	0	0	27	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Angul	0830	139	1018·1	1001·8	+0·6	16·9	15·5	14·3	16·4	85	+12	1·9	—0·4	3·6	0	0	28	0	0	2	1	2	3	7	13	3	0
	1730	,,	1013·7	997·9	..	25·2	17·8	12·3	14·3	47	..	3·1	..	4·0	0	0	31	1	6	11	7	2	1	0	3	0	0
Cuttak	0830	27	1017·8	1014·7	+0·3	19·0	17·5	16·6	19·0	86	+8	1·8	—0·2	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013·6	1010·5	..	26·0	20·7	16·6	20·1	58	..	1·9	.	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Chanhali	0830	6	1017·6	1016·9	+0·1	19·8	17·2	15·6	17·6	76	+1	1·9	+0·1	3·8	0	0	23	11	3	0	0	0	1	0	8	8	0
	1730	,,	1014·2	1013·5	..	23·3	18·8	15·5	18·1	62	..	2·5	..	4·5	0	0	23	0	5	7	9	0	0	0	2	8	0
Bolangir	0830	190	1016·7	994·7	.	21·4	17·2	13·8	16·2	62	..	2·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1013·7	991·9	..	25·8	18·2	11·9	14·8	43	..	2·1	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Phulbani	0830	464	1016·1	962·6	..	14·8	13·3	11·8	14·2	84	..	1·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1010·3	959·1	..	23·7	21·2	19·8	23·0	80	..	1·5	.	0·2	0	0	1	0	0	0	0	0	0	1	0	30	0
Titilagarh	0830	211	1016·2	992·1	..	21·9	18·0	15·4	17·5	68	..	1·2	..	3·0	0	0	31	0	25	0	4	0	2	0	0	0	0
	1730	,,	1013·1	989·3	.	27·3	18·5	12·2	14·2	40	..	1·0	..	3·0	0	0	31	0	30	0	1	0	0	0	0	0	0
Bhubaneswar	0230	46	1015·1	1009·7	..	18·3	17·1	16·3	17·4	88	..	1·9	..	4·1	0	0	22	13	1	1	0	0	0	2	5	9	0
	0530	,,	1015·6	1010·1	..	17·5	16·6	15·8	18·2	91	..	2·0	.	4·6	0	0	26	17	4	0	0	1	0	0	4	5	0
	0830	,,	1017·9	1012·4	+0·8	20·6	18·0	16·2	18·6	77	+7	2·3	+0·5	6·0	0	0	22	9	11	0	0	0	0	1	1	9	0
	1130	,,	1016·9	1011·5	..	25·1	18·9	14·7	16·8	54	..	2·8	..	7·6	0	0	31	5	10	4	2	3	2	5	0	0	0
	1730	,,	1014·1	1008·8	..	24·6	19·0	14·9	17·5	57	..	3·0	.	8·0	0	1	24	2	5	3	4	8	1	0	2	6	0
	2330	,,	1016·1	1010·7	..	19·6	18·0	17·0	19·4	87	..	1·3	.	5·3	0	0	23	3	4	1	8	5	1	1	0	8	0
Puri	0830	6	1017·9	1017·2	+0·9	21·6	18·9	17·2	19·7	79	+2	5·3	+1·5	9·4	0	0	30	12	16	0	1	1	0	1	0	0	0
	1730	,,	1014·1	1013·3	..	23·7	20·2	17·8	21·0	71	..	6·9	.	7·6	0	0	31	1	11	7	3	1	2	6	1	0	0
Gopalpur	0530	17	1015·4	1013·4	..	18·2	17·4	16·7	19·2	92	..	2·1	..	7·1	0	0	29	16	0	0	0	0	0	0	13	2	0
	0830	,,	1017·7	1015·7	+0·7	20·4	18·2	16·7	19·2	80	+6	3·3	+1·9	9·6	0	0	30	14	0	0	0	1	0	0	15	1	0
	1130	,,	1016·8	1014·8	..	25·3	20·8	18·1	21·0	65	..	3·5	..	7·8	0	0	30	7	2	7	8	2	1	0	3	1	0
	1730	,,	1014·2	1012·2	..	24·0	20·6	16·5	21·6	72	..	3·3	..	14·7	0	0	30	1	2	14	9	4	0	0	0	1	0
	2330	,,	1015·9	1013·9	..	20·5	19·1	18·4	21·8	88	..	1·3	..	3·1	0	0	25	9	0	0	0	0	2	3	11	6	0
Koraput	0830	913	1559·0	916·6	+1·9	19·8	15·3	11·9	14·2	61	—8	1·4	0	..	0	0	31	4	2	1	12	5	7	0	0	0	0
	1730	,,	1539·1	913·9	.	21·9	14·3	7·5	10·8	42	..	1·9	..	..	0	0	31	18	4	0	2	1	0	1	5	0	0
Bihar Plateau Dumka	0830	149	1018·3	1000·8	+0·4	15·9	13·2	10·9	12·9	72	+6	1·1	—0·3	1·6	0	0	8	0	0	1	1	0	0	5	1	23	0
	1730		1014·3	997·1	.	21·5	16·2	11·9	14·0	55	..	1·2	..	1·3	0	0	9	0	1	2	1	1	0	3	1	22	0
Daltonganj	0830	221	1018·8	992·7	+0·3	15·7	12·9	10·2	12·6	71	—9	1·9	+0·3	..	..	..	..	.	..	..	.	..	.	..	..	..	..
	1730	,,	1014·6	989·2		21·4	16·2	11·8	14·7	56	..	2·0	..	..	..	..	..	..	..								
Hazaribagh	0830	611	1018·4	948·4	+0·9	15·6	11·9	8·4	11·3	63	+3	1·2	—0·7	6·1	0	1	22	2	0	0	3	3	3	0	12	8	0
	1730	,,	1014·4	945·4		19·2	13·4	8·2	11·7	50	..	2·0	..	6·8	0	0	29	6	2	0	0	3	1	0	17	2	0
Dhanbad	0830	257	1018·6	988·5	..	17·8	13·4	9·3	11·8	58	..	1·4	.	2·1	0	0	20	3	1	2	1	0	1	6	6	11	0
	1730	,,	1014·7	985·2	..	21·9	16·1	11·2	13·6	51	..	1·4	..	0·9	0	0	5	0	0	2	1	0	0	0	2	26	0
Ranchi	0830	655	1017·3	942·6	+0·2	15·4	11·0	6·9	9·9	57	—2	1·0	—1·1	1·8	0	0	13	6	0	2	0	2	1	2	0	18	0
	1730	,,	1014·4	940·6	..	19·0	13·3	8·5	11·1	52	..	1·8	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
Ranchi (Aerodrome)	0530	652	1017·1	941·9	..	11·5	9·0	6·4	9·6	71	..	2·8	.	3·5	0	0	22	7	0	0	1	0	1	0	13	9	0
	0830	,,	1018·1	943·6	..	15·4	19·6	5·7	9·1	56	..	2·1	..	4·4	0	0	26	8	2	0	1	2	1	1	9	5	2
	1130	,,	1016·1	943·0	..	20·2	12·7	6·1	9·4	40	..	2·3	.	6·7	0	0	27	3	1	2	0	2	4	0	12	4	3
	1730	,,	1014·0	941·0	..	20·5	13·3	7·2	10·1	43	..	(j) 2·4	..	(j) 6·3	0	0	21	9	3	0	1	0	0	0	8	0	0
Jamshedpur	0830	129	1018·6	1003·3	+0·5	15·5	13·6	11·2	14·0	77	+3	1·7	—0·2	2·4	0		21	1	0	1	1	0	1	9	8	10	0
	1730	,,	1014·0	999·2	..	23·6	16·7	11·2	13·3	47	..	2·0	..	2·0	0	0	15	3	1	3	3	1	0	2	2	16	0
Jamshedpur (P.B.O.)	0530	142	1016·5	999·7	..	13·3	11·9	10·6	12·8	83	..	1·7	..	3·8	0	0	23	1	0	0	0	0	5	11	6	8	0
	0830	,,	1018·8	1002·1	..	16·0	13·0	10·3	12·6	70	..	2·2	.	4·6	0	0	23	0	0	0	0	0	2	11	10	8	0
	1130	,,	1017·1	1000·8	..	23·2	15·7	9·3	11·7	43	..	1·7	..	7·6	0	0	27	1	3	0	0	2	2	7	12	4	0
	1730	,,	1014·1	998·0	..	24·1	16·1	9·2	11·7	39	..	2·2	..	5·0	0	0	21	2	1	5	3	1	0	4	5	10	0
	2330	,,	1016·4	999·7	..	15·7	13·6	11·9	13·9	78	..	1·2	..	4·2	0	0	20	1	2	1	0	0	0	8	8	11	0
Chaibasa	0830	226	1018·4	992·1	+1·0	16·9	13·7	10·9	13·0	68	—8	2·3	+0·3	0·5	0	0	5	0	1	0	0	0	4	0	0	26	0
	1730	,,	1013·8	988·2	.	22·9	16·4	10·9	13·5	81	..	2·5	..	0·2	0	0	2	0	1	0	0	0	1	0	0	29	0
Bihar Plains Motihari	0830	66	1018·5	1010·8	—1·4	16·3	13·9	12·1	14·1	76	—2	0·7	—1·3	0·7	0	0	6	0	1	0	0	0	0	5	0	25	0
	1730	,,	1014·5	1006·8	..	19·9	16·9	14·6	16·7	72	..	0·3	..	0·2	0	0	3	0	0	0	0	0	0	3	0	28	0
Forbesganj	0830	61	1018·0	1010·7	..	14·5	13·1	11·7	14·0	85	..	1·3	..	3·2	0	0	26	1	6	5	0	0	0	11	3	5	0
	1730	,,	1013·9	1006·9	.	21·1	16·5	13·0	15·0	61	..	2·8	..	2·3	0	0	19	1	1	0	0	0	1	14	2	12	0
Darbhanga	0830	49	1018·6	1012·8	—0·9	17·3	14·2	11·4	13·8	68	—14	1·6	0	4·1	0	0	31	1	1	3	3	0	9	3	11	0	0
	1730	,,	1014·9	1009·1	..	20·3	15·9	12·4	14·5	61	..	1·6	..	3·0	0	0	26	0	1	2	1	0	6	9	7	5	0
Chapra	0830	..	..	..	..	14·5	12·3	9·9	12·6	76	..	1·2	..	0·7	0	0	5	0	0	0	0	0	3	2	0	26	0
	1730	..	..	..	..	20·7	15·6	11·2	13·5	57	..	1·6	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0

(j) Mean of 21 days.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains—*Contd.*																											
Purnea	0830	38	1018·7	1014·2	+0·8	16·1	13·8	11·9	14·0	76	−9	1·1	−0·3	3·5	0	0	21	0	5	1	0	0	7	8	0	10	0
	1730	„	1014·7	1010·3	..	19·7	16·0	13·0	15·2	66	..	1·0	..	1·0	0	0	5	0	0	0	0	1	1	2	1	26	0
Patna	0830	53	1018.7	1012·4	+0·6	15·2	12·7	10·4	12·6	74	+3	1·6	−0·1	8·1	0	0	29	0	3	2	4	2	6	10	2	2	0
	1730	„	1014·9	1008·7	..	20·5	15·3	10·8	14·2	54	..	1·5	..	4·6	0	0	20	0	2	2	1	1	0	13	1	11	0
Patna (Aerodrome)	0530	60	1015·8	1008·7	..	11·1	10·4	9·6	11·9	91	..	1·2	..	3·2	0	1	7	0	0	1	1	1	1	2	2	23	0
	0830	„	1018·2	1011·1	..	14·5	12·5	10·8	12·9	79	..	1·4	..	5·0	0	0	18	1	1	2	0	0	4	8	1	13	1
	1130	„	1017·5	1010·5	.	20·9	15·3	11·0	13·1	53	..	1·5	..	8·5	0	1	22	1	1	2	2	0	3	9	4	8	1
	1730	„	1014·3	1007·4	..	20·5	15·5	11·6	13·7	56	..	1·7	..	1·1	0	0	3	0	1	0	0	0	0	1	1	28	0
	2330	52	1016·7	1010·5	..	14·5	12·5	10·8	12·9	79	..	1·3	..	0·9	0	0	5	0	0	0	1	0	0	1	3	26	0
Bhagalpur	0530	49	1016·7	1010·9	..	13·1	11·8	10·4	12·9	84	..	1·3	..	2·9	0	0	15	0	0	0	0	5	5	5	0	16	0
	0830	„	1018·9	1013.1	+0·9	15·1	13·1	11·2	13·6	78	+2	1·5	−0·2	3·4	0	0	15	0	0	0	1	0	4	10	0	16	0
	1130	„	1018·0	1012·3	..	21·0	16·0	12·1	14·2	57	..	1·4	..	7·5	0	1	28	1	2	4	1	1	1	12	7	2	0
	1730	„	1015.1	1009·5	..	20·3	16·1	12·9	14·3	63	..	1·9	..	5·0	0	0	21	1	0	0	1	0	3	15	1	10	0
	2330	„	1016·9	1011·1	..	16·0	13.6	11·6	13·7	75	..	0·9	..	5·0	0	0	23	0	0	2	1	2	9	7	2	8	0
Sabaur	0830	37	1018·6	1014·1	+0·5	14·9	13·3	11·7	14·5	81	−1	1·5	−0·3	2·8	0	0	21	0	1	0	0	0	12	7	1	10	0
	1730	„	1014·9	1010·5	..	20·2	16·4	13.0	15.6	64	..	2·0	..	2·4	0	0	16	2	1	1	0	0	0	4	8	15	0
Jamui	0830	82	1018·5	1008·5	..	14·0	13·1	11·9	14·4	87	..	1·1	..	2·7	0	0	17	0	2	3	1	0	0	11	0	14	0
	1730	„	1014·6	1004·9	..	22·0	18·5	15·9	18·4	70	..	1·5	..	3·5	0	0	21	0	1	2	0	0	0	16	2	10	0
Dehri	0830	107	1018·6	1005·9	..	15·1	13·4	11·8	14·1	81	..	1·9	..	3·2	0	0	31	0	0	1	2	5	12	10	1	0	0
	1730	„	1015·8	1003·1	..	21·2	16·1	11·9	14·3	57	..	2·7	..	3·0	0	0	31	9	2	6	0	0	1	11	2	0	0
Gaya	0230	116	1016·9	1002·9	..	12·3	11·1	9·8	12·3	85	..	1·2	..	3·1	0	0	20	1	0	0	4	9	4	1	1	11	0
	0530	„	1017·0	1003·0	..	10·4	9·6	9·0	11·3	80	..	0·6	..	3·5	0	0	21	0	0	1	5	10	3	1	1	10	0
	0830	„	1019·0	1005·2	+1·0	14·5	12·5	10.6	12·9	78	+15	1·9	+0·2	3·4	0	1	17	0	0	0	1	7	7	2	1	13	0
	1130	„	1018·4	1004·9	..	21·4	16·7	13·2	15·1	60	..	1·9	..	7·9	0	1	26	4	1	3	4	0	0	7	8	4	0
	1730	„	1015.2	1001·7	..	21·1	16·5	12·9	15·0	60	..	2·2	.	4·4	0	0	24	7	4	2	0	0	0	2	9	7	0
	2330	„	1017·3	1003·5	..	14·1	12·3	10·5	12·9	80	..	1·2	..	1·6	0	0	13	0	0	0	3	5	2	2	1	18	0
Uttar Pradesh (East)																											
Kheri	0830	147	1018·3	1000·7	+0·8	11·4	10·5	9·6	11·9	89	+6	2.6	+0·5	2·3	0	0	20	1	5	5	2	0	0	5	2	11	0
	1730	„	1015·4	998·2	..	18·5	15.0	12·3	14·3	68	..	3·0	.	0·8	0	0	8	0	1	3	0	0	0	3	1	23	0
Bahraich	0830	124	1018·8	1004·0	+1·5	12·6	11·6	10·3	12·5	84	+3	2·6	+1·1	3·9	0	0	24	4	1	6	0	0	1	10	2	7	0
	1730	„	1015·9	1001·4	..	18·1	14·6	11·6	13·7	67	..	3·1	..	2·9	0	0	27	1	1	4	0	0	0	21	0	4	0
Nautanwa	0830	99	1018·1	1006·2	..	11·8	11·1	10·6	12·8	89	..	1·8	.	2·3	0	0	14	1	2	2	1	2	3	2	1	17	0
	1730	„	1014·8	1003·2	..	21·2	16·1	12·0	14·0	57	..	1.7	..	2·5	0	0	15	0	1	0	2	1	5	4	2	16	0
Hardoi	0830	142	1018·7	1001·6	+1·2	11·7	10·7	9·7	12·0	88	+2	2.7	+0·4	4·0	0	0	17	2	1	2	0	0	0	11	1	14	0
	1730	„	1015·4	998·8	..	19·0	15·2	12.2	14·2	65	..	2·6	.	4·5	0	0	19	2	0	4	0	0	3	8	2	12	0
Gonda	0830	110	1018·7	1005·7	..	13·7	12·2	11·0	13·1	85	+6	1·7	−0·6	1·9	0	0	17	1	1	1	1	0	0	6	7	14	0
	1730	„	1015·2	1002·4	..	19·0	15·5	13·0	14·9	68	..	2·5	..	1·0	0	0	8	2	1	0	1	0	0	2	2	23	0
Lucknow	0830	..	..	..	..	11·7	10·8	10·0	12·3	89	+11	2·2	+0·4	3·1	0	0	30	2	3	0	1	1	3	11	9	1	0
	1730	..	..	..	..	19·4	14·7	10·6	12·8	58	..	2·5	..	3·1	0	0	26	1	3	1	0	1	0	12	8	5	0
Lucknow (Amausi)	0230	128	1016·7	1001·3	..	10·4	9·8	9·1	11·5	92	..	1·9	..	5·2	0	0	21	2	1	2	0	0	5	4	7	10	0
	0530	„	1016·7	1001·2	..	9·6	9·0	8·5	11·1	93	..	1·9	..	6·0	0	1	18	2	3	0	0	0	4	5	5	12	0
	0830		1018·6	1003·4	+0·8	12·1	11·0	10·0	12·3	88	+11	2·4	+0·	5·5	0	0	22	0	3	3	1	0	4	6	5	9	0
	1130	„	1018·5	1003·6	..	19·2	14·5	10·2	12·4	57	..	2·7	..	9·9	0	2	26	2	4	2	4	1	1	9	5	3	0
	1730	„	1015.4	1000·5	..	18·9	14.7	11·2	13·3	62	..	3·2	..	9·5	0	0	29	2	2	4	1	0	1	9	10	2	0
	2330	„	1017·1	1001·8	..	11·5	10·7	10·0	12·3	90	..	1·6	..	7·2	0	0	23	1	4	0	0	0	6	8	4	8	0
Faizabad	0830	102	1018·7	1006·5	..	11·7	10·8	9·9	12·2	89	..	2·1	..	2·4	0	0	20	3	1	0	2	1	0	11	2	11	0
	1730	„	1015·2	1003·3	..	18·9	15·1	11·9	13·9	65	..	3·0	..	1·4	0	0	11	1	0	0	1	1	0	6	2	20	0
Gorakhpur	0830	77	1018·8	1009·6	+1·4	18·2	14·3	11·0	13·1	83	−16	1·6	+0·2	..	0	0	30	5	1	5	3	3	4	5	4	1	0
	1730	„	1014·5	1005·3	..	21·8	15·8	10·8	12·9	50	..	1·5	..	..	0	0	28	1	2	1	0	1	11	7	5	3	0
Gorakhpur (P.B.O.)	0230	78	1015·9	1006·6	..	14·5	12·6	11·2	13·3	81	..	1·7	..	4·3	0	1	17	5	1	1	0	0	1	9	1	13	0
	0530	„	1015·9	1006·6	..	13·3	11.7	10·3	12·5	82	..	1·8	..	4·1	0	1	20	5	5	0	0	1	3	6	1	10	0
	1130	„	1018·0	1008·9	..	20·3	15·4	12·2	14·2	61	..	2·2	..	5·6	0	0	28	2	1	2	3	4	8	4	4	3	0
	2330	„	1016·6	1007·3	..	15·6	13·5	11·9	13·9	79	..	2·0	..	3·7	0	0	17	3	0	0	0	2	3	6	3	14	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Kanpur	0830	126	1019·2	1004·0	+1·2	10·6	9·9	8·8	11·3	90	+12	2·4	+1·1	3·4	0	0	31	1	2	9	0	0	4	12	3	0	0
	1730	,,	1016·3	1001·7	..	19·8	14·9	10·5	12·7	58	..	2·7	..	4·4	0	0	31	6	3	3	1	0	0	13	5	0	0
Kanpur (Aerodrome)	0530	126	1016·8	1001·7	..	10·2	9·2	8·2	10·9	88	.	1·5	..	5·0	0	1	14	1	2	0	2	0	1	7	2	16	0
	0830	,,	1018·4	1003·5	..	12·2	10·7	9·1	11·5	83	..	2·4	..	8·0	0	2	20	2	3	4	0	0	2	8	3	9	0
	1130	,,	1018·5	1003·9	..	19·2	14·0	9·0	11·5	54	..	2·6	.	10·9	0	2	26	3	3	3	5	1	0	6	7	3	0
	1730	,,	1015·4	1000·8	..	19·6	14·5	9·6	11·9	55	..	3·0	..	7·3	0	0	25	4	2	4	1	0	0	6	8	6	0
	2330	,,	1017·2	1002·2	..	13·0	11·3	9·5	11·9	80	..	1·8	..	5·7	0	0	19	1	1	1	1	1	0	7	7	12	0
Sultanpur	0830	97	1018·8	1007·2	..	13·3	11·4	9·5	11·9	79	..	2·0	..	2·0	0	0	16	2	1	1	0	0	5	2	5	15	0
	1730	,,	1014·9	1003·6	..	20·8	15·5	10·3	12·5	53	..	2·7	..	2·1	0	0	18	4	1	1	0	0	1	0	11	13	0
Azamgarh	0830	78	1018·3	1008·9	..	12·1	11·2	10·2	14·1	89	..	1·3	..	..	0	0	31	0	1	6	0	0	0	24	0	0	0
	1730	,,	1014·9	1005·9	..	19·3	16·4	14·3	16·3	73	..	1·5	..	..	0	0	9	0	0	1	0	0	0	7	1	22	0
Fatehpur	0830	114	1019·0	1005·3	..	12·3	11·0	9·7	12·0	84	+15	2·1	+0·2	2·3	0	0	15	2	1	3	0	0	3	3	3	16	0
	1730	,,	1015·6	1002·3	..	19·6	14·8	10·6	12·8	58	..	2·5	..	1·8	0	0	13	1	1	3	1	0	0	2	5	18	0
Ballia	0830	64	1018·8	1011·2	..	13·6	11·8	10·0	12·3	79	..	1·4	..	2·1	0	0	15	0	4	1	0	0	1	8	1	16	0
	1730	,,	1015·3	1007·9	..	21·3	16·1	12·2	14·2	57	..	1·9	..	1·0	0	0	7	0	1	1	0	0	1	3	1	24	0
Banda	0830	121	1019·5	1005·1	..	14·6	13·0	11·6	13·7	83	..	2·2	..	1·8	0	0	17	0	2	2	4	0	3	4	2	14	0
	1730	,,	1015·8	1001·7	..	20·7	16·6	13·8	15·8	68	..	2·7	..	1·6	0	0	16	0	6	0	1	0	2	0	7	15	0
Allahabad (Bamhrauli)	0230	98	1016·5	1004·8	..	11·9	10·8	9·6	11·9	87	..	2·0	..	1·5	0	0	13	1	3	2	0	1	2	4	0	18	0
	0530	,,	1016·8	1005·0	..	10·6	9·9	9·1	11·6	90	..	1·5	..	1·9	0	0	14	0	4	0	1	1	3	4	1	17	0
	0830	,,	1019·0	1007·2	+0·8	13·2	11·4	9·6	11·9	79	−1	2·4	+0·1	3·5	0	0	22	2	0	6	0	4	1	7	2	9	0
	1130	,,	1018·5	1007·1	..	21·0	14·9	9·3	11·7	50	..	2·7	..	6·0	0	0	29	3	1	4	2	4	1	11	3	2	0
	1730	,,	1015·4	1004·1	..	20·5	15·4	11·5	13·6	57	..	2·9	..	2·4	0	0	14	3	3	3	0	0	0	2	3	17	0
	2330	,,	1017·2	1005·5	..	13·2	11·9	10·3	12·5	83	..	1·8	..	1·5	0	0	12	0	2	2	0	2	1	2	3	19	0
Varanasi (Babatpur)	0530	85	1017·8	1007·3	.	9·9	9·1	8·4	11·0	90	..	1·8	..	5·0	0	0	20	2	1	2	2	1	8	2	2	11	0
	0830	,,	1019·9	1009·6	+1·5	13·1	11·7	10·2	12·4	83	+5	2·1	−0·2	6·6	0	0	25	2	1	4	1	0	12	4	1	6	0
	1130	,,	1019·2	1009·1	..	20·6	15·0	10·2	12·4	51	..	2·1	..	8·6	0	1	27	2	1	3	5	1	5	7	3	3	1
	1730	,,	1016·3	1006·2	..	19·9	15·2	10·7	12·9	57	..	2·6	..	6·5	0	0	28	1	1	4	1	1	2	10	8	3	0
	2330	,,	1018·1	1007·7	..	12·9	11·4	9·8	12·1	82	..	2·1	..	5·1	0	0	26	1	0	2	1	1	2	8	5	11	0
Varanasi	0830	76	1018·6	1009·4	−0·6	14·1	12·2	10·4	12·6	80	+2	2·0	+0·4	3·9	0	0	22	1	3	2	1	1	4	10	0	9	0
	1730	,,	1015·8	1006·9	.	21·2	16·3	12·1	14·1	57	..	2·8	..	2·4	0	0	22	2	5	1	0	0	0	13	1	9	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	1018·0	938·1	.	8·1	7·1	6·0	9·3	87	..	2·7	..	1·2	0	0	12	2	7	0	0	1	1	1	0	19	0
	0830	,,	1018·8	939·5	+1·3	10·2	8·4	6·6	9·7	79	+6	2·7	−0·7	1·2	0	0	12	3	5	0	1	0	0	2	1	19	0
	1130	,,	1018·3	940·3		16·3	11·5	6·9	9·9	56	..	3·2	..	2·3	0	0	20	1	3	0	2	4	5	5	0	11	0
	1730	,,	1015·4	937·7	.	15·6	11·8	9·0	11·5	64	..	3·2	..	1·4	0	0	13	0	0	1	0	2	1	7	2	18	0
	2330	,,	1018·4	939·0		10·1	8·9	7·7	10·5	85	..	2·5	..	2·5	0	0	18	7	6	0	0	1	1	2	1	13	0
Roorkee	0830	274	1019·7	986·8	+1·6	9·9	9·0	8·0	10·7	88	+5	3·3	+0·7	1·7	0	0	18	0	0	0	7	0	0	0	11	13	0
	1730	,,	1015·7	983·8		18·3	13·5	9·2	11·6	57	..	3·5	..	2·0	0	0	21	0	0	0	6	0	0	0	15	10	0
Najibad	0830	270	1019·2	986·8	..	9·1	8·5	7·5	10·4	90	..	1·2	..	2·0	0	0	16	1	4	2	2	0	0	2	5	15	0
	1730	,,	1016·7	985·4	..	19·3	14·5	10·2	12·4	58	..	1·6	..	2·2	0	0	14	0	2	1	6	0	1	0	4	17	0
Meerut	0830	222	1020·2	993·5	+2·6	10·6	9·0	7·0	10·4	80	+3	1·3	−1·2	3·3	0	0	22	1	3	2	1	0	0	6	9	9	0
Barilly	0830	173	1018·9	998·1	−1·2	11·8	10·6	9·3	11·7	85	+4	2·5	+0·2	3·4	0	0	23	2	2	6	2	0	1	9	1	8	0
	1730	,,	1015·0	994·8	..	18·7	15·2	12·4	14·4	68	..	3·2	..	0·9	0	0	7	1	0	3	0	1	0	2	0	24	0
Bareilly (P.B.O.)	0230	172	1016·5	996·1	..	12·7	11·1	9·8	12·1	83	..	1·8	..	3·9	0	0	18	1	3	5	0	0	0	6	3	13	0
	0530	,,	1016·5	995·9	..	11·3	10·3	9·0	11·5	86	..	1·8	..	2·8	0	0	16	0	4	5	0	0	0	3	4	15	0
	1130	,,	1018·6	998·3	..	17·1	13·3	10·4	12·6	66	..	2·7	..	6.7	0	0	30	2	3	6	7	1	0	5	6	1	0
	2330	,,	1017·2	996·8	..	13·8	11·9	10·4	12·6	79	..	2·1	..	3.8	0	0	19	0	2	4	1	0	0	7	5	12	0
Aligarh	0830	187	1019·0	996·4	..	10·0	8·8	7·5	10·4	84	+20	3·0	+1·5	2·5	0	0	24	0	0	7	0	1	0	14	2	7	0
	1730	,,	1015·7	994·0	..	18·9	15·1	12·0	14·0	65	..	3·4	..	2·5	0	0	20	5	0	4	0	1	0	9	1	11	0
Mainpuri	0830	157	1018·1	999·2	−0·1	11·0	10·0	8·9	11.4	88	+15	1·9	−0.3	2·1	0	0	22	0	0	5	2	0	3	7	5	9	0
	1730	,,	1015·6	997.2	..	18·9	15·5	12·9	14·9	69	..	2·1	..	2·1	0	0	22	1	0	2	1	0	5	8	5	9	0
Agra	0830	169	1019·4	999·1	+1·0	11·1	9·4	7·6	10·4	79	+15	2·9	+0·7	1·7	0	0	14	0	2	0	1	1	1	7	2	17	0
	1730	,,	1016·2	996·6	..	19·1	14·0	9·3	11·7	56	..	2·3	..	1·6	0	0	12	0	0	1	0	0	0	10	1	19	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) — *Contd.*																											
Agra (Aerodrome)	0530	169	1017·7	997·0	..	8·3	7.7	7·0	10·0	88	..	2·1	..	..	0	0	6	1	0	2	2	0	0	0	1	25	0
	0830	„	1019·4	998·8	..	9·4	8.7	7·6	10·4	87	..	3·3	..	..	0	0	15	1	0	3	3	0	1	4	3	16	0
	1130	„	1019·4	999 3	..	17·7	13.3	8·9	11·4	59	..	3·3	..	..	0	1	21	2	1	2	3	0	2	1	11	9	0
	1730	„	1016·1	995·9	..	18·6	13.8	9·2	11·6	58	..	3·1	..	..	0	0	19	2	2	3	2	0	0	1	9	12	0
	2330	„	1018·2	997·8	..	11·1	9.9	8·7	11·2	86	..	1·9	..	..	0	0	10	1	0	2	3	0	0	1	3	21	0
Orai	0830	141	1020·8	1004 1	..	14.7	12.4	10·0	12·5	75	..	2·1	..	3.0	0	0	29	1	3	2	1	0	4	1	17	2	0
	1730	„	1016·8	1000·3	..	20·0	15.0	10·7	12·9	58	..	1·7	..	3.5	0	0	31	4	0	1	0	1	3	2	20	0	0
Jhansi	0830	251	1018·4	988·9	0	14·7	11.8	8·0	10·7	67	+5	2·3	+0.6	1.3	0	0	12	4	0	3	1	1	1	2	0	19	0
	1730	„	1015·7	987·0	..	20·2	14.3	8 7	11·2	51	..	3·0	..	1.7	0	0	17	5	1	3	1	2	0	1	4	14	0
Punjab (India) Including Delhi																											
Pathankot	0830	312	1018·9	981.7	+0·9	9·5	8.2	6 4	9·6	82	−2	4·3	+0·4	4.0	0	2	19	0	4	9	3	1	1	3	0	10	0
	1130	„	1019·5	983 0	..	15·4	11.2	6·7	9·8	58	..	4·2	..	5·1	0	2	23	3	4	1	4	1	10	1	1	6	0
	1730	„	1016·1	979·9	..	17·0	11·8	6 6	9 7	52	..	4·1	..	5·1	0	1	26	2	5	2	1	0	2	10	5	4	0
Amritsar (Rajasansi)	0530	234	1017·9	989 4	..	6 6	5·9	5·0	8 7	90	..	2 2	.	5 5	0	1	22	3	2	3	1	1	4	3	6	8	0
	0830	„	1019·4	990 9	+0.9	6 5	5 8	4 9	6·7	90	−1	2 8	−0·4	4·9	0	1	22	2	2	3	2	2	2	5	5	8	0
	1130	„	1019 6	992.0	..	15 5	11 4	6·9	9 9	59	..	2 6	..	9·6	0	3	26	4	1	6	4	1	1	3	9	2	0
	1730	„	1016·5	989 2	..	17·3	12·4	7 4	10·3	54	..	2 4	..	8·4	0	1	28	3	2	3	1	1	1	5	13	2	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	„																									
(R)	1130	„																									
(R)	1730	„																									
(R)	2330	„																									
Ludhiana	0830	247	1018·9	989·1	+0·5	8 8	7·9	6·7	9·8	87	+8	3·5	+0·8	4·6	0	0	28	0	1	3	3	5	0	8	8	3	0
	1730	„	1016 3	987 5	..	17·5	12·8	8·7	11·2	55	..	2·9	..	5·1	0	0	29	3	2	1	2	0	0	7	14	2	0
Ferozepur	0830	200	1019·1	994·3	..	7·3	6·5	5·4	9 0	89	..	2·2	..	1·7	0	0	6	1	0	0	1	1	0	1	2	25	0
	1730	„	1016·2	992·7	..	18·2	12·9	7.7	10·5	52	..	2·1	..	1·4	0	0	15	2	2	0	0	0	0	0	11	16	0
Halwara (Aerodrome)	0830	242	1019·3	990·0	..	7·6	6·9	6·1	9·4	87	..	3·5	..	..	0	0	25	2	2	5	2	1	0	3	10	6	0
	1730	„	1016·6	988 4	..	16.7	12·2	7·3	10·2	54	..	3·3	..	..	0	2	27	3	0	3	0	2	0	6	15	2	0
Chandigarh	0830	347	1018·1	977·1	+1·0	12·1	9 8	7·5	10·4	74	−4	2 6	+0·5	..	0	0	8	0	2	1	1	0	0	0	4	23	0
	1730	„	1015 2	975·2	..	18·0	12 5	7·1	10·1	50	.	2 8	..	..	0	0	19	0	0	0	5	0	6	2	6	12	0
Ambala	0830	272	1018 8	986·3	+0·9	9·8	8·6	7·1	10·0	84	+9	2·2	−0 6	2·5	0	0	16	0	0	0	4	0	2	0	10	15	0
	1730	„	1016 0	984·5	..	17·3	12·9	8.6	11·2	57	..	1·9	..	1.2	0	0	12	0	0	0	11	0	0	0	1	19	0
Ambala (P.B.O.)	0230	278	1017·1	984 0	.	10·9	9 2	7·6	10·4	81	..	1·9	..	5.6	0	0	25	3	2	2	5	0	2	3	8	6	0
	0530	„	1017·0	983·7	..	9·8	8·5	7·3	10·2	85	..	2·2	..	4.7	0	0	21	1	2	2	5	1	1	3	6	10	0
	1130	„	1018 3	986·3	..	16·6	12·4	8·8	11·3	61	..	2·7	..	7.9	0	2	26	1	1	0	11	1	0	6	8	3	0
	2330	„	1017.4	984·4	..	12·5	10·3	8·3	10·9	76	..	2·5	..	6·7	0	1	23	2	1	2	4	1	0	5	9	7	0
Ambala (Aerodrome)	0530	274	1017·1	984·1	..	8·1	7·3	6·4	9·6	89	..	2·1	.	..	0	1	11	1	0	3	2	0	0	1	5	19	0
	0830	„	1018·6	985·7	..	9·0	8·1	7·2	10·1	88	..	3·6	..	..	0	2	16	0	1	4	3	0	1	1	8	13	0
	1130	„	1018·6	986·7	0	16·5	12 3	8·0	10·7	58	..	2.8	..	..	0	5	22	1	1	4	9	0	0	1	11	4	0
	1730	„	1015·5	983·6	..	17·7	12·7	7·5	10·3	53	..	3·0	..	..	0	2	23	1	0	3	5	0	0	6	10	6	0
	2330	„	1017·7	985·0	..	11·0	9.5	7.5	10·4	82	..	2·4	..	..	0	1	13	0	0	3	2	1	0	2	6	17	0
Patiala	0830	251	1019.2	989·0	..	10·4	8.7	6·6	9·7	78	..	3.4	..	4.7	0	0	20	0	0	0	8	0	0	0	12	11	0
	1730	„	1016·4	987·2	..	17·4	12·3	6·7	9.8	52	..	3·1	..	3·1	0	0	12	2	0	0	2	0	0	0	8	19	0
Bhatinda	0830	211	1019 6	994·3	..	11·0	9 3	7·8	10·6	81	..	2·6	..	4·0	0	0	23	4	2	1	5	0	1	1	9	8	0
	1730	„	1016 1	991.6	..	19·0	14·3	10·3	12·5	59	..	2 0	..	4·7	0	0	28	3	2	1	2	2	1	1	16	3	0
Karnal	0830	249	1018·9	989·2	..	11·6	9·7	7·7	10·5	77	..	1·4	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	1016·0	987 0	..	17·6	12·6	7·6	10·4	55	..	0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1017.9	991·1	..	8·2	7·8	7·3	10·2	94	..	1·9	..	5·6	0	0	29	0	0	2	8	1	5	5	8	2	0
	0830	„	1019·3	99[illegible]·	+0·4	8·7	7 9	6·9	9.9	89	+20	3·0	+0·8	4·8	0	0	26	0	0	5	4	1	6	6	4	5	0
	1130	„	1019·5	98[illegible]·	..	17·3	13·6	10·3	12.5	65	..	2·7	..	5·9	0	0	30	2	0	2	8	2	4	5	7	1	0
	1730	„	1016·3	990·	..	18 8	15·1	12·1	14 1	66	..	3·0	..	5·3	0	0	27	3	2	1	5	0	4	9	3	4	0
	2330	„	1018 3	991·8	..	10·8	9·9	8·9	11·4	88	..	1·8	..	5·3	0	0	29	2	3	1	4	0	2	9	8	2	0
New Delhi (Safdarjung)	02330	216	1017·5	991·6	..	10 5	9·0	7·2	10 1	80	..	1·7	..	6·1	0	0	28	1	0	4	3	1	2	7	10	3	0
	0530	„	1017 4	991·3	..	9 3	8·0	6 5	9.7	83	..	1 6	..	7·5	0	0	29	1	2	4	4	1	0	8	9	2	0
	0830	„	1019 1	993·1	+0·8	10·0	8·5	6·6	9.7	80	+4	3 1	−0·2	9 1	0	0	29	0	0	4	6	0	0	11	8	2	0
	1130	„	1019·2	993·8	..	18 0	12·7	7·3	10.2	52	..	2·8	..	14·4	0	4	25	3	0	4	4	2	2	4	10	2	0
	1730	„	1016·0	990·8	..	19·0	13·3	7·7	10.5	51	..	2·5	..	9·8	0	1	29	4	2	3	3	1	1	2	14	1	0
	2330	„	1017·9	992·1	..	11·8	9·8	7·4	10.3	76	..	2·0	..	7·9	0	0	28	0	0	4	5	0	1	4	14	3	0

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) —*Contd.*																											
Palam (Aerodrome)	0230	233	1017·6	989·6	..	9·3	8·1	6·1	9·4	78	..	1·9	..	..	0	0	20	0	2	5	2	0	5	4	2	11	0
	0530	,,	1017·5	989·3	..	7·8	7·3	6·0	9·3	80	..	2·3	..	..	0	1	23	1	0	5	2	3	9	2	2	7	0
	0830	,,	1019·2	991·2	..	9·2	8·2	6·8	9·8	86	..	3·3	..	..	0	0	28	0	1	6	4	3	10	3	1	3	0
	1130	,,	1019·2	992·1	..	18·0	13·2	8·9	11·3	59	..	2·9	..	..	0	5	26	1	1	4	5	0	5	11	4	0	0
	1430	,,	1016·6	989·3	..	20·2	14·2	8·5	11·1	50	..	2·8	..	..	0	6	25	2	1	3	4	0	1	8	12	0	0
	1730	,,	1016·3	988·9	..	18·3	13·8	9·6	11·9	69	..	2·4	..	..	0	2	28	1	3	5	1	1	0	10	9	1	0
	2030	,,	1017·5	989·9	..	13·1	10·8	8·6	11·2	76	..	1·8	..	..	0	1	21	1	1	5	1	1	4	6	3	9	0
	2330	,,	1017·9	990·4	..	19·9	9·5	7·9	10·7	82	..	2·0	..	..	0	0	17	1	0	5	2	1	4	3	1	14	0
Himachal Pradesh																											
Mandi	0830	761	1020·9	931·3	+0·4	5·4	5·3	4·9	8·7	95	0	(c) 5·1	+0·2	0·2	0	0	2	0	0	0	1	0	0	1	0	29	0
	1730	,,	1015·3	929·0	..	14·5	10·6	6·1	9·3	56	..	(a) 4·4	..	(a) 0	0	0	1	0	0	0	0	1	0	0	0	29	0
Bilaspur	0830	493	1021·0	962·4	..	7·5	7·0	6·5	9·7	93	.	(a) 5·9	..	..	0	0	2	0	0	1	1	0	0	0	0	28	0
	1730	,,	1015·9	959·3	..	16·1	11·7	7·5	10·4	58	..	3·7	..	..	0	0	4	0	0	0	0	1	0	1	2	27	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3112·2	664·9	..	—12·9	—14·5	—21·9	0·9	49	..	(b) 4·2	..	4·3	0	0	22	2	15	2	0	1	1	1	0	9	0
	0830	..	3125·5	665·5	+1·1	—11·2	—12·7	—20·0	1·0	48	—11	5·9	+0·5	3·4	0	0	18	1	8	0	0	5	3	1	0	13	0
	1730	,,	3101·9	664·3	..	—7·3	—9·6	—16·8	1·4	48	..	5·0	..	3·6	0	0	19	0	1	0	0	3	14	1	0	12	0
Srinagar	0830	1587	1545·6	845·8	+0·5	—1·0	—1·2	—1·9	5·2	96	+10	5·7	—0·9	2·2	0	0	21	4	0	4	8	1	1	1	2	10	0
	1130	,,	1552·9	846·7	..	3·4	1·8	—0·9	5·7	76	..	5·1	..	2·1	0	0	19	3	0	1	5	4	1	2	3	12	0
	1730	,,	1527·1	844·2	..	5·0	2·9	0·9	6·5	72	..	5·3	..	1·9	0	0	14	0	0	2	6	2	0	0	4	17	0
Srinagar (Aerodrome)	0530	1666	1528·9	836·2	..	—0·9	—1·3	—2·1	5·1	91	..	(c) 5·0	..	..	0	0	12	1	0	7	1	2	0	0	1	19	0
	0830	,,	1539·3	837·3	..	—0·8	—1·2	—1·9	5·2	96	..	(c) 5·4	..	..	0	0	21	0	0	5	5	4	0	5	2	10	0
	1130	,,	1548·7	838·4	..	3·0	1·4	—0·8	5·7	77	.	(c) 4·8	..	..	0	0	23	6	0	5	3	1	0	2	6	8	0
	1730	,,	1525·4	836·1	..	4·3	2·1	—0·8	5·7	71	..	(b) 5·2	..	..	0	2	17	1	1	5	1	2	1	3	5	12	0
	2330	,,	1537·2	837·1	..	0·3	—0·6	—2·0	5·2	85	..	(a) 4·1	..	..	0	0	21	1	2	6	1	0	2	6	3	10	0
Gulmarg	0830	2655	Closed during winter months.																								
	1730	,,																									
Jammu*	0830	..																									
Jammu (Aerodrome)	0530	292	1017·5	982·3	..	9·4	7·8	5·8	9·2	79	..	4·2	..	..	0	0	7	1	2	0	1	0	1	2	0	24	0
	0830	,,	1018·9	983·8	..	9·9	8·1	5·9	9·3	77	..	4·3	..	..	0	2	21	3	11	4	2	1	0	2	0	8	0
	1130	,,	1019·6	985·1	..	15·1	10·9	6·3	9·5	58	..	3·8	..	..	0	2	25	2	5	5	4	5	2	2	2	4	0
	1730	,,	1016·7	982·4	..	16·5	11·5	6·4	9·6	52	..	4·1	..	..	0	0	27	3	4	1	1	0	5	12	1	4	0
Rajasthan (West)																											
Sriganganagar	0530	177	1017·7	996·3	..	8·5	7·2	5·4	9·0	81	..	1·8	..	2·1	0	0	19	5	5	3	1	0	0	2	3	12	0
	0830	,,	1019·2	997·7	+0·7	8·3	6·8	4·9	8·7	80	+5	2·6	—0·6	1·9	0	0	17	3	4	4	1	0	1	0	4	14	0
	1130	,,	1019·7	998·9	..	16·6	11·7	6·4	9·6	53	.	2·0	..	3·3	0	0	28	4	2	4	5	1	5	2	5	3	0
	1730	,,	1016·2	995·6	..	19·6	13·2	6·7	9·8	45	..	2·3	..	1·8	0	0	14	3	1	2	0	0	1	1	6	17	0
	2330	,,	1018·2	997·0	..	11·3	9·0	6·2	9·5	72	.	1·0	..	1·1	0	0	11	1	2	2	0	1	0	1	4	20	0
Churu	0830	291	1019·7	984·5	..	8·3	6·5	4·1	8·2	76	..	3·3	..	3·4	0	0	25	2	1	5	4	4	2	5	2	6	0
	1730	,,	1015·6	982·1	..	20·7	13·3	5·7	9·1	41	..	2·4	..	8·0	0	2	27	20	0	0	2	1	1	3	2	2	0
Bikaner	0830	224	1019·3	992·1	+0·5	8·9	7·8	6·1	9·5	83	+18	2·3	+0·1	1·3	0	0	12	0	0	0	8	2	2	0	0	19	0
	1730	,,	1015·8	989·9	..	20·8	16·3	12·7	14·6	63	..	1·7	..	4·8	0	1	27	6	6	2	2	0	1	0	11	3	0
Bikaner (P.B.O.)	0530	224	1017·6	990·4	..	7·5	6·5	5·1	8·9	86	.	1·7	.	1·1	0	0	7	3	0	0	1	1	0	0	2	24	0
	1130	,,	1019·2	993·0	..	18·1	13·3	8·9	11·4	58	.	2·7	..	4·5	0	0	24	6	5	0	4	5	2	2	0	7	0
	2330	,,	1018·0	991·2	..	10·9	9·1	7·0	10·1	79	..	1·2	..	1·5	0	0	10	3	2	1	0	0	0	0	4	21	0
Nagaur	0830	298	1019·0	983·7	..	13·0	8·7	2·9	7·5	55	..	3·6	..	4·6	0	0	30	4	5	6	8	3	1	0	3	1	0
	1730	,,	1014·6	980·4	..	21·2	12·1	0·3	6.2	29	..	2·1	..	6·0	0	0	29	8	6	2	2	0	0	2	9	2	0
Phalodi	0830	234	1019·2	991·0	..	9·7	7·8	5·3	8·9	76	..	2·8	..	5·7	0	0	23	3	4	1	6	6	0	1	2	8	0
	1730	,,	1016·2	989·2	..	21·4	15·6	10·0	12·3	53	..	3·0	..	8·1	0	0	24	5	5	0	3	2	2	1	6	7	0
Jaisalmer	0830	242	1018·6	989·5	..	9·2	6·4	2·9	7·5	65	..	2·5	..	5·0	0	0	15	7	4	1	0	1	1	1	0	16	0
	1730	,,	1014·7	987·1	..	22·3	14·3	7·2	10·1	37	..	2·8	..	14·3	0	6	21	10	6	1	0	1	2	2	5	4	0
Jodhpur	0230	224	1017·1	990·5	..	13·2	8·7	2·9	7·5	53	..	1·2	..	11.3	0	2	28	12	18	0	0	0	0	0	0	1	0
	0530	,,	1017·0	990·2	..	11·7	7·9	2·9	7·5	58	..	1·0	..	10·0	0	0	31	8	22	0	1	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (R) Register not received. * Temporarily closed. (c) Mean of 26 days. (c) Mean of 28 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY 1961 (PAUSA 11,—MAGHA 11, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —*Contd.*																											
Jodhpur—*Contd.*	0830	224	1018·8	991·9	+2·0	11·5	7·7	2·6	7·4	58	+11	3·8	+1·4	9·4	0	1	28	8	20	0	1	0	0	0	0	2	0
	1130	,,	1018·8	992·6	..	19·2	12·0	3·4	7·8	41	..	3·5	..	8·7	0	2	23	2	11	6	4	1	1	0	0	6	0
	1730	,,	1014·9	989·1	..	23·0	13·5	2·8	7·5	30	..	2·7	..	9·0	0	1	27	4	14	2	0	0	2	2	4	3	0
	2330	,,	1017·3	990·9	..	15·7	10·0	2·9	7·5	45	..	1·5	..	11·6	0	1	29	11	15	1	0	0	0	0	3	1	0
Barmer	0530	194	1016·2	993·0	..	12·4	7·8	1.2	6·7	50	..	1·1	..	5·8	0	0	29	6	0	0	0	0	1	0	22	2	0
	0830	,,	1018·0	994·8	+0·4	12·2	8·1	2.3	7·2	56	+5	2·7	+0·6	4.9	0	0	29	3	1	0	0	1	0	1	23	2	0
	1130	,,	1018·2	995·5	..	19·7	11·8	2 5	7·3	35	..	2·5	..	6.8	0	0	26	4	14	0	1	1	1	1	4	5	0
	1730	,,	1014·1	991·9	..	23·7	13·1	0·4	6 3	23	..	1·9	..	7 6	0	0	30	8	11	0	2	1	1	0	7	1	0
	2330	,,	1016·7	993 8	..	15·7	9·4	0·9	6·5	39	..	1·0	..	6 0	0	0	28	4	0	0	0	0	1	1	22	3	0
Munabao	0830	80	1020 1	1010·4	..	9.7	7·0	3·2	7·7	64	..	9.0	..	..	0	0	27	7	19	0	0	0	1	0	0	4	0
	1730	,,	1016·0	1006·8	..	24·3	17·1	10·9	13 0	44	..	1·1	..	..	0	0	30	15	9	0	0	0	5	0	1	1	0
Rajasthan (East)																											
Pilani	0830	301	1020·1	984·8	..	10 3	7·7	3·8	8 0	67	..	1 4	..	8·8	0	0	29	3	3	11	5	0	2	3	2	2	0
	1730	,,	1016 2	982·0	..	19·4	12·1	3·6	7 9	38	..	1·6	..	10·9	0	2	28	11	5	3	2	2	0	1	6	1	0
Sikar	0830	433	1019·7	969·0	..	12·9	9·9	6·8	9 9	68	..	3·2	..	2.0	0	0	21	0	2	11	2	3	1	2	0	10	0
	1730	,,	1015.8	966·3	..	19·4	13·3	7·5	10·4	49	..	2·9	..	1·7	0	0	17	5	3	3	1	2	0	2	1	14	0
Alwar	0830	271	1018·2	985·7	..	10·0	8·6	7·1	10·1	82	..	3·0	..	0·1	0	0	1	0	0	1	0	0	0	0	0	30	0
	1730	,,	1015·4	984·1	..	19 8	13·1	6·0	9·3	44	..	2.5	..	1·9	0	0	20	4	8	3	3	0	0	0	2	11	0
Jajpur (Sanganer)	0230	390	1017·1	970·9	..	10·8	8·5	5·7	9 1	73	..	1·4	..	..	0	0	24	6	7	8	2	0	0	0	1	7	0
	0530	,,	1017·3	971·0	..	9·6	7·7	5·4	9 0	77	..	1·5	..	..	0	0	21	3	4	10	2	1	0	0	1	10	0
	0830	,,	1018·9	972·7	+0 2	11·3	9·0	6·2	9.5	74	+18	2·9	+0·7	..	0	1	19	4	2	10	2	1	0	0	1	11	0
	1130	,,	1018·3	973·3	..	18·6	13·0	7·3	10·2	51	..	3·2	..	..	0	0	26	2	1	10	7	2	2	0	2	5	0
	1730	,,	1014·9	970·2	..	19·7	13·5	7 0	10·0	48	..	3·1	..	..	0	0	23	5	1	3	5	2	0	2	5	8	0
	2330	,,	1017·4	971·5	..	12·5	9·5	6 0	9 3	67	..	1·9	..	..	0	1	21	6	6	7	3	0	0	0	0	9	0
Dholpur	0830	176	1018·7	997·6	..	11·4	9·8	7·9	10·7	80	..	3·3	..	1·7	0	0	11	1	1	0	3	0	0	3	3	20	0
	1730	,,	1015·3	994·8	..	19·1	14·1	9·4	11·8	56	..	(a) 3·3	..	(a) 1·2	0	0	11	3	3	1	1	0	0	0	3	19	0
Ajmer	0830	486	1019·7	962·2	+0·3	9·3	6·6	3·3	7 7	67	+11	2·8	+0·9	3·6	0	0	23	3	6	1	1	2	1	3	6	8	0
	1730	,,	1014·2	959·3	..	21·1	11·7	1·3	6 7	30	..	3·0	..	8.1	0	0	28	5	9	0	3	3	3	2	3	3	0
Tonk	0830	272	1018·4	985·9	..	9 9	7·7	4 6	8 5	73	..	2·9	..	3 4	0	0	28	3	0	2	5	2	1	6	9	3	0
	1730	,,	1014·0	982·7	..	20·8	13·3	4 9	8·7	39	..	2·7	..	6·7	0	0	31	7	4	4	3	0	1	4	8	0	0
Kota	0530	257	1017·1	986·5	..	11 2	8·8	5·9	9 3	70	..	0 6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1018·7	988·4	+0·4	14·2	10·4	6.3	9 5	59	+2	2·4	+0·6	0·2	0	0	1	0	0	0	0	0	0	1	0	30	0
	1130	,,	1018·4	988·7	..	20·3	13·6	6 9	10·7	44	..	2·6	..	0·4	0	0	4	0	1	0	2	0	0	0	1	27	0
	1730	,,	1015·2	985·7	..	21·7	14 3	6·7	9 8	40	..	1·9	..	0·6	0	0	5	0	0	0	1	0	0	0	4	26	0
	2330	,,	1017·1	986 9	..	14·8	11·0	6·7	9·8	60	..	1·0	..	0·2	0	0	1	0	0	0	0	0	0	0	1	30	0
Erinpura (Jawai Dam)	0830	295	1018.6	983·4	..	10·7	8·7	6·4	9·6	76	..	3·4	..	4·1	0	0	22	1	1	2	4	12	0	2	0	9	0
	1730	,,	1014·4	980·8	..	23·3	15·9	9 5	11·8	44	..	2 7	..	5·4	0	0	21	9	5	0	0	1	0	3	3	10	0
Chambal (Rawat Bhata Dam)	0830	351	1019·3	977·8	..	12·4	9·0	4·7	8 5	61	..	3·0	..	1·1	0	0	11	3	0	0	3	0	0	0	5	20	0
	1730	"	1014·3	974·4	..	22·6	13·7	4·1	8·2	32	..	3·0	..	6·4	0	0	30	6	15	3	2	0	0	0	4	1	0
Udaipur	0230	582	1017·9	949·7	..	9·6	7·1	4·3	8 3	71	..	0·8	..	0	0	0	1	0	0	0	0	0	0	0	1	30	0
	0530	"	1018·3	949 7	..	7·8	6·0	3·9	8·1	76	..	0·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1019·4	951·4	+1·0	11·1	7·5	3 4	7·8	59	+5	2·4	+1·0	0.2	0	0	2	1	0	0	0	0	0	1	0	29	0
	1130	"	1017·6	951·8	..	20·0	11·7	3·0	7·6	35	..	2·3	..	2 3	0	0	15	1	2	8	1	0	1	1	1	16	0
	1730	,,	1013·7	948 4	..	22·0	12·6	3·6	7·9	31	..	2·6	..	3·2	0	0	16	1	4	3	3	0	1	3	1	15	0
	2330	,,	1018·1	950·3	..	11·3	3·3	5·1	8·8	66	..	1·3	..	0·5	0	0	3	0	0	2	0	0	0	1	0	28	0
Jhalawar	0830	321	1018·4	980 5	+0·3	12·7	9·6	6·1	9 4	64	+6	2·1	+0·4	1·1	0	0	10	3	1	1	1	0	0	1	3	21	0
Madhya Pradesh (West)																											
	1730	..	1013·8	977 5	..	23·7	14 3	4·2	8·2	30	..	2·3	..	4·3	0	0	29	5	17	1	1	0	2	2	1	2	0
Gwalior	0230	207	1017·2	992 4	..	10·2	9 0	7 8	10·6	86	..	2·1	..	3·1	0	1	13	2	0	3	6	0	2	0	1	17	0
	0530	,,	1017·3	992·4	..	9·2	8·2	7 1	10·1	87	..	2·4	..	3·1	0	0	19	4	0	2	8	2	2	0	1	12	0
	0830	"	1019·1	994 4	+0·9	11·9	10 0	7·8	10·7	77	+5	3·3	+0·8	3·3	0	1	16	2	1	1	6	2	3	0	2	14	0
	1130	"	1018·8	994 7	..	19·2	13·2	6 8	10.4	48	..	3 1	..	8·3	0	1	27	5	4	3	2	4	1	2	7	3	0
	1730	"	1015·7	991·7	..	19·7	14·0	8·5	10 5	52	..	3·3	..	4·7	0	0	26	9	7	0	2	2	1	1	4	5	0
	2330	"	1017·8	993·0	..	11·5	10·0	8·5	11 0	82	..	2·5	..	2·9	0	0	15	3	0	1	4	2	2	1	2	16	0
Sheopur	0830	235	1018·6	990·8	+0·9	11·1	9·1	6·7	10·1	75	+2	3·4	+1·0	1·9	0	0	12	5	2	1	0	1	1	0	2	19	0
	1730	"	1014·7	987·7	..	21·9	14·4	7·3	11 0	41	..	2·9	..	7·4	0	0	31	13	5	1	1	2	1	1	7	0	0
Shivpuri	0830	464	1018·7	964·5	..	13·4	11·2	8·7	11.5	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1014·6	961·7	..	20·0	16·8	14·4	16·6	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level, or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Nowgong	0830	229	1019·6	992·1	+1·0	10.6	9·5	8·4	11.0	87	+11	2·9	+0·7	2·0	0	0	20	1	2	2	1	5	7	1	1	11	0
	1730	"	1015·5	989·1	..	21·1	14·8	8·9	11.1	49	..	3.2	..	3·3	0	0	20	0	17	0	0	0	0	1	2	11	0
Guna	0530	478	1017·1	960·7	..	9·6	7·4	4·8	8·7	73	..	1·5	..	2·4	0	0	13	1	3	2	5	1	0	1	0	18	0
	0830	"	1018·6	963·0	+0·4	14·1	10·0	5·5	10.0	59	−3	3·1	+1·7	3·8	0	0	22	5	1	10	3	3	0	0	0	9	0
	1130	"	1017·4	963·0	..	20·5	12·8	4·9	9·3	42	..	3·6	..	5·4	0	0	27	1	4	11	6	2	0	2	1	4	0
	1730	"	1014·1	960·2	..	21·7	13·4	5·1	9·4	38	..	3·4	..	4·5	0	0	24	7	7	4	3	0	0	0	3	7	0
	2330	"	1017·5	961·6	..	12·6	9·0	4·9	8·9	62	..	1·5	..	1·9	0	0	17	3	1	6	5	0	0	0	2	14	0
Nimach.	0830	496	1019.1	961·1	+0.6	12·6	8·1	2·8	7·8	52	−3	2·5	+1.0	4·2	0	0	27	2	18	4	2	0	0	0	1	4	0
	1730	"	1014.1	958·5	..	23·1	12·5	1·3	6·9	25	..	2·8	..	7·6	0	0	29	6	16	1	0	0	1	3	2	2	0
Rajgarh	0830	382	1017·9	972.9	..	12·0	8·7	4.5	8·7	62	..	2·0	..	5·2	0	0	25	3	7	1	1	1	0	6	6	6	0
	1730	"	1012·7	969·7	..	24·5	14·5	4·3	9 0	29	..	2·8	..	6·4	0	0	28	4	8	1	0	2	0	8	5	3	0
Sagar	0830	551	1018.0	954·4	+0.4	14·7	10·3	5·7	9·1	58	+8	2·8	+1.0	9·3	0	0	30	0	11	15	4	0	0	0	0	1	0
	1730	"	1013·6	951·6	..	21·3	13·4	5·9	10·1	41	..	2·7	..	4.6	0	1	25	0	9	11	1	0	0	2	3	5	0
Ratlam	0830	486	1018·0	961·4	+0·7	13·9	9·5	5·2	8 6	55	−8	2·1	−0·1	8·8	0	1	21	2	12	6	0	0	1	1	0	9	0
	1730	"	1012·6	958·4	..	25 6	15·5	7·2	10·3	31	..	2·6	..	4·7	0	0	26	3	9	5	0	0	4	4	1	5	0
Bhopal (Bairagarh)	0230	523	1015·9	955·3	..	13·7	10·1	7·6	9·7	64	..	1.5	..	9·3	0	2	26	2	13	4	8	0	0	0	1	3	0
	0530	"	1016·5	955·6	..	12.5	9·6	6·5	9·9	69	..	1·7	..	8·9	0	1	30	3	16	4	7	0	1	0	0	0	0
	0830	"	1018·1	957·6	0	15·0	10·9	6·8	10·1	61	+10	2·9	+1·1	10·2	0	2	28	0	11	7	10	1	0	0	1	1	0
	1130	"	1016·7	957·6	..	21·4	14·0	7·1	10·6	45	..	2·2	..	11·6	0	3	27	1	9	5	11	2	0	1	1	1	0
	1730	"	1012·9	954·5	..	23·6	14·7	7·1	10 2	38	..	2·7	..	10·2	0	1	29	6	12	5	2	1	1	1	2	1	0
	2330	"	1016·0	956·1	..	15·7	11·1	6·4	9·9	56	..	1·6	..	9·8	0	3	26	4	13	8	4	0	0	0	0	2	0
Ujjain	0830	..	..	..	..	13·4	9·3	5·0	9·5	58	..	..	..	5·0	0	0	20	3	5	7	4	0	0	0	1	11	0
Hoshangabad	0830	302	1017·3	981·9	−0·6	15·8	11·8	7·6	10·6	60	+4	2·7	+1·0	4·3	0	0	24	0	2	20	1	1	0	0	0	7	0
	1730	"	1012·4	978·4	..	25·5	16·8	9·6	12·0	38	..	2·7	..	2·0	0	0	14	0	1	8	1	1	1	2	0	17	0
Indore	0530	567	1016·1	950.2	..	11·9	8·2	4·2	8·1	60	..	1·2	..	5.5	0	0	27	1	8	1	10	3	3	0	1	4	0
	0830	"	1017·7	952·2	+0·1	14·4	9·9	5·1	9·0	55	−5	1·9	+0·2	6·5	0	0	27	2	9	4	5	4	2	0	1	4	0
	1130	"	1015·7	952·2	..	23·4	14·0	5·7	9·1	33	..	1·5	..	12·2	0	3	27	4	4	6	6	5	2	1	0	1	2
	1730	"	1011·9	949·1	..	25·1	14·6	4·9	9·0	27	..	2·0	..	12·5	0	3	28	7	10	1	1	2	6	3	1	0	0
	2330	"	1016·4	951·1	..	14.8	9·8	4·4	8·5	51	..	1 0	.	9·9	0	0	30	0	17	4	3	0	2	0	4	1	0
Rajpur	0830	293	1017·6	983·1	..	14·9	10·4	5·2	9·1	53	..	2 0	..	2·4	0	0	14	0	2	8	3	1	0	0	0	17	0
	1730	"	1012·2	979·5	..	27.4	16·6	6·8	9·8	28	..	2.0		7 0	0	0	27	0	3	11	1	0	0	9	3	4	0
Chhindwara	0830	685	1017·7	939·6	+0·5	16·1	12·0	8·2	11·1	61	−6	2·2	+0·4	1.8	0	0	7	0	3	1	2	1	0	0	0	24	0
	1730	"	1011·7	936·2	..	24·5	15·4	7·7	10·9	36	..	3 2	..	3 5	0	0	19	3	4	2	0	5	2	1	2	12	0
Seoni	0830	619	1017.5	946·7	+0.3	15·9	12·7	10·0	12·6	69	+8	3·3	+1·7	2·1	0	0	15	4	6	2	3	0	0	0	0	16	0
	1730	"	1012·1	943·6	..	24·1	16·9	11·7	13·9	48	..	2·5	..	2·8	0	0	25	2	9	3	7	1	2	0	1	6	0
Betul	0830	653	1017·3	943·1	+0.6	17·1	12·5	8.3	10·9	56	−9	1·4	−0·7	3·3	0	0	23	0	2	13	7	1	0	0	0	8	0
	1730	"	1011·4	939·5	..	25.3	15·6	7·7	10.6	33	..	2.4	..	8 4	0	0	31	6	10	1	2	1	1	2	8	0	0
Khandwa	0830	318	1017·3	980·4	+0·5	17·4	12·3	6·9	10·4	51	−5	1·9	+0·5	3.1	0	0	25	1	10	7	1	2	1	1	2	6	0
	1730	"	1011·8	976·3	..	27.9	17·2	8·0	11·0	29	..	2·3	..	4.7	0	0	29	6	8	1	2	3	0	1	8	2	0
Madhya Pradesh (East)																											
Sutna	0530	317	1017·0	979.3	..	10.3	9·0	7.6	10.5	84	..	3·5	..	2.3	0	0	19	1	1	3	1	0	1	10	2	12	0
	0830		1018·9	981·6	+0·9	13·8	11·0	8·1	10 8	70	+2	3·2	+1·2	2.0	0	0	19	1	1	5	1	1	1	8	1	12	0
	1130	"	1017·7	981·2	..	20·2	13·8	7·3	10.6	46	..	3·7	..	6.8	0	0	30	3	8	4	1	0	2	3	9	1	0
	1730	"	1014 6	978 3	..	20 8	14·3	8·2	11.2	48	..	3·9	..	3.2	0	0	31	19	2	5	0	0	0	2	3	0	0
	2330	"	1017.0	979·7	..	13.5	10 8	8.0	11·1	71	..	3.5	..	4·2	0	0	19	0	0	5	0	1	3	9	1	12	0
Sidhi	0830	272	1018·3	986·2	.	13·3	11·5	9.8	12 0	80	..	1.2	..	0·6	0	0	6	0	0	1	0	0	5	0	0	25	0
	1730	"	1013·4	982·7	..	21.0	15·1	9 9	12 6	51	..	1 6	..	1·2	0	0	10	2	3	1	1	0	2	0	1	21	0
Umaria	0830	459	1018·4	964·8	..	14.0	11·4	8 9	11·8	73	+5	2.9	+0·4	2·2	0	0	16	1	0	3	9	2	0	0	1	15	0
	1730	"	1013 9	962 0	..	21.7	15·5	10·8	13·0	51	..	2·8	..	2·3	0	0	19	9	5	2	1	0	0	0	2	12	0
Jabalpur	0530	393	1016 7	970·4	..	11·5	10·4	9 1	11 7	86	..	2.1	..	1.3	0	0	11	3	3	2	2	0	0	0	1	20	0
	0830	.	1018·5	972·6	+0·9	14.2	11·7	9·0	11 8	72	+1	2·7	+0·9	2·5	0	0	14	2	3	1	7	0	0	1	0	17	0
	1130	"	1016·7	972 1	..	22 1	15.4	9·3	12·1	46	..	2·2	..	4 5	0	0	26	4	7	4	4	3	1	1	2	5	0
	1730	"	1013·3	969·0	.	22·9	16·4	10.9	13 4	49	..	2.5	..	3.6	0	0	26	6	16	1	2	1	0	0	0	5	0
	2330	.	1016·7	971·0	..	14·5	12·5	10·5	12·1	78	..	2·0	..	3.1	0	1	15	4	8	1	1	1	0	1	0	15	0
Ambikapur	0830	611	1019·1	948·4	+0 5	13·2	10·8	8 7	11 2	74	−3	1 8	+0 1	3.4	0	0	19	8	5	0	0	3	1	2	0	12	0
	1730	"	1013 5	945·2	..	21·6	14·2	7·9	11·1	43	..	2.0	..	8·3	0	0	30	20	4	0	1	3	1	0	1	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Pendra	0530	625	1016·8	944·7	..	12·3	9·9	7·4	11·3	73	..	1·5	..	4·7	0	0	27	13	0	0	0	2	3	2	7	4	0
	0830	,,	1018·4	946·7	+0·2	15·1	11·3	7·7	10·6	63	—3	2·7	+0·9	4·9	0	0	28	9	2	0	0	3	3	1	10	3	0
	1130	,,	1016·6	946·5	..	20·9	13·7	7·3	10·4	43	..	2·4	..	7·5	0	1	29	11	7	1	0	1	6	1	3	1	0
	1730	,,	1013·4	943·6	..	21·7	14·5	8·2	13·3	44	..	3·0	..	5·8	0	0	31	12	1	0	0	4	6	1	7	0	0
	2330	,,	1017·0	945·4	..	14·8	11·3	7·8	10·9	64	..	1·7	..	3·5	0	0	22	7	0	0	0	1	4	2	8	9	0
Mandla	0830	443	1018·7	967·1	+0·7	14·1	12·0	9·9	12·5	77	—8	2·1	—0·4	1·2	0	0	6	3	0	0	0	2	0	1	0	25	0
	1730	,,	1012·8	963·1	..	23·7	16·3	10·0	12·5	43	..	2·1	..	2·2	0	0	13	4	0	0	0	3	0	1	5	18	0
Champa	0830	245	1018·2	989·5	+0·8	16·8	13·3	10·1	12·6	65	—5	2·4	+0·7	2·9	0	0	21	18	1	0	2	0	0	0	0	10	0
	1730	,,	1013·6	935·8	..	25·3	17·2	10·6	13·1	41	..	2·0	..	1·7	0	0	16	7	1	4	0	1	0	1	2	15	0
Raigarh	0830	220	1017·5	991·3	—0·3	18·0	14·1	10·7	12·9	63	—2	2·5	+0·6	4·2	0	0	30	1	26	2	1	0	0	0	0	1	0
	1730	,,	1013·2	987·8	..	25·2	17·3	10·8	13·4	42	..	1·9	..	1·3	0	0	12	2	6	1	1	0	0	0	2	19	0
Raipur	0530	293	1015·8	980·9	..	15·3	12·9	10·7	12·9	75	..	1·5	..	1·5	0	0	11	1	5	2	2	0	0	0	1	20	0
	0830	,,	1017·9	983·2	+0·7	17·9	14·0	10·4	12·8	63	+1	2·3	+0·8	4·0	0	0	25	5	12	4	4	0	0	0	0	6	0
	1130	,,	1016·5	982·7	..	24·2	16·4	9·6	12·3	42	..	1·9	..	4·7	0	0	23	1	12	6	1	1	1	1	0	8	0
	1730	,,	1013·2	979·6	..	25·6	17·1	10·1	12·7	39	..	2·3	..	3·0	0	0	16	3	5	3	3	1	1	0	0	15	0
	2330	,,	1015·6	981·2	..	19·5	14·8	10·7	13·0	58	..	1·7	..	4·5	0	0	20	2	2	8	5	2	1	0	0	11	0
Kanker	0830	402	1017·3	971·1	+0·1	17·9	14·9	12·5	14·5	71	0	1·7	—0·1	0·3	0	0	3	0	2	0	1	0	0	0	0	28	0
	1730	,,	1012·2	967·5	..	26·7	18·4	12·1	14·1	42	..	1·5	..	1·6	0	0	17	1	12	1	0	0	2	0	1	14	0
Jagdalpur	0530	553	1015·8	952·1	..	13·9	12·8	11·9	14·0	88	..	1·6	..	0·9	0	0	4	3	0	1	0	0	0	0	0	27	0
	0830	,,	1017·4	954·3	+0·2	17·1	14·3	12·1	14·3	72	—6	2·7	+0·8	1·4	0	0	10	3	2	1	4	0	0	0	0	21	0
	1130	,,	1014·7	953·4	..	25·4	17·1	11·4	13·4	42	..	2·7	..	4·7	0	0	30	2	13	1	5	3	3	1	2	1	0
	1730	,,	1011·8	950·7	..	25·5	17·5	11·9	14·5	43	..	3·1	..	4·3	0	0	25	3	10	2	3	3	3	0	1	6	0
	2330	,,	1015·7	953·0	..	17·3	14·5	12·4	14·4	73	..	1·4	..	0·9	0	0	6	2	2	2	0	0	0	0	0	25	0
Gujarat Region																											
Deesa	0830	136	1018·0	1001·6	+0·8	12·6	8·2	2·4	7·3	51	..	2·1	..	3·7	0	0	29	6	20	2	1	0	0	0	0	2	0
	1730	,,	1014·1	998·6	..	25·7	14·3	2·2	7·2	23	..	2·1	..	4·1	0	0	29	7	10	0	0	0	0	4	8	2	0
Radhanpur	0830	30	1017·4	1013·7	..	13·6	10·0	6·0	9·3	61	..	1·6	..	7·0	0	1	26	19	4	3	0	0	0	0	1	4	0
	1730	,,	1014·0	1010·6	..	26·3	16·7	8·5	11·1	33	..	1·3	..	8·3	0	0	28	22	0	1	0	0	1	2	2	3	0
Idar	0530	219	1016·9	991·4	..	18·4	10·7	0·6	6·4	33	..	2·3	..	7·1	0	1	25	4	18	3	0	0	0	1	0	5	0
	1730	,,	1012·9	988·1	..	25·7	14·5	2·5	7·3	23	..	2·9	..	4·2	0	0	20	3	0	5	0	0	0	7	5	11	0
Ahmedabad	0230	55	1014·8	1008·3	..	15·1	9·9	3·8	8·0	48	..	0·8	..	9·5	0	1	26	10	10	3	0	0	0	1	3	4	0
	0530	,,	1014·9	1008·3	..	13·5	9·0	3·4	7·8	52	..	0·6	..	10·0	0	1	29	9	11	5	0	0	0	1	4	1	0
	0830	,,	1016·7	1010·1	—0·2	15·1	9·7	3·1	7·6	46	—7	2·3	+1·0	11·1	0	3	24	4	11	10	0	0	0	0	2	4	0
	1130	,,	1017·0	1010·6	..	24·5	14·4	3·7	8·0	27	..	2·0	..	17·9	0	11	19	0	9	16	1	1	0	0	2	1	1
	1730	,,	1013·2	1006·9	..	27·5	15·2	2·5	7·3	20	..	2·4	..	15·6	0	5	26	10	7	4	0	1	1	2	6	0	0
	2330	,,	1015·3	1008·8	..	17·2	11·3	4·7	8·5	45	..	0·9	..	9·0	0	1	27	12	7	2	0	0	2	1	4	3	0
Dehad	0830	333	1017·1	978·2	+0·1	15·1	9·3	1·9	7·0	41	—1	1·8	+0·2	6·7	0	0	29	2	6	13	3	3	1	0	1	2	0
	1730	,,	1012·2	974·9	..	26·9	14·9	1·9	7·0	20	..	1·5	..	9·5	0	0	31	5	9	4	0	1	4	6	2	0	0
Baroda (Aerodrome)	0830	38	1016·2	1011·7	..	15·7	10·1	3·6	7·9	45	..	2·3	..	6·2	0	0	28	17	3	0	1	1	0	0	6	3	0
	1130	,,	1016·2	1011·9	..	25·7	15·3	5·2	8·8	27	..	2·1	..	9·4	0	3	27	12	6	6	1	2	1	0	2	1	0
	1730	,,	1012·4	1008·2	..	28·4	16·3	4·6	8·5	22	..	2·0	..	9·0	0	0	30	6	3	1	0	0	1	4	15	1	0
Baroda	0530	34	1014·5	1010·3	..	14·1	10·3	6·1	9·4	60	..	0·5	..	..	..	..	..	0	16	1	0	0	0	0	0	14	0
	0830	,,	1016·5	1012·3	+0·6	14·3	10·2	5·3	8·9	57	—13	1·6	+0·5	..	..	..	..	2	13	5	1	1	0	0	4	5	0
	1130	,,	1016·6	1012·6	..	26·2	16·0	6·8	9·9	30	..	1·7	..	..	..	..	..	0	19	2	1	0	0	1	1	7	0
	1730	,,	1012·8	1008·8	..	28·5	17·4	7·9	10·3	28	..	1·3	..	..	..	..	..	2	8	3	1	0	1	2	4	10	0
	2330	,,	1015·1	1011·0	..	17·9	12·8	7·7	10·5	52	..	0·9	..	..	..	..	..	3	10	0	2	0	1	0	1	14	0
Broach	0830	17	1015·4	1013·3	0	14·7	10·9	6·8	10·0	60	—5	2·0	+0·9	5·0	0	0	30	4	12	4	4	2	1	0	3	1	0
	1730	,,	1011·8	1009·8	..	30·4	18·3	8·6	11·2	26	..	1·8	..	7·2	0	0	31	4	14	0	7	0	1	0	5	0	0
Surat	†0530	12	1013·6	1012·2	..	16·3	12·5	8·7	11·2	62	..	0·5	..	(c) 5·3	0	0	19	8	6	2	1	0	0	0	3	9	0
	0830	,,	1015·8	1014·4	+0·2	16·7	12·4	8·2	10·9	58	—1	1·6	+0·4	(b) 5·4	0	0	24	16	4	2	1	1	0	0	0	6	0
	1130	,,	1016·0	1014·6	..	26·6	17·1	9·0	11·5	34	..	1·8	..	(b) 8·6	0	0	27	6	9	5	2	1	1	2	3	2	0
	1730	,,	1012·5	1011·1	..	28·6	18·1	10·1	12·3	33	..	1·4	..	(a) 8·5	0	0	30	3	9	0	0	1	4	1	13	0	0
	†2330	,,	1014·4	1013·0	..	20·6	14·7	9·2	11·6	50	..	0·8	.	(c) 6·6	0	0	24	15	5	0	2	0	1	0	2	4	0
Saurashtra and Kutch																											
Bhutaki Bhimasar	0830	47	1016·9	1011·2	..	14·6	11·6	8·2	10·9	67	..	2·0	..	19·8	0	10	21	14	12	1	0	0	0	0	4	0	0
	1730	,,	1014·0	1008·5	..	25·9	19·0	13·8	15·8	50	..	1·6	..	21·7	0	15	16	14	12	0	0	0	0	2	3	0	0
Naliya	0830	21	1017·7	1015·1	..	11·5	7·8	2·3	7·2	58	..	1·5	..	5·3	0	0	29	4	16	7	1	0	0	0	1	2	0
	1730	,,	1014·5	1012·0	..	25·7	14·4	1·4	6·8	23	..	1·4	..	15·8	0	5	26	7	11	1	0	0	5	3	4	0	0
Bhuj (Rudramata)	0230	80	1016·3	1006·7	..	14·3	12·4	10·7	12·9	79	..	0·6	..	4·2	0	2	10	5	2	1	0	0	3	0	1	19	0
	0530	,,	1016·1	1006·4	..	11·9	10·4	8·9	11·4	82	..	0·7	..	2·6	2	0	9	2	3	1	0	0	3	0	0	22	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. †Observations except mean wind speed, for 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																											
Bhuj (Rudramata)—*Contd.*	0830	80	1017.8	1008.1	+0.9	12.9	10.7	8.6	11.2	76	+41	1.6	+0.3	2.8	0	0	12	1	3	0	1	0	4	3	0	19	0
	1130	,,	1018.1	1008.8	..	22.0	17.6	14.4	16.4	64	..	1.8	..	13.5	0	4	27	5	16	4	2	0	0	1	3	0	0
	1730	,,	1014.3	1005.1	..	25.6	20.3	16.7	19.0	61	..	1.5	..	18.5	0	8	22	7	16	2	0	0	0	1	4	1	0
	2330	,,	1016.7	1007.1	..	16.6	14.0	11.9	13.9	74	..	0.9	..	4.7	0	1	11	4	4	0	0	0	2	2	0	19	0
New Kandla	0830	14	1017.8	1016.1	..	15.4	10.7	5.1	8.8	52	..	2.1	..	11.5	0	3	28	21	2	0	1	0	1	2	4	0	0
	1730	,,	1014.7	1013.0	..	24.5	15.5	6.9	9.9	34	..	1.9	..	15.9	0	11	19	13	8	1	2	3	2	0	1	1	0
Mandvi	0830	9	1017.4	1016.3	+0.4	15.7	11.0	5.6	9.1	53	−12	2.1	+0.7	16.8	0	3	28	0	28	0	0	0	0	1	2	0	0
	1730	,,	1014.4	1013.3	..	23.1	17.7	12.9	14.9	57	..	2.2	..	19.4	0	9	22	2	6	0	1	1	4	15	0	0	2
Surendranagar	0830	74	1016.9	1008.1	+0.7	15.9	10.5	3.3	7.7	45	−11	1.8	+0.5	4.7	0	0	30	12	7	0	0	0	1	0	10	1	0
	1730	,,	1013.2	1004.7	..	27.6	15.7	4.7	8.5	24	..	1.8	..	9.6	0	2	29	8	13	0	0	0	0	0	10	0	0
Jamnagar (Aerodrome)	0530	23	1015.3	1012.6	..	13.8	10.2	6.0	9.3	60	..	1.1	..	10.3	0	4	24	1	10	4	7	2	3	1	0	3	0
	0830	,,	1017.0	1014.3	+0.1	14.0	10.0	5.2	8.8	57	−3	2.0	+1.0	8.4	0	2	27	1	9	8	8	1	2	0	0	2	0
	1130	,,	1017.7	1015.1	..	22.0	14.4	6.8	9.9	40	..	1.6	..	18.8	0	9	22	7	18	3	0	0	1	1	1	0	0
	1730	,,	1013.8	1011.2	..	25.3	14.8	4.1	8.2	27	..	1.5	..	20.4	0	15	16	12	13	2	0	0	0	3	1	0	0
	2330	,,	1016.0	1013.3	..	18.5	14.4	10.7	12.9	62	..	1.1	..	12.7	0	5	26	10	9	2	0	0	1	6	3	0	0
Dwarka	0830	11	1017.1	1015.8	+0.5	17.6	..	..	..	..	..	0.9	−0.7	11.9	0	2	29	8	15	5	1	0	0	0	2	0	0
	1730	,,	1014.3	1013.0	..	23.9	..	..	..	..	..	1.2	..	17.5	0	3	28	8	5	4	0	0	0	4	10	0	0
Rajkot	0830	138	1017.2	1000.9	+0.5	14.6	9.5	2.7	7.4	48	−9	1.1	0	8.7	0	1	20	11	1	5	2	0	1	0	1	10	0
	1130	,,	1017.0	1001.3	..	23.9	15.0	6.3	9.5	34	..	0.8	..	22.3	0	20	10	13	11	1	2	0	1	0	2	1	0
	1730	,,	1013.2	997.6	..	27.0	15.7	4.0	8.1	25	..	1.2	..	21.9	0	19	12	14	6	0	0	0	0	1	10	0	0
Bhavnagar (Aerodrome)	0830	11	1016.5	1015.2	..	15.9	10.5	4.0	8.1	46	..	1.7	..	14.3	0	2	28	8	0	1	0	0	0	4	17	1	0
	1130	,,	1016.8	1015.6	..	22.3	15.5	9.7	12.0	45	..	1.5	..	15.2	0	5	26	17	12	2	0	0	0	0	0	0	0
	1730	,,	1012.9	1011.7	..	26.3	13.4	12.7	14.7	43	..	1.4	..	15.7	0	5	25	1	21	5	2	0	1	0	0	1	0
Bhavnagar	0830	17	1016.9	1014.9	+0.6	15.9	11.0	5.3	8.9	50	+4	1.5	+0.1	4.2	0	0	30	3	2	0	0	0	1	10	14	1	0
	1730	,,	1013.0	1011.1	..	28.9	18.5	10.8	12.9	36	..	1.6	..	10.8	0	0	30	4	13	9	3	0	0	1	0	1	0
Porbander (Aerodrome)	0830	7	1016.7	1015.9	+0.9	18.9	13.1	7.1	10.1	49	−18	1.6	+0.5	13.5	0	7	18	4	14	2	3	0	0	0	2	6	0
	1130	,,	1017.0	1016.2	..	26.4	16.7	7.9	10.7	33	..	1.3	..	21.5	0	19	12	4	17	7	0	1	0	1	1	0	0
	1730	,,	1013.4	1012.6	..	27.0	18.0	10.1	12.3	39	..	1.3	..	23.9	0	19	12	11	6	0	0	0	1	11	2	0	0
Porbandar	0830	37	1016.7	1015.9	..	17.3	12.6	8.0	10.7	56	..	2.2	..	6.2	0	0	31	12	12	1	0	0	0	3	3	0	0
	1730	,,	1013.6	1012.8	..	26.9	17.7	9.6	11.9	38	..	2.1	..	17.7	0	3	28	9	7	0	0	0	3	7	5	0	0
Keshod	0830	51	1016.9	1010.7	..	15.6	9.4	1.1	6.6	40	..	1.5	..	12.6	0	4	26	3	14	12	0	1	0	0	0	1	0
	1130	,,	1015.9	1011.0	..	25.3	14.5	2.6	7.4	26	..	0.9	..	22.7	0	14	17	4	21	5	0	0	0	0	0	0	1
	1730	,,	1012.9	1007.2	..	29.3	16.0	1.5	6.8	19	..	1.0	..	17.9	0	13	17	13	7	1	8	0	0	2	4	1	3
Mahuva	0830	9	1015.9	1014.9	..	17.8	12.0	5.8	9.2	46	..	1.7	..	7.9	0	0	29	18	6	1	0	0	0	1	3	2	0
	1730	,,	1012.5	1011.9	..	27.3	18.6	11.7	13.7	40	..	1.4	..	8.8	0	1	30	3	8	7	8	5	0	0	0	0	0
Veraval	0230	8	1014.3	1013.4	..	17.5	11.8	5.1	8.8	47	..	0.5	..	(a) 9.5	0	1	24	15	8	0	0	0	0	1	2	5	0
	0530	,,	1013.8	1012.9	..	16.6	10.5	2.7	7.4	42	..	0.5	..	(a) 11.7	0	3	24	14	13	0	0	0	0	0	1	3	0
	0830	,,	1015.8	1014.9	+0.1	17.8	11.0	2.4	7.3	39	−11	1.8	+0.7	(a) 11.5	0	3	25	13	14	0	0	0	0	1	1	2	0
	1130	,,	1016.2	1015.3	..	26.8	16.3	5.5	9.0	29	..	1.6	..	(b) 16.3	0	10	17	10	11	1	0	0	2	4	1	2	0
	1730	,,	1012.7	1011.8	..	26.0	19.2	12.6	14.6	52	..	1.4	..	(b) 14.1	0	5	24	4	3	0	1	2	6	10	5	0	0
	2330	,,	1015.0	1014.1	..	19.4	14.3	8.3	10.9	54	..	0.8	..	(a) 7.1	0	0	24	10	11	0	0	0	1	1	2	6	0
Konkan																											
Dahanu	0830	5	1014.9	1014.4	+0.6	19.7	15.2	11.2	13.3	61	−10	2.2	+0.7	6.5	0	1	23	6	5	3	8	1	0	0	1	7	0
	1730	,,	1011.7	1011.2	..	25.1	20.6	18.0	20.6	65	..	1.8	..	19.8	0	11	20	17	3	0	0	0	0	1	10	0	0
Bombay (Santa Cruz)	0230	15	1012.7	1011.1	..	19.0	16.0	13.7	15.7	72	..	0.2	..	2.3	0	0	17	3	6	4	2	0	0	0	2	14	0
	0530	,,	1012.7	1011.0	..	18.4	15.5	13.2	15.2	72	..	0.2	..	2.5	0	0	15	3	8	4	0	0	0	0	0	16	0
	0830	,,	1014.7	1013.0	−0.3	21.7	16.2	11.6	13.7	54	−11	1.5	+0.2	5.4	0	0	26	1	13	11	0	0	0	0	1	5	0
	1130	,,	1014.8	1013.1	..	28.9	18.5	10.4	12.6	33	..	0.8	..	8.6	0	1	29	3	7	6	6	2	1	0	5	1	0
	1730	,,	1011.8	1010.1	..	27.0	19.5	14.4	16.4	47	..	1.1	..	15.6	0	3	28	13	0	0	0	0	0	0	18	0	0
	2330	,,	1013.8	1012.1	..	21.1	17.2	13.9	15.9	65	..	0.3	..	3.6	0	0	21	6	9	4	0	0	0	0	2	10	0
Bombay	0830	11	1014.7	1013.5	−0.2	21.7	18.2	15.7	17.8	70	0	1.5	+0.2	4.4	0	0	27	5	8	11	3	0	0	0	0	4	0
	1130	,,	1014.9	1013.7	..	27.5	20.2	15.4	17.5	48	..	0.9	.	5.0	0	0	27	3	8	9	2	2	0	0	3	4	0
	1730		1011.7	1010.5	..	26.5	21.2	18.1	20.8	61	..	1.0	..	9.2	0	0	30	8	0	0	0	0	0	2	20	1	0
Alibag	0830	7	1014.6	1013.8	−0.1	21.7	17.1	13.6	15.6	61	−4	0.8	−0.7	3.6	0	0	25	4	5	13	3	0	0	0	0	6	0
Harnai	0830	20	1014.1	1011.8	+0.5	24.8	19.6	16.1	18.3	59	−3	2.5	+1.1	3.4	0	1	8	2	1	4	1	0	0	1	0	22	0
	1730	,,	1011.1	1008.8	..	26.5	23.1	21.4	25.5	74	..	2.5	..	21.1	0	12	19	4	0	0	0	0	1	5	21	0	0
Ratnagiri	0830	35	1014.2	1010.2	+0.1	22.1	18.5	15.9	18.1	67	..	2.3	..	..	..	..	..	0	1	28	0	0	0	0	2	0	0
	1730	,,	1010.8	1006.9	..	28.3	22.5	19.4	22.5	59	..	2.5	..	..	..	..	..	0	1	0	0	0	0	23	7	0	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—*contd.*																											
Devgarh	0830	36	1014.0	1009.9	+0.3	23.2	20.0	17.9	20.5	73	+2	2.5	+0.7	6.5	0	0	30	0	5	22	3	0	0	0	0	1	0
	1730	"	1010.5	1006.5	..	28.7	23.6	21.1	25.0	64	..	2.5	..	22.5	0	17	14	1	0	0	0	0	0	8	22	0	0
Vengurla	0230	9	1012.5	1011.5	..	21.0	19.3	18.2	20.9	85	..	0.8	..	0.1	0	0	1	1	0	0	0	0	0	0	0	30	0
	0530	"	1012.2	1011.2	..	19.7	18.2	17.2	19.6	86	..	0.5	..	0.7	0	0	6	6	0	0	0	0	0	0	0	25	0
	0830	"	1014.3	1013.3	+0.4	20.9	18.5	17.0	19.4	79	+5	1.7	+0.4	0.9	0	0	6	4	2	0	0	0	0	0	0	25	0
	1130	"	1014.1	1013.1	..	30.6	20.6	14.0	16.0	37	..	1.8	..	6.8	0	1	26	1	5	8	7	1	3	1	1	4	0
	1730	"	1010.8	1009.8	..	28.5	22.3	18.8	21.7	56	..	2.2	..	5.5	0	0	31	1	0	0	0	0	6	19	5	0	0
	2330	"	1013.4	1012.4	..	22.3	20.2	19.0	22.0	82	..	1.0	..	1.0	0	0	7	7	0	0	0	0	0	0	0	24	0
Madhya Maharashtra																											
Nandurbar	0830	206	1016.6	992.8	..	21.4	14.3	7.5	10.4	41	..	0.8	..	8.0	0	0	28	0	6	16	1	0	3	2	0	3	0
	1730	"	1011.7	988.7	..	29.6	18.3	9.2	11.6	28	..	1.0	..	6.1	0	0	25	2	6	4	0	0	0	5	8	6	0
Jalgaon	0830	201	1016.7	993.1	+0.8	16.9	11.6	6.0	9.3	49	—10	1.4	—0.2	8.6	0	0	30	0	3	17	4	2	3	1	0	1	0
	1730	"	1011.4	989.0	..	30.3	17.5	6.2	9.5	23	..	1.5	..	9.4	0	0	31	4	1	4	1	3	4	4	10	0	0
Malegaon	0830	437	1017.0	966.3	+0.1	15.2	9.9	4.1	8.2	47	—5	1.3	—0.1	3.3	0	0	21	0	0	0	0	1	3	11	6	10	0
	1730	"	1010.5	962.5	..	29.9	16.9	4.9	8.7	21	..	2.0	..	6.5	0	0	26	5	6	5	0	2	1	5	2	5	0
Deolali (Aerodrome)	0830	571	1017.6	952.0	.	16.0	11.9	7.3	10.2	60	..	1.4	..	3.5	0	0	28	13	2	0	0	1	2	0	0	13	0
	1730	"	1011.1	948.6	..	28.8	17.2	8.4	11.0	29	..	1.6	..	8.3	0	0	29	1	5	1	1	2	9	3	7	2	.
Ahmadnagar	0830	657	1017.4	942.6	+0.6	16.0	11.5	7.6	10.4	57	+10	1.5	+0.2	1.3	0	0	10	0	0	1	1	3	0	2	3	21	0
	1730	"	1009.3	938.4	..	28.6	17.2	8.6	11.2	29	..	0.7	..	1.1	0	0	11	1	3	1	3	1	0	1	1	20	0
Poona (Aerodrome)	0230	593	1013.8	946.4	..	17.5	13.0	8.1	10.8	55	..	0.1	..	1.6	0	0	9	0	0	1	0	0	0	3	5	22	0
	0530	"	1014.4	946.4	..	16.1	11.8	7.7	10.5	59	..	0.4	..	3.3	0	0	17	0	1	7	1	1	1	6	0	14	0
	0830	"	1016.3	948.9	..	18.1	13.0	8.4	11.0	55	..	1.3	..	3.3	0	0	16	1	1	10	0	0	0	1	2	15	1
	1130	"	1014.2	948.7	..	26.0	16.0	7.4	10.3	31	..	1.2	..	9.5	0	2	26	0	0	12	10	0	0	2	2	3	2
	1730	"	1009.7	945.1	..	28.7	16.4	5.5	9.0	24	..	1.5	.	9.9	0	4	21	2	0	8	6	0	0	6	2	6	1
	2330	"	1014.3	947.4	..	19.8	13.5	7.6	10.4	47	..	0.1	..	5.7	0	0	26	0	1	6	1	1	0	9	8	5	0
Poona	0530	559	1014.5	950.3	..	14.7	12.5	10.6	12.8	77	..	0.2	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	"	1016.6	952.5	+0.1	15.8	13.1	10.9	13.0	73	+7	1.0	—0.4	0.2	0	0	1	0	0	0	0	0	0	0	1	30	0
	1130	"	1014.0	952.2	..	26.3	16.8	9.9	12.2	36	.	1.1		2.9	0	0	16	0	5	5	4	0	0	0	2	15	0
	1730	"	1009.7	948.6	..	28.7	17.9	10.2	12.4	32	..	2.0	..	2.9	0	0	15	0	5	5	1	0	1	0	3	16	0
	2330	"	1014.5	951.1	..	19.0	14.7	11.5	13.6	62	..	0.3	..	0.5	0	0	3	0	1	0	0	0	0	2	0	28	0
Jeur	0830	521	1016.5	956.8	+0.5	16.7	12.0	8.0	10.7	55	0	2.2	+0.8	1.4	0	1	6	2	0	0	1	2	0	1	1	24	0
	1730	"	1009.7	952.9	..	29.4	17.8	9.2	11.6	29	..	2.5	..	5.5	0	0	26	1	3	2	10	6	1	1	2	5	0
Baramati	0830	551	1016.1	953.6	—0.2	18.2	13.7	10.3	12.5	61	—1	1.6	+0.5	3.6	0	0	22	3	2	9	3	1	0	1	3	9	0
	1730	"	1009.7	949.7	..	29.3	19.1	12.6	14.6	36	..	1.7	..	8.3	0	0	25	1	1	10	6	2	1	1	3	6	0
Sholapur	0530	479	1014.2	959.5	..	17.7	13.0	8.9	11.4	57	..	1.3	..	7.1	0	0	26	2	2	4	10	5	1	0	2	5	0
	0830	"	1016.3	961.7	+0.3	19.2	14.0	10.0	12.3	56	+8	2.2	+0.9	7.2	0	1	24	2	4	0	15	0	0	0	4	6	0
	1130	"	1014.7	961.5	..	26.8	18.1	12.2	14.2	41	.	2.0	..	11.8	0	2	29	3	1	2	15	6	4	0	0	0	0
	1730	"	1010.1	957.7	..	29.9	18.2	9.8	12.1	29	..	2.4	..	4.0	0	0	29	0	2	2	19	0	3	0	3	2	0
	2330	"	1014.0	960.1	..	22.2	14.4	7.8	10.6	40	..	1.7	..	7.7	0	0	30	4	4	3	13	3	2	1	0	1	0
Miraj	0830	554	1015.4	952.7	—0.5	18.6	14.6	10.3	12.5	59	0	2.3	+0.6	.	..	..	..	0	0	4	1	0	0	0	0	26	0
	1730	"	1009.7	948.5	..	29.7	17.9	9.3	11.7	28	..	3.0	..	..	..	..	..	0	0	14	5	0	1	1	0	10	0
Kolhapur	0530	570	1014.0	949.0	..	15.9	12.9	10.3	12.5	69	..	1.0	..	2.5	0	0	21	0	6	9	1	0	1	4	0	10	0
	0830	"	1015.7	951.1	+0.1	18.6	14.2	10.6	12.8	61	—1	1.9	+0.7	5.7	0	0	24	3	10	7	1	1	1	0	1	7	0
	1130	"	1013.5	950.7	..	26.5	17.5	11.2	13.3	38	..	2.3	..	15.4	0	6	25	1	5	16	7	0	1	1	0	0	0
	1730	"	1009.1	947.0	..	29.1	17.4	8.4	11.0	28	..	2.6	..	12.8	0	3	28	2	10	9	5	0	0	5	0	0	0
	2330	"	1013.7	959.6	..	20.7	15.4	11.2	13.3	56	.	1.3	..	7.3	0	0	27	0	0	9	3	0	3	11	1	4	0
Marathwada																											
Aurangabad	0830	581	1016.6	950.9	+0.3	19.6	12.1	6.1	9.4	42	—5	1.6	0	3.5	0	0	17	0	9	4	1	1	1	1	0	14	.
	1730	"	1010.7	947.3	..	28.6	16.6	7.1	10.1	26	..	1.6	..	5.3	0	0	22	0	1	4	2	4	5	3	3	9	0
Aurangabad (Chikalthana)	0230	579	1014.9	948.4	..	14.7	10.9	7.4	10.3	63	..	0.4	..	1.1	0	0	4	1	0	1	0	0	0	1	1	27	0
	0530	"	1015.3	948.3	..	12.9	9.7	6.5	9.7	66	..	0.6	..	1.6	0	0	7	1	0	1	2	0	0	2	1	24	0
	0830	"	1016.3	950.3	..	18.7	13.7	9.6	11.9	56	.	1.4	..	1.5	0	0	6	1	1	0	3	0	0	1	0	25	0
	1130	"	1014.7	950.6	..	25.9	19.2	15.1	17.1	52	..	0.8	..	10.9	0	0	28	0	1	4	7	9	4	2	1	3	0
	1730	"	1010.4	947.1	..	28.2	19.8	14.6	16.6	44	..	1.3	..	6.8	0	0	20	1	0	4	5	0	2	6	2	11	0
	2330	"	1015.4	949.3	..	16.7	12.3	8.5	11.1	59	..	0.7	..	2.4	0	0	7	2	0	1	1	0	0	2	1	24	0
Parbhan	0830	423	1017.1	968.5	+1.1	18.1	12.5	6.9	9.9	48	—8	1.4	—0.2	4.7	0	0	24	2	4	6	6	1	0	2	3	7	0
	1730	"	1011.2	964.6	..	29.2	17.0	6.2	9.5	24	..	1.6	..	8.3	0	0	29	3	9	7	4	2	0	3	1	2	0
Nander	0830	358	1016.7	975.5	..	18.9	14.8	11.3	13.4	62	..	0.4	..	2.6	0	0	18	0	7	0	7	1	2	0	1	13	0
	1730	"	1011.1	971.6	..	30.1	21.2	15.2	17.3	41	..	0	..	2.3	0	0	20	0	7	0	10	0	1	1	1	11	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*contd.*																											
Bir	0330	519	1016·9	957·9	..	19·1	14·3	10·6	12·8	58	..	1·5	..	5·0 (a)	0	1	17	1	1	0	3	9	2	0	2	13	0
	1730	,,	1010·9	954·0	..	23·6	18·1	10·9	13·0	34	..	2·1	..	4·9	0	0	25	1	11	1	4	2	0	4	2	5	0
Vidarbha Gondia	0830	313	1017·7	981·3	+0·5	17·0	13·9	11·2	13·4	69	−2	2·0	+0·3	0·5	0	0	5	2	1	1	0	0	0	0	1	26	0
	1730	,,	1013·0	977·9	..	26·6	17·9	11·0	13·2	38	..	2·0	..	1·2	0	0	10	3	2	0	1	1	0	1	1	21	1
Nagpur (Sonegaon)	0230	310	1014·8	976·7	..	16·4	13·5	10·9	13·1	71	..	1·1	..	3·2	0	0	22	11	6	1	0	0	0	0	4	9	0
	0530	,,	1015·2	978·9	..	15·1	12·7	10·5	12·9	75	..	0·9	..	4·2	0	0	24	9	7	1	0	0	0	0	7	7	0
	0830	,,	1017·4	981·4	+0·3	17·4	13·1	10·6	11·5	65	+2	1·9	+0·1	3·5	0	0	25	14	3	5	0	0	0	0	3	6	0
	1130	,,	1015·9	980·9	..	25·7	17·4	10·7	13·1	40	..	2·0	..	6·3	0	0	27	0	7	9	5	4	2	0	0	4	0
	1730	,,	1012·0	977·3	..	27·4	17·7	9·9	13·1	34		1·9	..	4·8	0	0	25	0	5	12	4	0	2	1	1	6	0
	2330	,,	1015·3	979·4	..	18·4	14·6	11·3	13·4	64	..	0·9	..	4·2	0	0	23	7	7	2	4	1	0	0	2	8	0
Amraoti	0830	370	1016·6	974·6	+0·6	20.6	14·8	9·7	12·2	51	+2	1·5	−0·2	8·8	0	1	26	3	11	8	3	0	2	0	0	4	0
	1730	,,	1010·8	969·8	..	28·6	17·8	8·9	12·7	30	..	1·6	..	6·5	0	0	31	3	6	5	6	1	3	3	4	0	0
Akola (Aerodrome)	0530	309	1014·3	978·2	..	15·3	10·9	6·1	9·4	55	..	0·8	..	3·2	0	0	28	0	2	21	0	0	0	5	0	3	0
	2330	,,	1014·0	978·6	..	21·1	13·7	6·4	9·6	40	..	1·1	..	3·5	0	0	25	0	1	11	5	4	0	3	1	6	0
Akola	0830	282	1016·6	983·8	0	17·4	12·7	8·1	11·2	55	+1	..	+0·3	2·5	0	0	21	0	3	12	0	1	1	4	0	10	0
	1130	,,	1015·4	983·7	..	26·8	17·3	9·5	12·1	34	..	1·6	..	2·8	0	0	26	2	0	16	2	1	0	4	1	5	0
	1730	,,	1010·9	979·6	..	29·9	18·0	8·1	11·9	26	..	1·5	..	1·3	0	0	12	0	1	1	0	0	0	10	0	19	0
Bramhapuri	0830	229	1018·2	991·5	..	18·4	15·2	12·5	15·0	69	..	1·3	..	1·5	0	0	12	3	4	2	2	1	0	0	0	19	0
	1730	,,	1012·7	987·0	..	27·3	18·2	11·1	14·1	38	..	1·6	..	1·2	0	0	5	0	2	1	0	1	0	0	1	26	0
Buldana	0830	650	1015·8	942·4	+0·3	18·9	13·2	8·2	11·0	51	−4	1·5	−0·3	3·1	0	0	22	0	8	0	7	0	1	0	6	9	0
	1730	,,	1010·7	939·4	..	27·0	16·9	9·3	12·2	34	..	1·3	..	1·6	0	0	16	0	9	0	1	0	1	0	5	15	0
Yeotmal	0830	451	1016·4	964·9	+0·3	19·4	14·0	8·9	11·8	52	−2	0·8	−1·3	4·8	0	0	30	4	5	13	3	2	2	1	0	1	0
	1730	,,	1011·5	961·7	..	26·4	17·4	8·1	11·1	29	..	1·1	..	4·7	0	0	29	5	7	3	3	4	2	2	3	2	0
Chanda	0830	193	1016·7	994·3	0	19.5	16·1	13·5	16·0	69	+1	1·7	+0·1	4·6	0	0	26	2	5	10	5	2	0	1	1	5	0
	1730	,,	1011·7	990·1	..	28·4	19.0	12·2	15·0	37	..	1·8	..	3·4	0	0	27	2	6	10	5	1	1	1	1	4	0
Pusad	0830	334	1017·3	978·6	..	18·3	13·6	9·2	11·8	56	..	0·8	..	1·7	0	0	12	1	1	0	1	0	3	2	4	19	0
	1730	,,	1011·3	974·3	..	30.2	19·9	12.7	14·9	35	..	1·1	..	5·5	0	0	28	0	12	2	8	0	4	0	2	3	0
Sironcha	0830	123	1017·3	1002·9	+0·3	19·9	17·5	15·8	17·5	77	+2	2·6	+1·0	1·9	0	0	16	2	0	6	6	0	1	1	0	15	0
	1730	,,	1012·5	998·6	..	29·2	20·0	13·8	16·2	40	..	2·7	..	2·5	0	0	22	4	3	3	11	1	0	0	0	9	0
Coastal Andhra Pradesh																											
Kalingapatnam	0830	6	1017·7	1017·0	+0·9	21·1	20·2	19·7	22.9	91	+11	3·0	+1·1	3·8	0	0	31	3	2	0	0	0	0	4	22	0	0
	1730	,,	1014·2	1013·5	..	25·0	23·2	22·3	26·9	85	..	2·6	..	12·8	0	1	30	0	12	8	5	4	0	0	2	0	0
Vishakapatnam	0230	3	1014·5	1014·1	..	20·5	19·0	18·1	20·8	86	.	1·6	..	2·0	0	0	13	2	0	0	0	0	0	2	9	18	0
	0530	,,	1014·8	1014·4	..	19·6	18·4	17·7	20·2	89		2·0	..	2·0	0	0	13	2	0	0	0	0	1	3	7	18	0
	0830	,,	1017·1	1016·7	+0·6	23·1	20·2	18·5	21·3	75	0	3·5	+0·9	2·1	0	0	13	1	3	1	0	0	0	2	7	17	0
	1130	,,	1016·2	1015·8	..	27·8	20·7	16·3	18·5	50		4·9		9·4	0	2	28	0	10	12	3	0	2	1	2	1	0
	1730	,,	1013·6	1013·2	..	25·3	20·5	17·7	20·2	63		3·6	..	13·9	3	6	24	0	1	25	2	0	2	0	0	1	0
	2330	,,	1015·7	1015·3	..	21·7	19·3	18·4	21·1	82		1·9	..	1·4	0	0	10	0	0	1	0	0	0	2	7	21	0
Kakinada	0830	8	1016·9	1016·0	+0·5	25·5	22·5	21·0	24·9	76	+1	4·0	+1·3	13·7	[illegible]	2	29	0	31	0	0	0	0	0	0	0	0
	1730	,,	1013·5	1012·6	..	25·5	22·5	20·9	24·7	77		2·8	..	14·5	0	4	27	0	19	0	12	0	0	0	0	0	0
Nidadavole	0830	12	1016·7	1015·2	..	23·1	20·4	18·9	21·8	78	..	4·6	..	6·1	0	0	30	5	23	1	0	0	0	0	1	1	0
	1730	,,	1013·9	1011·5	..	26·4	21·6	18·9	21·8	64	..	4·1	.	10·2	0	0	31	0	0	14	15	2	0	0	0	0	0
Kottachintala	0830	106	1016·7	1004·4	..	22·7	20·3	19·0	22·0	80	+11	4·7	+1·1	1·6	0	0	19	0	2	15	2	0	0	0	0	12	0
	1730	,,	1011·7	999·9	..	29·6	23·1	19·0	22·0	57	..	3·7	..	2·3	0	0	31	1	3	21	5	1	0	0	0	0	0
Gannavaram	0230	24	1014·3	1011·4	..	21·1	20·1	19·5	22·7	91	..	2·7	..	5·0	0	0	25	7	11	6	1	0	0	0	0	6	0
	0530	,,	1014·4	1011·6	..	20·6	19·7	19·2	22·2	92	..	3·4	..	4·8	0	0	22	5	14	3	0	0	0	0	0	9	0
	0830	,,	1016·7	1013·9	+0·7	23·1	20·8	19·5	22·7	80	+4	3·7	+2·0	10·3	0	2	29	2	20	8	1	0	0	0	0	0	0
	1130	,,	1016·1	1013·3		27·5	22·2	19·3	22·4	61	..	4·9	..	14·1	0	7	22	0	3	18	7	1	0	0	0	2	0
	1730	,,	1012·9	1010·2	..	28·0	21·9	18·4	21·1	57	..	3·3	..	10·3	0	1	29	0	1	4	22	3	0	0	0	1	0
	2330	,,	1015·4	1012·6	..	21·6	20·3	19·6	22·8	89	..	1·7	.	4·7	0	0	19	3	6	5	4	0	1	0	0	12	0
Nagarjunkonda	0830	..	..	..	..	23·9	20·5	18·5	21·3	73	..	3·1	..	6·6	0	1	27	3	6	7	4	2	2	1	3	3	0
	1730	..	..	..	..	29·9	20·6	14·4	16·4	39	..	3·2	..	15·5	0	10	21	2	7	7	14	1	0	0	0	0	0
Masulipatam	0830	3	1016·3	1015·9	−0·1	23·3	21·3	20·2	23·7	83	0	4·2	+2·3	4·0	0	0	31	24	5	1	0	1	0	0	0	0	0
	1730	,,	1013·1	1012·7	..	25·5	22·0	20·1	23·5	72	..	3·0	..	4·5	0	1	30	0	0	4	21	6	0	0	0	0	0
Ongole	0830	12	1016·1	1014·8	..	23·8	21·6	20·3	23·8	81	..	5·2	..	2·5	0	0	29	8	13	1	0	2	0	0	5	2	0
	1730	,,	1012.6	1011·3	..	26.2	22·3	20·2	23·7	69	..	5·0	..	2·8	0	0	27	0	13	5	9	0	0	0	0	4	0

(a) Mean of 30 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JANUARY, 1961 (PAUSA 11—MAGHA 11, 1882 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh *Contd.*																											
Nellore	0530	20	1013·5	1011·2	..	21·2	20·7	20·5	24·1	96	..	2·7	..	0·7	0	0	9	4	3	2	0	0	0	0	0	22	0
	0830	„	1015·9	1013·6	−0·1	23·2	21·8	21·1	25·0	88	+4	4·9	+1·5	2·5	0	0	31	5	7	0	0	1	1	0	17	0	0
	1130	„	1015·3	1013·0	..	27·7	22·9	20·4	24·0	65	..	5·8	..	4·2	0	0	31	4	20	4	1	1	0	0	1	0	0
	1730	„	1012·8	1010·5	..	26·4	22·5	20·4	24·0	70	..	4·9	.	3·2	0	0	31	0	23	7	1	0	0	0	0	0	0
	2330	„	1014·8	1012·5	..	22·4	21·4	20·9	24·7	91	..	1·9	..	0·8	0	0	13	3	6	2	2	0	0	0	0	18	0
Telangana																											
Ramagundam	0830	156	1016·4	998·4	0	21·7	18·1	15·5	17·6	69	+3	2·3	+0·4	5·4	0	0	23	5	3	2	4	5	2	1	1	8	0
	1730	„	1011·9	994·4	..	29·8	19·8	12·8	14·8	36	..	2·4	..	3·2	0	0	20	8	4	2	1	4	1	0	0	11	0
Nizamabad	0830	381	1016·5	973·1	+0·7	22·3	16·7	12·5	14·5	56	−7	0·9	−0·5	0·5	0	0	4	0	0	2	1	0	0	1	0	27	0
	1730	„	1011·3	969·1	..	28·9	17·8	8.8	11·3	29	..	1·2	..	0·5	0	0	5	1	2	1	0	0	1	0	0	26	0
Hanamkonda	0830	269	1016·5	985·7	−0·1	21·7	18·9	17·1	19·5	76	+3	1·9	−0·7	6·4	0	0	25	2	0	0	6	17	0	0	0	6	0
	1730	„	1011·8	981·9	..	28·7	19·3	12·6	14·6	37	.	1·6	..	1·4	0	0	18	6	1	1	3	7	0	0	0	13	0
Hakimpet (Aerodrome)	0530	613	1014·6	945·1	..	17·3	15·5	14·2	16·2	81	..	2·6	.	5·2	0	0	26	0	3	7	14	2	0	0	0	5	0
	0830	„	1015·9	946·7	..	19·2	16·9	15·4	17·5	80	..	4.2	..	7·7	0	1	30	0	0	1	5	22	3	0	0	0	0
	1130	„	1014·6	946·7	..	24·6	18·4	14·4	16·4	53	..	3·3	..	10·3	0	1	29	0	1	4	20	3	2	0	0	1	0
	1730	„	1011·5	944·1	..	26·0	17·8	12·3	14·3	43	..	3·8	..	8·8	0	0	30	0	3	12	12	1	2	0	0	1	0
Bhadrachalam	0830	111	1016·9	1004·0	+0·2	21·1	19·0	17·8	20·0	81	+4	4·9	+2·6	2·5	0	0	29	6	15	4	1	2	0	1	0	2	0
	1730	„	1011·7	998·0	..	29·3	20·1	14·1	16·0	40	..	3·0	..	2·0	0	0	30	2	18	7	2	1	0	0	0	1	0
Hyderabad (Begumpet)	0230	545	1014·4	952·5	..	17·7	15·3	13·7	15·7	78	..	1·5	..	3·0	0	0	15	0	2	6	6	0	1	0	0	16	0
	0530	„	1014·9	952·7	..	16.3	14·7	13·6	15·6	84	..	2·2	..	3·0	0	0	13	1	1	5	6	0	0	0	0	18	0
	0830	„	1016·5	954·8	+0·5	19·2	16·6	14·8	16·8	77	+7	4·1	+1·9	5·3	0	0	25	0	3	5	15	2	0	0	0	6	0
	1130	„	1014·9	954·5	..	25·4	18·0	13·3	15·3	47	..	3·5	..	10·7	0	1	30	1	1	6	18	2	2	0	0	0	1
	1730	„	1011·4	951·5	.	26·7	17·4	10.9	13·0	38	..	4·3	..	10·2	0	1	29	0	2	13	11	1	1	0	0	1	2
	2330	„	1015·1	953·5	..	19·5	15·7	13·0	15·0	66	..	1·6	..	3·2	0	0	16	0	3	7	6	0	0	0	0	15	0
Khammam	0630	112	1016·6	1003·8	..	21·2	19·9	18·7	21·6	82		4·6	..	1·5	0	0	13	0	0	10	2	1	0	0	0	18	0
	1730	„	1012·0	999·4	..	29.7	20·3	14·0	16·0	39	..	3·4	..	4·4	0	0	24	1	2	15	3	2	0	1	0	7	0
Mahbubnagar	0830	505	1016·0	958·9	..	21·1	17·3	14·8	16.8	68	..	3·6	..	7·0	0	0	27	1	7	16	1	0	2	0	0	4	0
	1730	..	1010·7	955·1	..	27·5	17·9	11·2	13·3	37	..	3·7	..	7·9	0	0	29	0	5	20	2	1	1	0	0	2	0
Rayalaseema																											
Kurnool	0830	281	1016·6	984·3	+0·8	20·8	17·8	15.8	17·9	73	+	3·1	+1·4	1·7	0	0	15	0	1	6	4	4	0	0	0	16	0
	1730	„	1011·0	979·9	..	29·9	19·6	12·3	14·3	34	..	3·1	..	3·4	0	0	25	0	0	11	14	0	0	0	0	6	0
Anantapur	0530	350	1013·7	973·6	..	19·4	17·0	15·3	17·4	77	..	2·9	..	4·3	0	1	15	0	0	12	4	0	0	0	0	15	0
	0830	„	1015·6	975·8	+0·7	21·6	18·1	15·6	17·7	69	+1	3·8	+2·4	5·7	0	1	22	0	4	11	3	2	1	1	1	8	0
	1130	..	1014·5	975·3	..	26·2	19·0	13·9	15·9	48	..	3·8	..	13·0	0	5	23	0	5	18	2	1	0	0	2	3	0
	1730	„	1010·5	971·7	..	28·3	19·1	12·5	14·5	39	..	4·0	..	14·1	0	7	24	0	5	23	3	0	0	0	0	0	0
	2330	„	1013·9	974·4	..	23·3	18·3	15·0	17·0	60	..	2·4	..	15·1	0	9	21	0	0	23	6	1	0	0	0	1	0
Cuddapah	0830	131	1016·1	1001·2	+0·4	24·7	21·0	18·9	21·8	71	−3	2·9	+0·7	1·9	0	0	13	0	0	13	0	0	0	0	0	18	0
	1730	„	1011·7	997·0	..	28·3	22·1	18·6	21·4	56	..	3·2	..	7·2	0	0	30	0	0	30	0	0	0	0	0	1	0
Arogya aram	0830	701	1016·1	937·4	..	18·9	17·1	15·9	18·1	83	..	5·3		2·9	0	0	25	4	4	2	6	9	0	0	0	6	0
	1730	„	1011·0	934·1	..	24·7	13·3	14·2	16·2	53	..	5.2	.	7·5	0	0	31	1	10	15	3	2	0	0	0	0	0
Madras State																											
Madras	0830	6	1015·4	1014·7	..	24·4	22·4	21·3	25·3	83	..	3.8	..	6·1	0	0	27	13	8	1	0	0	0	0	5	4	0
Madras (Minambakkam)	0530	16	1013·1	1011·3	..	22·6	21·4	20·7	24·4	89	..	3·3	.	2·2	0	0	12	6	3	0	0	0	0	1	2	19	0
	0530	„	1013·2	1011·4	..	22·0	21·0	20·5	24·1	91	..	3.3	.	2·5	0	0	13	4	2	0	0	0	0	2	5	18	0
	0830	„	1015·4	1013·6		23·7	22·0	21·1	25·0	85	+1	5·2	+2·1	5·9	0	0	25	12	2	1	0	0	0	3	7	6	0
	1130	„	1014·9	1013·2	0 ..	27·7	22·3	19·3	22·4	61	..	5·5	..	15.2	0	9	22	7	15	5	1	0	0	1	0	0	2
	1730	„	1012·6	1010·8	..	26·4	22·1	19·7	22·9	67	..	4·9	..	14·9	0	8	23	6	18	4	1	0	0	0	0	0	2
	2330	„	1014·6	1012.8	..	23·6	21·6	20·6	24·3	84	..	3·2	..	3·8	0	0	19	10	4	2	1	1	0	1	0	12	0
Vellore	0530	214	1013·8	989·1	..	20·2	19·4	19·0	22·0	93	..	4·5	.	0·5	0	0	5	0	1	4	0	0	0	0	0	26	0
	0830	„	1015.5	990·9	−0·1	22·1	20·3	19·3	22·4	84	−2	4.4	+1.6	0·6	0	0	5	2	3	0	0	0	0	0	0	26	0
	1130	„	1014·7	990·5	..	26·7	21.4	18·2	20·9	60	..	5·6	..	9·5	0	0	30	1	24	2	0	1	2	0	0	1	0
	1730	„	1011·2	987·2	..	27·1	20·8	16·8	19.1	55	.	4·9	..	7·6	0	0	30	1	22	6	0	0	1	0	0	1	0
	2330	„	1014·5	990·2	..	24·5	20·6	18·3	21·0	69	..	3·4	..	7·3	0	0	31	2	24	4	0	0	1	0	0	0	0
Tambaram (Aerodrome)	0830	29	1015·0	1011·7	..	24·3	22·7	21·9	26·3	87	..	5·3	..	10·2	0	0	30	20	2	0	0	0	0	1	7	1	0
	1730	„	1012·1	1008·8	..	26·5	23·0	21.3	25.3	73	..	4·5	..	18·3	0	10	21	3	12	14	2	0	0	0	0	0	0
Tiruppattur	0830	„	1015·4	971.0	..	20·7	20·0	19·7	22·9	91	..	6.0	..	3·8	0	0	27	16	7	1	0	1	0	0	2	4	0
	1730	390	1010·6	967·4	..	26·9	22·2	19·7	22·9	65	..	4·7	..	7·4	0	0	31	12	8	6	1	3	1	0	0	0	0
Cuddalore	0530	12	1012·6	1011·2	..	22·4	21·7	21·3	25·3	93	..	4·5	..	1·7	0	0	9	5	4	0	0	0	0	0	0	22	0
	0830	„	1015·0	1013·6	+0·1	24·1	22·4	21·6	25·3	86	+2	5·7	+2·2	5·0	0	0	31	12	9	1	0	0	1	2	6	0	0
	1130	„	1014·5	1013·3	..	27·1	23·3	21·4	25·5	72	..	4·9	..	6·5	0	1	29	9	18	1	2	0	0	0	0	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Cuddalore	1730	12	1011·8	1010·4	..	26·3	23·1	21·6	25·8	76	..	4·2	..	7·5	0	1	30	7	18	5	1	0	0	0	0	0	0
	2330	"	1014·0	1012·6	..	24·5	22·6	21·5	25·6	84	..	3·8	..	1·7	0	0	11	5	5	1	0	0	0	0	0	20	0
Kallakkurichchi	0830	127	1015·1	1000·6	..	23·4	21·4	20·2	23·7	83	..	4·5	..	6·6	0	0	27	9	0	0	1	1	0	0	16	4	0
	1730	"	1011·2	996·8	..	27·3	21·8	18·6	21·4	61	..	4·3	..	9·3	0	0	30	0	19	9	0	0	1	0	1	1	0
Salem	0530	278	1013·0	981·2	..	20·9	19·0	17·7	20·2	82	..	4·6	..	3·1	0	0	26	0	11	15	0	0	0	0	0	5	0
	0830	"	1014·9	983·2	−0·3	22·9	19·9	18·0	20·6	74	−2	4·6	+2·1	6·7	0	0	25	0	8	15	1	0	0	1	0	6	0
	1130	"	1013·6	982·5	..	27·4	20·9	16·8	19·1	54	..	5·6	..	6·9	0	0	26	0	5	18	2	1	0	0	0	5	0
	1730	"	1010·2	979·3	..	28·4	20·9	16·2	18·4	49	..	5·7	..	6·5	0	0	29	0	6	20	2	0	0	1	0	2	0
	2330	"	1013·7	982·2	..	23·5	20·1	18·0	20·6	72	..	3·8	..	10·9	0	4	26	0	8	22	0	0	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1013·1	967·7	..	19·9	18·8	18·1	20·8	89	..	4·6	..	5·1	0	0	21	5	7	5	0	0	0	2	2	10	0
	0830	"	1015·0	969·8	..	22·0	19·8	18·4	21·1	80	..	5·0	..	8·5	0	0	28	1	21	5	0	0	0	1	0	3	0
	1130	"	1013·9	969·2	..	25·4	20·4	17·3	19·7	62	..	5·3	..	14·1	0	6	24	2	18	10	0	0	0	0	0	1	0
	1730	"	1010·3	966·1	..	27·2	20·4	16·0	18·2	52	..	4·5	..	10·9	0	2	29	1	11	17	0	0	1	0	1	0	0
	2330	"	1013·9	968·8	..	22·1	19·6	18·0	20·6	78	..	4·1	..	9·2	0	1	29	2	10	14	1	2	1	0	0	1	0
Coimbatore	0830	409	1014·9	968·7	0	21·9	19·6	18·1	20·8	79	−1	6·1	+2·7	9·3	0	0	30	2	11	12	2	1	1	0	1	1	0
	1730	"	1010·1	964·9	..	27·4	20·5	16·2	18·4	52	..	5·0	..	9·4	0	0	31	1	9	13	4	2	1	0	1	0	0
Nagappattinam	0830	9	1014·7	1013·6	+0·2	25·2	22·9	21·7	25·9	82	+3	4·8	+0·5	14·4	0	12	19	6	13	1	0	0	0	2	9	0	0
	1730	"	1011·5	1010·4	..	26·6	23·3	21·7	25·9	75	..	4·8	..	21·9	0	19	12	9	18	4	0	0	0	0	0	0	0
Tiruchirapalli	0230	88	1012·6	1002·5	..	22·5	21·2	20·4	24·0	88	..	3·2	..	11·7	0	4	25	6	18	3	1	1	0	0	0	2	0
	0530	"	1012·8	1002·7	..	22·0	20·8	20·1	23·5	89	..	4·1	..	10·3	0	2	26	12	12	2	0	1	0	0	1	3	0
	0830	"	1015·1	1005·0	−0·1	23·7	21·4	20·1	23·5	81	+1	5·0	+2·1	11·0	0	2	26	9	15	2	0	2	0	0	0	3	0
	1130	"	1014·3	1004·4	..	27·0	22·1	19·5	22·7	65	..	5·5	..	13·7	0	9	22	4	22	2	2	0	0	0	1	0	0
	1730	"	1011·4	1001·4	..	27·4	22·0	18·9	21·8	61	..	4·6	..	14·6	0	7	24	0	21	10	0	0	0	0	0	0	0
	2330	"	1014·1	1004·0	..	23·0	21·5	20·8	24·6	87	..	2·3	..	11·7	0	3	27	2	17	9	2	0	0	0	0	1	0
Vedaranniyam	0830	4	1014·1	1013·6	..	25·7	23·1	21·8	26·1	80	..	4·7	..	10·0	0	0	30	13	16	1	0	0	0	0	0	1	0
	1730	"	1011·2	1010·7	..	26·3	23·2	21·6	25·8	76	..	4·6	..	12·1	0	5	25	4	22	3	1	0	0	0	0	1	0
Adirampattinam	0830	6	1014·2	1013·5	..	24·4	22·6	21·7	25·9	85	..	3·5	..	9·5	0	1	30	19	3	1	1	0	1	0	6	0	0
	1730	"	1011·0	1010·3	..	27·0	23·1	21·2	25·2	71	..	4·4	..	14·8	0	3	28	2	21	2	6	0	0	0	0	0	0
Madurai	0830	133	1014·3	999·2	−0·4	24·3	21·9	20·6	24·3	80	+1	6·3	+2·7	5·9	0	0	31	9	16	1	0	0	0	0	5	0	0
	1730	"	1010·3	995·4	..	28·3	22·9	20·1	23·5	62	..	6·3	..	8·8	0	0	31	3	21	5	2	0	0	0	0	0	0
Madurai Aerodrome	0530	131	1012·5	997·4	..	21·6	20·6	20·1	23·5	91	..	3·1	..	5·3	0	0	26	7	16	1	2	0	0	0	0	5	0
	0830	"	1014·4	999·4	..	23·8	21·5	20·3	23·8	81	..	3·6	..	7·2	0	0	30	16	11	1	1	0	0	0	1	1	0
	1130	"	1013·6	998·7	..	27·2	22·3	19·6	22·8	64	..	4·5	..	14·5	0	10	20	3	20	7	0	0	0	0	0	1	0
	1730	"	1010·4	995·6	..	27·7	22·2	19·1	22·1	61	..	4·3	..	11·7	0	3	28	1	16	12	2	0	0	0	0	0	0
Tondi	0830	5	1014·3	1013·7	..	24·3	22·6	21·8	26·1	86	..	5·3	..	9·0	0	0	24	7	3	1	1	0	0	1	11	7	0
	1730	"	1011·3	1010·7	..	26·7	23·9	22·5	27·3	78	..	4·4	..	17·9	0	8	23	4	14	10	3	0	0	0	0	0	0
Pamban	0830	11	1013·8	1012·5	−0·2	25·9	24·1	23·4	28·8	86	+3	3·9	+0·6	8·6	0	2	26	10	9	5	1	0	0	0	3	3	0
	1730	"	1010·9	1009·6	..	26·5	24·1	23·0	28·1	82	..	3·5	..	7·7	0	2	26	14	11	3	0	0	0	0	0	3	0
Tuticorin	0830	4	1014·2	1013·8	−0·5	24·9	23·0	22·1	26·6	84	+7	5·0	+2·1	14·7	0	1	30	7	9	1	0	0	0	0	4	0	0
	1730	"	1010·6	1010·2	..	27·1	24·7	23·7	29·3	82	..	3·5	..	22·7	0	20	11	1	14	11	4	0	0	0	1	0	0
Palayankottai	0830	51	1014·3	1008·5	0	24·7	22·3	21·0	24·9	80	+4	6·6	+2·4	4·8	0	0	31	22	4	0	0	0	0	2	3	0	0
	1730	"	1010·5	1004·8	..	27·3	23·0	20·8	24·6	69	..	4·8	..	6·5	0	0	31	13	9	4	4	0	0	1	0	0	0
Kanniyakumari	0830	37	1013·0	1008·9	..	25·5	22·0	20·1	23·5	73	..	4·5	..	21·5	0	16	14	6	24	0	0	0	0	0	0	1	0
	1730	"	1009·9	1005·8	..	27·7	23·2	20·9	24·7	67	..	3·8	..	22·2	0	17	14	2	21	5	0	1	1	1	0	0	0
Coastal Mysore																											
Karwar	0830	4	1013·9	1013·4	+0·2	23·7	20·0	17·8	20·4	71	−5	2·0	+0·3	4·6	0	0	22	0	2	16	3	0	1	0	0	9	0
	1730	"	1010·8	1010·3	..	28·5	23·4	20·8	24·6	64	..	1·6	..	8·3	0	2	22	1	1	1	0	0	3	4	14	7	0
Honavar	0830	26	1014·0	1011·0	−0·2	22·8	18·9	16·3	18·5	67	−2	3·8	+1·2	5·9	0	0	27	4	4	19	0	0	0	0	0	4	0
	1730	"	1010·2	1007·3	..	30·0	22·7	18·4	21·1	52	..	3·1	..	7·5	0	0	29	1	2	1	0	1	2	16	6	2	0
Mangalore (Bajpe)	0230	102	1011·5	999·9	..	23·0	20·5	18·9	21·8	78	..	2·7	..	4·5	0	1	19	0	4	13	3	0	0	0	0	11	0
	0530	"	1011·5	999·9	..	22·2	19·7	18·1	20·8	78	..	3·0	..	6·1	0	0	30	2	1	23	4	0	0	0	0	1	0
	0830	"	1013·5	1001·9	..	24·1	20·0	17·4	19·9	67	..	3·5	..	5·7	0	0	29	1	3	24	1	0	0	0	0	2	0
	1130	"	1012·8	1001·4	..	29·8	20·8	14·8	16·8	42	..	3·3	..	10·9	0	3	27	2	1	18	6	0	0	0	3	1	0
	1730	"	1009·6	998·2	..	28·7	21·9	17·9	20·5	53	..	3·6	..	10·2	0	1	29	0	0	3	1	0	0	15	11	1	0
	2330	"	1012·6	1001·1	..	24·3	21·4	19·7	22·9	76	..	2·5	..	3·2	0	0	15	4	3	4	3	0	0	0	1	16	0
Mangalore	0830	22	1013·4	1010·9	−0·4	25·1	20·6	17·9	20·5	66	−3	3·6	+1·6	4·9	0	0	31	0	8	22	1	0	0	0	0	0	0
	1730	"	1009·8	1007·3	..	29·1	22·9	19·5	22·7	57	..	3·9	..	6·5	0	0	31	3	1	1	0	0	4	10	12	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest Standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)—*Contd.*																											
Bidar	0830	664	1015·8	941·0	..	19·1	14·5	10·9	13·0	60	+1	2·6	+0·5	12·5	0	4	27	0	2	1	13	0	12	0	3	0	0
	1730	"	1010·3	937·7	..	26·8	16·2	7·9	10·7	31	..	3·2	..	15·3	0	11	20	0	19	0	9	0	3	0	0	0	0
Gulbarga	0830	458	1016·4	964·6	+0·8	22·4	16·2	11·6	13·6	51	−5	2·2	+0·9	7·9	0	0	31	0	7	12	9	2	0	1	0	0	0
	1730	"	1010·3	960·0	..	29·5	17·1	7·3	10·2	26	..	3·4	..	13·3	0	3	27	1	5	13	4	2	3	2	0	1	0
Bijapur	0830	594	1016·0	948·8	+0·3	18·8	15·8	13·0	15·0	67	+7	2·9	+1·4	5·5	0	0	27	3	0	1	10	8	0	3	2	4	0
	1730	"	1009·7	944·9	..	28·3	18·0	12·0	14·0	36	..	3·1	..	3·0	0	0	28	2	4	5	6	5	1	3	2	3	0
Raichur	0830	400	1015·6	970·1	−0·1	21·7	18·0	15·5	17·6	68	+4	3·7	+2·2	5·9	0	0	26	1	3	0	11	1	1	6	3	5	0
	1730	"	1011·0	966·9	..	28·9	19·2	12·1	14·1	37	..	4·2	..	6·5	0	0	31	0	13	0	17	0	0	0	1	0	0
Belgaum	0830	753	1015·4	931·2	+0·1	18·6	14·5	11·7	13·7	64	+1	2·1	+0·6	5·2	0	0	30	4	4	17	1	0	0	4	0	1	0
	1730	"	1008·9	927·6	..	27·6	16·7	8·2	10·9	30	..	3·0	..	8·7	0	0	31	0	3	18	3	0	1	4	2	0	0
Belgaum (Sambra)	0530	747	1013·9	929·9	..	17·0	13·4	10·5	12·7	66	..	2·3	..	4·3	0	0	19	0	0	16	2	0	0	1	0	12	0
	0830	"	1015·1	931·8	..	19·8	15·2	11·7	13·7	60	..	2·5	..	8·2	0	1	21	0	1	14	5	1	0	1	0	9	0
	1130	"	1013·6	931·8	..	25·3	16·5	9·9	12·2	39	..	2·6	..	15·7	0	8	23	1	3	14	9	2	0	1	1	0	0
	1730	"	1009·3	928·5	..	27·7	16·4	7·1	10·1	28	..	3·2	..	12·0	0	3	23	0	0	16	5	0	3	2	0	5	0
Gadag	0530	650	1013·9	940·5	..	17·8	16·3	15·3	17·4	86	..	1·6	..	7·0	0	0	28	0	0	20	5	0	0	3	0	3	0
	0830	"	1015·3	942·7	+0·3	21·0	18·5	16·9	19·2	79	+17	2·2	+0·8	5·5	0	0	22	1	4	15	2	0	0	0	0	9	0
	1130	"	1013·5	942·3	..	26·9	21·3	18·3	21·0	60	..	2·5	..	10·8	0	2	28	1	2	20	3	0	1	2	1	1	0
	1730	"	1009·4	938·8	..	28·1	22·1	19·1	22·1	59	..	3·3	..	8·4	0	0	31	0	12	11	2	0	2	3	1	0	0
	2330	"	1014·0	941·4	..	20·8	17·6	15·6	17·7	73	.	1·5	.	9·6	0	1	30	0	0	16	9	0	0	6	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1015·7	964.7	+0·2	20·8	19·1	18·0	20·6	84	+20	4·2	+2·1	4·1	0	0	31	1	0	0	29	0	1	0	0	0	0
	1730	"	1010·0	960·7	..	28·8	22·9	19·3	22·4	58	..	5·0	..	5·2	0	0	31	1	0	0	28	0	2	0	0	0	0
Chitaldurga	0830	733	1014·8	933·0	0	19·9	16·4	14·3	16·3	72	+10	3·7	+1·5	5·4	0	0	30	0	2	20	2	0	2	4	0	1	0
	1730	"	1008·9	929·5	..	27·5	17·9	11·2	13·3	37	..	4·0	..	7·6	0	0	30	0	2	22	3	0	1	1	1	1	0
Simoga	0830	571	1014·7	950·3	−0·1	19·2	16·1	14·0	16·0	72	−4	5·2	+2.8	2·9	0	0	17	1	3	7	1	4	1	0	0	14	0
	1730	"	1008·2	946·1	..	28·4	18·0	10·3	12·5	34	..	5·9	..	5·4	0	1	23	0	2	11	7	2	2	0	0	7	0
Balehonnur	0830	..	..	..	..	17·0	15·1	13.8	15·8	82	+9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1531·1	909·0	..	18·1	15·7	14·0	16·0	78	+6	4·0	+1·5	3·2	0	0	31	1	0	25	3	0	2	0	0	0	0
	1730	"	1513·4	905·5	..	25·9	17·3	10·8	12·9	41	..	4·8	..	3·5	0	0	29	1	0	16	9	0	3	0	0	2	0
Bangalore	0230	921	1511·7	911·3	..	17·1	16·0	15·2	17·4	89	..	(a) 3·5	..	10·7	0	0	31	0	2	25	4	0	0	0	0	0	0
	0830	"	1533·3	913·4	+0·3	18·0	16·1	14·7	16·7	82	+4	5·9	+2·9	11·5	0	2	29	0	6	19	4	0	1	1	0	0	0
	1130	"	1539·3	913·0	..	23·2	16·8	12·2	14·2	52	..	4·5	..	13·3	0	3	28	0	1	23	3	2	2	0	0	0	0
	1730	"	1516·3	910·3	..	24·0	17·1	12·1	14·1	49	..	4·8	..	12·0	0	3	28	1	2	21	5	0	1	1	0	0	0
Bangalore (Aerodrome)	0530	897	1510·4	914·0	..	16·4	15·7	15·2	17·3	93	..	3·9	..	5·9	0	0	21	2	2	16	1	0	0	0	0	10	0
	0830	"	1533·7	916·0	..	18·3	16·4	15·1	17·1	82	..	5·4	..	9·8	0	0	27	0	6	16	3	0	1	1	0	4	0
	1130	"	1540·6	515·5	..	23·6	17·5	13·1	15·1	54	..	4·8	..	15·1	0	5	26	0	4	22	1	2	0	1	1	0	0
	1730	"	1517·1	912·8	..	24·8	17·9	13·2	15.2	50	..	4·9	..	14·6	0	2	28	0	2	21	5	1	0	1	0	1	0
	2330	"	1526.1	915·1	..	18·8	16·7	15·4	17·5	81	..	2·5	..	10·9	0	0	28	0	3	23	2	0	0	0	0	3	0
Mysore	0830	767	1014·7	929·2	−0·2	..	..	..	..	..	..	4·1	+1·4	5·2	0	0	28	0	1	22	0	0	3	2	0	3	0
	1730	"	1008.7	925·2	..	..	..	..	..	..	..	3·9	..	7·1	0	0	27	0	4	22	0	0	1	0	0	4	0
Kerala																											
Calicut	0530	5	1011·2	1010·6	..	23·3	21·5	20·6	24·3	85	..	1·9	..	9·6	0	0	31	0	7	21	0	0	0	0	0	0	0
	0830	"	1013·3	1012·7	−0·2	24·9	21·6	19·8	23·1	74	−4	3·2	+1·1	8·5	0	0	31	0	5	26	0	0	0	0	0	0	0
	1130	"	1012.9	1012·3	..	29·5	23·3	20·1	23·5	58	..	3·1	..	10·0	0	0	31	0	1	2	1	0	14	11	2	0	0
	1730	"	1009·7	1009·1	..	29·4	24·2	21·7	25·9	63	..	3·6	..	14·5	0	0	31	0	0	0	0	0	2	14	15	0	0
	2330	"	1012.4	1011·8	..	25·9	23·0	21·5	25·6	77	..	1·8	..	7·2	0	1	29	7	14	4	0	0	0	1	4	1	0
Tellicherry	0830	97	1013·8	1002·7	..	25·3	21·3	19·0	22·0	69	..	4·4	..	12·8	0	4	26	0	1	26	1	0	0	2	0	1	0
	1730	"	1009·6	998.7	..	30·1	22·0	17·2	19·6	48	..	3·8	..	10·4	0	1	30	0	2	21	5	0	1	2	0	0	0
Fort Cochin	0830	3	1013·1	1012·8	−0·1	25·9	22·5	20·6	24·3	73	+3	5·5	+3·6	6.0	0	0	30	5	14	10	1	0	0	0	0	1	0
	1730	"	1009·4	1009·1	..	28·4	23·6	21·2	25·2	66	..	5·2	..	8·6	0	1	30	1	4	0	0	0	2	16	8	0	0
Cochin (Naval Air Station)	0230	3	1011·1	1010·8	..	24·6	22·7	21·7	25·9	84	..	3·4	..	2·2	0	0	15	1	4	8	2	0	0	0	0	16	0
	0530	"	1011·0	1010·7	..	23·6	21·8	20·9	24·7	85	..	3·9	..	3·0	0	0	23	2	9	10	1	0	0	0	1	8	0
	0830	"	1013·0	1012·7	..	25·5	22·0	20·1	23·5	72	..	3·8	..	6·1	0	1	25	0	13	12	1	0	0	0	0	5	0
	1130	"	1012·7	1012·4	..	29·7	22·9	19·2	22·4	54	..	4·5	..	9·5	0	0	30	1	7	10	3	2	0	1	6	1	0
	1730	"	1009·5	1009·2	..	29·2	23·5	20·6	24·3	60	..	4·1	..	14·7	0	3	27	1	2	0	0	0	6	17	4	1	0
	2330	"	1012·5	1012·2	..	25·8	23·4	22·2	26·7	81	..	3·8	..	2·3	0	0	15	0	2	8	1	1	1	0	2	16	0
Alleppey	0830	4	1012·8	1012·4	+0·1	26·2	23·0	21·3	25·3	75	0	3·9	+0·2	4·6	0	0	30	0	3	9	18	0	0	0	0	1	0
	1730	"	1009·8	1009·4	..	29·5	24·4	22·0	26·4	64	..	3·4	..	11·9	0	0	31	0	0	0	1	0	0	5	25	0	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1012·7	1008·9	..	23·6	21·2	19·9	23·2	80	..	4·0	..	1·6	0	0	8	0	1	2	4	1	0	0	0	23	0
	1730	"	1009·1	1005·2	..	29·9	23·1	19·5	22·7	55	..	4·8	..	3·8	0	0	26	0	0	4	13	0	9	0	0	5	0
Trivandrum	0230	64	1010·6	1003·2	..	24·0	22·4	21·6	25.8	87	..	2.8	..	4·9	0	1	29	7	13	4	1	0	0	1	4	1	0
	0530	"	1010·8	1003·4	..	23·2	21·7	20·9	24·7	87	..	3·0	..	4·5	0	0	27	7	12	5	0	1	0	1	1	4	0
	0830	"	1012·7	1005·4	−0·1	25·6	22·7	21·1	25·0	77	0	3·7	+1.1	3·8	0	0	29	2	10	9	2	0	1	0	5	2	0
	1130	"	1012·0	1004·8	..	30·1	23·6	20·2	23·7	56	..	4·5	..	5·3	0	0	30	4	4	2	4	2	7	2	5	1	0
	1730	"	1009·8	1002.5	..	28·4	23·8	21.5	25·6	67	..	4·0	..	5·3	0	0	30	0	1	0	0	5	11	8	5	1	0
	2330	"	1012·2	1004·9	..	25·1	23·1	22·0	26·4	83	..	3·3		4·8	0	1	26	10	5	4	1	0	0	1	6	4	0
Trivandrum (Aerodrome)	0830	8	1012·6	1011·7	..	26·0	22·9	21·3	25·3	76	..	4.2	..	2·8	0	0	19	4	7	8	0	0	0	0	0	12	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	"																									
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1470.7	801.0	+1.5	5·3	2·4	−1·7	5·3	64	−3	3.5	+0·3	4.4	0	1	19	0	7	5	4	1	0	2	1	11	0
	1730	"	1453·4	800.5	..	5·4	3·8	1·3	6·7	78	..	2·9	..	2.5	0	0	18	2	6	4	2	1	0	2	1	13	0
Dharmsala	0830	..	..	..	..	9·7	6.3	2·3	7·2	67	+5	4·4	+0.8	2·5	0	0	22	4	13	2	0	0	0	2	1	9	0
	1730	..	..	..	..	12·1	8·0	3·5	7·9	57	..	4·8	..	3·0	0	0	30	0	3	1	0	1	22	3	0	1	0
Simla	0830	2202	1518.5	782·6	+0.9	4·6	0·9	−5·2	3·9	54	+11	3·9	+0.1	3·2	0	0	28	3	4	1	6	7	4	0	3	3	0
	1730	"	1508·6	781·7	..	5·1	2·7	−0·4	5·9	70	..	4·5	..	3.0	0	0	30	2	5	1	10	5	4	0	3	1	0
Lokpal	0330	..	..	..	..	14·1	12·1	10·6	12·8	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	Closed during the winter months																								
Joshimath	0830	..	..	..	..	4·5	1·0	−5·1	4·0	55	..	4·3	..	6·1	0	1	29	0	0	14	4	7	5	0	0	1	0
	1730	..	..	..	..	7·4	3·1	−3·2	4·7	51	..	4·7	..	5·5	0	0	30	0	2	3	3	11	9	2	0	1	0
Mussooree	0830	2042	1518·9	798·1	+0.2	6·1	2·8	−2·0	5·2	61	+5	3·6	0	3·1	0	1	18	4	2	0	4	5	1	0	3	12	0
	1730	"	1503·9	796·8	..	6·5	5·4	3·9	8·1	84	..	4·9	..	2·7	0	0	22	2	2	0	6	9	2	0	1	9	0
Mukteswar (Kumaon)	0830	2311	3118·8	773·8	+0·6	5·0	1·1	−7·3	3·3	52	+3	2·9	−0.2	12·5	0	3	27	1	6	7	2	2	3	4	5	1	0
	1730	"	3106.5	772·5	..	5·6	2·8	−1·0	5·6	66	..	3·8	..	10·6	0	4	22	0	6	5	1	1	2	8	3	5	0
Nainital	0830	1953	1513·7	805.6	0	4.4	2·1	−1·5	5.4	70	+4	2.5	−0.7	4·8	0	0	23	2	1	4	2	0	0	10	4	8	0
	1730	"	1494.3	804.6	..	6.9	4·6	1.6	6.9	72	..	3·6	..	7·2	0	2	24	5	1	2	3	1	1	13	0	5	0
Walong (R)	0830																										
(R)	1730																										
Kalimpong	0830	1209	1479·6	877·9	−5·1	12·9	11·4	10·5	12·5	84	+9	1·3	−1·1	3·4	0	0	31	1	0	0	0	0	0	0	30	0	0
	1730	"	1478.0	877.7	.	13·5	11·9	10·9	13·0	83	..	1·8	..	3·1	0	0	31	0	0	0	29	0	0	0	2	0	0
Darjeeling	0830	2128	1556·0	793·6	+4.3	6·0	4·4	3·0	7·3	79	+15	4·5	+1·1	0·4	0	0	2	0	0	0	0	0	1	1	0	29	0
	1730	"	1526.5	791·2	..	7·3	5·8	4·2	8·7	81	..	5·4	..	0·5	0	0	4	0	0	0	0	0	2	2	0	27	0
Kohima	0830	1406	1575.3	867·5	..	12·4	11·4	10·4	12·3	87	..	1·0	..	..	..	..	..	1	1	5	6	2	2	4	1	9	0
	1730	"	1535.0	863·0	..	14.1	12·6	11·4	13·5	89	..	2·3	..	..	..	..	..	0	2	4	2	0	3	16	4	0	0
Shillong	0830	1500	1530·7	853·4	+0·8	13·1	8·3	2·3	7·0	50	−20	0·7	−0·8	1·6	0	0	12	0	0	1	1	3	6	1	0	19	0
	1730	"	1511·2	851·3	..	12·3	10·4	8·6	10.9	79	..	6·0	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0
Cherrapunji (R)	0830	1313																									
(R)	1730	..																									
Abu	0830	1195	1522·9	884·1	+0·1	12·1	7·1	−0·1	6·1	45	+1	1·6	−0·1	1·1	0	0	9	4	3	0	0	0	1	0	1	22	0
	1730	"	1526·7	883.2	..	16·9	10·1	1·8	6·9	26	..	1·4	..	1·5	0	0	15	5	2	0	2	1	4	0	1	16	0
Ajmer	0830	..	..	..	..	16·5	12·8	9·4	12·1	65	..	2·6	..	3·0	0	0	28	1	0	12	5	2	2	4	2	3	0
	1730	..	..	..	..	18·5	14·0	10·7	12·3	62	..	2·3	..	3·0	0	0	29	2	0	0	1	0	6	20	0	2	0
Pachmarhi	0830	1075	1536·8	898·1	+0.4	14·0	11·2	8·6	11·1	71	+9	1·9	0	2·3	0	0	21	0	5	1	0	8	0	3	4	10	0
	1730	"	1525·2	895·7	..	20·9	14·6	9·5	11·5	50	..	2·8	..	3·1	0	0	28	2	8	1	2	1	0	2	12	3	0
Mahabaleshwar	0830	1382	1537·8	865·9	+0·5	16·8	11·7	6·9	9·9	53	+1	1·8	+0·8	8·6	0	0	31	0	2	8	14	2	3	0	2	0	0
	1730	"	1518·9	863·8	..	21·7	14·4	8·3	10·9	44	..	1·6	..	9·5	0	0	31	0	5	1	7	0	2	0	16	0	0
Mercara	0830	1152	1523·5	888·1	+0·3	16·5	14·6	13·3	15·3	82	+4	2·4	−1·0	6·9	0	1	29	6	12	12	0	0	0	0	0	1	0
	1730	"	1509·5	885·7	..	22·6	16·6	12·0	14·0	54	..	3·3	..	4·7	0	0	29	5	8	9	0	0	0	2	4	2	1

*Data given as addenda in December, 1961 issue.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed per hour km.	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Veriable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Station excluding Kashmir—*contd.*																											
Ootacamund	0830	2249	1531·3	781·1	+0·5	10·3	7·8	4·9	8·6	72	+14	3·3	+1.6	(l) 1·2	0	0	5	0	0	5	0	0	0	0	0	14	0
	1730	„	1501·8	779·1	..	15·1	12·0	9·6	11·9	70	..	4·9	..	(k) 2·0	0	0	7	0	3	3	1	0	0	0	0	13	0
Conoor	0830	1747	1532·4	829·3	..	14·7	12·5	10·8	12·9	79	+14	4·8	+1.5	3·1	0	0	28	2	1	4	14	7	0	0	0	3	0
Kodaikanal	0830	2343	3159·7	772·6	+0.6	11·9	8·7	4·6	8·5	69	+14	4·5	+1.7	16·1	0	11	18	1	7	8	8	2	0	1	2	2	0
	1130	„	3168·2	772·7	..	14·8	10·9	6·5	9·8	67	..	5·2	.	15·0	0	9	22	2	4	7	13	1	0	1	3	0	0
	1730	„	3144·9	771·1	..	12·5	11·1	9·9	12·2	86	..	5·7	.	8·9	0	4	19	2	7	3	6	2	0	1	2	3	0
Nepal																											
Katmandu	0830	1324	1533·4	872·2	..	5·3	4·9	4·3	8·4	93	..	5·1	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
	1130	„	1531·7	871·3	..	14·5	10·0	5·3	9·0	56	..	2·9	..	0·2	0	0	2	1	0	1	0	0	0	0	0	29	0
	1730	„	1508·8	868·9	..	12·5	9·1	5·6	9·1	64	..	3·2	..	0·5	0	0	0	1	0	0	0	0	0	2	2	26	0
Sikkim																											
Lachen	0830	..	..	.	..	4·0	1·3	—2·8	5·0	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ceylon																											
Mannar	0830	4	1013·8	1013·5	..	25·4	23·6	22·7	27·6	85	..	3·9	..	10·0	0	1	30	3	18	6	4	0	0	0	0	0	0
	1730	„	1010·7	1010·3	..	27·3	23·9	22·1	26·6	75	..	5·3	..	13·3	0	5	25	9	17	4	0	0	0	0	0	1	0
Trincomale	0830	3	1013·2	1012·9	—0·1	26·5	23·8	22·7	27·6	80	—3	4·7	+0·4	14·9	0	10	19	6	14	2	2	1	3	0	1	2	0
	1730	„	1010·6	1010·2	..	27·0	24·0	22.5	27·3	77	..	5·2	..	18·4	0	12	19	8	19	2	1	0	0	0	1	0	0
Batticaloa	0830	3	1013·5	1013·3	..	25·8	23·8	22·9	27·9	83	..	5·2	..	13·7	0	6	25	1	11	2	0	1	2	6	8	0	0
	1730	„	1010·7	1010·4	..	20·5	24·0	22.9	27·9	79	..	5·1	..	16·5	0	9	21	4	21	3	1	0	0	1	0	1	0
Colombo	0830	7	1012·8	1012·0	+0·1	25·0	22·7	21·4	25·5	81	—4	3·5	—0·6	7·7	0	7	19	7	13	2	3	0	1	0	0	5	0
	1730	„	1009·5	1008·7	.	27·9	24·1	22·1	26·6	71	..	4·7	..	12·1	0	16	14	8	1	2	1	1	3	3	11	1	0
Hambantota	0830	15	1012·6	1010·9	+0·8	25·7	23·3	21·9	26·4	80	—5	3·1	—0·3	19·0	0	14	16	0	24	3	1	1	0	0	1	1	0
Hydrometeorological Observatories	1730	„	1009·4	1007·5	..	27·3	24·1	22·6	27·4	76	..	4·4	..	30·4	0	23	0	0	8	16	4	0	3	0	0	0	0
Damodar Catchment																											
Tilaiya	0830	..		..	..	15·8	12·3	8·7	11·3	64	..	1·2	..	5·5	0	0	..	1	1	3	3	0	3	9	2	9	0
	1730	..	.	..	..	19·7	13·7	8·0	10·7	48	..	1·4	..	4·3	0	0	27	7	1	1	1	0	0	13	4	4	0
Hazaribagh	0830	615	1017·9	947·5	..	15·2	11·7	8·5	11·1	65	..	1·1	..	5·2	0	0	26	3	0	2	3	0	3	3	12	5	0
	1730	„	1014·2	944·5	..	18·1	12·8	8·1	10·9	53	..	1·8	..	2·9	0	0	20	3	1	0	1	1	1	3	10	1	0
Konar	0830	..	.	..	..	.	..	..	..	..	..	1·6	..	..	0	0	31	0	0	0	0	0	0	31	0	0	0
	1730	..		..	..	..	..	.	..	.	..	1·7	..	..	0	3	28	0	1	0	0	0	0	30	0	0	0
Bokaro	0830	242	1018·8	990·3	..	14·7	12·0	9·6	11·7	72	..	1·5	..	..	0	0	26	1	0	0	1	0	3	17	4	5	0
	1730	„	1014·9	987·0	..	18·7	14·6	11·2	13·1	59	..	1·9	..	..	0	0	26	12	2	1	0	0	0	0	11	5	0
Maithon*	0830	..	..	..	..	..	..	..	..	.	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ramgarh	0830	..	..	..	..	13·5	11·7	9·7	12·7	78	..	1·2	..	2·0	0	0	19	1	1	0	0	4	5	6	2	12	0
	1730	..	..	..	..	21·0	16·3	12·7	14·8	60	..	2·1	..	0·7	0	0	7	0	4	1	1	0	1	0	0	24	0
Panchet Hills	0830	..	..	..	..	17·3	14·2	11·5	13·7	69	..	2·3	..	3·5	0	0	26	0	1	1	0	1	16	4	3	5	0
	1730	..	..	..	..	21·2	15·4	10·3	12·7	50	..	3·0	..	3·8	0	0	19	11	0	2	0	0	0	1	5	12	0
Durgapur	0830	..	..	..	..	18·6	15·3	12·7	14·7	69	..	1·7	..	5·4	0	0	31	8	2	1	4	0	0	1	15	0	0
	1730	..	..	..	..	23·1	17·3	13·0	14·9	53	..	1·0	..	5·4	0	0	31	7	9	1	0	3	2	0	9	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	15·6	12·7	10·1	12·3	69	..	.	..	..	..		..		..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1017·8	999·3	..	19·3	16·1	13·6	15·6	71	..	2·3	..	5·5	0	0	24	10	0	7	6	0	0	0	1	7	0
	1730	„	1013·6	995·5	..	24·3	18·1	13·6	15·7	53	..	2·4	..	2·7	0	0	18	4	1	1	1	1	0	0	10	13	0
Bhimkund	0830	..	..	..	..	16·3	14·4	13·2	14·9	79	..	1·8	..	0·8	0	0	8	5	0	0	0	0	0	0	3	23	0
	1730	.	..	..	..	22·1	16·7	12·4	14·7	55	..	2·6	..	0·3	0	0	3	0	1	0	0	0	0	0	2	28	0
Sonepur	0830	..	..	..	..	19·1	17·2	15·9	18·2	81	..	.	..	4·3	0	0	25	1	3	12	5	0	2	2	0	6	0
Khijrawan	0830	..	..	..	.	18·6	16·0	14·0	16·1	75	..	(c) 1·7		(c) 3·6	0	0	21	0	0	9	8	0	1	0	0	7	3
†	1730	..	..	..	..	25·3	21·0	18·6	21·4	67	..	..	.	..	0	0	10	1	2	3	1	0	0	0	0	4	3
Narmada Catchment																											
Bagra Tawa	0830		..	.	..	15·1	11·7	8·1	11·6	64	..	1·9	..	8·6	0	0	31	0	21	4	0	0	5	1	0	0	0
	1730	..	.	..	..	24·9	16·7	10·0	12·4	40	..	1·4	..	3·8	0	0	18	0	9	4	0	0	4	0	1	13	0
Punasa	0830	..	..	..	..	18·1	13·3	8·6	11·5	55	..		..	3·6	0	0	18	2	15	0	0	0	0	1	0	13	0
Thikri	1730	..	..	..	..	28·0	17·7	9·3	11·9	32	..		..	1·2	0	0	8	0	3	0	2	0	0	2	1	23	0
	0830	..	..	.	..	19·4	13·8	9·0	11·4	51	..	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jharol (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Daroi	0830	..	..	..	..	16·2	10·8	4·5	8·4	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·5	14·5	4·4	8·2	27	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..

(k) Mean of 20 days † Wind observations for 14 days. (c) Mean of 28 days. *Data not available (R) Register not received. (L) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Ganga Catchment																											
Mukhim	0830	..			..	6·5	2·9	—2·3	5.1	57	..	2·8															
	1730	..			..	7·5	4·1	—0·3	6·0	60	..	3·5															
Tehri	0830	..			..	6·4	5·8	5·3	8.9	93	..	3·2	..	0·6	0	0	5	1	0	2	1	1	0	0	0	26	0
	1130	..			..	12·9	9·2	5·3	8·9	61	..	3·8	.	1·5	0	0	14	1	3	1	0	0	1	4	4	17	0
	1730	..			..	15·5	10·7	5.9	9·3	54	..	3·9	..	2·0	0	0	19	0	2	0	9	4	2	0	1	12	1
Gandak Catchment																											
Jomosom	0830	..			..	2·1	—1·0	—5·6	3·8	56	..	..	..														
	1730	..			..	5·1	1·4	—3·5	4·6	54	..	..	..														
Khudi Bazar	0830	..			..	12·4	9·2	6·6	9·7	68	..	..	..														
	1730	..			..	17·2	12·3	8·9	11·4	58	..	..	..														
Timure	0830	..			..	6·3	2·9	—1·7	5.3	56	..	..	..														
	1730	..			..	9·9	6·7	3·3	7·7	64	..	..	..														
Pokhara	0830	..			..	12·0	9·6	7·2	10·2	73	..	1·8	..	4·1	0	0	23	9	10	1	0	0	0	0	3	8	0
	1730	..			..	16·1	12·2	8·9	11·4	63	..	2·8	..	1·9	0	0	12	3	3	1	2	0	1	0	2	19	0
Gorkha*	0830	..																									
	1730	..																									
Nuwakot	0830	..			..	12·7	10·4	8·3	10·9	75	..	..	..														
	1730	..			..	12·5	11·5	7·9	10·7	61	..	..	..														
Chaghara Catchment [*Trans Himalayan Region*]																											
Dailekh [R]	0830																										
[R]	1730	..																									
Chaghara Catchment																											
Mansiari*	0830	..																									
	1730	..																									
Dadeldhura	0830	..			..	6·7	3·7	—0·4	6·1	65	..	3·6															
	1730	..			..	7·4	4·5	1·0	6·6	67	..	3·8															
Butwal	0830	..			..	19·7	14·7	10·5	12·7	55	..	..															
	1730	..			..	20·4	15·9	12·4	14·4	60	..	..															
Baghmati Catchment																											
Katmandu†	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara	0830	..			..	9·7	7·2	4·7	8.5	71	..	..															
	1730	..			..	13·5	8·3	3·1	7·6	49	..	..															
Chepua	0830	..	..	..	..	6·5	4·2	2·2	7·2	75	.	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·7	6·6	5·1	8·8	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..			..	4·6	1·6	—2·2	5·1	61	..	..															
	1730	..			..	7·0	—1·2	—3·7	4 5	73	..	..															
Kosi Catchment																											
Taplethok	0830	..			..	11·1	7·5	3·4	7·8	59	..	..															
	1730	..			..	13·3	8·9	4·2	8·2	54	..	..															
Bhojpur	0830	..			..	11·3	8·3	5·5	9·0	67	..	..															
	1730	..			..	10·3	8·4	6·7	9·8	78	..	..															
Taplejung	0830	..			..	8·5	6·3	4·0	8·1	74	..	3·0															
	1130	..			..	13·0	8·8	4·8	8·7	58	..	2·9															
	1730	..			..	10·4	7·2	3·8	8·1	64	..	2·9															
Okhaldhunga	0830	..			..	9.2	6·9	4·6	8·5	73	..	2·8	..	2·5	0	0	11	0	1	1	3	2	1	2	1	20	0
	1130	..			..	12·6	8·5	4·6	8·5	59	..	3·5	..	4·8	0	0	29	3	3	0	0	2	1	16	4	2	0
	1730	..			..	9·2	7·3	5·5	9·0	76	..	4·7	..	4·9	0	0	18	0	0	2	0	0	1	13	2	13	0
Chainpur	0830	..			..	11·8	9·6	7·5	10·4	75	..																
	1730	..			..	12·6	10·3	8·2	10·9	75	..																
Angbung	0830	..			..	13·7	10·4	7·3	10·2	65	..	..															
	1730	..			..	15·3	10·9	6·7	9·8	57	..	..															
Barahakshetra	0830	146	1019·1	1007·7	..	14·2	12·4	10·8	12·9	80	..	2·0	..	4·7	0	0	28	0	10	4	6	3	3	0	2	3	0
	1130	,,	1017·2	1000·3	..	20·8	15·6	11·4	13·5	56	..	2·1	..	4·8	0	0	29	0	4	0	1	0	16	4	4	2	0
	1730	,,	1014·6	297·6	..	18·3	15·0	12·4	14·4	69	..	3·2	..	4·4	0	0	26	0	4	13	7	1	0	0	1	5	0
Tista Catchment																											
Gangtok	0830	1812	1532·8	822·0	..	7·3	5·7	3·9	8·1	80	..	3·6	..	0·4	0	0	4	0	2	0	0	2	0	0	0	27	0
	1130	,,	1519·1	821·2	..	12·0	8·8	6·0	9·3	67	..	4·2	..	1·7	0	0	18	0	1	0	0	5	12	0	0	13	0
	1730	,,	1504·8	819·5	..	9·2	7·5	5·8	9·3	80	..	6·4	..	1·4	0	0	11	1	1	0	1	5	3	0	0	20	0
Gezing	0830	..	..	..	..	11·7	8·8	6·2	9·5	69	..																
	1730	..	..	..	..	11·1	8·5	6·1	9·4	71	..																

(R) Register not received. †Data included under "Nepal". *Data not reliable.

MONTHLY MEANS OF UPPER WINDS

January 1961 (Pausa 11—Magha 11, 1882 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1.	Agartala	23°53′	91°15	17	28th Nov. 1951	0530	1730	2330	
2.	Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
3.	Amausi	26°45′	80°53′	133	20th Nov. 1950	0530	1730	2330	
4.	Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1730	2330	
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530	1730	2330	
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530	1730	2330	
7.	Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1730	2330	
8.	Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530	1730	2330	
9.	Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
10.	Bamrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
11.	Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
12.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530	1730		
13.	Begumpet	17°27′	78°28′	543	1st Sep. 1929	0530	1730	2330	
14.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1730	2330	
15.	Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1730	2330	
16.	Bhuj	23°15′	69°48′	90	14th Sep. 1937	0530	1730	2330	
17.	Bikaner	28°00′	73°18	229	18th Oct. 1946	0530	1730	2330	
18.	Chikalthana	19°51′	75°24′	583	7th Oct. 1951	0530	1730	2330	
19.	Cochin†	09°56′	76°14′	13	16th Mar. 1942	0530	1730	2330	
20.	Darjeeling	27°03′	88°16′	2115	21st May 1956	0830	1730		
21.	Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530	1730		
22.	Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130*	1730*	2330*
23.	Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
24.	Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530	1730	2330	
25.	Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1730	1730*	2330
26.	Gaya	24°45′	84°57	119	19th Mar. 1937	0530	1730	2330	
27.	Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530	1730	2330	
28.	Gorakhpur	26°45′	83°22	83	5th Jan. 1943	0530	1730		
29.	Gwalior	26°14	78°15′	208	7th May 1938	0530	1730	2330	
30.	Imphal	24°51′	93°58′	805	8th Mar. 1952	0530	1730	2330	
31.	Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
32.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530	1730	2330	
33.	Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
34.	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1730		
35.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
36.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
37.	Madras	13°00′	80°11′	29	8th Apr. 1926	0530*	1130*	1730*	2330*
38.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1730	2330	
39.	Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1730	2330	
40.	Nagpur	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	Nanpara	27°50′	81°30′	142	23rd Apr. 1957	0530	1730		
42.	New Delhi	28°35′	77°12′	227	20th Oct. 1936	0530*	1130*	1730*	2330*
43.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530	1730	2330	
44.	Port Blair	11°40′	92°43′	93	29th Oct. 1945	0530*	1130	1730*	2330
45.	Raipur	21°14′	81°39	308	15th July 1944	0530	1730	2330	
46.	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530	1730		
47.	Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130*	1730*	2330*
48.	Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
49.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
51.	Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530	1730	2330	
52.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530*	1130	1730*	2330
53.	Visakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·0	327	31	1·6	1·1	295	31	1·3	0·6	343	31	2·6	2·1	043	31	2·8	1·5	001	31	2·3	1·6	008
0·15 a. g.	31	3·6	1·5	013	31	3·0	2·1	283	31	3·7	2·0	331	31	8·8	7·2	055	31	3·5	2·1	005	31	7·6	5·7	016
0·3 a. m. s. l.	31	3·6	1·9	014	31	2·9	1·9	283	31	3·4	2·4	330	31	8·6	7·0	063	31	3·9	1·9	359	31	7·0	5·0	015
0·6 ,,	31	3·1	1·1	016	31	2·7	1·5	262	31	2·4	1·6	320	31	6·4	4·1	065	31	4·2	2·2	356	31	5·8	3·8	016
0·9 ,,	31	3·1	0·3	265	31	2·7	1·2	241	31	2·4	1·1	290	31	4·0	1·4	025	31	4·2	1·7	348	31	4·6	2·1	034
1·5 ,,	31	4·8	3·2	256	31	4·2	2·5	253	31	4·7	3·3	234	31	4·5	2·5	271	31	4·3	1·6	292	31	5·1	2·4	240
2·1 ,,	30	7·0	6·4	273	31	6·4	5·3	262	31	6·3	5·3	264	31	6·6	5·6	261	30	5·9	4·2	268	31	6·2	4·3	250
3·0 ,,	29	11·3	10·6	285	31	11·0	10·1	277	29	9·9	9·2	278	30	8·7	7·1	256	29	10·3	8·6	261	31	8·5	6·8	259
3·6 ,,	27	13·0	11·8	277	30	14·9	14·0	279	11	8·5	8·1	280	4	8·0	5·1	293	28	12·2	10·8	267	1	3·5	3·5	230
4·5 ,,	15	14·8	13·4	278	29	17·3	16·5	275	2	7·2	7·2	293	1	12·5	12·5	295	27	16·0	14·1	278				
5·4 ,,	10	15·6	14·0	279	23	19·2	18·5	274									27	19·2	17·6	274				
6·0 ,,	4	11·2	10·5	280	21	21·7	20·9	275									27	20·9	19·6	273				
7·2 ,,					8	21·4	20·3	267									19	27·4	26·2	271				
9·0 ,,					4	24·5	23·7	266									3	34·0	33·9	284				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·7	312	31	2·9	2·0	306	31	2·0	0·9	280	31	1·9	0·5	025	31	2·4	1·3	315	31	2·2	0·8	323
0·15 a. g.	29	5·3	2·3	326	30	3·7	2·2	313	31	5·7	2·5	320	30	7·8	3·4	352	30	5·1	1·7	295	29	8·3	5·2	331
0·3 a. m. s. l.	29	5·1	2·3	326	30	3·7	1·8	312	31	5·1	2·6	310	30	3·2	1·1	354	30	2·9	1·5	294	29	3·2	1·7	329
0·6 ,,	28	4·6	1·8	305	30	4·3	2·1	299	31	5·6	1·7	317	30	7·1	3·0	348	30	5·4	2·1	300	29	7·7	4·9	328
0·9 ,,	27	4·9	2·8	295	30	4·9	2·7	300	31	5·4	1·7	300	30	6·5	2·4	344	30	5·8	2·4	310	29	6·5	3·6	330
1·5 ,,	27	6·9	5·9	301	30	6·1	4·7	300	31	6·4	4·0	291	30	6·0	1·3	319	30	5·5	1·3	323	29	5·1	1·6	306
2·1 ,,	27	7·4	6·1	293	30	7·8	6·7	293	29	7·0	5·9	281	29	6·3	2·0	269	30	5·6	0·6	268	29	5·3	1·2	260
3·0 ,,	26	9,6	8·8	287	29	12·0	10·5	284	26	10·0	8·0	279	28	6·9	3·7	257	28	7·3	4·0	269	25	6·0	4·5	286
3·6 ,,	15	10·1	9·4	282	25	13·8	12·6	281	11	9·7	7·5	281	25	8·5	5·5	268	27	9·7	6·0	268	10	8·7	8·0	283
4·5 ,,	13	14·3	13·4	279	23	16·5	15·6	276	6	11·4	9·2	275	19	12·0	9·4	277	24	14·5	11·2	276	4	16·3	15·6	293
5·4 ,,	3	16·5	16·0	280	14	19·3	18·5	279	2	14·5	14·2	282	11	17·3	16·0	273	20	21·2	18·2	281				
6·0 ,,					11	22·1	20·3	272	1	16·0	16·0	275	5	20·4	19·5	276	17	21·3	20·3	276				
7·2 ,,					5	19·2	18·7	281					1	20·5	20·5	255	7	26·1	25·4	288				
9·0 ,,					3	26·8	26·2	273																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1·2	099	31	5·2	5·0	082	31	4·7	4·5	101	31	0·9	0·9	304	31	0·8	0·5	320	31	0·6	0·2	357
0·15 a. g.	31	4·4	3·3	110	31	6·5	6·3	085	31	7·5	7·1	104	31	4·8	3·7	334	31	3·1	1·9	345	31	5·6	3·5	017
0·3 a.m.s. l.													31	5·0	3·4	348	31	3·0	1·7	338	31	5·6	3·6	017
0·6 ,,	31	5·2	4·1	114	31	5·9	5·7	089	31	7·8	7·5	104	31	5·5	3·0	331	31	3·2	1·8	326	31	4·3	1·7	006
0·9 ,,	31	7·0	6·0	107	31	5·7	5·5	089	31	7·5	7·2	105	31	5·4	2·9	304	31	3·5	2·3	314	31	4·1	1·9	297
1·5 ,,	29	6·9	5·7	089	31	6·2	5·7	096	30	5·0	4·1	091	31	6·7	4·6	298	31	6·1	5·3	300	31	6·4	5·0	284
2·1 ,,	28	5·7	4·1	083	31	6·0	4·8	095	30	5·3	2·9	088	31	8·3	7·2	294	30	8·7	8·1	295	31	8·5	7·4	295
3·0 ,,	26	5·7	1·3	114	28	6·4	2·1	084	30	4·9	1·3	092	26	12·1	9·9	283	30	12·6	11·9	290	29	11·5	10·7	286
3·6 ,,	24	5·7	1·0	049	27	6·4	1·5	037	26	5·4	0·9	060	21	12·8	10·9	282	29	14·6	13·6	285	19	11·0	9·6	274
4·5 ,,	24	6·7	1·4	344	25	6·5	1·0	322	21	6·1	1·6	329	12	14·4	12·5	293	22	17·7	16·0	280	14	12·9	10·7	288
5·4 ,,	24	6·4	2·4	300	24	7·5	2·2	283	13	6·9	4·7	278	6	19·2	14·9	269	13	19·6	18·4	273	4	9·5	4·5	282
6·0 ,,	23	7·7	4·0	299	23	7·9	3·0	292	7	6·4	3·2	334	2	22·3	17·7	277	8	21·6	20·4	272	3	11·3	4·5	249
7·2 ,,	20	9·7	7·3	289	21	10·8	8·8	282	3	9·2	8·9	258									2	18·7	9·5	219
9·0 ,,	10	19·5	17·3	254	13	19·7	16·4	274																

Station	BAGHDOGRA												BAIRAGARH											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·8	028	31	1·8	1·1	233	31	1·4	0·9	338	31	2·9	2·1	088	31	2·3	1·3	034	31	3·5	2·7	057
0·15 a. g.	27	2·8	2·2	055	31	3·0	2·1	241	31	3·0	1·4	317	28	6·9	5·7	098	31	3·4	1·9	031	31	7·4	5·9	070
0·3 a. m. s. l.	27	2·9	2·1	065	31	3·0	2·1	242	31	3·0	0·9	298												
0·6 ,,	27	3·0	2·5	080	31	3·1	2·2	246	31	2·5	1·1	282	28	6·5	5·5	091	31	3·3	1·8	031	31	7·2	6·0	065
0·9 ,,	27	3·1	1·7	085	31	3·0	2·0	242	31	2·2	0·3	256	28	6·3	3·8	133	31	3·5	1·3	023	31	5·6	3·1	090
1·5 ,,	27	3·4	1·3	078	31	3·1	1·5	270	31	3·3	0·5	117	27	5·6	3·5	241	31	4·0	2·3	252	31	4·8	3·3	236
2·1 ,,	24	5·4	1·0	108	28	4·1	1·2	307	30	4·5	0·5	218	27	7·9	5·6	253	31	7·2	6·1	252	31	7·8	5·6	250
3·0 ,,	23	8·7	5·8	277	24	8·5	7·3	279	23	8·1	6·5	275	27	9·1	7·8	268	30	10·2	8·2	258	29	10·0	8·2	263
3·6 ,,	18	10·3	8·1	279	21	12·9	12·0	280	14	10·5	10·3	277	22	11·0	9·6	282	29	12·2	10·5	260	2	5·0	1·1	330
4·5 ,,	11	13·7	13·3	282	18	16·0	15·7	283	4	12·9	12·6	276	21	13·2	12·3	281	28	15·8	14·1	263				
5·4 ,,	8	14·9	14·2	282	15	19·9	19·6	282	1	17·5	17·5	280	19	16·5	15·5	277	26	16·7	15·5	271				
6·0 ,,	5	14·8	13·7	290	13	22·9	22·2	282					19	18·9	17·6	276	24	18·7	17·7	274				
7·2 ,,	2	17·0	15·7	285	6	27·6	26·7	286					15	24·5	23·2	276	18	23·8	22·4	270				
9·0 ,,					3	38·5	32·3	297					7	28·3	24·7	270	6	32·6	31·4	270				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n*	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	2·1	085	31	3·5	2·3	299	31	1·2	0·8	030	31	0·7	0·3	293	31	1·6	0·7	303	31	1·1	0·6	350
0·15 a. g.	31	5·3	4·1	076	31	4·1	2·7	286	31	4·0	2·8	353	31	3·6	1·5	338	28	2·4	0·8	326	31	3·9	2·3	336
0·3 a. m. s. l.	31	6·1	4·6	076	31	4·1	2·4	286	31	4·1	3·0	337	31	3·5	1·5	337	28	2·5	0·7	322	31	3·9	2·3	337
0·6 ,,	31	6·0	4·5	076	31	2·9	0·6	040	31	4·0	2·3	347	31	4.0	2·3	317	28	3·6	1·6	296	31	4·3	2·4	345
0·9 ,,	31	5·6	3·8	082	31	3·5	2·4	089	31	3·9	1·6	043	31	4·4	2·3	330	29	4·9	2·9	299	31	4·6	2·8	324
1·5 ,,	31	5·1	3·8	110	31	5·9	5·3	090	31	6·2	5·2	100	31	6·5	4·9	287	29	7·4	5.4	297	31	5·4	4·1	296
2·1 ,,	30	5·7	4·0	099	31	7·3	6·4	089	31	7·7	7·1	100	31	9·1	7·3	281	28	9·6	7·4	285	31	8·9	7·7	283
3·0 ,,	26	6·1	3·1	105	30	5·9	2·4	073	30	5·4	3·0	098	31	11·2	9·4	276	28	11·3	9·2	280	31	12·5	10·8	270
3·6 ,,	26	6·1	2·1	087	30	6·1	1·9	062	28	5·4	1·8	062	30	13·5	11·5	273	28	13·0	10·9	271	31	14·0	12·3	269
4·5 ,,	23	7·0	1·9	075	30	6·0	2·1	077	21	5·1	0·3	090	29	15 8	14·1	274	27	15·0	13·3	274	31	16·3	14·5	269
5·4 ,,	19	6·3	1·3	092	30	6·5	1·3	048	14	4·7	0·3	272	29	17·9	16·4	272	20	17·9	16·9	275	31	19·7	18·6	269
6·0 ,,	17	6·3	0·9	331	29	6·4	1·3	301	8	5·9	3·8	304	29	20·3	19·0	268	16	19·1	18·2	274	31	23·0	21·6	266
7·2 ,,	15	8·6	4·2	305	27	8·8	4·7	297	3	5·5	4·9	285	28	26·2	25·0	262	11	23·9	22·2	276	31	27·4	26·2	264
9·0 ,,	7	17·1	14·7	266	18	14·8	11·9	266	1	21·5	21·5	260	23	32·6	30·9	263	2	25·5	24·0	269	30	33·9	32·6	263

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·3	317	31	3·5	3·2	080	31	3·9	3·4	094	31	4·2	4·1	087	31	1·4	0·3	056	31	1·5	0·2	300
0·15 a. g.	31	5·3	2·1	359	23	7·8	7·0	091	31	5·2	4·6	095	28	9·1	8·8	100	30	5·8	1·8	352	31	3·8	1·2	290
0·3 a. m. s. l.	31	4·8	1·8	007													30	5·3	1·8	350	31	3·7	1·1	283
0·6 ,,	31	4·9	1·4	331													29	6·3	1·4	326	31	4·9	1·6	294
0·9 ,,	31	4·4	2·7	294													29	5·6	1·1	337	31	8·7	2·1	298
1·5 ,,	31	5·7	4·8	291	23	7·5	6·2	086	31	6·3	5·9	093	28	8·3	7·4	100	29	6·1	2·8	303	31	6·4	3·2	318
2·1 ,,	29	8·7	7·3	284	22	5·8	4·5	079	30	6·1	5·4	087	27	5·8	3·7	092	28	6·6	4·5	292	30	6·7	4·0	305
3·0 ,,	21	10·5	9·0	275	21	5·5	3·4	095	28	5·4	1·9	055	25	5·6	3·0	085	27	8·7	6·5	278	29	8·6	6·4	293
3·6 ,,	5	10·1	9·9	287	18	4·9	1·1	068	24	5·5	1·0	012	25	5·5	2·8	085	25	11·1	9·3	274	28	11·7	9·9	287
4·5 ,,	1	8·5	8·5	305	15	4·8	0·4	227	21	6·6	0·6	291	21	5·7	1·5	045	18	13·0	12·0	274	27	15·5	13·9	284
5·4 ,,					12	5·9	1·8	293	20	6·3	2·0	296	19	5·9	1·5	325	13	14·9	13·8	272	23	19·7	18·1	284
6·0 ,,					7	6·3	2·8	301	18	6·0	2·5	267	15	5·2	2·1	272	6	17·5	17·3	261	21	22·5	22·5	284
7·2 ,,					2	5·0	2·7	049	15	9·7	8·2	272	7	7·9	6·6	273	2	16·5	16·4	255	11	25·0	24·1	276
9·0 ,,					1	5·0	5·0	325	10	20·7	18·9	263	2	20·3	20·1	282					4	25·6	24·0	269

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·8	117	31	3·1	2·6	098	31	0·9	0·7	098	31	1·4	1·2	253	31	1·4	1·2	289	31	1·7	1·2	027
0·15 a. g.	30	4·5	4·1	124	31	4·8	3·9	102	31	5·0	4·3	115	31	4·2	2·4	279	31	3·3	2·6	294	31	3·8	1·7	040
0·3 a. m. s. l.													31	4·9	2.8	306	31	3·6	2.8	294	31	3·8	1·0	084
0·6 ,,	30	2·9	2·7	118	31	4·5	3·7	102	31	3·4	2·9	109	31	4·6	2·4	311	31	3·6	2·7	297	31	3·6	0·9	110
0·9 ,,	30	5·9	5·1	119	31	4·8	3·9	100	31	5·7	4·9	115	31	4·4	1·8	290	31	3·9	2·4	296	31	4·0	1·1	055
1·5 ,,	30	5·9	3·9	094	31	4·8	3·2	100	31	5·3	3·3	092	30	5·3	2·8	290	31	5·6	3·8	292	28	4·8	3·6	337
2.1 ,,	29	6·7	2·9	060	31	5·1	2·1	087	31	5·5	1·6	071	30	6·9	5·2	293	30	7·9	6·7	292	27	5·9	4·2	327
3·0 ,,	25	5·1	0·1	090	30	5·0	0·2	090	30	5·6	0·9	332	27	11·9	11·2	294	29	11·8	11·0	293	27	6·3	4·5	299
3·6 ,,	24	5·1	1·5	300	25	4·8	1·3	315	23	6·0	1·9	301	25	13·8	13·0	286	29	15·1	14·5	285	27	7·5	6·4	282
4·5 ,,	23	6·0	3·1	293	24	5·9	3·1	299	3	6·7	5·1	273	18	14·2	12·9	282	27	17·1	16·2	280	27	9·1	8·1	277
5·4 ,,	23	7·8	6·0	284	23	7·4	4·7	280					10	17·5	16·0	267	25	19·4	18·4	275	23	12·1	11·1	275
6·0 ,,	22	9·3	7·7	280	21	8·9	7·3	273					4	22·7	21·7	254	24	21·9	20·9	273	17	14·1	12·8	272
7·2 ,,	16	12·1	10·9	280	12	12·0	10·5	288					2	14·7	13·5	264	18	22.7	21·4	274	6	16·5	16·2	255
9·0 ,,	6	13·7	12·3	285	10	20·2	19·1	280									3	20·2	19·1	279	2	20·3	20·1	262

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·5	101	31	2·2	1·3	140	31	0·9	0·5	015	31	4·1	3·1	018	31	1·6	0·9	345	31	0·4	0·3	093
0·15 a. g.	30	2·9	1·0	079	30	5·5	4·0	139	31	6·6	5·3	029	31	4·5	3·4	013	31	6·0	4·2	010	28	5·3	1·8	106
0·3 a. m. s. l.	30	3·0	0·8	087	30	4·8	3·4	160	31	7·4	5·7	032	31	4·6	3·5	013	31	6·5	4·6	014	28	4·4	2·5	101
0·6 ,,	29	2·4	0·3	003	30	4·1	1·8	181	31	7·1	5·3	033	31	4·9	3·7	017	31	6·8	5·3	019	28	4·8	1·5	060
0·9 ,,	29	3·0	1·5	342	29	4·0	0·9	292	31	5·8	3·8	030	31	5·0	3·7	017	31	5·8	4·5	024	28	4·5	1·0	032
1·5 ,,	28	5·3	4·0	330	29	5·6	4·0	349	31	4·8	2·4	335	31	4·6	2·6	337	31	4·7	2·2	334	28	4·8	2·1	308
2·1 ,,	28	6·8	5·9	325	29	6·2	4·8	334	31	5·7	4·3	281	30	5·8	4·6	280	31	6·0	4·2	274	27	5·0	3·4	282
3·0 ,,	27	7·8	6·4	309	27	6·3	4·5	309	30	8·3	7·4	269	30	9·7	8·3	269	30	9·1	7·7	265	25	8·4	6·7	274
3·6 ,,	25	8·7	7·3	292	17	7·1	5·1	300	9	10·3	9·6	266	29	11·6	10·0	273	18	9.7	7·9	271	23	10·5	9·0	263
4·5 ,,	24	11·1	10·0	274	5	9·7	8·4	281	1	11·0	11·0	245	29	14·4	13·2	271	4	11·3	8·0	264	16	13·7	12·1	274
5·4 ,,	23	13·0	12·2	268	2	13·7	13·7	253					29	17·0	15·8	270					4	14·3	14·3	291
6·0 ,,	18	14·4	12·9	269	1	17·5	17·5	260					29	18·0	16·7	269								
7·2 ,,	13	18·9	17·4	272									3	17·3	17·1	262								
9·0 ,,	3	21·8	18·0	285																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January 1961 (Pausa 11, —Magha 11, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0.5	003	31	0·9	0·7	001	31	0·6	0·3	301	31	1·5	0·4	238	31	0·8	0 3	006	31	1·5	1·3	045
0·15 a. g.	30	3·0	1·5	008	31	5·3	3·3	033	31	5·0	2·8	083	31	2·8	0·8	203	31	5·7	3·3	055	31	3·4	2·8	064
0·3 a. m. s. l	30	2·6	1·5	014	31	4·7	2·6	025													31	3·2	2·5	056
0·6 ,,	30	4·3	1·4	018	30	4·8	2·5	037													31	3·0	2·1	072
0·9 ,,	30	4·3	1·5	010	30	3·8	1·2	056	31	5·9	2·7	115	31	2·8	0·9	187	31	6·0	3·6	077	31	2·7	1·9	083
1·5 ,,	28	4·3	0·9	320	30	4·0	1·3	237	31	5·0	3·6	162	31	3·1	0·8	221	31	3·6	2·1	135	31	3·8	2·4	070
2·1 ,,	28	5·1	3·0	268	30	5·1	2·8	258	31	5·5	4·0	200	31	4·0	1·5	245	31	4·3	2·4	186	29	4·3	2·2	089
3·0 ,,	28	9·3	7·9	262	27	8·5	6·7	273	31	6·6	3·8	242	31	5·8	2·8	258	31	5·4	3·0	237	27	4·1	2·2	098
3·6 ,,	28	12·4	11·3	265	16	9·8	8·5	279	13	6·8	4·7	252	29	7·6	4·8	255	21	7·6	3·4	282	26	4·0	1·9	086
4·5 ,,	28	15·1	13·8	266	3	9·0	8·8	271	1	2·5	2·5	330	29	9·3	7·5	273	8	6·6	5·5	278	16	4·1	2·5	085
5·4 ,,	22	16·4	15·0	265									27	11·8	10·5	276	2	8·7	8·7	261	7	3·6	3·0	087
6·0 ,,	17	16·5	15·5	272									27	14·9	13·7	272	2	8·3	8·3	257	3	3·3	2·4	108
7·2 ,,	8	19·1	18·6	270									9	15·5	14·1	278								
9·0 ,,	5	25·6	25·3	300																				

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I.S.T.	1730				2330				0830				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·4	2·6	275	31	1·0	0·6	071	31	0·2	0·2	200	31	0·4	0·3	241	31	0·7	0·5	045	31	1·2	0·8	248
0 15 a. g.	31	3·3	2·3	278	31	2·4	0·7	058	19	1·9	0·9	165	15	1·8	1·5	218	29	1·8	1·0	039	30	2·4	1·6	241
0 3 a. m. s. l.	31	3·6	2·4	290	31	2·6	0·7	044																
0·6 ,,	31	3·1	1·6	356	31	2·6	0·8	078																
0·9 ,,	31	3·3	2·5	048	30	3·2	1·8	092									29	1·9	1·1	076	30	2·4	1·4	242
1·5 ,,	31	4·6	4·0	076	29	3·8	3·0	089									28	2·2	0·8	117	29	2·3	0·4	198
2·1 ,,	30	4·9	4·0	083	29	4·4	3·2	087									28	4·1	1·3	140	29	4·5	1·8	107
3·0 ,,	29	4·6	2·3	072	23	4·7	2 7	088	19	5·0	2·3	273	15	3·7	2 5	292	28	5·4	1·6	233	23	5·7	1·5	295
3·6 ,,	28	4·6	1·4	063	18	4·9	3 7	093	16	6·9	5·4	278	13	6·7	6·3	280	26	7 0	4·2	270	22	8·4	4 4	279
4·5 ,,	23	3·9	1·2	064	11	5·5	1·7	092	14	12·9	12·1	276	11	13·7	13·2	273	22	11·2	9·5	272	20	12·4	9·8	283
5·4 ,,	21	4·4	2·2	093	4	4.1	3·4	108	13	14·4	14·2	277	7	18 1	17 1	265	17	15·5	13·8	270	18	16 0	13·7	278
6·0 ,,	20	4·7	0·5	068	4	4·7	4·4	116	8	21·0	20·4	277	5	24·1	22·3	263	13	20·7	18·8	271	16	19·2	19·0	279
7·2 ,,	15	7·0	3·2	298	1	4·0	4·0	185	4	28·6	27·9	272	2	21·5	19 2	270	3	17·5	17·4	293	9	24·4	20·5	285
9·0 ,,	8	12·4	9·0	248					1	22·5	22·5	245	1	33·5	33·5	240					3	20·8	18·7	291

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I.S.T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	0·7	0·5	358	31	1·5	0·9	330	31	0·2	0·1	270	31	0·4	0·1	266	31	4·3	3·3	109	31	3·9	3·2	095
0·15 a. g. .	30	3·3	2·1	001	31	2·4	1·4	319	31	2·7	2·4	327	31	3·5	1·3	004	31	7·8	6·0	113	31	4·6	3·2	093
0.3 a. m. s. l.	30	3·3	1·8	350	31	4.5	1.6	321	31	2·8	1·8	318	31	3·3	1·4	352								
0·6 „ .	30	3·4	2·0	356	31	2.5	1.7	329	31	2·7	1.7	322	31	3.3	1·9	345								
0·9 „ .	30	3·8	2·2	345	31	3.8	2.8	319	31	4·5	2.3	335	31	3·9	2·8	329	31	9·4	7·5	104	31	5·3	3 4	097
1·5 „ .	30	5·3	4.4	316	31	5·8	4.9	309	31	4·9	4.1	315	31	5·3	4·4	307	31	7·5	6·2	097	31	5·6	4·0	096
2·1 „ .	30	6·4	5·3	300	31	6·5	5.6	303	31	6·9	5·9	295	30	6·8	5·7	298	29	6·3	4·2	093	31	5·7	3·8	091
3·0 „ .	29	8·5	7·4	295	31	10·4	8·9	285	29	9 1	8·2	287	28	9·0	7·8	284	27	6·2	2·4	091	30	5 7	1 9	084
3·6 „ .	28	9·6	8·6	274	30	11.5	10·1	275	29	10·9	9·5	280	25	10·2	9·2	271	26	6·0	1·0	048	29	6·1	0·9	021
4·5 „ .	25	12.7	11.6	268	30	13·4	12·3	273	24	12·5	11.0	272	24	13·1	12·4	268	24	7·3	0·8	332	26	6 8	1·1	341
5·4 „ .	25	15.5	14.7	265	29	16·3	15·2	268	23	15.9	14.9	266	24	15·8	15·2	265	23	6·6	2·9	289	26	7·4	2·8	291
6·0 „ .	24	18.6	17.5	261	28	18·7	17·6	266	23	17.8	16.9	265	24	16·5	15·8	264	20	7·9	4·5	284	26	8·0	3·9	288
7·2 „ .	23	20.8	19.7	265	25	21·0	20·1	264	21	23.4	22.7	265	24	21·0	20·4	262	14	10·4	7·3	286	21	10·6	7·7	277
9·0 „ .	20	26.7	26.7	262	21	27·6	25·8	260	16	29.7	28.7	264	21	25·6	21·9	258	10	17·1	15·0	267	13	17·5	14·7	265

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	4·6	2·7	110	31	2·5	2·3	050	31	3·1	2·8	114	31	1·9	1·7	105	31	0·2	0·2	202	31	1·8	1·2	032
0·15 a. g. .	31	8·7	5·4	097	31	5·0	4·7	077	31	4·2	3·8	118	31	6·6	6·1	116	31	1·9	0·6	099	31	2·3	1·5	025
0·3 a. m. s. l.					31	4·9	4·6	097	31	4·5	4·1	115	31	6·9	6·5	117	31	1·9	0·6	106	31	2.6	1·5	046
0·6 „ .					28	5·3	4·9	105	31	4·6	3·9	101	31	6·6	5·9	104	31	2·5	0·9	102	31	2·8	1.6	070
0·9 „ .	31	8·5	5.9	099	28	5·7	4·8	093	31	4·4	3·6	082	31	5 7	4·9	085	31	3·5	1·5	104	31	3·5	1·5	099
1·5 „ .	31	6·6	5·9	093	28	5·7	4·4	072	30	5·3	4·0	056	31	5·8	4·4	067	31	4·8	0·8	128	31	5·0	1·7	204
2·1 „ .	31	6·0	4·4	088	28	5·9	4·0	071	30	6·1	3·9	055	31	5·6	3·3	069	31	5·7	1·6	252	31	6·7	3·6	249
3·0 „ .	31	5·6	1·5	100	28	5·1	1·1	044	31	5·2	1·0	064	30	4 6	0·9	044	31	10·2	8·6	269	31	11·4	10·0	264
3·6 „ .	30	6·1	1·1	047	24	5·3	1·7	325	31	5·4	1·3	308	18	5·9	2·2	313	31	13·7	12·7	272	31	14·5	13·9	264
4·5 „ .	25	5·7	0·6	002	19	6·3	2·9	304	29	6·3	2·4	271	17	6·1	2·4	290	30	17·7	16·2	270	30	19·3	18·5	269
5·4 „ .	15	5·6	2·9	295	18	6·9	4·4	294	27	8·3	5·5	274	12	7·1	3·3	287	28	21·8	21·2	268	27	24·4	23·7	270
6.0 „ .	6	6.8	4·7	336	15	6·8	4·9	290	26	8·8	7·0	264	8	8·5	6·2	275	28	24·1	23·5	270	24	24·3	23·9	268
7.2 „ .					10	8·5	6·6	280	18	10·1	6·5	271	4	10·0	9·4	246	28	30·6	29·6	269	19	29·8	24·4	271
9·0 „ .					6	20·5	20·0	250	11	21·6	20·5	269					10	41·4	40·3	272	10	39·7	38.5	276

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·1	297	31	0·8	0·5	198	31	1·1	0·5	204	31	2·1	1·5	322	31	0·6	0·2	217	31	2·2	2·1	337
0·15 a. g.	31	2·9	1·1	006	30	2·5	0·4	196	30	4·8	2·9	238	31	3·5	2·6	323	31	5·2	1·9	328	29	4·5	3·5	344
0·3 a. m. s. l.	31	2·9	0·	019	30	2·7	0·2	222	30	5·2	1·9	260	31	3·6	2·5	321	31	5·2	2·3	326	29	3·1	1·0	316
0·6 ,,	31	3·1	0·5	068	30	3·1	0·3	270	30	4·7	2·4	300	31	3·9	2·3	317	31	5·0	2·6	304	29	3·3	0·6	103
0·9 ,,	31	3·1	0·5	257	30	3·0	0·6	272	30	4·6	3·6	292	31	4·5	2·8	295	31	5·5	4·1	280	27	3·7	1·2	060
1·5 ,,	31	4·3	2·8	247	29	3·4	1·0	253	30	6·4	5·1	286	31	7·2	5·9	285	30	7·2	5·7	281	27	5·2	3·3	007
2·1 ,,	31	5·8	4·5	242	27	5·9	2·3	255	27	9·1	7·5	287	29	9·3	8·3	285	24	8·9	7·8	292	27	5·9	4·0	190
3·0 ,,	31	9·3	8·5	262	23	9·7	8·4	264	20	10·6	9·1	293	25	12·5	11·6	285	14	10·0	8·1	292	27	6·1	3·2	319
3·6 ,,	31	14·1	13·4	270	13	9·7	9·3	266	9	10·5	8·9	283	23	14·7	13·4	280	1	5·0	5·0	260	26	6·8	4·9	298
4·5 ,,	30	17·5	17·0	272	4	10·9	10·5	255	5	10·7	9·0	273	12	16·7	15·0	277					16	7·4	5·9	260
5·4 ,,	29	22·6	21·8	271	2	13·5	13·1	269	2	18·5	15·8	263	5	21·8	21·0	262					13	9·3	7·6	266
6·0 ,,	29	26·6	25·5	274					1	26·0	26·0	245	2	24·5	24·5	274					11	11·9	10·6	267
7·2 ,,	27	29·6	28·5	274					1	34·0	34·0	270									4	17·3	17·0	248
9·0 ,,	19	35·1	33·9	270																				

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·5	2·6	103	31	1·2	0·6	290	31	1·3	0·5	267	31	1·6	0·9	261	31	0·6	0·1	135	31	1·5	0·9	023
0·15 a. g.	30	4·3	3·2	100	31	3·3	1·3	124	28	4·9	2·7	303	31	3·2	1·5	273	26	4·6	1·3	019	31	3·3	2·3	009
0·3 a. m. s. l.	30	3·7	2·8	097	31	3·4	1·7	120	28	4·8	2·6	297	31	3·2	1·6	273	26	3·3	0·8	359	30	3·0	2·1	014
0·6 ,,	30	3·3	1·4	057	30	3·2	1·6	112	28	4·5	2·0	290	31	3·5	1·6	291	26	4·7	1·7	339	30	3·5	1·9	003
0·9 ,,	29	3·9	2·5	358	29	3·2	0·9	045	28	4·8	1·8	262	31	2·9	1·5	288	26	4·5	0·9	324	29	3·4	1·7	336
1·5 ,,	29	2·1	4·3	338	29	4·9	3·7	352	28	4·8	2·2	275	30	4·9	2·4	294	26	5·7	2·7	290	29	4·4	3·2	305
2·1 ,,	29	5·9	4·4	334	29	5·6	4·1	342	27	6·6	4·8	292	30	6·8	4·9	291	26	7·4	4·9	278	27	7·6	6·2	282
3·0 ,,	29	6·0	4·3	325	29	5·3	2·5	310	25	10·6	10·2	292	29	10·4	9·5	289	25	11·3	9·4	273	25	11·8	10·4	274
3·6 ,,	29	7·2	4·8	334	14	6·5	4·1	295	24	11·8	11·1	285	28	12·6	11·9	288	24	13·7	12·5	273	24	14·3	12·6	277
4·5 ,,	26	9·7	7·5	282	3	8·8	7·1	251	15	13·0	12·1	258	28	16·0	15·1	279	23	16·7	15·7	275	23	17·1	15·5	276
5·4 ,,	22	10·9	9·9	271					13	15·6	14·7	260	27	20·0	19·0	280	20	18·7	17·6	280	22	19·5	18·8	279
6·0 ,,	21	12·9	11·6	277					8	18·6	17·2	278	25	22·8	21·8	279	19	20·4	19·5	278	18	21·7	20·2	282
7·2 ,,	15	15.3	14.3	271					5	21·9	21·7	270	19	26·7	25·3	277	14	24·1	23·0	274	15	25·4	24·7	305
9·0 ,,	2	20·3	19·6	245									8	32·2	29·7	281	4	24·7	22·7	293	4	33·3	33·0	273

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1961 (Pausa 11— Magha 11, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·2	209	31	0·3	0·1	242	31	2·5	2·2	235	31	0·4	0·2	234	31	0·6	0·5	027	31	1·3	0·9	025
0·15 a. g.	30	4·1	1·6	050	29	0·9	0·4	155	31	3·5	3·1	240	31	1·5	0·4	291	27	4·5	3·2	069	31	3·5	1·9	027
0·3 a. m.s.l.	30	3·4	1·2	047																				
0·6 ,,	29	4·2	1·1	014													27	5·3	3·7	072	31	3·6	2·0	029
0·9 ,,	29	4·0	1·6	322	30	0·9	0·3	181	31	3·5	3·1	240	31	1·4	0·4	169	27	5·0	1·8	085	31	3·5	1·3	001
1·5 ,,	28	4·6	3·6	288	29	2·3	0·7	288	31	4·3	3·8	251	31	2·9	2·3	252	27	6·4	2·9	271	31	5·5	3·5	279
2·1 ,,	27	6·9	6·3	281	29	5·1	3·6	255	31	5·0	4·5	259	29	5·3	4·6	256	26	8·7	6·3	280	30	8·3	6·6	277
3·0 ,,	26	10·3	9·4	275	19	8·5	6·4	266	30	10·7	10·2	254	22	10·3	9·6	270	24	10·1	7·9	284	29	10·8	8·7	267
3·6 ,,	8	13·4	12·8	272	17	10·7	8·3	269	29	14·9	14·0	268	11	11·9	10·7	263	22	10·3	8·3	282	27	12·3	10·1	276
4·5 ,,					13	13·0	7·8	272	24	19·7	19·2	271	5	12·0	10·8	279	16	12·1	10·1	287	25	14·0	12·6	276
5·4 ,,					5	14·0	5·7	259	17	23·6	23·2	272	2	8·2	6·5	286	11	13·4	11·7	280	23	16·0	14·9	273
6·0 ,,					3	12·2	11·4	258	14	25·1	24·6	272					9	15·1	13·8	273	23	18·6	17·5	274
7·2 ,,					1	6·0	6·0	295	8	29·6	29·7	271					3	18·8	15·9	268	16	23·0	21·8	269
9·0 ,,									4	28·7	26·3	277					1	28·0	28·0	255	3	26·5	25·2	275

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	0·7	035	31	0·1	0·1	041	31	1·4	0·3	072	31	0·3	0·2	084	31	1·2	1·0	069	31	1·4	0·4	042
0·15 a. g.	31	5·7	4·1	052	29	2·8	1·5	099	31	3·5	1·1	065	31	4·4	2·7	084	31	4·3	2·6	086	29	2·9	0·9	003
0·3 a. m.s.l.																								
0·6 ,,	31	6·0	4·4	053	29	1·4	0·8	097	31	2·7	0·8	056	31	3·1	1·9	085	31	4·8	2·5	090	29	3·0	0·6	347
0·9 ,,	30	5·4	3·4	051	28	4·8	2·1	065	31	3·5	1·3	050	30	4·6	2·3	076	31	4·4	1·1	107	29	2·9	0·9	335
1·5 ,,	29	6·1	3·3	273	27	5·9	3·0	019	31	3·6	1·7	005	30	3·9	1·6	030	30	4·5	1·9	257	28	3·9	2·6	310
2·1 ,,	28	8·5	6·0	274	27	5·6	2·6	355	30	4·6	2·1	357	29	4·1	1·7	343	29	6·2	4·8	261	28	5·5	4·2	287
3·0 ,,	26	10·3	8·7	280	25	5·5	2·0	327	29	5·2	1·7	310	28	5·2	1·9	302	25	9·8	7·9	263	27	10·6	9·4	274
3·6 ,,	18	11·1	9·5	284	25	5·2	2·0	314	26	5·5	2·4	284	13	4·4	3·0	275	17	11·5	10·5	270	26	13·1	11·6	272
4·5 ,,	1	17·5	17·4	265	24	5·9	3·5	275	25	7·4	4·7	276					5	12·4	11·4	291	23	16·0	14·8	272
5·4 ,,					21	8·5	6·5	277	23	9·3	7·1	282					2	9·7	9·3	310	20	18·0	16·2	276
6·0 ,,					17	10·1	8·1	272	22	10·9	8·8	279									18	20·6	19·0	279
7·2 ,,					6	12·7	11·9	272	11	15·5	14·6	271									11	24·1	23·1	279
9·0 ,,									1	19·5	19·5	270									6	27·8	26·5	295

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·1	064	31	1·2	0·9	295	31	1·7	0·6	012	31	2·0	1·7	039	31	0·9	0·1	179	31	1·5	0·5	070
0·15 a. g.	30	4·6	2·5	063	31	2·2	1·6	301	31	2·4	0·9	016	31	5·0	4·4	048	31	1·8	0·2	179	30	4·0	1·0	128
0·3 a. m. s. l.					31	2·3	1·1	320	31	2·4	0·8	015	31	4·6	4·1	049	31	1·9	0·2	180	30	3·7	1·4	113
0·6 ,,	30	4·4	1·9	066	31	3·3	0·9	359	31	2·3	0·8	332	31	4·1	0·7	073	31	1·8	0·4	234	30	3·4	0·3	189
0·9 ,,	30	3·5	0·9	177	31	3·4	0·9	296	31	2·6	1·4	310	31	4·0	0·4	274	30	2·2	0·8	268	30	3·1	0·7	267
1·5 ,,	29	3·5	0·9	221	31	5.8	0·4	299	31	5·9	5·0	305	30	5·1	2·8	293	30	4.8	3·5	311	30	4·5	2·4	325
2·1 ,,	29	4·6	3·2	255	30	8·5	6·8	302	29	7·8	7·0	301	29	7·6	5·7	318	30	7·5	5·9	317	29	7·0	4·8	317
3·0 ,,	28	9·7	8·2	267	27	10·8	9·6	285	28	11·2	10·5	292	27	9·2	7·5	303	30	10·1	8·1	295	28	8·5	7·0	290
3·6 ,,	24	12·3	11·1	271	19	12·4	11·0	283	27	12·1	11·5	255	25	9·8	8·4	289	27	10·4	9·0	285	25	10·1	8·5	279
4·5 ,,	5	10·6	10·0	291	13	14·6	13·0	282	24	14·5	12·5	279	15	10·9	9·9	278	25	13·7	12·8	280	2	9·5	9·0	273
5·4 ,,	2	12·3	10·9	277	7	17·7	16·2	269	17	17·1	16·2	274	2	13·0	12·8	277	23	16·3	15·1	280	1	9·5	9·5	285
6·0 ,,	1	7·5	7·5	315	2	13·3	12·1	266	13	18·2	17·2	270	1	18·0	18·0	260	18	19·5	18·5	279				
7·2 ,,					1	16·0	15·9	295	4	29·5	28·4	259					7	19·6	19·4	277				
9·0 ,,																	2	25·3	24·7	263				

Station	JODHPUR																MADRAS							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·9	2·7	035	31	2·5	2·0	043	31	3·1	1·8	044	31	3·4	2·8	023	31	1·9	1·5	022	31	4·8	4·4	036
0·15 a. g.	31	6·7	5·4	046	29	3·3	2·5	069	31	6.6	5·0	015	31	8·3	6·4	032	31	7·1	6·5	042	31	7·7	7·0	052
0·3 a. m.s. l.	31	5·5	4·4	042	29	2.7	2.0	053	31	5·4	3·7	015	31	6·9	5·4	028	31	6·3	5·7	048	31	7·2	6·4	052
0·6 ,,	31	5·8	3·7	041	29	4·1	2·4	074	31	4·7	2·9	013	31	6·9	4·9	040	31	5·6	5·0	057	31	5·5	4·7	055
0·9 ,,	31	4·1	0·9	021	29	3·9	1·3	070	31	3·7	1·7	018	31	5·2	2·6	058	31	5·8	5·1	065	31	5·5	4·8	056
1·5 ,,	31	4 7	2·3	290	29	4·1	1·2	275	31	3·3	1·2	296	30	4·7	1·7	245	31	6·5	5·4	078	31	6·2	5·4	074
2·1 ,,	31	5·7	4·3	257	28	5·4	3·9	264	31	5·1	3·5	276	30	5·1	3·1	243	31	5·9	5·0	075	31	5·7	4·8	076
3·0 ,,	31	9·2	7 5	260	28	9·3	7·9	259	31	8·7	7·2	257	29	9·4	8·0	261	31	5·9	3·4	080	31	6·0	3·3	089
3·6 ,,	31	11·8	10·3	260	28	11·5	10·3	260	31	11·4	10·3	258	16	11·3	10·3	264	31	5.7	1.7	103	31	7·2	3·1	105
4·5 ,,	30	15·5	13·8	265	28	16·0	14·7	264	31	15·7	14·0	064	9	14·1	13·5	263	31	5·9	1·3	120	31	6·0	1·5	098
5·4 ,,	30	19·1	17·7	263	25	19·0	17·8	269	30	18·7	16·5	262	3	14·2	13·5	265	31	5·8	0·5	050	30	5·8	1·1	055
6·0 ,,	29	21.5	20·3	265	21	21·4	20·4	271	30	22·7	20·3	265	2	20·3	20·2	265	31	6·6	1·1	352	30	6·3	4·3	283
7·2 ,,	29	24·8	23·6	266	17	25·3	24·7	269	28	25·7	24·7	258					31	8·1	2·6	285	30	7·6	2·5	295
9·0 ,,	26	33·2	31·4	265	6	38·2	36·9	268	23	30·4	27·3	256					30	12·3	9·2	257	30	13·0	10·5	256

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330*				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·6	4·2	045	31	2·6	2·6	050	31	2·0	1·6	045	31	2·5	1·9	045	31	2·4	1·7	054	31	0·3	0·3	061
0·15 a. g.	31	8·0	7·4	049	31	7·2	6·6	056	30	4·3	2·8	046	30	5·1	4·2	044	30	4·0	2·9	053	28	3·0	2·7	062
0·3 a. m. s. l.	31	7·3	6·7	050	31	6·4	5·8	060	30	4·1	3·0	044	30	5·1	4·1	043	30	4·4	3·4	054	28	3·2	2·9	053
0·6 ,,	31	5·5	4·9	052	31	5·6	5·1	067	30	4·3	3·3	058	30	5·1	4·1	049	30	5·1	4·1	065	28	2·8	2·3	044
0·9 ,,	31	5·9	5·2	055	31	5·8	5·2	070	28	4·8	3·8	076	30	4·8	3·8	060	30	5·5	4·5	075	28	2·1	1·6	046
1·5 ,,	30	5·5	4·7	073	31	6·2	5·4	101	27	4·9	3·4	086	29	5·0	3·0	078	30	4·6	3·1	087	28	2·4	0·6	203
2·1 ,,	30	5·6	4·6	074	31	5·8	4·6	078	23	4·6	1·4	084	25	5·2	2·4	080	29	4·4	2·2	097	26	3·7	1·2	218
3·0 ,,	31	5·6	3·2	068	31	6·1	3·7	067	23	3·7	0·8	088	23	4·3	1·5	071	24	3·8	2·1	080	21	5·8	2·6	240
3·6 ,,	31	6·1	1·6	050	30	5·9	2·8	067	20	4·3	1·3	089	18	4·9	1·0	081	21	4·9	1·9	066	18	9·3	6·7	257
4·5 ,,	31	5·2	1·0	033	30	5·6	1·3	073	19	4·9	3·1	085	16	5·4	2·7	085	10	4·1	1·6	082	15	15·5	14·9	265
5·4 ,,	31	6·4	1·7	022	29	5·9	1·2	056	17	5·4	4·1	080	16	6·5	3·7	082	4	5·3	1·9	097	10	19·5	18·6	275
6·0 ,,	31	6·4	0·9	333	29	6·7	1·1	336	16	6·7	3·3	032	15	7·5	4·9	063					5	16·6	14·9	281
7·2 ,,	31	8·3	3·0	281	27	7·8	3·2	293	12	9·3	1·9	010	13	10·4	4·6	332					2	18·3	16·6	288
9·0 ,,	31	13·4	10·1	256	23	14·5	12·1	244	6	10·9	9·1	216	8	11·1	8·1	249								

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	8·6	0·8	044	31	0·3	0·3	025	31	1·0	0·9	020	31	1·4	0·6	099	31	1·1	0·4	075	31	1·6	1·0	066
0·15 a. g.	31	2·5	2·1	053	30	3·1	2·6	042	31	4·9	3·8	071	31	2·3	0·6	131	31	3·3	0·5	012	31	5·9	4·4	108
0·3 a. m. s. l.	31	2·3	1·9	055	30	2·7	2·3	044																
0·6 ,,	30	2·1	1·6	044	30	2·5	2·1	060	31	5·0	3·5	098	31	2·8	1·0	139	31	3·1	0·3	017	31	5·8	4·2	122
0·9 ,,	30	1·7	1·1	066	30	2·2	1·3	073	31	4·9	3·1	215	31	3·6	1·9	183	31	2·7	0·2	160	31	4·0	1·8	135
1·5 ,,	30	2·4	1·5	216	30	2·8	1·1	197	31	5·0	2·6	219	30	5·3	2·2	258	31	3·9	1·6	277	31	4·0	1·9	264
2·1 ,,	29	5·0	4·3	242	26	4·2	3·0	222	31	6·2	3·3	267	30	6·8	3·1	270	31	5·3	3·0	278	31	5·6	3·4	266
3·0 ,,	27	6·3	4·6	217	22	5·7	3·5	220	31	7·0	4·6	274	29	7·3	4·2	265	31	7·3	4·6	270	31	6·8	5·3	271
3·6 ,,	26	9·3	4·9	241	13	8·9	6·1	237	31	8·3	6·3	279	28	7·7	5·1	267	31	7·9	5·7	269	15	7·5	6·0	277
4·5 ,,	21	16·2	15·7	257	2	7·3	6·7	288	31	10·7	8·6	274	27	10·0	8·4	270	31	10·8	9·5	267	5	8·3	6·4	289
5·4 ,,	17	20·2	20·1	266					31	13·8	12·6	270	27	13·1	12·0	270	30	14·8	14·1	269	2	14·3	14·1	266
6·0 ,,	16	20·2	11·6	261					31	16·7	15·7	270	27	15·0	13·9	275	30	16·8	16·1	271	1	13·0	13·0	275
7·2 ,,	8	24·2	23·7	277					31	20·1	19·1	258	22	20·0	18·5	274	30	19·7	17·5	269	1	13·0	13·0	245
9·0 ,,	1	36·0	36·0	270					31	26·3	25·2	265	12	25·2	23·8	274	30	26·3	25·0	267				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I. S. T.	0530				1730				0530*				1130*				1730*				2330*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·3	317	31	0·9	0·7	289	31	2·0	0·8	311	31	3·0	1·0	306	31	2·3	0·5	286	31	1·9	1·0	343
0·15 a. g.	28	3·8	2·1	324	30	3·6	1·5	284	31	5·9	2·3	345	31	5·4	2·1	311	31	5·5	1·8	331	31	6·0	2·0	310
0·3 a. m. s. l.	28	3·8	2·1	321	30	3·6	1·5	282	31	4·6	2·1	338	31	3·9	1·6	312	31	4·1	0·9	321	31	4·1	1·0	331
0·6 ,,	28	4·2	1·2	292	30	4·0	1·5	277	31	5·5	2·6	329	31	5·0	1·4	315	31	4·5	2·0	310	31	5·9	1·5	358
0·9 ,,	28	4·5	0·6	262	29	4·1	1·5	267	31	5·6	2·7	309	31	4·6	1·2	320	31	4·1	2·5	321	31	5·7	1·5	325
1·5 ,,	27	5·0	1·1	297	29	4·6	1·8	301	31	5·7	3·4	295	31	4·8	1·7	300	31	5·1	2·3	300	31	6·1	2·9	289
2·1 ,,	27	5·5	3·3	302	28	5·8	3·8	300	31	6·5	4·5	280	31	5·6	2·9	281	31	5·9	3·5	289	31	6·8	4·1	277
3·0 ,,	27	7·6	5·9	291	28	8·7	7·1	298	31	9·7	7·6	266	31	8·4	6·2	261	31	8·6	6·6	272	31	9·5	7·6	276
3·6 ,,	27	10·4	8·5	287	28	10·3	8·5	288	31	11·7	9·8	266	31	10·3	8·2	253	31	11·0	8·8	272	31	12·0	10·4	270
4·5 ,,	21	15·1	13·5	282	26	14·2	13·1	288	31	15·2	13·0	265	31	14·4	11·9	259	31	14·4	11·9	275	31	15·6	14·1	273
5·4 ,,	16	18·1	17·2	278	25	18·8	17·6	286	31	17·4	15·5	263	31	18·5	16·3	264	31	17·4	13·8	268	31	18·5	16·1	273
6·0 ,,	10	16·4	15·5	280	24	22·3	21·0	281	31	19·5	17·1	262	31	19·1	16·6	262	31	18·6	16·7	268	31	20·7	18·5	270
7·2 ,,	3	21·2	19·9	283	22	27·1	25·4	278	31	24·2	22·6	263	31	24·0	22·1	267	31	22·7	20·9	268	31	24·7	21·6	267
9·0 ,,	1	24·0	24·0	265	16	40·7	38·9	277	30	31·9	29·6	262	29	28·9	28·6	261	30	29·3	27·1	263	27	31·8	29·7	267

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·2	0·1	207	31	1·2	0·5	044	31	0·3	0·1	247	31	2·8	2·4	060	31	3·7	3·4	070	31	3·2	2·9	061
0·15 a. g.	31	2·6	1·2	091	31	2·8	1·2	078	31	3·3	0·6	311	31	6·1	5·0	062	30	6·7	6·2	068	31	6·3	5·5	066
0·3 a. m. s. l.													31	6·5	5·3	061	30	7·1	6·6	068	31	6·6	5·5	065
0·6 ,,	31	1·5	0·5	188	31	2·1	1·0	067	31	1·8	0·8	237	31	6·8	5·7	070	30	6·9	6·5	076	31	6·4	5·4	064
0·9 ,,	31	3·6	1·5	101	31	3·1	1·5	081	31	4·3	0·8	031	31	6·7	5·7	080	30	7·3	7·0	081	31	6·5	5·0	081
1·5 ,,	31	4·6	3·5	126	31	3·3	1·1	128	31	4·5	3·0	104	31	6·9	5·4	079	30	6·7	6·1	091	31	6·3	4·9	082
2·1 ,,	31	5·2	3·4	161	31	3·9	1·8	174	31	4·8	3·3	127	31	5·1	3·7	095	26	5·7	5·0	085	31	5·0	3·2	074
3·0 ,,	31	5·2	2·4	259	31	4·4	1·3	241	31	4·9	0·8	246	30	5·2	2·5	078	17	4·6	2·1	103	31	5·7	3·0	088
3·6 ,,	28	6·5	4·5	276	30	5·4	2·2	289	27	5·3	3·6	279	27	4·9	2·0	083	16	4·5	1·9	099	29	5·1	2·3	079
4·5 ,,	15	10·2	8·7	272	30	7·3	5·4	276	11	6·1	5·1	275	26	4·8	1·7	086	16	5·0	2·0	129	29	5·8	1·9	103
5·4 ,,	2	13·3	12·8	296	27	9·8	8·2	280	2	7·5	7·2	251	20	6·7	2·2	068	11	7·4	0·9	163	28	7·0	1·5	177
6·0 ,,	2	13·3	12·9	298	27	12·3	10·8	279	1	10·5	10·5	245	18	6·3	2·9	092	11	7·3	1·1	214	27	7·0	1·2	163
7·2 ,,					18	14·7	13·3	279					15	7·6	0·8	130	9	8·3	3·6	203	19	8·2	1·2	215
9·0 ,,					9	21·6	20·9	273					11	8·1	4·1	208	6	11·7	8·7	246	15	10·7	4·7	257

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·7	3·3	065	31	1·1	0·9	065	31	1·1	0·7	029	31	1·8	1·3	090	31	0·1	0·1	030	31	0·9	0·7	249
0·15 a. g.	31	5·9	5·7	065	29	4·4	3·6	072	31	2·1	1·1	023	30	4·5	3·4	100	30	3·2	1·2	331	31	3·5	2·6	262
0·3 a. m. s. l.	31	6·0	5·7	064													30	3·3	1·6	314	31	3·6	2·6	261
0·6 ,,	31	6·1	5·7	070	29	4·4	2·7	092	31	2·3	1·3	022	30	3·9	2·8	109	30	3·3	1·2	293	31	3·3	2·1	254
0·9 ,,	28	5·9	5·5	081	29	3·5	1·5	118	31	2·3	1·1	023	30	3·3	1·1	111	29	2·9	0·2	171	31	3·1	1·3	262
1·5 ,,	25	5·1	4·0	086	29	4·1	2·0	306	31	4·5	2·3	324	30	4·4	1·9	319	29	3·8	0·6	155	31	3·9	0·6	289
2·1 ,,	19	4·5	3·2	093	27	6·4	4·3	307	30	6·8	3·9	319	29	5·6	3·1	308	29	5·0	1·5	234	31	4·8	2·4	303
3·0 ,,	13	4·6	2·8	102	24	7·3	5·0	306	29	7·5	4·6	281	27	6·7	4·8	284	23	8·4	7·7	290	30	8·8	8·1	282
3·6 ,,	5	3·9	1·2	176	18	6·7	4·7	297	25	8·3	6·5	275	15	8·3	6·7	289	19	9·8	9·3	290	27	11·5	10·7	280
4·5 ,,	3	7·3	1·5	280	14	9·8	7·3	303	25	10·8	9·2	281	3	12·2	11·8	258	13	11·2	9·9	285	26	14·4	13·5	277
5·4 ,,	2	9·0	8·7	237	8	10·6	7·4	295	23	14·3	13·5	378	2	12·7	12·5	273	8	14·2	11·5	288	17	15·7	15·1	277
6·0 ,,	2	11·3	11·2	226	3	11·5	11·2	277	22	15·1	14·5	278					1	21·0	21·0	265	7	18·6	18·0	265
7·2 ,,					1	10·0	10·0	260	10	20·7	19·8	275									2	20·7	17·3	253
9·0 ,,					1	21·0	21·0	250	1	19·5	19·5	270									1	40·5	40·5	245

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I. S. T.	0530*				1130*				1730*				2330*				0530*				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	0·5	0·5	055	31	2·1	1·1	065	30	4·4	3·9	330	31	1·1	1·1	020	31	3·1	2·8	015	31	3·8	3·5	060
0·15 a. g.	31	5·6	4·4	032	31	4·1	2·1	060	30	6·9	6·1	305	31	6·0	5·1	007	31	7·6	7·1	029	31	6·1	5·9	060
0·3 a. s. l.	31	4·4	3·6	038	31	4·0	2·0	075	30	5·6	4·5	332	31	5·1	5·0	005	31	8·2	7·6	030	31	6·5	6·2	060
0·6 ,,	31	4·3	2·6	043	31	4·0	2·1	098	30	4·5	2·3	342	31	4·1	3·1	357	28	8·2	7·4	042	30	7·1	6·7	059
0·9 ,,	31	4·6	1·6	047	31	4·0	1·1	114	30	3·5	1·4	029	31	4·0	2·0	005	27	7·6	6·8	048	30	7·3	6·8	057
1·5 ,,	31	3·6	1·7	166	31	4·0	2·0	145	30	3·6	0·7	142	31	3·1	1·1	115	25	6·6	5·4	052	30	7·1	6·5	057
2·1 ,,	31	5·0	3·5	179	31	5·0	2·1	195	30	5·3	2·0	158	31	5·1	3·1	145	23	4·9	3·7	075	28	6·1	5·1	066
3·0 ,,	31	5·7	2·2	245	31	6·0	2·0	249	30	5·2	0·9	248	31	6·1	2·0	190	18	5·0	2·5	060	23	6·2	2·8	059
3.6 ,,	30	6·3	3·8	272	30	7·0	3·0	268	29	5·9	3·1	181	30	6·1	3·1	266	14	5·6	1·1	024	20	6·3	0·8	057
4·5 ,,	30	8·9	7·1	280	30	8·1	6·1	272	29	7·9	5·5	275	29	8·1	7·0	273	10	5·5	1·9	127	19	5·3	0·8	043
5·4 ,,	29	11·9	10·2	278	30	11·0	8·1	273	29	10·9	9·0	275	29	11·1	6·1	278	9	6·8	1·2	179	17	5·1	1·1	046
6·0 ,,	29	13·4	10·7	278	30	13·1	11·1	269	29	13·3	11·9	275	29	14·0	12·0	275	7	7·4	0·3	135	15	5·7	1·3	358
7·2 ,,	28	17·0	15·2	277	30	17·0	14·0	269	29	17·7	16·6	273	29	17·1	15·1	267	1	11·5	11·5	220	10	9·5	6·8	297
9·0 ,,	26	23·7	21·1	270	24	23·0	21·0	275	26	23·3	21·1	272	20	22·0	20·1	260					5	15·2	14·6	259

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·6	2·9	052	31	1·2	0·7	014	31	1·3	0·5	313	31	2·2	1·5	242	31	1·8	1·0	330	31	0·1	0·1	001
0·15 a. g.	31	8·4	7·6	057	26	2·7	1·7	356	31	1·9	0·7	309	28	3·6	3·6	250	30	3·1	1·6	300	31	2·6	2·1	010
0·3 a. s. l.	31	9·4	8·5	057	26	2·6	1·3	339	31	1·8	0·3	305	28	3·5	3·5	250	31	3·0	1·5	305				
0·6 ,,	31	9·9	9·5	060	26	2·2	0·5	024	31	2·7	0·7	057	28	2·9	1·0	217	31	3·1	1·3	346				
0·9 ,,	31	9·1	8·5	059	26	3·1	2·2	063	31	3·4	1·7	064	28	3·7	2·4	061	31	4·0	3·1	057	31	3·5	2·4	053
1·5 ,,	30	7·0	6·1	059	26	3·4	1·5	052	27	4·2	2·6	075	28	5·3	5·3	054	29	5·6	4·9	060	31	4·4	1·9	230
2·1 ,,	27	6·7	5·1	069	26	3·8	0·8	256	26	4·4	2·1	086	27	5·3	3·2	052	25	4·5	2·2	060	31	6·3	5·5	260
3·0 ,,	23	6·2	3·4	073	23	4·3	0·2	157	22	3·6	2·2	091	27	4·2	1·2	080	21	3·5	1·2	092	31	10·3	8·9	251
3·6 ,,	14	5·5	1·3	001	22	3·5	0·8	082	22	5.0	2·3	103	26	4·3	1·0	091	20	3·5	0·5	110	30	9·4	11·1	260
4·5 ,,	9	4.2	2·6	275	22	4·6	2·0	098	17	4·7	2.2	070	26	4·7	2·3	104	18	4·4	2·7	093	26	15·4	13·9	261
5·4 ,,	3	5·5	2·4	340	20	5·3	1·6	080	15	5.2	1·6	070	25	5·4	3·1	083	14	6·2	0·4	106	18	16·6	15·3	272
6·0 ,,					20	6·6	2·3	045	14	5·9	0·8	017	25	6·9	1·6	050	12	6·7	1·4	267	11	17·0	15·6	284
7·2 ,,					17	8·8	2·1	317	13	9·2	1·1	338	25	8·1	2·7	324	8	11·3	9·0	276	4	22·0	21·7	302
9·0 ,,					17	12·2	5·2	232	9	12.1	2·6	223	24	10·7	4·7	217								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I. S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·3	053	31	0·3	0·2	018	31	0·4	0·4	357	31	2·1	1·9	276	31	0·4	0·4	360	31	3·5	3·2	033
0·15 a. g.	31	3·4	0·2	080	31	3·4	2·5	024	31	4·1	2·9	062	31	4·1	3·7	271	31	5·0	4·5	001	31	6·2	5·3	039
0·3 a. s. l.									31	4·7	2·9	070	31	4·2	3·7	267	31	5·7	4·8	357	31	5·7	4·9	041
0·6 ,,									31	5·7	3·6	092	31	3·4	1·2	272	31	5·2	3·4	004	31	4·3	2·8	020
0·9 ,,	31	3·4	0·4	009	31	3·8	2·0	039	31	6·4	4·3	102	31	3·5	1·2	066	31	4·8	2·6	041	31	3·3	1·6	006
1·5 ,,	31	4·2	2·3	279	31	3·9	0·9	224	31	6·9	4·7	112	31	6·2	4·4	079	31	6·4	4·7	089	31	3·6	1·2	274
2·1 ,,	31	6·2	4·9	266	31	5·7	4·1	236	31	6·4	4·2	120	31	8·3	6·0	086	31	7·4	5·7	098	31	4·3	2·3	263
3·0 ,,	31	9·7	7·5	262	30	9·3	8·1	261	31	5·5	1·4	140	31	6·8	2·8	084	31	6·1	2·4	111	31	5·9	3·5	286
3·6 ,,	31	12·8	11·5	261	26	10·5	9·4	267	16	5·7	0·5	265	31	6·1	1·2	082	9	7·9	1·3	035	31	7·0	5·2	280
4·5 ,,	30	16·0	15·5	270	7	10·9	9·5	284					31	7·1	1·1	333					31	9·1	8·2	284
5·4 ,,	28	18·7	17·3	271	2	16·3	16·0	307					31	7·7	2·8	296					30	12·2	11·1	283
6·0 ,,	27	20·3	18·9	272	2	19·0	18·9	304					30	8·7	4·2	287					30	13·3	12·2	281
7·2 ,,	17	24·6	23·3	272									20	11·4	9·3	278					30	15·5	14·7	282
9·0 ,,	8	30·8	29·5	274									1	28·0	28.0	285					24	19·6	18·0	282

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·8	3·8	032	31	4·4	1·7	295	31	2·3	1·4	013	31	1·6	1·5	020	31	1·9	0·9	079	31	2·4	2·3	04[illegible]
0·15 a. g.	31	5·0	4·2	038	31	5·0	2·0	297	31	7·0	4·8	011	31	8·6	8·3	020	31	2·6	1·6	068	31	7·2	6·9	047
0·3 a. m. s. l.	31	5·0	4·0	035	31	4·4	2·1	325	31	7·8	5·4	015	31	7·0	6·7	031	31	2·5	1·8	075	31	6·1	5·8	057
0·6 ,,	31	4·2	2·9	022	31	3·6	2·4	358	31	7·0	4·8	023	31	4·9	3·6	078	31	3·3	2·7	066	31	5·5	4·4	070
0·9 ,,	31	4·0	2·1	001	31	3·6	2·2	017	31	5·1	3·1	034	31	5·0	3·6	075	29	4·2	3·4	058	31	5·7	4·5	041
1·5 ,,	31	4·9	1·6	278	31	3·9	1·4	355	31	4·8	0·7	060	31	5·5	3·2	034	27	5·9	4·7	048	31	6·1	3·9	027
2·1 ,,	31	5·1	2·6	249	31	4·5	0·9	305	31	5·0	1·3	289	31	5·8	1·8	031	25	5·2	3·3	045	31	6·3	3·1	033
3·0 ,,	31	7·0	4·0	257	31	5·1	3·1	285	30	6·9	4·5	275	31	5·4	0·4	242	22	5·1	1·1	027	31	5·6	1·1	041
3·6 ,,	30	9·1	5·9	268	31	6·8	5·3	285	24	7·5	5·5	267	31	6·4	1·4	280	19	4·6	1·0	359	31	5·8	2·1	270
4·5 ,,	30	11·5	9·5	275	31	8·3	6·9	282	20	9·1	7·5	267	31	7·3	3·9	277	14	4·3	1·8	328	31	8·0	5·7	269
5·4 ,,	29	13·4	11·1	277	31	10·8	9·3	281	8	11.9	9.7	268	31	8·9	6·3	273	13	4·1	2·8	323	31	9·6	8·1	275
6·0 ,,	28	16·7	14·9	277	31	13·0	11·8	282	3	13.5	11.2	265	31	10·1	8·5	277	12	5·5	4·1	307	31	11·2	9·2	275
7·2 ,,	23	20.5	19.0	276	31	16·3	15·2	282					31	13·2	12·0	264	9	8·4	6·8	277	31	13·4	11·7	271
9·0 ,,	9	24.9	22.8	279	25	19·7	17·8	274					28	20·0	19·0	260	6	12·2	11·3	259	29	23·3	21·9	

Station	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface	31	0·5	0·2	058
0·15 a. g.	30	3·0	2·2	075
0·3 a. m. s. l.	30	3·5	3·1	052
0·6 ,,	30	4·0	3·0	089
0·9 ,,	30	4·1	3·0	068
1·5 ,,	30	4.9	3·7	059
2.1 ,,	28	4·9	3·1	049
3·0 ,,	26	4·5	1·0	061
3·6 ,,	20	5·5	1·6	295
4·5 ,,	17	6·4	4·0	273
5·4 ,,	14	7.8	5·3	276
6·0 ,,	14	9.6	7.4	280
7.2 ,,	7	6.2	5.5	265
9·0 ,,	4	5.6	2.8	294

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Ht. in Km.	n	V	v	D
AMAUSI				
1730 hr.				
10·5	1	30·0	30·0	280
ANANTAPUR				
1730 hr.				
10·5	10	27·5	25·1	242
12·0	10	29·9	28·6	243
14·1	4	18·1	17·0	255
16·2	3	9·8	4·9	255
18·0	2	9·3	9·2	259
21·0	1	5·5	5·5	130
BAGHDOGRA				
1730 hr.				
10·5	1	51·5	51·5	290
BAIRAGARH				
0530 hr.				
10·5	1	24·0	24·0	330
1730 hr.				
10·5	1	40·5	40·5	270
12·0	1	41·0	41·0	260
BAJPE				
0530 hr.				
10·5	1	6·0	6·0	265
1730 hr.				
10·5	15	16·2	14·5	240
12·0	11	14·9	11·8	231
14·1	7	8·6	6·6	236
16·2	3	7·8	6·3	082
18·0	1	6·0	6·0	135
BAMRAULI				
0530 hr.*				
10·5	8	39·1	36·8	251
12·0	5	34·4	34·1	263
1730 hr.*				
10·5	21	37·9	36·3	260
12·0	13	39·8	38·2	254
14·1	2	30·3	29·2	270
16·2	1	27·0	27·0	250

Ht. in Km.	n	V	v	D
BANGALORE				
1730 hr.				
10·5	7	23·1	20·8	238
12·0	7	24·7	23·4	235
14·1	7	21·8	21·2	255
16·2	7	12·8	11·1	226
18·0	5	9·3	2·4	183
21·0	4	9·1	6·9	094
24·0	1	9·5	9·5	060
27·0	1	23·5	23·5	250
BEGUMPET				
0530 hr.				
10·5	2	16·0	15·9	245
1730 hr.				
10·5	4	22·6	19·7	262
12·0	1	16·0	16·0	240
BHAGALPUR				
1730 hr.				
10·5	2	32·0	31·3	245
BHUBANESHWAR				
1730 hr.				
10·5	1	25·0	25·0	260
BIKANER				
1730 hr.				
10·5	2	29·3	26·4	298
COCHIN				
1730 hr.				
10·5	2	16·3	15·9	233
12·0	1	17·0	17·0	240
DUM DUM				
0530 hr.*				
10·5	18	33·5	33·1	257
12·0	15	38·2	37·7	254
14·1	3	25·3	25·0	249
16·2	1	12·5	12·5	270
18·0	1	15·0	15·0	255
1130 hr.*				
10·5	20	34·3	33·4	257
12·0	16	33·6	33·1	255
14·1	8	30·1	26·5	262
16·2	3	25·5	25·2	261
18·0	2	19·5	18·1	276
21·0	1	15·0	15·0	315

Ht. in Km.	n	V	v	D
DUM DUM				
1730 hr.*				
10·5	15	33·7	33·3	259
12·0	15	30·6	30·0	252
14·1	5	37·0	36·0	259
2330 hr.*				
10·5	15	37·2	22·7	257
12·0	11	39·6	39·1	248
14·1	2	23·5	22·7	253
GADAG				
0530 hr.				
10.5	8	14·6	14·2	226
12·0	3	13·8	11.7	239
14·1	2	5·0	3·2	256
16·2	1	3·5	3·5	100
1730 hr.				
10·5	10	22·3	21·0	245
12·0	8	20·4	19·3	253
14·1	8	18 6	17 4	266
16·2	3	9·0	7·1	252
18·0	2	5·0	4·3	164
21·0	1	8·0	8·0	125
GANNAVARAM				
0530 hr.				
10·5	2	22·3	21·4	259
1730 hr.				
10·5	9	27·4	26·2	245
12·0	6	26·8	25·7	254
14·1	5	20·7	20·0	243
16·2	1	5·5	5·5	170
GAUHATI				
0530 hr.*				
10·5	7	46·6	46·6	273
12·0	6	48·3	47·7	270
14·1	1	43·0	43·0	260
1130 hr.				
10.5	6	38·7	35·5	273
12·0	2	27·5	26·2	284
1730 hr.*				
10·5	10	45·5	44·4	268
12·0	7	49·7	47·9	268

Ht. in Km.	n	V	v	D
GOPALPUR				
1730 hr.				
10·5	1	21·0	21·0	250
GORAKHPUR				
1730 hr.				
10·5	2	31·0	28·5	308
12·0	2	31·0	31·0	282
14·1	1	22·0	22·0	310
GWALIOR				
0530 hr.				
10·5	1	30·5	30·5	295
1730 hr.				
10·5	1	22.5	22·5	290
IMPHAL				
1730 hr.				
10·5	3	34·0	33·3	262
12·0	1	26·5	26·5	250
14·1	1	17·5	17·5	260
JAIPUR				
1730 hr.				
10·5	2	28·3	27·1	294
12·0	2	41·5	40·6	295
JODHPUR				
0530 hr.*				
10·5	22	34·1	31·7	264
12·0	15	36·0	35·6	263
14·1	2	35·3	34·2	267
1130 hr.				
10·5	2	39·7	36·3	267
1730 hr.*				
10·5	16	33·3	31·3	262
12·0	10	37·3	35·4	248
14·1	1	46·0	46·0	260
MADRAS				
0530 hr.*				
10·5	27	14·4	11·9	233
12·0	23	16·9	12·8	230
14·1	18	15·0	10·9	247
16·2	5	9·1	6·6	247
18·0	1	4·5	4·5	185

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

January 1961 (Pausa 11,—Magha 11, 1882 Saka)

Ht. in Km.	n	V	v	D
	MADRAS			
	1130 hr.*			
10·5	27	15·2	12·6	230
12·0	25	16·4	12·7	235
14·1	22	15·7	12·9	246
16·2	6	8·0	4·5	260
18·0	1	14·0	14·0	115
	1730 hr.*			
10·5	29	16·0	13·0	232
12·0	22	17·8	15·0	239
14·1	16	20·5	13·8	236
16·2	5	18·6	9·8	271
18·0	1	19·5	19·5	240
	2330 hr.*			
10·5	22	17·5	15·4	238
12·0	17	19·1	17·4	239
14·1	10	21·5	16·7	245
16·2	3	10·0	8·5	266
18·0	1	4·5	4·5	130
	MINICOY			
	0530 hr.			
10·5	3	9·8	5·0	214
12·0	2	8·7	5·3	129
14·1	1	10·0	10·0	110
	1730 hr.			
10·5	7	11·9	7·6	225
12.0	6	9·6	7·2	296
14·1	2	11·3	10·5	278
16·2	2	11·0	3·0	299
	NAGPUR			
	0530 hr.			
10.5	29	31·7	30·3	254
12·0	26	34·0	32·7	253
14·1	19	25·9	25·0	260
16·2	13	16·2	15·7	265
18·0	7	11·1	9·0	268
21·0	1	19·5	19·5	275
	1130 hr.*			
10·5	6	26·3	25·5	265
12·0	2	29·7	29·5	253
	1730 hrs.*			
10·5	30	32·0	30·6	255
12·0	26	33·9	32·8	254
14·1	20	26.9	25·7	257
16·2	13	17·2	16·5	258
18·0	8	12·5	8·1	270
21·0	2	9·7	3·3	005
	NANPARA			
	1730 hr.			
10·5	7	41·6	37·8	277
12·0	4	43·3	40·0	291
14·1	1	29·0	29·0	285
16·2	1	21·5	21·5	310
	NEW DELHI			
	0530 hr.*			
10·5	27	35·6	33·7	261
12·0	13	34·6	31·5	264
14·1	7	30·4	28·4	256
16·2	1	35·5	35·5	255
	1130 hr.*			
10·5	27	36·5	34·4	257
12·0	21	39·0	36·3	254
14·1	13	40·1	38·3	254
16·2	3	28·7	28·5	259
	1730 hr.*			
10·5	28	30·9	28·6	264
12·0	25	38·8	37·2	259
14·1	5	35·6	34·8	269
16·2	1	42·5	42·5	255
	2330 hr.*			
10·5	21	35·7	32·8	262
12·0	15	36·6	34·1	267
14·1	6	35·1	34·0	261
16·2	1	33·0	33·0	245
	POONA			
	1730 hr.			
10·5	2	21·7	19·7	259
	PORT BLAIR			
	0530 hr *			
10·5	7	11·4	7·7	211
12·0	5	13·3	8·0	228
14·1	2	22·0	10·3	167
	1130 hr.			
10·5	3	18·3	17·0	261
12·0	2	14·7	14·4	236
14·1	2	14·0	13·5	236
10·5	9	10·4	5·0	234
12·0	5	13·0	7·1	235
14·1	2	12·7	10·3	134
16·2	1	9·0	9·0	080
	RAIPUR			
	0530 hr.			
10·5	1	23·5	23·5	249
	SANTA CRUZ			
	0530 hr.*			
10·5	21	28·0	26·4	265
12·0	13	31·6	29·7	259
14·1	3	25·3	25·3	266
	1130 hr.*			
10·5	18	27·1	24·0	273
12·0	9	33·1	25·1	256
14·1	2	27·0	27·0	253
	1730 hr.*			
10·5	22	28·1	25·5	261
12·0	11	36·4	34·5	256
14·1	3	41·0	40·0	245
	2330 hr.*			
10·5	11	30·0	28·1	254
12·0	2	44·1	43·1	243
	TIRUCHIRAPALLI			
	1730 hr.			
10·5	2	14·7	14·7	251
	TRIVANDRUM			
	0530 hr.*			
10·5	17	13·1	8·1	226
12·0	14	13·9	8·8	222
14·1	11	15·0	7·1	201
16·2	5	12·0	5·0	277
18·0	1	22·5	22·5	255
	1330 hr.			
10·5	8	13·7	6·6	239
12·0	8	14·7	8·3	229
14·1	7	14·0	7·5	233
16·2	7	14·4	5·2	279
18·0	4	9·6	4·0	062
21·0	4	11·6	8·2	138
24·0	1	11·0	11·0	090
	TRIVANDRUM			
	1730 hr.*			
10·5	24	14·2	8·6	209
12·0	23	15·2	7·9	217
14·1	19	13·1	6·3	208
16·2	12	10·3	2·1	193
18·0	4	5·9	4·2	079
	UDAIPUR			
	1730 hr.			
10·5	2	30·7	30·6	285
	VERAVAL			
	0530 hr.*			
10·5	13	24·8	22·5	273
12·0	7	24·6	23·6	270
14·1	3	30·0	28·0	282
	1130 hr.			
10·5	5	26·4	23·6	292
	1730 hr.*			
10·5	17	23·1	20·1	275
12·0	12	25·3	21·7	267
14·1	4	26·1	23·8	268
16·2	1	17·0	17·0	235
	VISAKHAPATNAM			
	0530 hr.*			
10·5	25	30·1	29·2	249
12·0	25	31·5	30·4	250
14·1	20	29·2	22·9	250
16·2	10	10·4	8·5	244
18·0	3	6·5	2·8	282
	1130 hr.			
10·0	2	14·7	13·5	263
12·0	1	20·5	20·5	230
14·1	1	17·5	17·5	235
	1730 hr.*			
10·5	29	32·6	31·0	250
12·0	27	33·6	32·2	248
14·1	19	22·7	19·7	237
16·2	12	15·3	13·3	240
18·0	6	12·3	11·2	228
21·0	1	14·0	14·0	215

RADIOSONDE DATA

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Bombay	Clock type	7th September 1954	00 and 12	
3	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July 1955	00 and 12	
5	Gwalior	Clock type	28th June 1960	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1949	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (1005 mb.)						BOMBAY (1011 mb.)						CALCUTTA (1016 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	098	283·6	290	279	282·2	29	013	291·4	296	287	286·2	25	006	288·9	294	284	287·3
1000	31	140	..	..	..	..	29	101	..	..	..	..	25	137	..	..	..	..
900	31	1029	286·5	292	281	274·7	29	1024	293·4	298	286	278·6	25	1034	287·5	291	283	277·0
850	31	1509	284·9	289	280	269·8	29	1514	289·9	294	282	277·8	25	1514	285·2	291	281	275·0
800	31	2014	282·9	287	278	267·5	29	2030	286·1	290	280	275·1	25	2021	283·7	291	280	271·0
700	31	3112	277·2	286	273	261·1	29	3143	280·7	285	276	262·2	25	3125	278·4	283	273	264·0
600	31	4348	269·4	276	260	..	29	4400	274·1	277	271	257·5	25	4369	271·4	275	269	249·1
500	31	5759	260·5	266	253	..	29	5841	264·8	270	260	..	25	5800	262·8	267	259	..
400	30	7434	249·6	255	240	..	29	7537	253·7	262	248	..	24	7485	251·9	263	246	..
300	27	9479	235·9	245	229	..	28	9617	240·0	246	234	..	21	9553	238·6	246	232	..
250	24	10720	228·6	237	220	..	26	10884	231·0	238	221	..	18	10798	230·8	238	225	..
200	22	12201	221·2	228	216	..	25	12373	222·1	229	216	..	17	12274	221·6	230	215	..
175	20	13056	217·6	223	212	..	23	13224	217·1	227	211	..	11	13141	216·8	223	210	..
150	15	14047	213·6	220	208	..	18	14310	211·2	217	207	..	5	14098	213·2	216	211	..
125	9	15178	208·9	215	204	..	13	15330	206·4	211	200	..	..	..	..	..	..	..
100	6	16493	204·5	210	199	..	9	16649	201·8	208	197	..	..	..	..	..	..	..
80	..	..	..	..	..	..	5	18239	205·0	208	195	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	GAUHATI (1011 mb.)						GWALIOR (992 mb.)						JODHPUR (991 mb.)					
Surface	31	049	285·6	292	282	284·7	31	203	282·4	288	277	280·6	31	218	285·2	291	281	275·5
1000	31	140	..	..	..	..	31	139	..	..	..	..	31	140	..	..	..	..
900	31	1030	285·7	289	281	280·5	31	1023	285·3	291	281	273·6	31	1030	286·8	293	280	270·3
850	31	1508	282·6	286	277	278·0	31	1501	283·3	289	279	270·1	31	1510	284·2	290	277	267·4
800	31	2003	279·8	283	276	275·5	31	2004	280·2	287	277	264·4	31	2014	281·2	288	274	264·3
700	31	3095	274·5	279	269	267·4	31	3095	275·4	281	270	259·0	31	3106	276·2	281	268	255·7
600	30	4324	269·4	275	262	..	31	4324	268·1	273	263	..	30	4337	269·0	273	261	..
500	28	5741	261·4	268	253	..	31	5733	259·3	264	255	..	30	5753	260·1	264	254	..
400	28	7416	250·7	258	240		31	7394	248·3	253	243	..	30	7419	248·5	254	240	..
300	20	9476	236·9	247	229	..	28	9433	235·1	247	227	..	25	9465	235·0	245	230	..
250	15	10725	228·5	236	223	..	26	10687	227·2	239	217	..	22	10700	227·0	236	223	..
200	14	12194	221·1	225	214	..	23	12117	219·9	229	207	..	16	12130	220·4	229	212	..
175	13	13062	216·5	220	209	..	16	12976	216·4	224	206	..	11	13093	218·7	225	213	..
150	5	14038	212·3	216	207	..	10	13966	213·0	219	206	..	9	13991	216·0	221	209	..
125	..	..	..	..	..	..	7	15123	209·0	214	202	..	6	15172	211·6	218	208	..
100	..	..	..	..	..	..	7	16456	205·7	210	197	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Standard Pressure Surface mb.	MADARS Surf. Pr. (1011 mb.)						NAGPUR (979 mb.)						NEW DELHI (992 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	015	295·7	289	293	293·8	31	311	288·2	292	282	283·8	31	210	282·5	289	277	279.7
1000	31	114	..	..	..	..	31	129	..	..	..	..	31	144	..	..	..	..
900	31	1024	290·3	294	287	285·3	31	1033	291·5	295	286	279·5	31	1028	285·3	291	280	272·4
850	31	1510	287·7	292	284	280·0	31	1517	288.4	292	285	276·9	31	1506	283·2	289	277	266.6
800	31	2021	285·9	289	280	273·9	31	2032	284·7	289	282	274·1	31	2007	280·2	287	272	265·2
700	31	3134	281·3	284	277	267·2	31	3139	279·5	284	274	261·0	31	3094	274·1	279	265	256·1
600	31	4393	275·0	278	272	260·3	31	4390	272·6	275	268	259·3	31	4316	266·8	272	259	..
500	31	5840	265·9	269	261	..	31	5822	262·7	267	256	..	31	5715	257·2	262	250	..
400	31	7543	254·6	259	250	..	31	7504	250·6	257	241	..	31	7360	246·2	252	240	..
300	30	9627	239·8	245	236	..	30	9560	235·4	243	220	..	30	9376	232·4	239	223	..
250	27	10881	229·7	235	225	..	30	10802	227·1	233	215	..	30	10597	224·8	236	213	..
200	24	12345	217·2	225	209	..	28	12260	217·3	221	207	..	25	12040	219·5	228	206	..
175	23	13173	210·9	219	204	..	28	13093	212·1	217	204	..	22	12885	218·2	227	202	..
150	22	14126	204·3	214	198	..	27	14055	206·2	212	197	..	17	13881	215.2	225	209	..
125	11	15180	198·1	205	192	..	27	15141	202·1	207	194	..	12	15001	210·7	218	204	..
100	5	16491	195·0	199	191	..	21	16457	198·8	207	191	..	9	16344	206·1	214	201	..
80	..	..	..	..	..	..	15	17811	198·0	203	193	..	6	17552	202·4	205	198	..
70	..	..	..	..	..	..	12	18576	200·0	207	195	..	..	..	..	..	..	..
60	..	..	..	..	..	..	8	19513	203·5	207	201	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	PORT BLAIR (1003 mb.)						TRIVANDRUM (1003 mb.)						VERAVAL (1013 mb.)					
Surface	31	079	297·2	299	295	294·5	31	064	296·9	300	296	293·8	31	008	289·8	296	285	278·7
1000	31	109	..	..	..	..	31	089	..	..	..	..	31	121	..	..	..	..
900	31	1025	290·9	294	288	287·6	31	1006	292·2	296	290	285·9	31	1031	291·1	296	283	272·2
850	31	1512	288·0	291	284	283·1	31	1496	289·9	295	288	282·5	31	1518	287·9	292	281	270·4
800	31	2024	285·4	289	281	278·9	31	2011	287·3	291	285	277·5	31	2032	285·0	290	278	267·8
700	31	3138	281·8	284	279	267·3	31	3130	282·1	287	279	266·6	31	3137	278·5	284	275	263·7
600	31	4397	274·6	279	271	260·8	31	4389	274·7	279	271	261·4	31	4386	272·1	277	266	252·0
500	31	5842	265·9	269	262	..	31	5835	265·9	274	263	..	30	5817	262·8	270	257	..
400	31	7546	254·9	259	249	..	31	7542	255.5	265	252	..	30	7499	250.7	257	245	..
300	30	9627	239·0	248	231	..	30	9637	240·3	245	233	..	23	9538	236·0	244	231	..
250	29	10876	228·1	238	222	..	30	10895	230·3	235	225	..	14	10817	227·9	234	222	..
200	29	12337	217·1	226	211	..	28	12361	218·4	226	211	..	10	12266	214·9	227	205	..
175	26	13175	211·1	222	203	..	27	13191	212·5	219	205	..	7	13097	210·5	224	200	..
150	25	14119	205·9	218	195	..	27	14154	205·7	217	193	..	6	14044	205·5	219	196	..
125	17	15184	200·2	207	189	..	24	15211	198·5	206	190	..	..	..	..	..	..	..
100	14	16501	197·6	205	191	..	17	16549	193·3	205	187	..	..	..	..	..	..	..
80	7	17801	196·9	198	193	..	16	17841	194·9	203	185	..	..	..	..	..	..	..
70	5	18590	197·2	200	195	..	11	18621	196·2	203	186	..	..	..	..	..	..	..
60	..	..	..	..	..	..	7	19553	199·1	205	193	..	..	..	..	..	..	..
50	..	..	..	..	..	..	7	20623	204·3	212	196	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

January 1961 (Pausa 11 —Magha 11, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1008mb.)					
	No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew Point
Surface	31	048	295·7	298	293	291·2
1000	31	131	..	..	..	..
900	31	1040	290·1	293	285	282·4
850	31	1527	289·5	291	283	275·0
800	31	2041	286·2	290	283	270·4
700	31	3153	280.2	285	273	261·6
600	31	4410	274.3	279	265	256·3
500	31	5855	265·6	271	259	..
400	31	7553	253·6	260	246	..
300	29	9636	239.1	247	233	..
250	29	10893	229.5	238	223	..
200	29	12355	216.9	226	209	..
175	28	13182	210·4	218	203	..
150	27	14129	205·1	212	196	..
125	22	15211	200·7	207	195	..
100	19	16507	195·8	206	187	..
80	16	17808	195.7	212	186	..
70	12	18576	197.7	209	188	..
60	7	19349	291·6	211	196	..
50	..	..	..	..	..	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf, Pr, (1004 mb.)						BOMBAY (1010 mb.)						CALCUTTA (1014 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	098	293·7	299	288	285·0	30	013	301·3	304	298	288·8	27	006	295·2	298	292	288·0
1000	31	132	..	..	..	..	30	101	..	..	..	..	27	124	..	..	..	..
900	31	1033	288·0	292	283	275·0	30	1027	295·5	300	291	282·1	27	1033	290·2	296	284	279·8
850	31	1515	285·9	291	280	269·9	30	1521	291·6	295	286	279·4	27	1517	287·5	293	283	273·0
800	31	2022	283·8	288	280	267·0	30	2038	287·6	291	284	276·0	27	2029	284·8	291	280	269·0
700	31	3124	278·0	283	272	261·1	30	3155	281·8	285	278	257·9	27	3136	280·1	286	274	262·3
600	31	4362	270·3	275	263	..	30	4417	275·1	279	271	262·0	25	4389	273·4	278	268	254·3
500	31	5785	261·6	267	253	..	30	5865	266·1	272	261	..	24	5826	264·6	269	259	..
400	31	7462	250·6	257	242	..	30	7571	255·5	264	250	..	22	7519	253·0	257	246	..
300	31	9518	237·0	249	230	..	30	9666	241·2	251	235	..	18	9606	239·7	247	229	..
250	27	10768	229·1	240	217	..	27	10938	234·1	242	228	..	18	10866	231·7	237	221	..
200	27	12274	221·7	229	208	..	24	12449	225·5	232	221	..	18	12352	222·3	228	215	..
175	25	13101	218·1	225	205	..	22	13328	221·3	229	217	..	10	13206	218·9	224	213	..
150	23	14083	215·4	223	203	..	22	14324	217·2	223	214	..	9	14207	214·9	221	209	..
125	18	15237	210·5	217	201	..	20	15475	212·6	218	208	..	8	15325	207·9	214	199	..
100	13	16567	205·7	213	195	..	13	16834	208·8	215	204	..	..	..	..	..	..	..
80	..	..	..	..	..	..	5	18213	209·8	213	204	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	GAUHATI (1008 mb,)						GWALIOR (993 mb.)						JODHPUR (990 mb.)					
Surface	31	049	293·3	297	290	289·5	31	203	293·8	299	290	281·8	31	218	296·0	302	289	274.5
1000	31	122	..	..	..	..	31	131	..	..	..	..	31	127	..	..	..	..
900	31	1025	288·7	292	284	282·1	31	1033	288·4	294	284	273·2	31	1035	289·6	295	283	267·8
850	31	1508	285·3	289	281	279·2	31	1516	285·9	291	281	267·7	31	1519	285·8	293	279	263·9
800	31	2013	281·6	285	278	275·2	31	2023	283·4	289	278	262·9	31	2025	282·6	290	277	262·1
700	31	3104	275·8	280	271	267·7	31	3122	277·6	283	271	252·9	31	3123	277·2	284	268	258·2
600	30	4338	267·7	276	265	255·4	31	4363	270·6	277	264	..	31	4361	269·8	275	263	..
500	29	5759	261·4	269	256	..	31	5785	261·6	268	256	..	30	5782	261·8	266	257	..
400	28	7434	250·5	261	244	..	31	7460	250·5	257	243	..	30	7458	250·4	255	244	..
300	20	9495	237·8	250	231	..	26	9524	237·6	251	230	..	26	9521	236·7	245	228	..
250	17	10732	229·2	237	220	..	25	10770	230·6	243	220	..	21	10746	228·9	239	221	..
200	15	12211	221·2	226	216	..	20	12255	223·9	235	216	..	15	12232	223·4	229	215	..
175	10	13200	218·0	223	211	..	16	13160	221·1	232	211	..	10	13095	220·4	228	210	..
150	9	14087	215·5	222	211	..	15	14146	218·9	228	210	..	8	14083	218·0	226	214	..
125	6	15210	212·0	218	207	..	7	15311	215·0	223	210	..	6	15222	214·7	223	210	..
100	5	16605	207·4	213	205	..	..	..	..	..	..	..	6	16595	209·7	217	205	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1011 mb.)						NAGPUR (997 mb.)						NEW DELHI (992 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	015	299·6	302	298	293·8	31	311	301·1	303	298	285·2	31	210	292·2	297	287	281·9
1000	31	108	..	..	..	..	31	103	..	..	..	..	31	138	..	..	..	..
900	31	1024	291·0	296	287	286·3	31	1024	294·6	298	288	280·3	31	1034	286·3	292	280	276·3
850	31	1512	288·5	294	283	281·4	31	1521	290·0	293	284	278·0	31	1513	283·6	290	277	270·9
800	31	2025	286·3	291	281	276·0	31	2034	285·8	289	283	274·9	31	2016	281·0	287	273	266·0
700	31	3141	282·1	291	278	267·5	31	3143	279·2	286	273	264·0	31	3105	274·5	281	266	258·3
600	31	4402	275·2	278	271	260·9	31	4393	272·8	279	267	261·3	31	4330	267·4	272	260	..
500	31	5853	266·1	270	261	..	30	5829	263·5	268	258	..	31	5737	258·4	265	253	..
400	31	7558	255·0	263	246	..	30	7516	251·0	258	244	..	31	7390	247·1	254	243	..
300	31	9647	239·8	245	233	..	30	9575	236·8	244	229	..	30	9409	232·8	241	226	..
250	29	10894	229·4	235	221	..	30	10819	227·5	234	218	..	29	10634	225·3	234	215	..
200	26	12359	218·3	226	210	..	29	12275	217·0	226	209	..	28	12091	220·1	230	207	..
175	25	13187	211·7	222	205	..	29	13105	212·2	224	205	..	25	12965	219·2	226	212	..
150	21	14132	204·8	214	197	..	27	14066	207·3	220	199	..	22	13949	216·9	224	209	..
125	18	15217	200·5	208	193	..	24	15163	203·4	211	193	..	17	15091	213·4	221	206	..
100	8	16597	195·5	201	190	..	19	16482	197·5	204	191	..	12	16476	208·5	217	202	..
80	..	..	..	..	..	..	18	17788	197·7	204	193	..	5	17829	207·8	212	203	..
70	..	..	..	..	..	..	17	18574	199·5	212	192	..	..	..	..	..	..	..
60	..	..	..	..	..	..	10	19487	202·7	209	193	..	..	..	..	..	..	..
50	..	..	..	..	..	..	7	20623	207·3	212	201	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	PORT BLAIR (9202 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1012 mb.)					
Surface	31	079	299·5	301	298	295·7	31	064	301·8	303	300	294·9	31	008	299·5	306	296	288·3
1000	31	099	..	..	..	..	31	079	..	..	..	..	31	111	..	..	..	..
900	31	1018	291·3	295	288	287·9	31	1005	293·3	297	291	288·9	31	1028	292·5	298	285	276·0
850	31	1507	288·8	293	284	283·0	31	1497	290·0	293	287	285·8	31	1518	289·4	296	282	273·7
800	31	2020	286·4	291	281	279·0	31	2013	287·2	293	283	280·8	31	2035	285·9	292	279	272·1
700	31	3136	281·9	285	277	267·9	31	3132	282·5	285	279	270·0	31	3144	281·0	286	273	267·5
600	31	4398	274·9	279	269	262·5	31	4396	275·2	280	271	264·3	31	4400	273·9	278	267	263·9
500	31	5845	265·9	270	259	..	31	5846	266·6	271	261	..	31	5838	264·2	269	258	..
400	30	7547	254·2	262	247	..	31	7556	255·7	259	251	..	31	7528	252·0	260	246	..
300	30	9628	238·6	246	231	..	31	9650	240·0	246	233	..	25	9594	236·8	242	231	..
250	30	10875	227·9	234	216	..	31	10907	229·7	235	222	..	21	10847	229·0	237	221	..
200	30	12331	216·3	225	202	..	31	12370	217·3	224	205	..	16	12300	218·1	228	210	..
175	24	13131	211·7	220	204	..	29	13192	210·2	219	199	..	12	13168	213·1	226	204	..
150	23	14140	204·6	215	199	..	28	14146	204·0	215	190	..	10	14090	207·3	217	199	..
125	22	15210	199·8	214	193	..	24	15221	199·8	211	191	..	6	15238	203·8	210	197	..
100	17	16508	195·9	207	187	..	22	16550	195·6	211	186	..		16599	202·4	206	196	..
80	7	17858	196·4	204	192	..	16	17848	195·8	205	187	..		..	..	..	..	..
70	..	..	..	..	..	..	12	18635	197·0	203	187	..		..	..	..	..	..
60	..	..	..	..	..	..	11	19501	198·7	205	187	..		..	..	..	..	..
50	..	..	..	..	..	..	10	20589	201·8	210	187	..		..	..	..	..	..
40	..	..	..	..	..	..	5	21945	208·0	219	198	..		..	..	..	..	..
30	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..
20	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

January 1961 (Pausa 11—Magha 11, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max	Min.	Dew point
Surface	31	048	299.3	301	297	292·0
1000	31	119	..	..	..	..
900	31	1037	292·1	294	289	281·9
850	31	1527	289·7	293	286	275·9
800	31	2042	286·8	290	239	271·4
700	31	3157	281·6	287	276	262·9
600	31	4418	275·3	279	271	254·0
500	31	5867	266·0	271	262	..
400	31	7571	254·3	261	250	..
300	30	9662	240·3	251	234	..
250	30	10905	230.4	246	222	..
200	30	12390	218·7	238	209	..
175	30	13233	213.2	234	204	..
150	30	14187	207·3	228	196	..
125	29	15273	202·5	223	192	..
100	24	16633	197·8	215	190	..
80	13	17982	197·8	213	188	..
70	9	18824	201·2	210	190	..
60	7	19729	202·6	209	195	..
50	5	20913	204·0	209	198	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

Note : Number of observations refer to those of dynamic height.

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

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

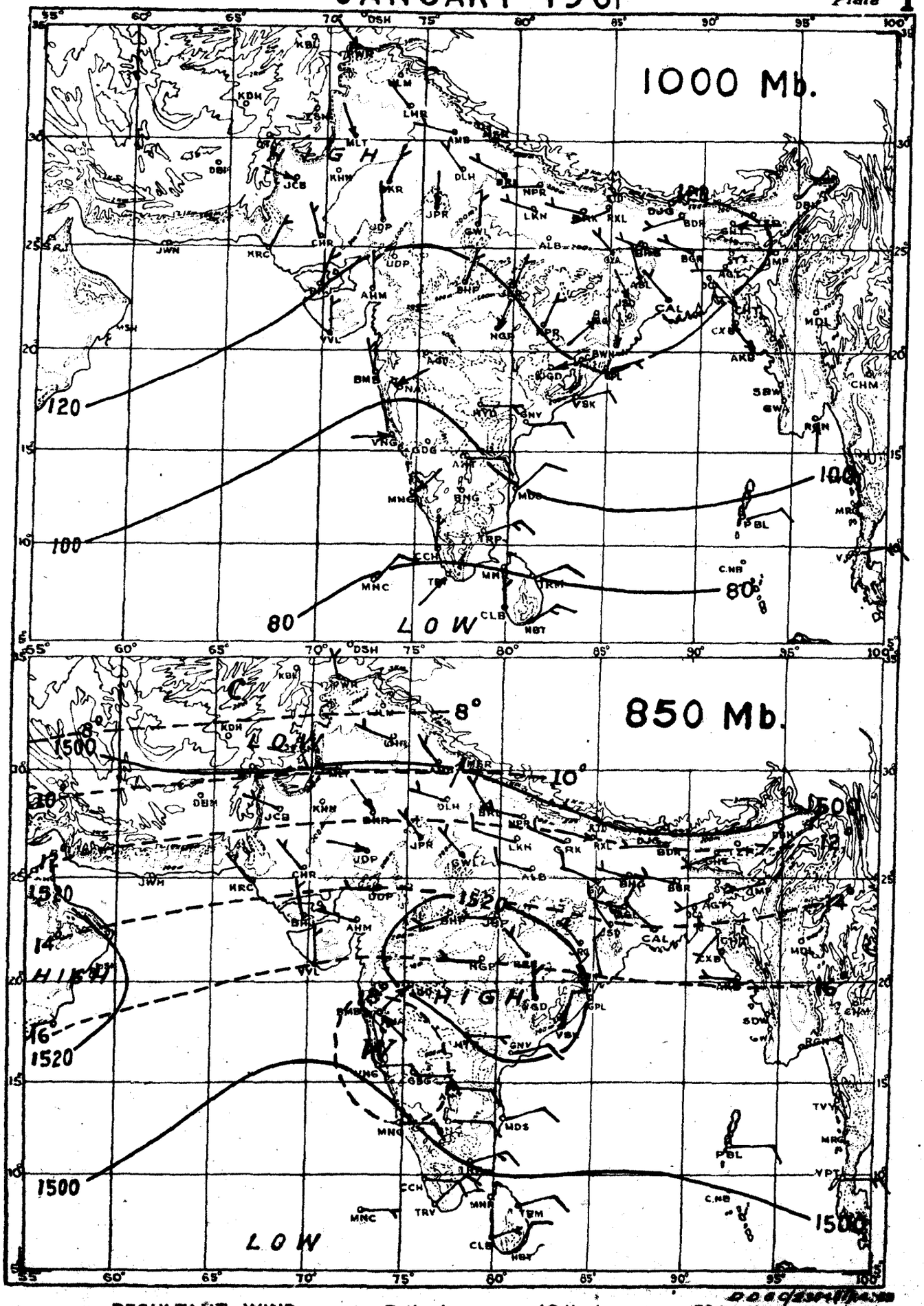
GIPN—S1—6 D.D.G. Obs. Poona/65—24-8-65—260

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met.D.

JANUARY 1961

Plate I



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

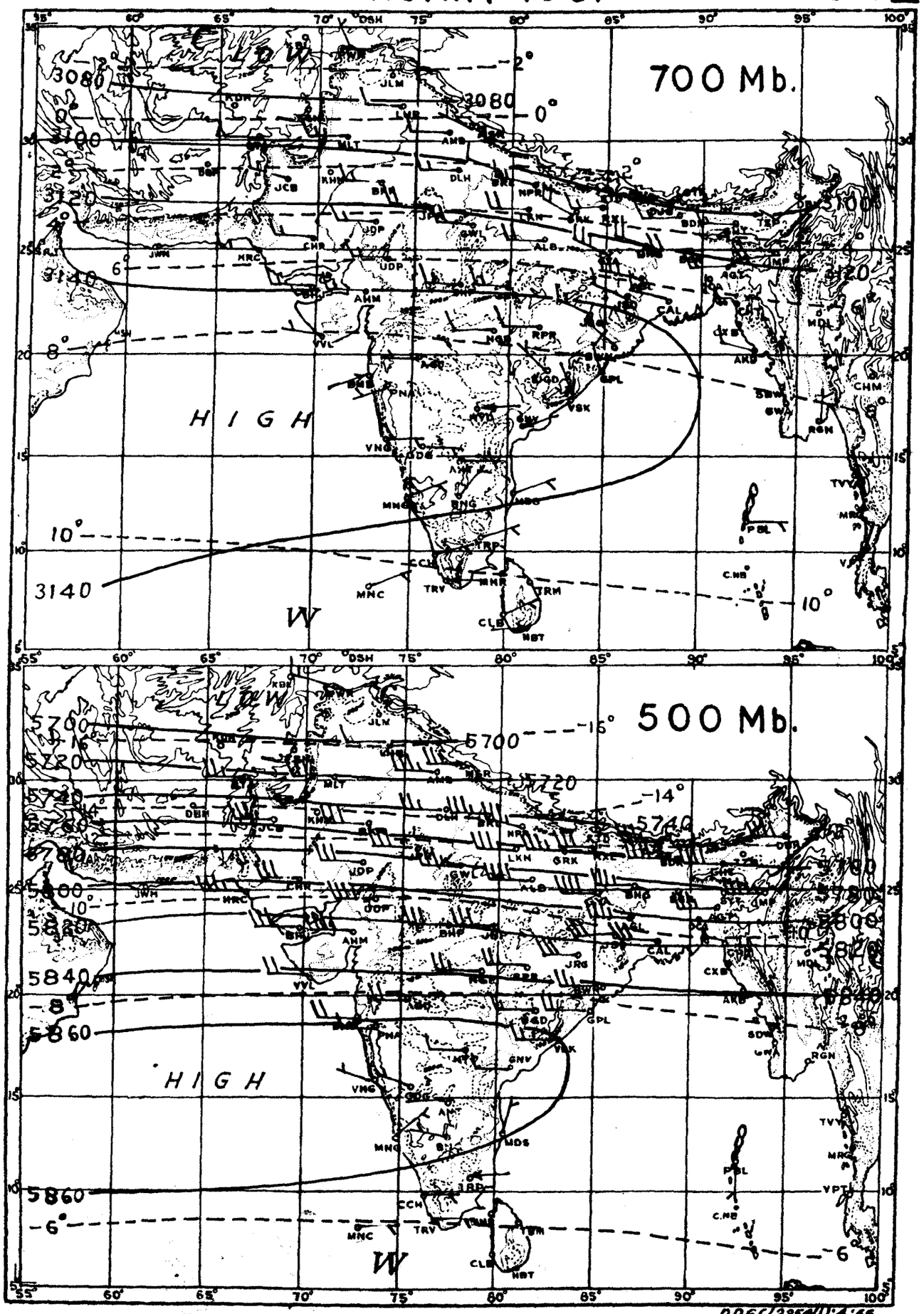
-------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

JANUARY 1961

Plate II



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

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

Registered No. B-3097

INDIA WEATHER REVIEW, 1961

Monthly Weather Report

FEBRUARY

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Chief features :—

(i) Excessive rain or snow in north India during the first half of the month.

(ii) Cold wave in north India during the second week.

Four western disturbances moved across north India during the month. Of these, first three relating to the first half of the month were quite active and gave abundant rainfall in north India. The fourth disturbance which moved across the Punjab[I] by 19th was relatively feeble. Thereafter the weather remained mainly dry over north India. Special mention may be made of the second western disturbance of the month which was unusually active. It caused widespread rainfall over practically the whole of India outside the south Peninsula. In association with it, there were also a few heavy falls of snow in the Himalayas and of rain in the plains of north India. Angul reported 9cm of rain and Nainital 7 cm on 6th; Dehra Dun and Ambikapur 6 cm each on 7th and Asansol 7 cm and Jamshedpur 6 cm on 8th. The course and activity of each of the four western disturbances of the month are shown in the Table below :

Statement showing the movement and activity of western disturbances during February 1961.

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st—4th	East Afghanistan-N. W. F. P. Jammu and Kashmir.	Rajasthan	Scattered rain	2nd	
			Punjab plains	Fairly widespread r in	2nd	
				Scattered rain	3rd	
			Punjab-Kumaon hills and Himachal Pradesh Jammu and Kashmir	Fairly widespread rain/snow	2nd 3rd	
				Local or scatt red rain/snow	2nd-4th	
2	3rd—10th	Baluchistan-Sind-Rajasthan-north Madhya Pradesh-Bihar State-West Bengal-Assam.	Rajasthan	Scattered rain	4th	
			Gujarat State	Scattered rain	4th, 5th	
			Konkan	Scattered rain	5th, 6th	
			Punjab-Kumaon hills, Himachal Pradesh, Jammu and Kashmir	Fairly widespread or local rain/snow	6th, 7th	
			East Madhya Pradesh	Fairly widespread or local thundershowers	6th, 8th	
			Orissa, Bihar Plateau, Gangetic West Bengal	Fairly widespread thundershowers	6th-8th	
			Bihar Plains, Sub-Himalayan West Bengal	Local or scattered thundershowers	6th-9th	
			Assam	Local or scattered thundershowers	6th-10th	
3	9th—15th	Baluchistan-Punjab (P)-Punjab (I)-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Punjab-Kumaon hills	Fairly widespread rain/snow	11th-14th	
			Jammu and Kashmir	scattered rain/snow	12th	
			Himachal Pradesh	Local rain/snow	14th	
			Assam	Scattered thundershowers	14th-15th	
3(a)	10th—15th	Northeast Arabian Sea-Gujarat State-Madhya Pradesh-Orissa-coastal West Bengal.	East Madhya Pradesh	Local or scattered thundershowers	12th-14th	Induced by Western disturbance No. 3.
			Orissa	Fairly widespread or local thundershowers	12th-15th	
			Gangetic West Bengal	Scattered thundershowers	13th-14th	
4	16th—19th	Baluchistan-Sind-Rajasthan-Punjab (I)	Jammu and Kashmir	Local rain/snow	17th and 19th	
			Himachal Pradesh and Punjab hills	Local rain	17th	
			West Uttar Pradesh	Scattered rain	19th	

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1—9 D. D. G. Obs. Poona/65.

Under the influence of an easterly wave, a depression developed in the south Bay of Bengal with centre near Lat. 4½° N and Long. 86¼°E on the morning of 17th February. It moved slowly in a northerly direction till 21st and then weakened into a low pressure area over southwest and adjoining southeast Bay of Bengal on 22nd. This low pressure area moved westwards, weakened further and filled up over the southeast Arabian Sea by 25th. In association with the system, there was a good spell of rain in Bay Islands and also a few showers in the south Peninsula during the third week. The rainfall was fairly widespread in the Bay Islands on 18th and 19th.

Night temperatures were above normal over most of the country at the beginning of the month, being appreciably so over the eastern half of the country on 1st and 2nd February. In the rear of the first western disturbance of the month, the temperatures fell over northwest India and Gujarat and became below normal or nearly normal. In the wake of the next disturbance, night temperatures fell considerably and remained below normal over practically the whole country outside south Peninsula during the second week of February, being appreciably to markedly below normal at several places. There was a severe cold wave with night temperatures 8 to 10° C below normal in Gujarat State and neighbourhood on 8th and 9th. The cold weather conditions over the country gradually subsided and towards the end of February, the night temperatures were nearly normal over most of the country.

The rainfall during the month was in large defect in Assam, west Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Rayalaseema, in moderate defect in Saurashtra, and Kutch, the Madras State and south Interior Mysore, in slight defect in Jammu and Kashmir and east Rajasthan and normal in east Madhya Pradesh and Gujarat Region. It was in moderate excess in Bihar Plains and east Uttar Pradesh, in large excess in the Bay Islands, West Bengal, Orissa, Bihar Plateau, west Uttar Pradesh, the Punjab (I), west Rajasthan, the Konkan, coastal Andhra Pradesh, Kerala and the Arabian Sea Islands. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was below nomal in West Bengal, Orissa, Bihar State, Uttar Pradesh, the Punjab (I), Jammu and Kashmir, Rajasthan, Madhya Pradesh, Gujarat state and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands and Rayalaseema, below normal in east Rajasthan, west Madhya Pradesh, Gujarat Region, Madhya Maharashtra and Vidarbha and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Bay Islands, the Punjab (I), Saurashtra and Kutch and south interior Mysore, below normal in Gujarat Region, Marathwada, Telangana and north Interior Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was below normal in Rajasthan, normal in Gangetic West Bengal, Bihar State, Uttar Pradesh, the Punjab (I), Jammu and Kashmir, Gujarat State and Telangana and above normal over the rest of the country outside Himachal Pradesh.

Table 1 contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

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

POONA 5,
Dated the 31*st March*, 1961.

R. ANANTHAKRISHNAN,
for Director General of Observatories.

Errata to Monthly Weather Report for February 1961 (Magha 12 - Phalguna 9, 1882(S)

Page No.	Station	Hour	Column	For	Read
60	Para one	-	Second line	86½°E	86½°E
Table I					
61	Orissa		1	Orisa	Orissa
61	Foot note		-	Data of Himachal Pradesh not included.	*Data of Himachal Pradesh not included.
Table II					
62	North Lakhimpur		16	- 5 1	- 5.2
62	North Lakhimpur		24	3	0
62	Chaparmukh		12	0	-
62	Asansol		8	.9	8.9
63	Daltonganj		20(a)	-	0
63	Daltonganj		16	2.6	+2.6
63	Hazaribagh		12	+59.9	+59.0
63	Hazaribagh		16	-2.5	+2.5
63	Hazaribagh		19	-0.4	+0.4
63	Muzaffarpur		20(a)	-	0
63	Muzaffarpur		20(b)	-	0
63	Sabaur		16	-3.3	+3.3
63	Dheri		19	9.6	9,16
63	Hardoi		16	-2.9	+2.9
63	Fatehpur		4	31.5	31.3
64	Roorkee		20(b)	Blank	7
64	Leh		1	Leh (R)	Leh
64	Dholpur		23	Blank	1
65	Seoni		7	-0.	-0.7
65	Umaria		23	0	2
65	Umaria		24	0	3
65	Jabalpur		1 below Umaria	Jagdalpur	Jabalpur
65	Pendra		24	0	1
65	Mandla		18	6.9	1.9
65	Champa		15	1	4
65	Champa		20(b)	8	7
65	Raigarh		15	1	8
65	Raigarh		21	7	8
65	Raipur		16	-2.3	+3.2
65	Surat		18	8.3	8.3(e)
65	Bhuj (Rudramata)		3	-0.2	-0.9
65	Kandla		1	Kandla	Kandla*
65	Kandla		3	-0.9	-
65	Kandla		18	10.1 (m)	10.1 (n)
65	Foot note		-	Blank	(n)Mean of 17 days.
65	Foot note		-	Blank	* Observations for 17 days.
66	Harnai		27	Blank	1
66	Jalgaon		11	Blank	0
66	Aurangabad		20(a)	Blank	0
66	Bir		24	Blank	0
66	Pusad		9	1,16,17	15,16,17
66	Kalingapatam		19	+9	+2.9
67	Nizamabad		4	.1	37.1
67	Hakimpet (Aerodrome)		18	4.3	-
67	Anantpur		15	Blank	1
67	Tiruppattur		23	Blank	0
67	Mangalore (Bajpe)		24	0	1
67	Mangalore		4	32.	32.8
67	Bidar		4	36.	36.2
67	Balehonnur		10	0	-
68	Durgapur		23	2	0

Contd. 2

Page No.	Station	Hour	Column	For	Read
68	Foot note			(2)Mean of 24 days.	(g)Mean of 24 da
69	Jomosom		9	7	9
Table III					
70	Long Island	0830	3	Blank	25
70	Sibsagar	1730	20	9	8
70	Golaghat	0830	7	73.3	23.3
70	Foot note	-	-	[illegible] Blank	*Observations fo 23 days.
71	Imphal (Tulihal)	2330	14	6	-
71	Silchar (Kumbhirgram)	0830	15	7.	7.6
71	Agartala	1730	5	1007.3	1007.8
71	Agartala	1730	11	2	52
71	Agartala	1730	26	Blank	4
71	Baghdogra	0230	4	1011.0	1011.0
72	Asansol	2330	5	997.3	997.8
72	Barrackpore (Aerodrome)	0530	26	Blank	3
72	Sandheads	0530	26	Blank	1
72	Baripada	1730	22	0	4
73	Cuttack	1730	4	1009.3	1009.3
73	Phulbani	0830	15	0.0	0
73	Hazaribagh	0830	28	Blank	0
74	Bhagalpur	1130	28	Blank	1
74	Gaya	1130	1	Jahmui	Blank
74	Faizabad	0830	9	8.20	8.2
75	Kanpur Aerodrome	1130	21	Blank	3
75	Azamgarh	0830	15	2.9	-
75	Azamgarh	1730	15	2.9	-
75	Varanasi	0830	8	12.4	12.6
75	Dehra Dun	1130	10	7.0	9.0
75	Mainpuri	0830	19	Blank	13
75	Agra (Aerodrome)	0530	15	1.3	..
75	Agra (Aerodrome)	0830	15	7.1	..
75	Agra (Aerodrome)	1130	15	13.4	..
75	Agra (Aerodrome)	1730	15	3.6	..
75	Agra (Aerodrome)	2330	15	3.0	..
76	Ludhiana	0830	16	Blank	0
76	Ludhiana	1730	16	Blank	0
76	Ferozpore	0830	16	Blank	0
76	Ambala Aerodrome	0530	15	9.0	..
76	Ambala Aerodrome	0830	15	12.4	..
76	Ambala Aerodrome	1130	15	18.5	..
76	Ambala Aerodrome	1730	15	19.6	..
76	Ambala Aerodrome	2330	15	14.0	..
77	Palam Aerodrome	2030	5	98.2	986.2
78	Munabao	1730	3	0	..
78	Jhalawar	0830	6	0.5	-0.5
78	Gwalior	0830	6	1.0	-1.0
79	Guna	1730	28	0	1
79	Bhopal (Bairagarh)	0230	2	0233	0230
79	Hoshangabad	0830	14	+1.7	+0.7
79	Jabalpur	0530	18	Blank	8
80	Ahmadabad	1730	25	Blank	4
80	Raigarh	1730	2	730	1730
80	Raipur	0530	2	530	0530
80	Baroda Aerodrome	1130	24	Blank	2
80	Surat	0530	4	1011.8	1011.8(j)
80	Surat	0530	5	1010.4	1010.4(j)
80	Surat	0830	4	1013.9(j)	1013.9
80	Surat	0830	5	1012.5(j)	1012.5
80	Surat	1730	7	28.0	28.9

Contd.

Page no.	Station	Hour	Column	For	Read
80	Bhuj (Rudramata)	2330	18	6	16
81	Jamnagar (Aerodrome)	2330	5	1011.6	1011.4
81	Veraval	0830	8	23.4	13.4
82	Deolali Aerodrome	1730	17	0	1
82	Poona Aerodrome	1730	17	Blank	13
82	Poona	2330	15	0.	0.9
82	Aurangabad	0830	14	[illegible]	+0.6
82	Parbhani	0830	16	Blank	0
82	Parbhani	1730	16	Blank	0
83	Visakhapatam	0830	13	Not clear	3.1
84	Kurnool	0830	22	Blank	1
84	Vellore	0830	5	988.7	988.1
84	Tambaram (Aerodrome)	0830	20	Blank	1
84	Tiruppattur	0830	25	Blank	1
84	Cuddalore	0530	20	Blank	2
85	Madurai Aerodrome	1130	9	18.	18.1
85	Honavar	1730	11	67	62
85	Mangalore (Bajpe)	1730	4	1008.0	1008.4
86	Gadag	0530	10	10.1	16.1
86	Calicut	0830	5	1011.1	1011.4
86	Palghat	0830	9	19.0	19.6
86	Port Cochin	0830	9	27.7	22.7
87	Trivandrum	1130	25	Blank	1
87	Dharmsala	0830	22	Blank	1
87	Pachmarhi	0830	11	5	51
87	Pachmarhi	1730	11	3	32
87	Mahabaleshwar	1730	24	Blank	3
88	Panchet Hills	0830	7	18.5	18.0
88	Hirakud	1730	17	Blank	1
88	Khijarwan	0830	15	3.4 ( )	3.4 (d)
88	Jhadol	-	1	Jhadol(d)	delete
88	Foot note	-	-	Blank	(i) Mean of 22 days
88	Foot note	-	-	Blank	(g) Mean of 24 days

* * * *

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
Table IV						
92	Amausi	2330	3.6	v	20.5	10.5
92	Amausi	2330	4.5	v	13	13.9
92	Amausi	2330	4.5	D	29 7	297
93	Anantapur	0530	6.0	v	2.1	2.8
96	Cochin	0530	6.0	D	606	066
101	Mohanbari	2330	0.15 ag.	V	2.7	2.9
102	Poona	0530	3.0	n	20	26
102	Poona	0530	3.6	n	5	20
102	Poona	0530	4.5	n	1	5
106	Bamrauli	0530*	10.5	v	6.1	45.5
106	Cochin	0530	Time of ascent		0530	1730
106	Bamrauli	1730*	10.5	v	45.5	44.6
106	Gauhati	1730	-	Time of ascent	1730	1730*
106	Madras	1730	-	Time of ascent	1730	1730*
107	Nagpur	0530*	16.2	Ht. in km.	16.0	16.2
107	Trivandrum	1730*	16.2	D	194	094
107	Veraval	1730	-	Time of ascent	1730	1730*
107	Visakhapatnam	1130	-	Time of ascent	1130*	1130
RADIOSONDE DATA						
112	Bombay	12 GMT	850 mb.	Dew Point	271.8	271.7
113	Veraval	12 GMT	300 mb.	Ht. gpm	9646	9636

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C.	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	18.9	49	23.7	13.0	78	62	3.9	3.2
	−19.7		−0.7	+0.6	−4		+0.7	
2. West Bengal	71.1	263	24.9	14.2	68	53	2.3	2.2
	+44.1		−2.8	−0.2	−4		+0.2	
3. Orissa	152.3	570	26.9	16.7	74	60	3.3	3.6
	+125.6		−2.7	−1.0	+3		+1.3	
4. Bihar	53.2	213	24.2	11.7	67	53	2.1	2.3
	+28.2		−2.1	−0.4	−1		+0.1	
5. Uttar Pradesh	40.8	185	22.7	9.8	71	47	2.2	2.0
	+18.7		−2.3	−0.3	+2		+0.1	
6. Punjab (India) (Including Delhi.)*	65.3	213	20.7	8.0	78	55	2.3	2.2
	+34.7		−2.7	−0.8	+9		−0.2	
7. Jammu and Kashmir	32.8	82	1.7	−6.9	70	57	5.1	4.7
	−7.1		−1.9	−0.1	−1		−0.7	
Sub-Division								
1. Bay Islands	180.1	635	30.4	23.0	78	81	4.9	5.5
	+151.9		+0.7	+1.6	+7		+2.0	
2. Assam (Including Manipur, Tripura).	18.9	49	23.7	13.0	78	62	3.9	3.2
	−19.7		−0.7	+0.6	−4		+0.7	
3. Sub-Himalayan West Bengal.	45.8	234	23.3	12.5	71	50	2.1	2.3
	+26.2		−2.3	+0.3	−5		+0.5	
4. Gangetic West Bengal.	80.5	271	25.3	14.7	68	53	2.4	2.2
	+50.8		−2.9	−0.3	−4		+0.2	
5. Orissa	152.3	570	26.9	16.7	74	60	3.3	3.6
	+125.6		−2.7	−1.0	+3		+1.3	
6. Bihar Plateau	97.5	264	24.8	12.1	65	50	2.2	2.5
	+60.6		−2.0	−0.8	0		+0.2	
7. Bihar Plains	26.6	149	23.5	11.3	69	55	2.0	2.1
	+8.7		−2.1	0	−3		+0.1	
8. Uttar Pradesh (East)	26.4	142	23.5	10.3	71	47	2.0	1.7
	+7.8		−2.2	−0.4	+1		+0.2	
9. Uttar Pradesh (West).	57.1	219	21.8	9.3	71	46	2.3	2.3
	+31.0		−2.3	−0.2	+3		+0.1	
10. Punjab (India) (Including Delhi).	65.3	213	20.7	8.0	78	55	2.3	2.2
	+34.7		−2.7	−0.8	+9		−0.2	
11. Himachal Pradesh.	167.9	..	18.0	4.8	87	52	4.5	3.5
	—		..	..	..		..	
12. Jammu and Kashmir.	32.8	82	1.7	−6.9	70	57	5.1	4.7
	−7.1		−1.9	−0.1	−1		−0.7	
13. Rajasthan (West)	18.8	176	23.9	9.6	66	38	1.5	1.6
	+8.1		−2.1	−0.5	+5		−1.0	
14. Rajasthan (East)	6.4	125	24.3	9.8	55	26	1.3	1.4
	+1.3		−2.1	−1.2	+5		−0.4	
15. Madhya Pradesh (West).	2.9	34	26.3	10.4	50	28	1.9	1.5
	−5.6		−1.8	−1.4	−1		+0.4	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %. 0830 hrs. IST.	Relative humidity %. 1730 hrs. IST.	Cloud 0830 hrs. IST.	Cloud 1730 hrs. IST.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	12.6	159	24.1	9.7	60	31	1.4	1.5
	+4.7		−2.1	−0.9	+5		−0.6	
9. Madhya Pradesh	13.1	84	26.5	11.1	55	32	2.0	1.8
	−2.5		−1.6	−1.1	−1		+0.4	
10. Gujarat State.	10.8	75	28.9	13.2	56	32	1.3	0.7
	−3.6		−1.1	−0.7	+1		0	
11. Maharashtra	58.6	103	30.7	15.2	52	31	1.8	1.8
	+1.6		−0.3	−1.1	−2		+0.7	
12. Andhra Pradesh	14.1	122	31.8	19.9	67	50	3.0	2.7
	+2.5		+1.1	+0.4	−2		+1.0	
13. Madras State	11.4	74	31.5	21.9	76	54	4.7	5.0
	−4.1		+0.1	+1.0	−3		+2.0	
14. Mysore	1.5	39	31.7	18.3	63	35	3.1	3.3
	−2.8		−0.1	+0.1	+1		+1.5	
15. Kerala	28.6	194	30.9	23.6	80	70	4.5	4.8
	+13.8		−0.3	+0.3	+4		+2.5	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	27.5	108	26.8	12.2	61	39	2.3	2.3
	+2.0		−1.3	−0.6	−1		+0.5	
17. Gujarat Region	2.5	96	30.1	12.8	48	20	1.2	0.7
	−0.1		−1.1	−1.2	−9		0	
18. Saurashtra and Kutch.	17.4	73	27.8	13.7	64	43	1.4	0.7
	−6.5		−1.1	−0.3	+11		+0.1	
19. Konkan	15.3	219	28.4	18.2	64	62	1.6	2.0
	+14.6		−0.1	−0.7	−4		+0.5	
20. Madhya Maharashtra	0.7	26	32.3	13.1	49	20	1.7	1.9
	−2.0		−0.2	−1.4	+2		+0.9	
21. Marathwada	0.9	24	31.1	15.0	33	17	1.7	1.9
	−2.9		−0.3	−0.3	−7		+0.6	
22. Vidarbha	2.1	15	31.4	13.9	45	22	2.1	1.9
	−11.8		−0.8	−1.5	−4		+0.6	
23. Coastal Andhra Pradesh.	26.5	198	30.9	21.0	77	69	3.6	3.3
	+13.1		−0.3	+0.5	0		+1.3	
24. Telangana	1.1	8	32.3	17.0	53	24	2.2	1.8
	−12.5		+0.5	−0.4	−11		+0.3	
25. Rayalaseema	2.2	37	34.1	20.9	57	33	2.5	2.5
	−3.7		−0.3	+1.1	−5		+1.2	
26. Madras State	11.4	74	31.5	21.9	76	54	4.7	5.0
	−4.1		+0.1	+1.0	−3		+2.0	
27. Coastal Mysore	0	0	30.5	20.9	75	63	3.3	3.2
	−1.1		−0.7	−0.5	+2		+1.2	
28. Interior Mysore (North).	0	0	32.7	17.3	48	25	2.3	2.6
	−5.3		+0.1	−0.6	−6		+1.2	
29. Interior Mysore (South).	3.3	72	31.2	18.4	71	33	3.8	4.1
	−1.3		−0.1	+1.0	+6		+1.9	
30. Kerala	28.6	194	30.9	23.6	80	70	4.5	4.8
	+13.8		−0.3	+0.3	+4		+2.5	
31. Arabian Sea Islands.	47.4	479	30.9	24.6	77	67	+4.7	4.3
	+37.5		+0.5	+0.5	+3		+2.2	

NOTE—The entries in the second line for each division and sub-division indicate departures from normal.
Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·8	..	31·1	15	22·9	..	16·7	26	2.4	8.0	..	2.4	20	0	..	11·5	8·0	..	0	2	0	0	0	0	0	0	0	0	0
Long Island	30·3	..	32·0	15	22·7	..	20·2	25,26	10.0	72·2	..	33·6	19	5	..	2·6	1·2	..	0	5	0	0	0	0	0	0	0	0	0
Port Blair	30·4	+0·7	32·2	15	23·0	+1·6	19·6	26	32.3	180·1	+151.9	58·1	22	6	+4·0	8.7	6.8	−4.6	0	8	0	0	3	3	0	0	0	0	0
Carnicobar	29·8	..	30·6	11	24·3	..	21·0	23	4·3	93·9	..	26·8	18	8	..	6.4	3.7	..	0	11	0	0	1	0	0	0	0	0	0
Nancowry	32·0	..	33·9	28	25.0	..	23·7	16	9·7	75·8	..	50·5	16	5	..	1·5	1·1	..	0	9	0	0	3	0	0	0	0	0	0
Kondul	28·8	..	30·6	21	25·3	..	23·3	24	32.0	64·4	..	13·4	14	8	..	..	..	..	1	13	0	0	2	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	22·2	..	26.4	27	15·1	..	10·2	14	129·8	204 2	..	137·6	4	5	..	10.1	14·0	..	1	9	0	0	3	0	0	0	0	0	0
Dibrugarh (Mohanbari)	22·1	−0.7	26.4	..	12·0	+0·6	5·8	12,17	3·6	19·8	−42·2	5·3	2	3	−3.2	5·1	2·9	−0·4	1	10	0	0	3	4	0	0	0	0	0
Dibrugarh	22·5	−0·3	28·4	27	13·1	+1·5	8·3	16,17	1·9	20·2	−41.8	5·6	27	2	−4·2	3·0	1·8	−1·5	1	9	0	0	0	2	0	0	0	0	0
Digboi*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	22·6	−0.8	26·9	27	11·2	−0·5	4.3	11	5·2	14·0	−40·2	8·8	9	1	−5.1	..	..	..	1	8	0	0	0	3	0	0	0	0	0
Sibsagar	22·8	0	27·0	27	13·4	+1·4	8·1	16	12·6	30·7	−20·6	10·3	9	4	−1·2	..	3·7	+0.8	0	8	0	0	1	16	0	0	0	0	0
Gohpur (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mazbat	..	..	..	..	..	..	..	..	0	13·8	..	4·2	15	3	..	4·8	1·9	..	0	6	0	0	0	0	0	0	0	0	0
Jorhat Aerodrome	23·4	..	27·8	27	12·1	..	6·8	16	2·9	17·2	..	7·7	9	3	..	..	..	..	0	5	0	0	2	6	0	0	0	0	0
Tangla	24·9	..	29·5	27	11.5	..	5.9	12	2 5	5·8	..	2·7	15	1	..	2·7	1.4	..	0	5	0	0	0	2	0	0	0	0	0
Tezpur	24.6	−0·1	28·3	27	14.3	+1·0	11·2	5 days	3 4	4·8	−22·6	4·0	3	1	−1·7	6·3	5·3	+1·6	0	2	0	0	0	0	0	0	0	0	0
Golaghat	23.8	..	29·4	1	12·5	..	8·3	11,12	0	14·8	..	7·2	3	2	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	25·0	..	30·0	27	11·7	..	8·0	15	0	0	0	0	..	0	..	5·5	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Goalpara	25·0	..	28·9	25,26, 27	11·3	..	5·2	1,6	7·4	20·2	..	6·8	2	4	..	5·3	3.0	..	0	4	0	0	0	0	0	0	0	0	0
Gauhati	24·6	+1.0	28.6	27	13·4	+1.3	9.0	10	8·0	14·7	−15.0	14·0	3	1	−1.6	0	1·0	−1·4	0	3	0	0	0	12	0	0	0	0	0
Gauhati (Bherjor)	24·2	..	28·2	27	11·3	..	6·7	10	6·3	11·5	..	10·7	3	1	..	5.2	3·0	..	1	2	0	0	1	2	0	0	0	0	0
Dhubri (Rupsi)	24.8	..	28·7	26,27	10·9	..	4·6	16	2·5	20·1	..	13·1	2	3	..	6.5	3·3	..	0	3	0	0	1	0	0	0	0	0	0
Dhubri	23·7	−1.3	28·6	26	13·8	+0·4	8·4	16	0	22·6	+3·8	15·4	2	2	+0·5	2·2	1·0	−4·6	1	2	0	0	0	0	0	0	0	0	0
Lumding	24·9	−0·2	30·1	26	10·0	−0.2	4·8	16	5·4	12·8	−20·2	9·6	3	2	−1·0	4·4	2·2	..	0	2	0	0	0	1	0	0	0	0	0
Umroi	20·1	..	23·8	27	6·1	..	0·1	10	12.0	17·8	..	14·0	3	1	.	12·0	4·7	..	0	4	0	0	1	18	0	0	0	0	0
Tura	23.0	..	27·5	25	11·8	..	5·6	10	9·6	19·3	..	17·4	3	1	.	6·5	8·3	..	0	4	0	0	0	0	0	0	0	0	0
Hailong	21·5	..	25·1	1	11·7	..	7·3	16	10·0	29·9	..	9·6	3	4	..	..	..	..	0	7	0	0	1	2	0	0	0	0	0
Silchar(Kumbhigram)	24·5	..	28·9	26	12·7	..	8·5	16	2·2	49.6	..	40·4	3	3	..	6·9	7·7	..	0	6	0	0	1	1	0	0	0	0	0
Silchar	23·0	−4.0	27.8	26	13.2	0	8·4	16	3·9	26·2	−21·8	15.4	3	3	−0·6	2·2	1.0	−1·4	1	7	0	0	2	0	0	0	0	0	0
Imphal (Tulihar)	21·0	−1·8	24.9	27	6.1	−0.4	1·1	16	5·7	29·2	−1·9	10.0	3	5	+2·3	9·3	6·1	−0·6	1	5	0	0	2	3	0	0	0	0	0
Kailashshar	26.2	..	30·5	26	11·1	..	5·9	16	1·6	21·4	..	8·4	8	3	..	6·4	3·1	..	3	5	0	0	0	2	0	0	0	0	0
Agartala	26.2	−2·3	30·7	26	12·5	−0·8	5·9	16	0·8	19·2	−9·4	8·8	3	3	+1·3	7·0	5·4	+0·3	0	5	0	0	0	4	0	0	0	0	0
Sub-Himalayan West Bengal)																													
Baghdogra	23·6	−3·0	26·9	26	10·9	0	4·0	15	14·2	36·6	+34·3	11·8	9	3	+2.8	10·7	7·4	+2·6	0	5	0	0	1	1	0	0	0	0	0
Jalpaiguri	22·1	−2.8	25·6	26	12·5	+0·4	7·3	10,15	12·6	44·4	+27·4	26·4	2	4	+2·6	9·2	5·7	+3·6	0	4	0	0	2	0	0	0	0	0	0
Cooch Behar	23·9	..	27·9	26	11·5	..	6·1	16	19·6	42·3	+21·7	14·4	9	4	+2·2	5·9	2·7	..	1	4	0	0	2	2	0	0	0	0	0
Balurghat	25·1	..	30·0	25	11·0	..	6·3	15	30·5	51·5	..	31·1	3	3	..	5·6	3·8	..	1	6	0	0	1	4	0	0	0	0	0
Malda	24·5	−1·8	30·0	25	12·5	+0·2	8·0	10	25·0	50·6	+29·5	18·8	8	5	+3·3	9·5	6·7	+2·0	0	6	0	0	2	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	25·1	−2·4	31·2	25	13·2	−0 4	8·6	10	20·9	77.6	+56·5	35.6	6	5	+3·3	4·3	(d) 2·9	+0.5	0	6	0	0	1	0	0	0	0	0	0
Suri	25.3	..	31·9	25	14·1	..	8·4	10	13.6	81.4	..	41·8	8	5	..	8·9	7·9	..	1	6	0	0	5	0	0	0	0	0	0
Asansol	24·9	−3·0	30·4	25	14·0	−0.1	·9	10	21.9	126·5	+94·8	71.3	8	5	+2·5	12·6	7·8	+2.0	1	6	0	0	6	0	0	0	0	0	0
Santiniketan	25.1	..	31·1	25	13.5	..	8·6	10	9.3	122.9	..	46.5	8	4	..	10·6	8·3	..	0	6	0	0	3	0	0	0	0	0	0
Krishnanagar	26·3	−1·9	32.1	25	13·4	+0.2	8·6	16	10·0	63.2	+34·0	26·0	6	4	+2·2	4·3	3·0	+0·3	0	5	0	0	0	0	0	0	0	1	0
Purulia	24·3	−4·7	30.3	25,28	13·8	−1·5	8·9	9,10	22·3	64·7	+51·6	25.2	8	6	+4.5	7·5	5.9	+2.2	0	6	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	89·8	+60·8	53·2	8	5	+2·9	..	..	..	0	5	0	0	1	0	0	0	0	0	0
Burdwan	23·2	−5·3	28·4	25	14·6	−0·1	9·7	10	12.2	88·3	+54.8	37·6	8	4	+2.0	8·0	4·6	+2·2	0	6	0	0	0	0	·0	0	0	0	0
Barrackpore Aerodrome	25·7	..	30·9	25	13·7	..	8·2	10	8·9	36·7	..	16·0	..	4	..	..	..	..	0	6	0	0	2	2	0	0	0	0	0
Calcutta (Dum Dum)	26·8	−2·4	32·0	25	13·6	−1·6	7·6	10	9·0	25·5	+9·1	14·9	8	3	+1·5	7·6	4·6	−0·5	1	6	0	0	2	4	0	0	0	0	0
Calcutta	26.9	−1·8	32·1	25	15·4	+0.2	10·1	10	11·2	32·2	+2·5	10·2	8	4	+2·2	10·6	5·3	+1·1	1	7	0	0	3	1	0	0	0	1	0
Midnapore	26·2	−3·5	31·7	28	14.7	−1·5	9·3	10	34·4	66·2	+31·9	21·8	3	4	+2·0	6·7	4·3	+1·2	0	7	0	0	1	0	0	·0	0	0	0
Contai	25·8	−3·6	30·8	21	15·9	−1.6	10·9	10,11	29·5	118.4	+107.4	23·8	8	6	+5·3	7.1	4·2	−2.5	0	7	0	0	0	0	0	0	0	0	0
Sagar Island	24·6	−2·4	29·1	26	17·5	−0·6	11·8	10	21·8	100·6	+71·4	36·0	6	7	+5·2	16·8	13·9	+3·1	0	8	0	0	6	1	0	0	0	0	0
Sandheads	26·5	..	32·8	27	21.0	..	..	..	2·0	·2	+46·0	30·7	6	3	+1·9	..	..	..	0	5	0	0	2	0	0	0	0	0	0
Orissa																													
Baripada	26·5	..	32·7	28	14·2	..	9·9	10,11 16	40·8	138·4	..	42·4	13	8	..	4·6	2·4	..	0	10	0	0	2	17	0	0	0	0	0

(d) Mean of 27 days.

*Data not reliable

(R) Receiver not received

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—*Contd.*																														
Jharsuguda	26.7	—3·9	32·2	31	13·6	—0·8	8·3	10	11·6	116·7	+93·3	46·7	6	7	+5·5	9·4	7·3	+0·9	0	8	0	0	7	0	0	0	0	0	0
Keonjhargarh	24.4	..	30·0	27,28	13·9	..	8·5	10	39·3	139·3	..	66·8	13	7	..	6·0	4·7	..	0	9	0	0	0	0	0	0	0	0	0
Balasore	26·0	—3·3	31·8	25	15·6	—0·8	10·7	10	38·5	125·7	+91·9	38·5	8	6	+3·6	(d) 6·3	(d) 2·7	—1·5	0	8	0	0	4	0	0	0	0	0	0
Sambalpur	27·1	—3.1	32·3	28	14·5	—0·7	9·3	10	36·1	168·6	+144·7	56.8	12	6	+4·0	5·3	4·0	+0·1	0	7	0	0	3	0	0	0	0	0	0
Angul	26·7	—3·7	31·4	28	15·9	—0·4	11·4	10	67·8	370·1	341·4	118.1	6	8	+5·9	7·6	7·0	+1·4	0	9	0	0	3	0	0	0	0	0	0
Cuttack	28·8	—2·4	34·2	28	17·1	—1.1	12.4	15	5·8	93·8	+74·0	31·6	7	4	+2.5	7·6	5.1	+2·7	0	6	0	0	1	0	0	0	0	0	0
Chandbali	26·5	—3·0	32·2	28	15·8	—1·8	12·2	6 days	22·5	189·1	+155·8	50.2	6	8	+6·2	9·3	7·0	—0·6	0	8	0	0	0	0	0	0	0	0	0
Bolangir	28·2	..	33·2	28	15·9	..	10·0	10	1·2	114·0	..	53·2	6	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Phulbani	26·9	..	31·1	26	12·3	..	6·0	24	1·8	99·4	..	49·8	7	6	..	4·0	2.3	..	1	8	0	0	1	0	0	0	0	0	0
Titilagarh	29·4	..	34·6	28	16·1	..	11·2	10	71·0	83·5	..	39·0	5	5	..	2·0	3·2	..	0	8	0	1	2	0	1	0	0	0	0
Bhubaneswar	27·6	—4·4	33·0	28	17·2	—1·2	12·6	15	10·6	83·4	+58·7	37·3	8	5	+3·7	12·2	9·7	—1·3	0	6	0	0	5	4	0	0	0	0	0
Puri	26·0	—2·3	31·1	23	19·4	—1·2	14·4	17	21·6	92·4	+69·0	44·6	8	5	+3·8	16·3	13.8	+0·1	0	6	0	0	0	0	0	0	0	0	0
Gopalpur	27·4	—1.2	30·8	23	18·5	—1·1	13·2	17	4·4	25·5	+2·6	12·0	9	4	+2·8	16·7	14·1	+1.9	0	5	0	0	0	1	0	0	0	0	0
Koraput	(e) 25·3	—2·9	..	..	(e) 15·2	+1·1	..	..	0	0	—2·1	0	..	0	—0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateau																														
Dumka	24·9	—2·0	31·1	25	12·9	—0·3	8·2	10	8·4	79·4	+55·5	31·6	8	5	+3·0	8·3	5·9	+3·5	0	6	0	0	3	0	0	0	0	0	0
Daltonganj	25·2	—1·4	30·7	25,28	10·5	—0·6	5·7	10	40·6	57·2	+24·9	15·4	8	5	2·6	..	..	..	..	6	0	0	1	0	0	0	0	0	0
Hazaribagh	22·3	—2·8	27·6	25	11·1	—1·2	5·4	10	17·6	91·0	+59.9	27·8	8	5	—2·5	14.3	9·3	—0·4	0	6	0	0	5	0	0	0	0	0	0
Dhanbad	24·9	..	30·3	25,26, 28	13·8	..	8·3	10	16·2	89·4	..	49·7	8	5	..	(d) 9·2	5·9	..	0	6	0	0	1	1	0	0	0	0	0
Ranchi	24·3	—0·6	29·2	27	10·7	—2·1	4·4	10	47·7	145·7	100·0	43·0	2	6	+2·6	6·2	4·9	—1·5	0	6	0	1	2	0	0	0	0	0	0
Ranchi Aerodrome	22·2	..	28·2	28	11·6	..	6·1	10	5·2	74·7	..	28·8	8	6	..	(k) 15·8	11·1	..	0	6	0	0	6	1	0	0	0	0	0
Jamshedpur	26·3	—2·2	32.2	25,28	13·7	—0·6	8·9	10	7.6	109·0	+59·5	55·6	8	6	+2·3	8.1	5·1	+1·4	0	8	0	0	3	1	0	0	0	1	0
Jamshedpur (PBO)	25·8	..	32·2	28	13·4	..	8·9	10	6·4	115·7	..	52·0	8	5	..	..	..	..	0	8	0	0	6	1	0	0	0	0	0
Chaibasa	25·8	—3·0	32·1	25	13·9	—0·2	8·8	10	10·0	102·8	+64·9	32·0	8	6	+3·5	4·0	2·5	—0·1	0	7	0	0	4	0	0	0	0	0	0
Bihar Plains																														
Motihari	20·6	—4·3	25·7	28	10·6	+0·6	6·6	14	17·0	52·5	+37·3	23·0	8	4	+2·6	4·0	2·1	—1·6	0	4	0	0	0	0	0	0	0	0	0
Forbesganj	24·6	..	29·7	25	11.0	..	6·0	15	9·2	61·0	..	42·6	2	3	..	9·0	5·4	..	0	4	0	0	2	0	0	0	0	0	0
Darbhanga	23·9	—1·6	28·3	26	12·7	+1·1	9·4	12 18	15·6	20·7	+7·2	12·8	3	3	+1.6	5·6	3·5	+0·1	0	4	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	—11·5	0	..	0	—1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chapra	24·4	..	30·4	9	10.6	..	6·4	9	14·9	23·3	+6·0	11·8	3	4	—2·4	4·3	2·7	..	0	4	0	0	1	0	0	0	0	0	0
Purnea	24·5	—1·6	29·6	25	10·4	+0·5	6·1	13	22·6	34·9	+19·2	20·6	3	2	+0·7	8·1	4·1	+0·7	0	5	0	0	1	0	0	0	0	0	0
Patna	24·2	—1·2	29·5	25	12·8	+0·1	7·2	10	11·4	23·2	+4·4	7·8	5	3	—1·4	9·2	8·1	+3·6	0	6	0	0	0	0	0	0	0	0	0
Patna Aerodrome	23·9	..	29·7	25	11·1	..	6·6	9	13·0	20·9	..	7·8	3	3	..	12·8	7·3	..	0	6	0	0	2	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	5·0	—16·1	2·8	5	1	—0·6	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Bhagalpur	23·8	—3·6	29·3	25	11·8	—2·5	7·1	9	10·8	32·9	+29·4	9·0	8	5	+4·5	11·2	7·7	+1·4	0	6	0	0	3	0	0	0	0	0	0
Sabaur	23·5	—2·2	28·9	25	10·1	—0·7	5·4	10	8·4	33·0	+12·9	9·8	8	5	—3·3	12·7	7·0	+1·4	0	6	0	0	3	0	0	0	0	0	0
Jamui	25·1	..	30·7	25	11·4	..	6·3	10	22·4	63·2	..	18·4	8	4	..	11·5	5·9	..	0	5	0	0	1	0	0	0	0	0	0
Dehri	24·5	..	30·6	4	12·9	..	8·2	9 6	6·2	20·8	—0·5	11·6	1	3	—1·2	11·4	7·0	..	0	4	0	0	0	2	0	0	0	0	0
Gaya	24·4	—1·9	30·8	days 28	11·1	—0·5	6·0	10	25·4	38·3	+16·7	14·9	1	4	+2·2	14·0	9·1	+2·7	0	5	0	0	3	0	0	0	0	0	0
Uttar Pradesh (East)																														
Kheri	22·7	—3·1	29·0	28	9·7	—1·1	6·2	9	25·4	141·6	+127·8	62·6	2	4	—2·6	6·4	4·5	+1·0	0	5	0	2	3	0	0	0	0	2	0
Bahraich	23·1	—1·9	28·5	24,25	9·6	—0.9	5·6	9	9·0	37·3	+14·2	14·8	8	4	—2·0	7·3	6·7	+3·3	0	4	0	0	0	0	0	0	0	0	0
Nautanwa	24·3	..	29·9	28 25	9·8	..	5·6	15	3·2	26·6	..	10·8	1	4	..	7·6	4·9	..	0	4	0	0	1	1	0	0	0	0	0
Hardoi	22·2	—3·9	29·6	28	9·9	—0·8	6·1	9	19·5	51·1	+41·4	17·6	7	4	—2·9	10·9	6·1	+0·7	0	6	0	1	1	0	0	0	0	0	0
Gonda	23·4	—2·2	28·9	24	10·3	—0·5	6·1	9	1·2	24·6	+1.5	10·2	2	3	+0·7	5·0	4·5	—0 5	0	3	0	0	1	0	0	0	0	0	0
Lucknow	23·1	—2·8	30·5	28	10·6	—0·2	6·6	9	9·4	26·2	+7·9	14·2	1	3	+1·4	9·0	5·3	+2·6	0	4	0	1	3	0	0	0	0	0	0
Lucknow (Amausi)	23·3	—2·1	31·2	28	8·9	—0·1	4·7	9	6·4	18·9	+0·6	9·3	1	2	+0·4	(e) 13·6	(e) 7·7	..	0	4	0	1	3	1	0	0	0	0	0
Faizabad	23·6	..	30·1	24	8·5	..	3.9	9	0	12·8	..	4·6	3	3	..	8·3	5·1	..	0	3	0	0	3	0	0	0	0	0	0
Gorakhpur	24·8	—0·6	30·0	25	11·9	+0·7	7·8	9	35·4	66·6	+50·6	58·2	8	3	+1·2	..	..	..	0	3	0	0	1	0	0	0	0	0	0
Kanpur	23·5	—1·5	30·7	28	10·3	—0·3	5·3	14	0	20·8	+4·0	12·0	1	2	+0·4	19·3	13·4	+6·8	0	3	0	0	1	1	0	0	0	0	0
Kanpur (Aerodrome)	23·4	..	30·8	28	9·7	..	4·7	9	0·8	24·6	..	13.9	1	3	..	..	..	..	0	4	0	0	1	1	0	0	0	0	0
Sultanpur	24·2	..	30·2	24	10·9	..	6·3	11	0	13·8	..	5·8	5 8	2	..	10.2	6·2	..	0	3	0	0	3	0	0	0	0	0	0
Azamgarh	25·0	..	30·7	24,25	8·2	..	2·9	9	3·2	19·4	..	12·8	8	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Fatehpur	23·9	—2·7	31·5	28	10·5	—0 8	5·7	9	1·9	9·9	—8·1	8·0	5	1	—1·4	11·3	5·5	+1·3	0	2	0	0	0	0	0	0	0	1	0
Ballia	25·3	..	31·5	25,28	11·5	..	7·2	9	9·6	18·2	..	5·8	3	4	..	7·6	5·2	..	0	5	0	0	0	0	0	0	0	0	0
Banda	24·9	..	32.5	28	11·2	..	5.9	9	0 6	0·6	..	0·6	5	..	..	6·1	3·7	..	0	1	0	0	0	1	0	0	0	0	0
Allahabad (Bamrauli)	24·9	—1·3	32·0	28	10·3	—0·2	4·9	9	10·0	10·2	—5·8	7·0	8	2	+0·3	9·1	5.2	+0·1	0	3	0	1	2	2	0	0	0	0	0
Varanasi Babatpur	24·2	—3·1	30·5	24	10.1	—1·5	5·0	9	5·8	20·3	+12·6	12 8	8	2	+1·2	17.7	12·2	+3·1	0	4	0	0	1	1	0	0	0	0	0
Varanasi	21·5	—4·8	30·1	24,25	10·3	—0·9	6·7	51	6·4	23·2	+5·2	12·2	8	3	+1·1	10·6	7·0	+2·5	0	5	0	0	0	1	0	0	0	0	0

(e) Mean of 26 days. (d) Mean of 27 days. (k) Mean of 20 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—																													
Dehra Dun	18·9	—1·8	27·6	28	6·4	—1·7	1·2	8	67·0	212·9	+150.2	60·0	7	6	+2 2	5.0	3·8	+1·1	1	8	0	0	6	0	0	0	0	0	0
Roorkee	20·4	—2·1	28·7	28	8·1	—0·2	3·9	8	24·4	100·6	+62·0	39·9	7	5	+2·2	8·9	6·4	+2·9	0		0	1	4	0	0	0	0	0	0
Najibabad	21·0	..	29·0	28	..	..	..	..	20·3	78·1	..	27·0	7	5	..	8·9	5·1	..	0	5	0	0	2	0	0	0	0	0	0
Meerut	20·4	—3·1	26·7	24,28	9·0	+0.1	5·2	9	..	34·0	+8·1	16·0	7	4	+1.8	..	9·8	..	0	4	0	0	0	0	0	0	0	0	0
Bareilly	22·5	—1.4	29·7	28	9·6	—0·5	6·0	9	19·2	23·4	—1·2	15·6	2	2	+0.1	10.4	7·7	+4·5	0	4	0	0	3	2	0	0	0	0	0
Aligarh	22·0	—2·3	29·4	1	8·4	—1·9	4·5	8,9	11·0	18·2	—1·1	11·4	2	2	—0·1	12·1	8·5	+2·9	0	3	0	0	1	1	0	0	0	0	0
Mainpuri	22·5	—2·9	30·3	28	9·9	0	4·9	9	5·8	25·8	+12·1	20·4	2	2	+0·8	(d) 8·5	(d) 5·3	..	0	3	0	0	3	1	0	0	0	0	0
Agra	22·5	—2.7	30·8	28	9·9	+0·9	4·4	9	3·6	38·8	+26.3	17·0	1	3	+1·9	6·4	4·5	—0·6	0	3	0	0	0	0	0	0	0	0	0
Agra Aerodrome	22·8	..	31·2	28	8·8	..	2·7	9	1·9	15·8	..	11·8	1	2	..	..	..	..	0	3	0	0	3	2	0	0	0	0	0
Orai	22·8	..	31·1	28	10·0	..	5·6	9	1·0	3·0	..	3·0	5	1	..	12·7	6·7	..	0	1	0	0	0	0	0	0	0	0	0
Jhansi	24·9	—2·3	33·0	28	12·8	+1·4	3·0	9	2·0	3·0	—8.4	3·0	5	1	—0·1	3·5	2·6	—1·7	0	1	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi) Pathankot	18·8	—3·4	26·7	28	7.1	—1·3	3·6	9	15·8	66·0	+24.1	32·8	2	4	+1·7	8·0	6·5	+0·1	0	6	0	2	1	0	0	0	0	0	0
Amritsar (Rajasansi)	19·4	—2·7	28·0	28	5·7	—0·6	1·9	9	7·0	21·9	+6·0	9·9	7	3	+1·4	10.0	8·2	+0.3	0	5	0	0	0	1	0	0	0	0	0
Adampur Aerodrome (R)																													
Ludhiana	20·6	—1.2	27·7	28	7·0	—1·6	2·8	9	20·5	40·9	+6·6	22·9	2	4	+1.3	7·2	4.7	+2·0	0	4	0	0	0	0	0	0	0	0	0
Ferozepore	19·4	..	27·3	28	6·7	..	2·6	8	5·1	9·5	..	5·1	7	1	..	6·7	3·4	..	0	3	0	0	0	0	0	0	0	0	0
Halwara Aerodrome	19·6	..	26·8	28	5·5	..	1·8	8	11·9	35·2	..	14·2	1	4	..	..	..	..	0	4	0	0	2	2	0	0	0	0	0
Chandigarh	20·2	—3·2	28·1	28	8·1	—0·8	0	8	40·4	136·5	+111·0	48·9	2	5	+3·4	..	..	..	0	6	0	0	0	1	0	0	0	0	0
Ambala	20.2	—2·6	27·9	28	8·8	0	5·0	8	18·4	125.4	+77·9	57·4	2	5	+1.9	8·8	7·0	+1·7	0	5	0	0	0	0	0	0	0	0	0
Ambala Aerodrome	20·1	..	27·9	28	7·8	..	3·3	14	24·3	121·0	..	64·2	2	5	..	..	..	..	0	5	0	0	2	1	0	0	0	0	0
Patiala	19·7	..	27·2	28	8·6	..	4.6	8	13·0	103·0	+66·9	45·0	1	3	+0·3	12·3	10·7	..	0	3	0	0	1	0	0	0	0	0	0
Bhatinda	20·1	..	28·2	28	7.9	..	3·4	9,13,14	8.6	21·8	..	11·0	1	2	..	8·6	6·4	..	0	5	0	0	0	0	0	0	0	0	0
Karnal	20·2	..	27·5	28	9·9	..	7·5	8	4·9	29·8	..	8·0	1,6	4	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Hissar	20·9	—3·7	27·8	28	7·1	—1·3	2·8	8	0	12·2	—1·5	5·0	1	2	+0·8	8·8	6·9	+0·6	0	4	0	0	0	2	0	0	0	0	0
New Delhi (Safadarjung)	21·2	—3·1	27·7	24	9·0	—0·4	4·4	8,9	8 8	44·9	+23·8	22·4	6	4	+2·3	20·8	14·1	+3·5	0	5	0	1	3	0	0	0	0	1	0
New Delhi (Palam)	21·3	..	29.0	23	7·2	..	2·2	8,9	7·0	32·1	..	12·0	6	4	..	..	..	..	0	4	0	0	3	2	0	0	0	0	0
Himachal Pradesh																													
Mandi	17·3	—4·0	25·4	28	4·3	—0·6	0·3	7	36·6	142·1	+112·0	38·6	2	7	+4·5	(d) 2.6	(d) 3·0	+0·5	1	12	0	0	1	5	0	0	0	0	0
Bilaspur	18·7	..	26·6	27	5·4	..	1·5	14,15	50·1	193·7	..	62·6	2	5	..	..	..	..	0	10	0	0	2	13	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras (R)																													
Sonamarg (R)																													
Leh (R)	—1·6	—2.2	6·4	28	—12·2	—0·1	—18·8	14	2·1	15·2	+7.3	5·8	22	2	+1.1	3·7	2·6	+0·3	0	7	7	0	0	0	0	0	0	0	0
Srinagar	5·1	—1·6	14·1	28	—1·6	—0·2	—6·2	16	15·8	50·5	—21·6	7·8	2	8	+1·8	5·4	4·6	+0·7	0	14	12	0	0	0	0	9	0	0	0
Srinagar Aerodrome	5·2	..	13·4	28	—3·5	—	—9·2	16	12·7	70·6	..	17·5	17	8	..	..	..	..	0	13	13	0	2	1	0	3	0	0	0
Gulmarg									Closed during winter months																				
Jammu (R)																													
Jammu Aerodrome	18·6	..	26·9	28	7·0	..	2·2	8	5·0	37·5	..	11·6	7	5	..	..	..	..	0	6	0	1	0	1	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	20·9	—2·2	29·0	28	7·3	—0·3	1·4	9	1·3	3.9	—24·8	1·6	2	0	—2·0	5·3	3·7	—3.1	0	5	0	0	1	1	0	0	0	0	0
Churu	21·4	..	30·4	28	7·2	..	2·0	9	2·8	15·0	..	8·2	1	2	..	9.4	6·4	..	0	3	0	0	0	3	0	0	0	0	0
Bikaner	23·1	—3·1	32·5	28	7.4	—1·0	2·6	9	1·8	22·1	+15·2	19·0	1	1	+0·3	5·5	3·6	—2·2	0	3	0	0	0	1	0	0	0	0	0
Nagaur	22·5	..	32·2	28	9·3	..	2·8	8	1·0	14·2	..	11·0	1	1	..	6·8	5.6	..	0	3	0	0	0	0	0	0	0	0	0
Phalodi	23·5	..	32·9	28	9·8	..	4·4	8	0	30·4	+25·6	22·1	1	2	+1·5	10·0	8·8	..	0	2	0	0	0	0	0	0	0	0	0
Jaisalmer	24·2	..	33·3	28	9·4	..	1·7	8	8·4	8·9	..	8·4	2	1	..	9·3	7·1	..	0	2	0	0	0	1	0	0	0	0	0
Jodhpur	25·2	—1.8	34·4	28	11·2	—0·2	4·6	8	1·0	21·1	+15·0	14·4	1	2	+1·4	8·1	7·5	—3·4	0	3	0	0	0	1	0	0	0	0	0
Barmer	26·2	—1·2	34·6	28	12·5	—0·6	7·1	9	3·0	16·8	+9·7	13·2	1	2	+1.4	7·6	6·5	—1·4	0	3	0	0	0	0	0	0	0	0	0
Munabao	27·1	..	35·5	23	..	..	..	..	0	10·4	..	10·4	1	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	21·8	..	30·8	28	6·5	..	1·8	9	2·2	12·0	..	7·7	1	1	..	10·8	8·1	..	0	3	0	0	0	2	0	0	0	0	0
Sikar	..	..	..	..	..	..	..	..	1·0	14·5	..	9.4	1	2	..	7.2	6·1	..	0	3	0	0	0	0	0	0	0	0	0
Alwar	22·6	..	31·2	28	..	..	..	..	4·6	14·3	..	6·4	1	3	..	5·6	3·6	..	0	4	0	0	0	1	0	0	0	0	0
Jaipur (Sanganer Aerodrome).	22·7	—2.1	31·6	28	9·1	—1·2	3·4	9	6·3	16·4	+8·3	6·3	2	3	+2·2	..	..	..	0	3	0	0	1	2	0	0	0	0	0
Dholpur	22·8	..	32·0	28	10·0	..	5·7	15	0·8	24.4	..	14·0	2	3	..	4·0	2·1	..	0	4	0	1		2	0	0	0	0	0
Ajmer	23·1	—1·9	31·1	28	8·4	—1·5	1·9	8	1·6	14·2	+7·6	7·6	1	2	+1·3	7·7	5·1	+1·7	0	3	0	0	0	1	0	0	0	0	0
Tonk	23·8	..	32·6	28	8·2	..	1·8	9	0	2·0	..	1·2	4	0	..	8·7	5.5	..	0	2	0	0	2	2	0	0	0	0	0

(R) Reports not received. (d) Mean of 27 days.

Division and station	Air temperature in °C								Rainfal in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)— *Contd.*																															
Kota	24·0	—3·8	31·7	24	12·5	—0·5	7·2	9	1·0	1.0	—4.3	1.0	5	0	—0·5	4·7	2·8	+0·1	0	1	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam).	26·9	..	33·8	28	9·7	..	2·3	8	0.2	7.3	..	6.1	4	1	..	5·7	4·3	..	1	2	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	25·8	..	32·8	28	10·5	..	4·1	9	0	0	..	0	..	0	..	8·8	5 4	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	25·3	—1·0	32·8	28	8·5	—1·8	1·0	9	0.5	0.5	—3·1	0 5	5	0	—0.5	5·0	2·5	..	0	1	0	0	0	0	0	0	0	0	0
Jhalawar	26·2	—1·7	33·3	28	10·6	—1.0	5.6	8,9	0	0	—2.0	0	..	0	—0·4	6·9	4·2	0	0	0	0	0	0	1	0	0	0	0	0
Madhya Pradesh (West)																															
Gwalior	23·4	—3.5	32.2	28	9.1	—0.8	3.6	9	0.9	1.7	—6.4	0.9	5	0	—0.8	10.5	5.4	..	1	2	0	0	1	2	0	0	0	0	0
Sheopur	25 3	—3·1	32·6	28	9·1	—0·8	3·6	9	0.4	0.4	—5·1	0.4	5	0	—0·6	9·3	6·2	+1·1	0	1	0	0	0	0	0	0	0	0	0
Shivpuri	23·7	..	30·6	24	8·1	..	1·7	9	0.5	0·5	..	0.5	5	0	..	9·4	6·0	..	0	1	0	0	0	0	0	0	0	0	0
Nowgong	24·5	—2·2	32·2	28	8·2	—2·2	2·6	9	0	0.2	—14.3	0·2	2	0	—1·3	7·5	3.9	+1.3	1	0	0	0	0	0	0	0	0	0	0
Guna	25·3	—2.0	32·0	28	8·4	—1.7	1·1	9	0	0	—4.8	0	..	0	—0.6	10·4	6·7	..	0	0	0	0	0	1	0	0	0	0	0
Neemuch	25·7	—1·4	32·0	28	10·7	—0 4	2·8	8	0	0	—3.8	0	..	0	—0·4	8·8	6·4	—1.0	0	0	0	0	0	0	0	0	0	0	0
Rajgarh	27·1	..	33·1	24	9.4	..	3.1	8	0	0	..	0	..	0	..	9·5	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	24·8	—2.5	30·6	28	11·6	—1.6	5·2	9	0	0	—11.9	0	..	0	—1.2	9·0	6·8	..	0	0	0	0	0	1	0	0	0	0	0
Ratlam	27·8	—1·5	33·0	23	11·3	—1·7	5·4	9	0	0	—1.7	0	..	0	—0·3	7·9	5·6	—2.6	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	26.6	—1.6	32.0	24	10.5	—2.1	4.7	8	1.8	1.8	—2.0	1 8	2	0	—0.5	12.3	9.7	+2.0	0	1	0	0	1	0	0	0	0	1	0
Ujjain	27·4	..	33.0	28	10·9	..	5 0	9	..	0	..	0	..	0	..	..	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	28·7	—0·7	34·9	21,24	11·6	—2·6	6·4	8	0	0	—9·7	0	..	0	—0 9	7·0	5·4	+1·9	0	0	0	0	0	0	0	0	0	0	0
Indore	27·3	—1.4	32·8	24	9·8	—0·8	1·5	8	0	0	3·6	0	..	0	—0·5	13·7	10·7	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur	28·5	..	35·2	28	11·0	..	4·4	9	14.0	18.0	..	18.0	5	1	..	7·9	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Chhindwara	27·3	—1.6	32·9	25	10·6	—2.1	4.7	9	3.3	14.9	+9.0	14.9	6	1	+0.6	7.0	4·5	—0.7	0	1	0	0	1	0	0	0	0	0	0
Seoni	27·1	—1·2	33·3	25	12.0	—0·	6·7	9	7.6	25.6	+5.0	25 6	6	1	0	9 2	6.3	+1·8	0	1	0	0	2	0	0	0	0	0	0
Betul	28·0	—1.5	33·6	25	9·6	—1·7	2·0	9	0	0	—2·2	0	..	0	—0·3	7·7	4·9	—0.3	0	0	0	0	0	0	0	0	0	0	0
Khandwa	30.0	—1·5	33·9	20	11·8	—1.5	4·3	9	0	0	—4·1	0	..	0	—0·4	9·2	6·2	+0·7	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (East)																															
Satna	25·0	—1·3	31·9	28	9·9	—1·3	4·5	9	1.6	9.0	—10·8	5.4	1	1	—0·8	8·0	5·3	+1·1	1	3	0	0	1	0	0	0	0	0	0
Sidhi	25·0	..	31·1	28	9·7	..	5·0	9	5.4	9.6	..	5.4	7	2	..	9·0	4·2	..	0	2	0	0	0	0	0	0	0	0	0
Umaria	25.7	—1·6	31·8	25	8·5	—2.4	1.8	9	3.6	9.0	—16·4	7.8	7	1	—0·9	7·2	4·0	0.0	0	2	0	0	0	0	0	0	0	0	0
Jagdalpur	27·0	—0·4	32·8	28	10·1	—0·5	4·4	9	2·0	2.0	—17·3	2.0	6	0	—1·7	5·7	3·4	+0·7	0	1	0	0	0	1	0	0	0	0	0
Ambikapur	23·9	—3·2	29·0	25	9·9	—0·5	4·2	10	5.4	113.1	+90.0	62.4	7	3	+1.1	11·8	8·3	+1.4	0	4	0	0	4	1	0	0	0	0	0
Pendra	24·8	—0·8	30·3	25	11·9	—0·6	5·3	9	6.3	36.5	—0.8	20.0	7	2	—0·9	11·6	7·6	..	0	4	0	1	4	0	0	0	0	0	0
Mandla	26·4	—2.9	32·7	25	9.0	—1.1	3.7	15	27.4	67.0	+51.7	42.2	6	3	+1.3	3·8	6·9	—0·5	0	4	0	1	3	2	0	0	0	0	0
Champa	27.1	—3·6	33·5	28	13·9	—1.9	8.5	10	6.8	67.2	+53.9	43.6	1	1	+2.8	5·5	4·3	—1·5	0	8	0	0	4	0	0	0	0	0	0
Raigarh	27.5	—4.4	32.5	28	14·2	—1.7	9·5	10	9.6	66·2	+50·7	25.2	1	1	+6.7	6·1	4·4	..	0	0	7	0	0	0	0	0	0	0	0
Raipur	27.9	—2·1	33·7	28	14·6	—1·0	9·2	9	6.3	51.9	+29.8	25.0	7	5	—2·3	7·5	5·9	+0·1	0	5	0	0	6	0	0	0	0	0	0
Kanker	27.9	—1·9	32·6	26	15.9	+1·2	10·5	10	6.3	31·2	+9.4	10.0	12	4	+1·9	5·5	3·2	—1·1	0	4	0	0	2	0	0	0	0	0	0
Jagdalpur	29·5	—0·8	33·8	28	14·6	+0·3	10·0	17	12·6	47·2	+19·8	21·5	14	4	+2·4	7·6	4·7	..	0	4	0	0	1	1	0	0	0	0	0
Gujarat Region																															
Deesa	28.5	..	35.5	28	10.7	..	3.1	8	0.1	0.1	..	0.1	2	0	..	11·5	8·1	..	1	0	0	0	0	0	0	0	0	0	0
Radhanpur	28·6	..	34·0	28	11.7	..	5.6	7	0	0.7	..	0.7	1	0	..	8.0	6 0	..	0	1	0	0	0	0	0	0	0	0	0
Idar	28·5	..	35·1	28	15·0	..	10·0	6	2.0	3.6	..	2·0	5	0	..	7·9	7·2	..	0	2	0	0	0	0	0	0	0	0	0
Ahmadabad	29·4	—1·0	35·1	28	12·2	—1.8	4·4	8	0.4	1.5	—0·5	1.1	4	0	—0·2	9·5	5·7	+1·5	2	1	0	0	1	0	1	0	0	1	0
Dohad	28·4	—2.2	35·2	28	12·7	—1·5	6·0	8	0	0	—1·7	0	..	0	—0.2	11·4	9·1	—1.2	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	30·2	..	36·6	28	12·0	..	6·6	8	11.0	11.0	..	6.0	2	2	..	9·3	6·5	..	0	2	0	0	0	0	1	0	0	0	0
Baroda	31·1	—1·5	37·8	28	11.9	—0·5	6·2	8,9	6.1	6.1	+0.8	6.1	5	1	+0·7	..	..	..	0	1	0	0	0	0	1	0	0	0	0
Broach	32·1	—2.2	39·1	28	13·1	—1.8	5.8	9	1.3	12.3	+12.0	11.3	5	1	+0.9	8·6	6·6	+0.7	0	2	0	0	0	0	0	0	0	0	0
Surat	31·4	—0·5	37·7	26	14·4	—1·2	7·4	9	0	2.4	+0·4	2.4	5	0	—0·2	9·8(d)	8·3 (e)	+3·2	0	1	0	0	0	0	1	0	0	0	0
Saurashtra and Kutch																															
Bhutakia Bhimsar	28·0	..	33·5	28	14·7	..	9.0	7	0	6.5	..	6.5	4	1	..	16·9	15·1	..	0	1	0	0	0	0	0	0	0	0	0
Naliya	27·4	..	31·6	19,22	11·2	..	4·4	8	0	22.8	..	21.4	4	1	..	14·2	10·1	..	0	2	0	0	2	4	0	0	0	0	0
Bhuj (Rudramata)	27·7	—0.2	34·3	28	12·7	—0.2	6·1	8	0	16.4	+12.1	16.4	4	1	+0.6	12·4 (m)	9·4 (m)	..	0	1	0	0	2	0	0	0	0	0	0
Kandla	30·3	—0·9	32·9	27	15·4	..	..	..	..	..	..	..	..	..	..	13.1	10.1	..	..	..	..	..	..	..	..	..	..	..	..
New Kandla	26.3	..	31.1	4days	16·0	..	12·0	7	14.0	30.2	..	16.2	4	2	..	12·6	12·8	..	0	2	0	0	1	0	0	0	2	0	0
Mandvi	25·8	—0·5	31·5	25	14.3	—0.5	10·1	7,9	0	0	0	0	..	0	0	18·1	16·3	—0·1	0	0	0	0	0	2	0	0	1	0	0
Surendranagar	28·9	—2.5	34·7	22	14·5	—0.3	7·6	8	1.0	9·9	+9.9	8.9	4	1	+1.0	11·1	9·8	—0.5	0	2	0	0	2	0	0	0	0	0	0
Jamnagar (Aerodrome	27.7	—1.1	31·9	28	13.0	+1.0	6.1	9	0	0	—2.0	0	..	0	—0.2	..	..	..	0	0	0	0	1	3	0	0	0	0	0
Dwarka	25·4	—0.4	31·8	26	16·6	—0·7	11·2	9	3.6	3.6	—2.5	3.6	2	1	+0·5	17.7	14.9	+0.9	0	1	0	0	0	0	0	0	0	0	0

(d) Mean of 27 days. (e) Mean of 26 days. (m) Mean of 18 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch (*Contd.*)																													
Rajkot	28·7	−2·3	34·4	28	11·7	−1·1	4·7	7	0	4·3	+4·3	4·3	1	1	+1·0	18·6	14·2	−0·6	0	1	0	0	1	2	0	0	0	0	0
Bhaunagar	28.3	..	33·3	26	14·1	..	7.0	9	38·4	38.4	..	30·0	2	2	..	18·4	14·6	..	0	2	0	0	2	0	0	0	0	0	0
Aerodrome Bhaunagar	29·5	−1·2	36·0	28	13·3	−0.9	4·9	8,9	54.3	54.3	+52·8	49.0	2	2	+1·8	10·5	7·6	+0·8	0	2	0	0	1	0	0	0	0	0	0
Porbander	28.9	..	34·7	27	14·5	..	8·7	8	12.0	15.4	..	12.0	5	2	..	17.5	13.5	..	0	2	0	0	1	2	0	0	0	0	0
Aerodrome Porbander	28·0	−2·1	32·3	17,25	15·4	−1·4	9·4	8	11·1	20·5	+19·7	11.1	5	2	+1·9	15·3	11·5	−0.5	0	2	0	0	0	2	0	0	0	0	0
Keshod	30·6	..	36·3	28	11·8	..	5·2	9	10.2	11.4	..	10.0	5	1	..	18·4	14·3	..	1	1	0	0	1	1	0	0	0	0	0
Mahuva	30·0	..	36·6	28	16·1	..	8·3	8	2.5	2.5	..	2.5	5	1	..	12·7	9·7	..	0	1	0	0	1	0	0	0	0	0	0
Veraval	29·2	..	34·4	27	14·1	..	9·5	8,9	16.5	24.6	+22·8	18.1	1	2	+1·8	21.1	16·7	..	0	2	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	27·1	−1·0	30·1	19,20	15·7	−1·5	8·8	9	0	0	−0·3	0	..	0	−0.1	19.9	13·3	+1.4	0	0	0	0	1	0	0	0	0	0	0
Bombay (Santa Cruz)	29·9	+0.5	33·6	27	16·3	+0·6	11·0	8,9	18.0	19.2	+18.2	18.0	6	1	+0·9	12·9	9·5	..	0	2	0	0	1	0	0	0	0	0	0
Bombay (Colaba)	29·2	+0.8	33·1	16	18·8	−0·9	14·3	8	0.9	19.4	+17·4	18.5	5	1	+0·9	11·1	9·0	−2·3	0	2	0	0	1	0	0	0	0	0	0
Alibag	27·7	−0·4	32·5	16	17·2	−1·1	11·4	8	..	68.8	+68·0	34.5	5	2	+1·8	..	8·9	+0·2	0	2	0	0	0	0	0	0	0	0	0
Harnai	27·1	−0·6	30·6	17	21·1	−0·9	16·1	8	0	0	−0.1	0	..	0	0	(n) 18·3	(o) 17·4	+3.5	0	0	0	0	1	0	0	0		0	0
Ratnagiri	29·6	..	34·6	16	19·4	..	14·1	8	0	0	−1·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgar	29·4	−0·4	35·9	16	20·1	−1.5	16·7	8	0	0	−0·1	0	..	0	0	19·7	15·9	+1.7	0	0	0	0	0	0	0	0	0	0	0
Vengurla	30·9	−0·8	36·1	16	17·5	−1·5	12·9	14	0	0	−0·3	0	..	0	−0·1	9·9	4·8	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	31·4	..	38·2	28	16·8	..	..	..	0	0	..	0	..	0	..	9·0	6·9	..	0	0	0	0	0	0	0	0	0	0	
Jalgaon	32·0	−1·3	38·2	28	12·1	−2·2	4·7	8	0		−2·7	0	..	0	−0·4	13.8	11·1	+2·7	0	0	0	0	0	0	0	0	0	0	0
Malegaon	31·7	−0·5	37·8	28	10·9	−1·7	3·4	9	0	0	−2.3	0	..	0	−0·2	9·0	7·4	+0·6	0	0	0	0	0	0	0	0	0	0	0
Deolali Aerodrome	30.4	..	37.3	28	10.6	..	4·2	8	0	0	..	0	..	0	..	10·1	6·5	..	0	0	0	0	1	0	0	0	0	0	0
Ahmednagar	31·9	+0·5	38·2	28	12·8	−0·5	7·8	8	0	0	−3·3	0	..	0	−0·3	4·3	2·7	−5·0	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	5·2	+2·1	5.2	6	1	+0·7	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Poona Aerodrome	31·0	..	36·6	28	12·8	..	6·6	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Poona	31·9	−0·6	37.6	28	11·5	−1·3	5.7	8,9	0	0	−1·5	0	..	0	−0·2	4.3	2.5	−4·3	0	0	0	0	0	0	0	0	0	0	0
Jeur	32·6	−1·0	37·8	28	11.7	−3·0	7·0	9	0	0	−2·1	0	..	0	−0·2	8·4	5·6	−0·7	0	0	0	0	0	0	0	0	0	0	0
Baramati	31·4	−1·9	37.0	28	12·7	−1·8	7.7	8,9	0	0	0	0	..	0	0	7.7	6.7	−0·9	0	0	0	0	0	0	0	0	0	0	0
Sholapur	33·4	−0.2	38·6	28	15·9	−1·2	11·4	9	0	0	−3·3	0	..	0	−0·3	9·0	7·4	−1.5	0	0	0	0	0	0	0	0	0	0	0
Miraj	32·8	+0.3	37·4	28	12·9	−2·1	7·3	14	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	32·1	−0·7	37·4	28	14·4	−1·5	9·3	13	0	0	−0·5	0	..	0	−0·1	10·5	8·7	−0·3	0	0	0	0	0	3	0	0	0	0	0
Marathawada																													
Aurangabad	31·1	−0·3	37·4	28	15·0	−0·3	10·2	9	1.8	1.8	−2·5	1.8	6	0	−0·4	10·4	8·9	+0·2		1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	30·5	..	36·8	28	10·8		3·9	9	5.2	5.2	..	5.2	6	1	..	11·5	8·4	..	0	1	0	0	1	0	0	0	0	0	0
Parbhani	31·9	−1·2	37·4	28	13.7	−2.0	8·0	9	0	0	−6·2	0	..	0	−0·7	9·6	6·7	+0·3	0	0	0	0	0	0	0	0	0	0	0
Nander	32·6	..	38·0	28	..	..	..	..	0	0	..	0	..	0	..	4.8	4.0	..	0	0	0	0	0	0	0	0	0	0	0
Bir	31·4	..	36·9	28	12·0	..	4·6	9	0	0	..	0	..	0	..	(n) 7·0	(n) 3.6	..	0	0	0	0	0		0	0	0	0	0
Vidarbha																													
Gondia	28·9	−1·8	34·2	25	13·6	−1·7	8·2	9	0	10.8	−3·9	5.6	6	2	+0·9	4·4	2.5	−1·0	0	3	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	30·7	−1·4	36·4	28	13·0	−2·3	6.4	9	1.8	3.1	−13·4	3.1	6	1	−0·4	12·1	9·7	..	0	1	0	0	1	1	0	0	0	1	0
Amravati	31·4	−0·4	37·0	28	14·9	−1·8	9·4	9	2.7	4.3	−6·9	4.3	6	1	+0.2	10·9	8·5	+2·1	0	1	0	0	1	0	1	0	0	0	0
Akola	31·5	−1·1	37·2	28	13·2	−1·1	7·7	9	1.2	1.2	−6.4	1.2	6	0	−0·6	7·5	4·6	−0.4	0	1	0	0	0	0	0	0	0	0	0
Brahmapuri	30·0	..	35·0	25	14·4	..	8·9	9	26·6	35.8	..	27·6	12	2	..	2·3	2·1	..	0	3	0	0	2	1	0	0	0	0	0
Buldhana	28·3	−2·1	33.4	28	15.0	−2·7	6·0	8	22·4	25·4	+25.1	25·4	6	1	+1·0	8·3	7·1	−1·5	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	30·9	−1·4	36.1	25	15·9	−2.0	9·0	8	0	0	−4·1	0	..	0	−0·3	11·7	9·5	0	0	0	0	0	0	0	0	0	0	0	0
Chanda	32·1	−0·3	36·5	28	14·5	−0·8	8·6	8	0	0	−20·6	0	..	0	−1·3	8.3	5·5	+2·1	0	0	0	0	0	0	0	0	0	0	0
Pusad	32·8	..	34·2	21	14·3	..	10·1	1, 16, 17	0	0	..	0	..	0	..	9·5	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Sironcha	32·8	−1·1	36·6	26	17·5	−0·6	11·3	17	3.2	17.6	+12·9	16·6	7	1	+0·4	5·1	3·1	−1·4	0	2	0	0	2	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	29·3	−0.9	32·4	22	19·6	−0·3	13·8	17	5·8	11·8	−3·7	5·8	9	2	+0·7	15·0	10·9	+9	0	4	0	0	3	0	0	0	0	0	0
Vishakhapatnam	30·0	−1·7	32·5	28	20·5	+0.7	15·6	17	42·0	88.1	+64·2	42·0	8	3	+1·9	17·2	9·8	+4·7	0	5	0	0	2	0	0	0	0	0	0
Kakinada	29.7	−0·1	34·5	28	21·1	+0·2	18·0	18	15·0	29·6	+21·5	15·0	12	2	+1·4	15·9	11·7	+4·1	0	2	0	0	0	0	0	0	0	0	0
Nidadavole	31.4	..	33·9	28	19.7	..	15·3	17	34·0	59·2	..	28·0	13	4	..	8.7	6.8	..	1	4	0	0	0	0	0	0	0	0	0
Rentachintala	34·4	+0·8	38.6	28	21·3	+0.7	16.6	19	10.0	11.4	−2.1	5.8	7	2	+0·7	7·4	6.9	−1·0	0	2	0	0	1	0	0	0	0	0	0
Gannavaram	32·4	−0·5	35.5	28	20·9	+0.9	17 5	19	1.2	15.0	+11·9	13.8	15	1	+0·5	15·1	10·5	+1·2	0	2	0	0	0	0	0	0	0	0	0
Nagarjunakonda	34·1	..	38·1	28	21·8	..	17·6	9,19	38·7	38·7	..	25.3	8	2	..	12·6	13·6	..	0	2	0	0	0	0	0	0	1	0	0
Masulipatam	30·1	0	32·0	28	21·4	+1·1	18·7	18	5·0	5·0	−8.5	5·0	9	1	+0.4	7·4	5·2	−0·9	0	1	0	0	0	0	0	0	0	0	0
Ongole	31.3	..	34.2	5	22·6	..	18·9	20	0	21·0	..	20·0	15	1	..	12·1	8·6	..	0	2	0	0	0	0	0	0	0	0	0
Nellore	31.8	−0.1	35·8	5	21.9	+0.9	19.3	19	13·4	13.4	+7.3	13.4	16	1	+0.5	11.1	8·1	+2.8	0	1	0	0	0	0	0	0	0	0	0

(n) Mean of 12 days (o) Mean of 16 days

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telengana—(*Contd.*)																														
Ramgundam	33·0	−0·9	37·8	26	18·0	−0·8	12·0	17	0	16·6	+14·4	14·0	7	2	+1·7	8·7	6·2	+0·5	0	2	0	0	1	0	0	0	0	0	0
Nizamabad	32·4	−0·3	1	25	15·9	−0·8	10·5	9	0	0	−17·0	0	..	0	−1·2	8·7	6·4	+2·4	0	0	0	0	0	0	0	0	0	0	0
Hanamkonda	32·8	+0·9	36·7	26	19·0	+0·2	13·3	16	2·2	3·2	−11·5	1·8	8	0	−1·1	9.8	8·0	+0.1	0	3	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome)	30·6	..	34·8	28	17·7	..	13·5	9	0	0	..	0	..	0	..	..	4·3	..	0	0	0	0	0	2	0	0	0	0	0
Bhadrachalam	33 1	−0·9	37· 6	28	19·6	+0.6	13.0	17	0	0	−1·3	9	..	0	−0·2	7·8	7·1	+0·6	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	31·6	+0·9	36·0	28	16·2	−0·6	12.5	16	0	0·2	−8·9	0·2	7	0	−0.9	10·7	7·8	−0·4	1	0	0	0	0	0	0	0	0	0	0
Khammam	33.3	..	37·6	28	20·6	..	15.3	17	0	16·8	..	16·8	8	1	..	6·6	5·1	..	0	1	0	0	0	0	0	0	0	0	0
Mahbubnagar	32·7	..	37·0	28	18·1	..	15·3	21	0	5·6	..	5·6	11	1	..	9·4	7·7	..	0	1	0	0	0	0	0	0	0	0	0
Rayalaseema																														
Kurnool	34·4	+0·2	37·9	28	20.1	+1·2	15·5	19,20	0	0	−7·1	0	..	0	−0·5	6·5	5·7	+0·1	0	0	0	0	0	0	0	0	0	0	0
Anantapur	33·4	0	36·0	28	20·4	+1·7	17·1	21	0	6·6	+1·4	4·3	10	1	+0·7	9·3	9.0	−0·1	0	2	0	0	1	0	0	0	0	0	0
Cuddapah	33·8	−0·8	37·2	28	21·8	+0·9	17·1	19	0	0	−3·1	0	..	0	−0·2	8·5	7·0	−5·9	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	29·8	..	32·2	28	18·1	..	14.4	18	0	16·2	..	16·2	8	1	..	7·6	6.7	..	0	1	0	0	1	0	0	0	0	0	0
Madras State																														
Madras	30·0	..	31·3	28	21·4	..	19·0	21	..	13·2	..	13·2	16	1	..	..	6·0	..	0	1	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	30·9	−0·4	32·6	28	21·9	+1.7	19·4	21	3·6	26·2	+15·6	26.0	16	1	+0·3	13·5	9·1	−1·4	0	1	0	0	0	0	0	0	0	0	0
Vellore	32·2	+0·6	35·5	4	20·1	+1·1	15·3	22	0	5.4	−0·9	5·4	16	1	+0·4	7·7	7·6	+3·3	0	1	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome).	31.7	..	33·5	5	21·5	..	19·2	19	6·9	42·2	..	42·2	16	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Tiruppattur	32·5	..	34·9	5	18·6	..	12·5	23	0	14·8	..	14·8	15	1	..	5·3	4 5	..	0	1	0	0	7	0	0	0	0	0	0
Cuddalore	29 3	−0·2	30·1	6,7	..	..	..	..	0	23·0	+0·1	20·2	16	2	+0.8	12·1	8·6	+2·6	0	2	0	0	0	0	0	0	0	0	0
Kallakkurichchi	32·3	..	34.5	28	21.2	..	17.4	25	0	4.0	..	4·0	16	1	..	8·2	6.1	..	0	1	0	0	0	0	0	0	0	0	0
Salem	33·8	−0·1	35·9	5	21·1	+1·7	17·3	18	18·0	18·0	+9·6	18·0	6	1	+0·4	9·5	10·7	+3·5	0	1	0	0	1	0	0	0	0	0	0
Coimbatore (Pilamedu)	32·0	..	34.1	5	19.2	..	15.4	22	0	16·8	..	15·2	15	1	..	11·1	9·0	..	0	2	0	0	0	2	0	0	0	0	0
Coimbatore	32·7	0	34·4	23	20·6	+1·4	18·1	21,25	0	8 6	−0·5	4·8	15	2	+1·5	7·5	5·6	+1.4	0	2	0	0	0	0	0	0	0	0	0
Nagapattinam	29.4	+0·1	31·1	5	23 1	+0·2	20·9	20	0 2	1.0	−20·1	0 8	16	0	−1·0	15·4	15·9	+5·1	1	1	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	32·7	−0 4	34·3	5,14	21·7	+1.0	18·1	25	0	0	−12·5	0	..	0	−0 6	10.2	9.4	+3.3	0	0	0	0	0	0	0	0	0	0	0
Vedaranniyam	29·8	..	31·8	7	20·6	..	..	..	0	0	..	0	..	0	..	10·1	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Atirampattinam	30·8	..	32·5	25	21·9	..	19·8	25	2·2	2 2	..	2·2	15	0	..	12·8	9·0	..	0	1	0	0	0	0	0	0	0	0	0
Madurai	32·7	+0·3	34·8	14	22·5	+1·7	18·6	25	0	26·0	+12·5	26 0	14	1	+0·3	7·3	5 5	−0·6	0	1	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome).	32·2	..	34·7	23	21·4	..	16·9	25	0	0	..	0	..	0	..	10·8	8·0	..	0	0	0	0	1	0	0	0	0	0	0
Tondi	29·6	..	32·5	21	23·4	..	21·1	24,25	0	0	..	0	..	0	..	(d) 15·1	(d) 13·9	..	0	0	0	0	0	0	0	0	0	0	0
Pamban	29·9	+0·6	31·9	7	23·9	0	20·5	28	0	0 3	−21·5	0·3	16	0	−1·4	13·8	12·1	+1·3	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	28·7	+0·5	30·0	23	23·1	+0·1	20·7	25,26	0	0	−20·4	0	..	0	−0·7	17·8	15.4	−4·0	0	0	0	0	0	0	0	0	0	0	0
Palayankotti	32·6	−0·1	34·3	28	22·6	−0·1	19·2	26	1·8	6.1	−21·6	3·2	14	1	−0·7	6·5	4.8	−3·5	1	3	0	0	0	0	0	0	0	0	0
Kanniyakumari	30·8	..	33·4	24,25	23·3	..	22·1	26	1·2	31·9	..	27·0	17	1	..	15·6	11·8	..	1	5	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	30·5	−0·3	35·4	16	19·3	−0·4	14·0	14	0	0	−0.7	0	..	0	−0·1	14.9	9·0	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	30·7	−0.7	33·8	19	19·4	−1·0	15·2	14	0	0	−0·3	0	..	0	0	10·7	9·0	+3·9	0	0	0	0	0	0	0	0	1	0	0
Mangalore (Bajpe)	31·3	..	34·2	21	21·5	..	18·4	14	0	0	..	0	..	0	..	11·0	7.1	..	0	0	0	0	0	0	0	0	0	0	0
Mangalore	30·4	−0 8	32·	21	22·4	−0·1	19·4	14	6·0	0	−1·8	0	..	0	−0·1	13.0	10.2	+2.0	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																														
Bidar	31·7	+0.5	36·	28	18.2	−0·4	14·8	15	0	0	−9·1	0	..	0	−0·7	13·7	10·3	+0.3	0	0	0	0	0	0	0	0	0	0	0
Gulbarga	33·3	−0·2	37·2	28	17·3	−0·6	13·6	17	0	0	−6·9	0	..	0	−0·5	10·8	10·1	+1·4	0	0	0	0	0	0	0	0	0	0	0
Bijapur	32·8	0	37.3	28	17·1	−0.6	13·2	8,9	0	0	−2·3	0	..	0	−0·2	6.7	4·7	−0.8	0	0	0	0	0	0	0	0	0	0	0
Raichur	33·7	+0·3	36·7	28	20.1	−0·1	15·8	14	0	0	−7.1	0	..	0	−0 6	9·8	9.9	+1·4	0	0	0	0	0	0	0	0	0	0	0
Belgaum	32·1	−0·3	36·3	28	13 9	−1·3	9·3	13	0	0	−1.3	0	..	0	−0·1	9·0	6.1	+0.1	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	31·5	..	35·4	28	14·5	..	10·3	13,14	0	0	..	0	..	0	..		..	..	0	0	0	0	0	3	0	0	0	0	0
Gadag	33·5	−0·9	37·7	28	17·9	−0·4	13·3	13	0	0	−4.1	0	..	0	−0·4	7·5	7·1	+0.2	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	33·3	−1·0	36·8	28	20·4	+1·5	18·3	19	0	0	−4·6	0	..	0	−0·3	7·7	6·2	+1·5	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	32·0	0	34·3	28	19·4	+0·4	16·0	17	0	0	−2·8	0	..	0	−0·2	8·0	6·1	0	0	0	0	0	0	0	0	0	0	0	0
Shimoga	32·7	−0·2	35·0	28	14·8	−1·3	11·0	19	0	0	−0·2	0	..	0	0	5·7	3·9	−0.4	0	0	0	0	0	2	0	0	0	0	0
Balehonnur	29·6	−0·5	33·1	23	15·4	−0·2	12·2	14,15	0	0	−1·5	0	..	0	−0·2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hassan	30·7	+0·1	32·9	6	..	..		..	0	0	−6·1	0	..	0	−0·4	7·0	5·7	+1·0	0	0	0	0	0	3	0	0	0	0	0
Bangalore	30·2	+0·4	33·2	5	17·7	+2·1	11·6	22	0	2·8	−3·8	2·1	10	0	−0·4	9 0	8 4	+0·8	0	2	0	0	0	0	0	0	0	0	0

(d) Mean of 27 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days, (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South—(*Contd.*)																														
Bangalore Aerodrome.	30·4	..	33·0	28	17·5	..	13·9	22	0	8·3	..	7·6	10	1	..	..	..	..	0	2	0	0	0	1	0	0	0	0	0
Mysore	31·2	−0·4	32·8	6,10	18·9	+1·0	16·0	23	0	16.8	+10·7	16·0	10	1	+0·5	9·3	8·9	+1·3	0	2	0	0	0	2	0	0	0	0	0
Kerala																														
Calicut	31·3	−0·1	32·5	2	23·3	+0 5	20·9	14	4·8	4·8	0	4·8	17	1	+0·7	15·5	12·7	+2·9	0	1	0	0	0	0	0	0	0	0	0
Palghat	35·2	..	37·9	27	22·4	..	19·6	25	0	0.2	..	0·2	17	0	..	9·4	7·0	..	1	0	0	0	1	0	0	0	0	0	0
Fort Cochin	30·3	−0·3	32.4	25	24·9	+0·7	23·8	26	0	15·9	−4·4	14·1	17	1	−0·2	17·6	12·4	+4·7	0	2	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station)	31·3	..	32·5	3	23·7	..	22.3	24	0	10·1	..	6·0	17	2	..	13·6	9·6	..	0	3	0	0	2	0	0	0	0	0	0
Alleppey	31·1	−0·8	32·4	1	23·7	0	21·7	10	1·2	115·8	+72·1	49.7	7	5	+2.5	16·7	12·0	+1.7	0	5	0	0	3	0	0	0	0	0	0
Punalur	34·4	..	36·2	5	21·6	..	16·9	26	0	62·4	..	32·6	15	4	..	6·2	3·9	..	0	4	0	0	0	0		0	0	0	0
Trivandrum	31·2	−0·5	33·3	14	22·7	−0·2	20·6	27	28·8	65·1	+45·8	29.4	16	4	+2·7	9·3	6·4	+0·9	1	4	0	0	3	0	0	0	0	0	0
Trivandrum Aerodrome.	31·1	..	32·6	14	22·5	..	20·0	27	..	45·1	..	23·4	21	3	..	..	6·4	..	0	4	0	0	1	0	0	0	0	0	0
Arabian Sea Islands																														
Amini *																														
Minicoy*																														
Hill Stations (excluding Kashmir)—																														
Dalhousie																														
Dharmashala	13·2	−3·9	21·2	28	5·6	−3·2	−1·6	8	41·8	204·6	+112·3	52·2	2	9	+4·3	6·4	5·9	+1·3	0	12	2	0	2	0	0	0	0	0	0
Simla	6·4	−2·9	16·7	27	0·1	−2·2	−7·2	8	44·2	172.9	+98·7	56.7	7	10	+4·3	5·1	4·7	+2·0	0	11	8	0	1	0	0	0	0	0	0
Dharampur	..	..	..	..	..	..	..	..	..	240·2	+156·6	111·0	2	7	+1·5	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Lokpal	−5·8	..	3·7	28	−11·1	..	−13·1	9	..	228·8	..	50.0	1	12	..	..	..	..	0	12	11	1	0	0	0	0	0	0	0
Badrinath	(Closed during Winter Months)																													
Joshimath	10·0	..	20·4	27	1.2	..	−3·9	9	38·0	126·6	..	54·0	2	7	..	5·6	5·9	..	0	11	7	0	0	0	0	0	0	0	0
Mussoorie	8·9	−1·4	21·7	27	1·0	−2·2	−5·7	8	43·9	94.9	+8·3	26·6	2	9	+3·8	9·1	10·5	+3·3	0	10	9	1	5	2	0	0	0	0	0
Mukteswar (Kumaon)	8·7	−1·6	19·6	27	0·9	−1·2	−5·6	8	51·0	122·0	+57·7	33·0	2	9	+4·3	15·5	15·1	+5·8	0	10	7	0	3	5	0	25	0	0	0
Nainital	9·7	−3·4	17·8	28	2·1	−2·0	−3·9	8,9	64·5	208·5	+164·5	72·0	26	7	+4·6	10·1	9·1	+1·2	0	11	7	0	0	4	0	9	0	0	0
Walong(R)																														
Kalimpong	18·5	+2·2	26·2	16	9·8	+10·7	4·2	22	25·4	38.1	+9·4	25·4	9	2	−1·0	5·3	3·8	−7·3	0	2	0	0	0	3	0	0	0	0	0
Darjeeling	9·0	−1·1	12·8	19	3·0	−0·8	0	9	21·2	26·2	−4·0	10·4	8	4	+1·4	0·6	0·5	−2·9	0	5	0	0	2	17	0	0	0	0	0
Kohima	16·0	..	17·8	5	10·4	..	6·0	14	3·4	25·3	..	12·6	3,8	2	..	..	..	..	1	2	0	0	0	0	0	0	0	0	0
Shillong	15·6	−1·3	19·1	27	4·4	−1·4	2·2	10	6.6	6·1	−20·8	10·2	3	2	−0·8	3·9	3·4	−0·3	1	3	0	0	0	0	0	0	0	0	0
Cherrapunji (R)																														
Abu	19·9	−0·1	28·4	27	9·6	−2·1	2·2	9	0	0	−5·8	0	..	0	−0·6	10·2	7·6	+0·5	0	0	0	0	0	1	0	0	0	0	0
Aijal	20·5	..	23 9	3	11·7	..	7·2	10,16	8·4	24·8	..	9·0	9	3	..	9·6	8·9	..	1	6	0	0	0	0	0	0	0	0	0
Pachmarhi	23·3	−0·8	29·1	25	8·0	−2·4	−0·1	9	5·2	8·2	−8·8	5·2	6	2	+0·5	7·1	4·9	−0·1	0	2	0	0	1	0	0	0	0	0	0
Mahabaleshwar	25·6	+0·4	31·4	28	13·5	−1·1	7.7	13	0	0	−2.5	0	..	0	−0·1	8·9	9·3	0	0	0	0	0	0	2	0	0	0	0	0
Mercara	27·7	+0·7	29·6	6	15·5	+0·5	12·6	14	0	0·8	−5·3	0·8	17	0	−0·5	9·3	8·5	+3·2	0	1	0	0	0	0	0	0	0	0	0
Ootacamund	20·0	+0·3	22·6	7	7·9	+1·3	5·1	22	1·8	9.4	−3·5	5·4	15	1	−0·1	3.3	2·	−2·5	0	3	0	0	0	0	0	4	0	0	0
Coonoor	21·5	+0·5	23·6	5	10·6	+1·1	6·3	23	..	76.4	+3·8	37·4	15	4	+1·3	..	6·8	+1·5	0	4	0	0	0	0	0	0	0	0	0
Kodaikanal	17·9	+0·1	20·4	24	9·1	+0·5	7·3	15	3·8	7·2	−31·7	3·8	15	1	−1·4	12·2	12·5	−0·1	0	4	0	0	0	1	0	0	0	0	0
Nepal																														
Katmandu	18·0	..	22·6	24,26	4·4	..	−0·2	14	16.9	67·9	..	30·7	2	3	..	3·3	1·9	..	0	4	0	0	1	5	0	2	0	0	0
Sikkim																														
Lachen	5·4	..	10·0	12	3·0	..	8·3	15	..	(n) 8·2	..	..	..	..	..	..	..	..	..	..	11	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																														
Damodar Catchment																														
Tilaiya	22·6	..	(g) 28·4	28	13·1	..	8·1	9	45·8	89·3	..	27·0	8	6	..	(g) 13·4	(g) 9·3	..	1	6	0	0	2	0	0	0	0	0	0
Hazaribagh	21.6	..	26·8	25	10·5	..	4.1	10	17·0	90·3	..	26·6	6	6	..	14.3	8·9	..	0	7	0	0	4	0	0	1	0	0	0
Konar	..	..	..	..	..	..	..	..	19·2	94·0	..	38·6	8	6	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Bokaro	25 0	..	31·7	21	10·3	..	4·8	10	13·2	87·8	..	47·0	8	5	..	..	..	..	0	6	0	0	5	0	0	0	0	0	0
Maithon	21·9	..	28·8	28	11·9	..	8·3	16	..	104·1	..	64·3	8	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ramgarh	25.3	..	30.4	3	11.0	..	5.8	28	37.5	94.0	..	54.0	8	5	..	5.8	2.6	..	0	5	0	1	0	0	0	0	0	0	0
Panchet Hills	25.3	..	31.1	25	14.0	..	10.1	9,10	19.6	103.0	..	53.4	8	5	..	11.5	8·0	..	0	6	0	4	5	0	0	0	0	0	0
Durgapur	..	..	..	..	13.6	..	10.6	15,16	12·1	81.1	..	37.5	6	4	..	(i) 12·9	(h) 9·3	..	0	6	0	0	2	0	0	0	0	0	0
Mahanadi Catchment																														
Ginabahar	26.1	..	31.6	25	10.1	..	4.4	10	..	27.4	..	20.0	7	2	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Hirakud	27·2	..	31·9	29	15.9	..	10·9	10	32·1	122·2	..	39·8	12	7	..	6.7	4·7	..	1	8	0	1	5	0	0	0	0	1	0
Bhimkund	25.8	..	31·7	18	13.1	..	8·7	17	41·0	143·3	..	40·0	13	7	..	2.6	1.4	..	0	9	0	0	0	0	0	0	0	0	0
Sonepur	27·7	..	32·7	28	..	..	..	..	..	111·6	..	38·4	7	6	..	..	4·2	..	0	8	..	..	..	..	.	..	..	..	..
Khijrawan	27·8	..	33·1	28	13·3	..	7·4	10	1·5	31·1	..	13·2	7	3	..	..	4·1	..	0	4	0	0	0	0	0	0	0	0	0

(R) Register not received.
(i) Mean of 22 days. (h) Mean of 23 days. (2) Mean of 24 days. *Data given as addenda in December 1961 issue. (n) Mean of 17 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour.			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Heighest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydromeleordlogical observatories- *(Contd.)* **Narmada Catchment**																														
Bagra Tawa	28·8	..	35·1	25	10·8	..	4·4	9	0·7	0·7	..	0·7	6	0	..	7·3	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Punasa	30·7	..	36·1	21,28	11·9	..	5·9	8,9	0	0·4	..	0·4	5	0	..	4·6	2·3	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	30·7	..	36·2	28	11·4	..	4·8	8	..	2·3	..	1·8	5	0	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																														
Jhadol (R)																														
Daroi	28·7	..	34·8	28	12·2	..	4·4	8	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																														
Mukhim	10·3	..	20·0	27	2·2	..	−3·9	8	65·8	186·3	..	85·4	6	10	..	..	..	..	1	11	6	0	4	0	0	0	0	0	0
Tehri	18·9	..	29·1	28	5·5	..	1·3	9	49.1	152·0	..	38·9	6	6	..	3·9	2·3	..	0	11	1	0	0	2	0	0	0	0	0
Gandak Catchment																														
Jomosom	9·5	..	18·7	27	2·4	..	−8.9	7	48·3	91.5	..	71·1	8	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	9·2	55·0	..	31·8	2	5	..	..	..	..	0	7	..	..	..	..	..	..	..		..
Timure	15·0	..	19·9	25	4·2	..	−0·2	15	10·6	75·7	..	38·1	8	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Pokhara	20·1	..	24·1	26	8.7	..	4.6	10	17·3	67·0	..	29·5	2	5	..	5·3	4.2	..	0	5	0	0	0	0	0	0	0	0	0
Gorkha (R)																														
Nuwakot	20·8	..	5	26	8·7	..	5·4	15	10·6	25·0	..	19·6	2	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Chaghara Catchment (Trans Himalayan Region)																														
Dailekh (R)																														
Ghaghara Catchment																														
Mansiari (R)																														
Dadeldhura	10·5	..	19·8	27	(d) 3·4	..	−3·4	7	54·9	127·9	..	63·0	2	7	..	..	..	..	1	10	4	0	1	5	0	0	0	0	0
Sailayani†																														
Butwal	24 0	..	27·8	25	(d) 12·0	..	6·1	15	0	38·5	..	33·5	1	2	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Baghmati Catchment																														
Katmandu*																														
Kosi Catchment																														
Chautara	17·4	..	23.6	25	6·8	..	1.6	9	22·0	70·7	..	28·4	8	3	..	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	11·6	65·8	..	31·0	8	5	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	5·1	..	9·2	21	−4·8	..	−9·6	27	5·1	18·0	..	..	8	4	..	..	..	..	3	9	..	..	..	..	..	..	..	..	..
Taplethok	18·6	..	24·7	26	7·7	..	3·7	13	1·6	17·6	..	9·6	3	2	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Bhojpur	14·0	..	18·2	28	..	..	..		7·8	29·4	..	11·4	2	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Taplejung	14·1	..	17·5	23	(c) 5·0	..	1·3	10	7·9	27·3	:	10·9	2	3	..	..	..	..	0	5	0	0	0	1	0	0	0	0	0
Okhaldhunga	14·2	..	19·1	27	4·5	..	0.5	15	12·9	36·3	..	14·2	8	3	..	4·4	3.4	..	0	3	0	0	3	3	0	6	0	0	0
Chainpur	18·3	..	22·5	24	8·7	..	5·2	8	3·0	5·0	..	3·6	2	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Angbung	(g) 18·5	..	22·2	25	(l) 9·7	..	4·9	10	6·0	31·0	..	10.0	2,8	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Barahakshetra	23·3	..	26·7	4days	11·1	..	6·6	15	3·6	55·9	..	39·4	8	3	..	9·6	6·0	..	0	3	0	0	2	0	0	0	0	0	0
Tista Catchment																														
Gangtok	12·1	..	16·9	1	4·6	..	0·8	10	23·8	99·7	..	20·3	23	11	..	1·9	1·4	..	0	14	0	0	2	16	0	3	0	0	0
Gezing	15·7	..	20.6	1	6·4	..	2·1	10	9·7	44.9	..	10·1	8	8	..	..	..	..	0	13	..	..	..	..	..	..	..	..	..

(R) Register not received. (c) Mean of 26 days. (d) Mean of 27 days. (g) Mean of 24 days. (l) Mean of 19 days.

*Data included under 'Nepal'.

†Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1011·9	1008·8	..	26.5	23·4	21·9	26·3	77	..	3·5	..	3.3	0	0	20	1	19	0	0	0	0	0	0	8	9
	1730	,,	1008·8	1005·7	..	27·0	23·7	22·2	26·7	76	..	3·7	..	6·2	0	0	23	0	21	1	0	0	0	0	1	5	0
Long Island	0830		1011·5	1008·7	..	26·4	23·9	22·6	27·4	81	..	4·7	..	0.5	0	0	3	0	0	0	1	0	1	0	1	25	0
	1730	,,	1008.4	1005·6	..	27·1	23·9	22·2	26·7	75	..	5·8	..	0.9	0	0	4	1	1	0	0	0	0	0	0	24	2
Port Blair	0530	79	1009·8	1000·8	..	23·3	22·6	22·2	26·7	94	..	4·5	..	2.7	0	0	10	3	3	3	1	0	0	0	0	18	0
	0830	,,	1012·0	1003·1	−1.4	27·4	24·5	23·6	29·1	78	+7	4·9	+2·0	6.4	0	0	22	4	9	7	0	0	2	0	0	6	0
	1130	,,	1010·6	1001·8	..	29·1	25·3	23·7	29·3	73	..	6·0	..	10.8	0	1	25	0	16	9	0	1	0	0	0	2	0
	1730	,,	1008·7	999·8	..	26·4	24·0	22·9	27·9	81	..	5·5	..	6·1	0	1	21	1	16	4	1	0	0	0	0	6	0
	2330	,,	1010·5	1001·6	..	24·4	23·3	22·9	27·9	91	..	4·5	..	4.7	0	0	16	2	9	4	0	0	0	0	1	12	0
Car Nikobar	0830	10	1011·1	1009·9	..	28·3	24·9	23·5	28·9	75	..	5·3	..	5.1	0	0	27	0	20	2	3	0	1	0	1	1	0
	1730	,,	1008.3	1007 0	..	27·0	24·5	23·5	28·9	80	..	4·6	..	3.1	0	0	19	0	14	2	3	0	0	0	0	9	0
Nancowry	0830	26	1010·9	1008.0	..	28·5	26·0	24·8	31·3	81	..	5.3	..	0.3	0	0	2	0	0	0	0	1	1	0	0	26	0
	1730	,,	1007·9	1005·0	..	27·5	25·3	24·3	30·4	83	..	4·6	..	0·6	0	0	2	0	0	0	0	0	2	0	0	26	0
Kondul	0830	8	1010·6	1009·6	..	27·7	25·2	24.1	30·0	81	..	4·9	..	4.7	0	0	19	0	12	6	1	0	0	0	0	9	0
	1730	,,	1007·6	1006·7	..	27·1	25 0	24·0	29.8	83	..	4·6	..	5.3	0	0	20	0	11	6	3	0	0	0	0	8	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1014·4	995·6	..	16·3	13.6	11.3	13·4	73	..	5·4	..	14.9	0	7	20	0	0	1	0	0	2	0	24	1	0
	1730	,,	1010·9	992·6	..	17·1	15.0	13.3	15·3	79	..	5·7	..	6.7	0	2	19	1	0	0	1	1	0	0	18	7	0
Dibrugarh (Mohanbari)	0230	111	1012·0	998.9	..	13·1	12·5	11·9	13·9	93	..	5·7	..	0·5	0	0	4	0	2	1	0	0	1	0	0	24	0
	0530	,,	1012·8	999·6	..	12·5	12·0	11·5	13·6	94	..	6·0	..	0·7	0	0	3	0	0	2	0	1	0	0	0	25	0
	0830	,,	1014·8	1001·6	−1·8	16·6	14·6	12·8	14·8	80	−5	5·6	+1·2	3.4	0	0	17	1	6	9	1	0	0	0	0	11	0
	1130	,,	1013·1	1000·3	..	20·4	15·5	11·4	13·5	54	..	6·1	..	5·4	0	0	21	4	7	7	2	1	0	0	0	7	0
	1730	,,	1010·7	997·8	..	17.8	15·1	12·8	14·8	73	..	5·9	..	1.2	0	0	7	0	5	1	1	0	0	0	0	21	0
	2330	,,	1012·4	999·3	..	14·2	13·3	12·4	14·4	89	..	6·0	..	1.9	0	0	8	2	4	1	0	0	1	0	0	20	0
Dibrugarh	0830	106	1014·1	1001·7	−1·7	16·9	14·7	13·1	15·1	77	−8	5·6	+1·4	2·4	0	0	22	1	2	14	0	1	0	2	2	6	0
	1730	,,	1010·3	998·0	..	18·4	15·7	13·8	15·8	72	..	5·6	..	0·9	0	0	8	0	3	4	0	1	0	0	0	20	0
Digboi	0830	152	..	..	..	16.8	15·0	13·6	15·6	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	17·6	15·7	14·3	16·3	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	0830	102	1014·6	1002·6	−0·6	16·3	14·6	12·9	14·9	81	+2	5·3	+1·1	3·0	0	1	16	3	8	1	0	2	0	1	2	11	0
	1130	,,	1013·3	1001.5	..	20·9	15·7	11·4	13·6	56	..	5·0	..	6.2	0	1	26	4	11	4	1	2	4	0	1	1	0
	1730	,,	1011·1	999·2	..	17·6	15.0	13·0	15·0	75	..	5·3	..	3·7	0	1	17	5	9	1	1	1	1	0	0	10	0
Sibsagar	0830	97	1015·3	1004·0	−0·8	17·3	5·3	13·7	15·7	80	−8	7·0	+1·2	2·6	0	0	15	0	4	2	4	1	3	0	1	13	0
	1730	,,	1011·0	999·8	..	19·7	16·2	13·6	15 6	69	..	6·2	..	2·8	0	0	15	3	9	0	1	2	0	0	1	13	0
Gohpur (R)	0830	..																									
(R)	1730	..																									
Majbat	0830	77	..	..	..	..	..	..	..	..	..	4·5	.	2·1	0	0	15	0	7	4	2	0	1	1	0	13	0
	1730	,,	..	..	..	..	..	..	..	..	..	3·4	..	0·2	0	0	2	1	0	0	0	0	1	0	0	26	0
Jorhat Aerodrome	0530	90	1012.0	1001·4	..	12.4	12.2	11.9	13·9	97	..	4.8	..	2.1	0	0	11	2	4	0	0	1	3	0	1	17	0
	0830	,,	1013·6	1003·4	..	16·6	14·5	12·8	14·8	79	..	5·0	..	6·3	0	0	21	2	6	1	0	1	8	0	3	7	0
	1130	,,	1012·6	1002·2	..	21·3	15·9	11.5	14.1	55	..	5·0	..	9.5	0	0	27	4	11	3	0	0	2	4	3	1	0
	1730	,,	1010·0	999·4	..	19·2	15·4	12·4	14·4	66	..	5·6	..	8·1	0	0	23	7	13	0	0	0	1	0	2	5	0
	2330	,,	1011·8	1001·2	..	14·4	13.5	12·8	14·8	90	..	4·8	..	4·5	0	0	13	2	8	1	1	0	0	1	0	15	0
Tangla	0830	78	1013·9	1004·8	..	17·0	13·6	10·8	13·0	68	..	4·1	..	1.1	0	0	6	0	0	5	0	0	0	1	0	22	0
	1730	,,	1009·7	1000·6	..	19.1	15·7	13.2	15·2	70	..	2·8	..	0·7	0	0	1	0	0	0	0	0	0	1	0	27	0
Tezpur	0830	79	1015·9	1006·6	−0·8	16.7	15·1	13·9	15·9	82	+1	4·5	+1·5	2·5	0	0	15	1	8	2	0	2	1	1	0	13	0
	1730	,,	1010·3	1001·1	..	21.3	17·3	14·3	16·3	65	.	3·7	..	1.9	0	0	13	0	10	0	1	0	2	0	0	15	0
Golaghat	0830	..	..	..	..	73·3	14·9	12·9	15·2	76	..	5·4 (m)	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·8	18·2	16·5	18·8	78	..	3·9	..	..		..	..	..	..	..	..	..	..	..	..	..	..
Rangia (R)	0830	..																									
(R)	1730	..																									
Chaparmukh *	0830	66	1015·0	1007·3	..	16·3	13.7	11·6	13·6	73	..	3·6	..	4·5	0	0	23	1	1	6	8	6	0	0	1	0	0
	1730	,,	1009·5	1002·0	..	22.8	16·6	11·5	13·8	51	..	3·7	..	6.0	0	0	23	6	7	1	4	0	2	1	2	0	0
Goalpara	0830	38	1014·5	1010·0	..	15.6	13·3	11.0	13·1	76	..	3·3	..	3·1	0	0	22	4	9	2	1	0	5	1	0	6	0
	1730	,,	1010·2	1005·9	..	23·5	16.9	11·6	13·7	50	..	2·4	..	2.8	0	0	18	2	3	0	1	1	2	2	7	10	0
Gauhati	0830	55	1014·3	1007·8	−1·3	16·9	14·4	12·2	14·4	75	−4	2·5	−0·2	0·0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	,,	1009·6	1003·2	..	21·9	16·2	·7	13·9	53	..	2·7	..	0·2	0	0	2	0	1	0	0	0	1	0	0	26	0

(m) Mean of 18 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km per hour	Wind speed (Km.p.h): 62 or more	Wind speed (Km.p.h): 20 to 61	Wind speed (Km.p.h): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)— *(Contd.)*																											
Gauhati (Bhorjor)	0230	54	1011·4	1005·0	..	13·4	12·5	11·6	13·7	89	..	2·9	..	3.1	0	0	14	2	2	0	0	1	7	2	0	14	0
	0530	..	1011·8	1005·3	..	12·4	11·6	11·0	13·0	91	..	3·2	..	3.2	0	0	11	1	4	1	0	2	2	1	0	17	0
	0830	,,	1013·9	1007·5	..	17·0	14·4	12·3	14·3	74	..	3·7	..	3·0	0	0	10	3	2	2	0	1	0	2	0	18	0
	1130	,,	1012·4	1006·2	..	21·8	16·0	11·2	13·5	53	..	3·5	..	4·7	0	1	25	7	7	3	1	0	2	1	5	2	0
	1730	,,	1009·5	1003·2	..	20.9	15·8	11·7	13·8	57	..	3·8	..	3·1	0	1	10	1	5	1	0	0	0	3	1	17	0
	2330	,,	1012·0	1005·6	..	14·5	13·1	11·9	13·9	85	..	2·8	..	3·8	0	0	16	1	3	0	0	3	6	1	2	12	0
Dhubri (Rupsi)	0530	36	1011·0	1006·7	..	11·8	10·9	10·1	12·3	90	..	3·0	..	1·3	0	0	9	0	3	4	0	0	1	1	0	19	0
	0830	,,	1013·1	1008·9	..	16·9	13·9	11·3	13·4	70	..	2.6	..	6.4	0	1	22	0	2	9	5	1	4	1	1	5	0
	1130	,,	1012·2	1008·0	..	22·4	15·6	9·8	12·1	47	..	2·6	..	8·0	0	1	23	0	0	8	8	0	3	3	0	4	2
	1730	,,	1009·1	1004·9	..	18·9	15·5	12·9	14·9	69	..	2·0	..	0·6	0	0	3	0	1	2	0	0	0	0	0	25	0
Dhubri	0830	35	1014·6	1010·5	−1.0	17·8	14·9	12·4	14·4	71	+4	2·0	0·0	2·3	0	0	10	0	5	2	0	0	3	0	0	18	0
	1730	,,	1010·4	1006·3	..	21·6	16·5	13·3	15·3	64	..	1·5	..	0·8	0	0	4	1	2	0	0	1	0	0	0	24	0
Lumding	0830	149	1014·2	996·7	..	15·8	13·5	11·5	13·6	77	−10	3·2	..	1·5	0	0	8	0	1	5	2	0	0	0	0	20	0
	1730	,,	1009·3	992·2	..	21·4	15·6	10·6	12·8	51	..	3·7	..	1·9	0	0	10	0	0	2	0	3	3	2	0	18	0
Umroi	0830	899	..	..	..	13·5	10·3	7·0	10·0	67	..	2·6	..	4·0	0	1	21	2	6	9	2	2	0	0	1	6	0
	1130	,,	..	..	..	18·3	11·5	4·3	8·3	43	..	4·1	..	9·2	0	2	26	3	7	5	0	2	2	3	6	0	0
	1730	,,	..	..	..	14·9	11·9	7.2	10.1	62	..	5·2	..	7.3	0	1	20	3	4	1	1	0	0	2	10	7	0
Tura	0830	370	1014·3	971.8	..	16·1	12.4	8.8	11·3	63	..	3·9	..	3.4	0	0	25	0	1	9	3	9	2	0	1	3	0
	1730	,,	1012·5	969·0	..	20·9	14·9	9·3	11·7	49	..	3·8	..	4·0	0	0	28	1	1	4	1	5	7	9	0	0	0
Haflong	0830	682	1013·7	936·4	..	15·6	12·1	9·2	11·1	67	..	3·6	..	5·0	0	0	28	6	6	0	0	1	15	0	0	0	0
	1730	,,	1008·9	932·3	..	17·7	12·7	8·0	10·7	55	..	3·3	..	6·8	0	0	28	0	0	0	0	0	19	0	9	0	0
Silchar (Kumbhigram)	0530	97	1010·9	999·5	..	13·5	12·2	11·1	13·2	86	..	3·6	.	8·2	0	0	26	2	1	21	2	0	0	0	0	2	0
	0830	,,	1012·9	1001·5	..	17·3	14·5	12·3	14·3	74	..	3·8	..	7·	0	0	26	0	0	21	3	0	1	0	1	2	0
	1130	,,	1011·4	1000·3	..	22·3	16·0	10·8	12·9	50	..	3·2	..	7·9	0	0	27	0	1	8	6	2	8	2	0	1	0
	1730	,,	1008·6	997·5	..	21·7	16·0	11·3	13·4	54	..	3·0	..	3·6	0	0	20	0	0	4	0	1	5	8	2	8	0
Silchar	0830	29	1014·3	1010·8	−1·8	17·6	14·9	12·7	14·7	74	−3	3·5	+1·2	0·4	0	0	4	0	0	2	2	0	0	0	0	24	0
	1730	,,	1010·2	1006·8	..	21·7	16·6	12·5	14·5	57	..	2·5	..	0·3	0	0	3	0	0	0	1	0	1	0	1	25	0
Imphal (Tulihal)	0530	801	1015·7	923·1	..	7·5	7·1	6·7	9·8	96	..	3·9	..	1·5	0	0	8	2	0	0	0	1	4	1	0	20	0
	0830	,,	1015·9	925·0	−1·2	13·4	10·9	8·7	11·2	74	+4	3·9	+1·4	2·7	0	0	21	2	0	2	5	7	2	3	0	7	0
	1130	,,	1012·4	923·3	..	19·1	13·2	8·0	10·9	51	..	3·7	..	9.3	0	1	23	1	0	2	2	4	13	2	0	4	0
	1730	,,	1010·6	921·2	..	16·8	12·1	7·6	10·7	57	..	3·4	..	9·8	0	3	22	0	0	1	0	1	14	6	3	3	0
	2330	,,	1014·5	922·8	..	10·6	9·4	8·4	10·9	87	..	3·6	6.	3·5	0	0	19	1	0	3	1	4	6	4	0	9	0
Kailashar	0530	29	1012·6	1009·1	..	12·8	12·0	11·2	13·4	91	..	3·5	..	1·1	0	0	9	1	0	0	0	7	0	0	1	19	0
	0830	,,	1014·1	1011·1	..	17 6	14·8	12·4	14·4	73	..	3·7	..	3·2	0	0	17	0	0	0	1	12	1	0	3	11	0
	1130	,,	1013·3	1009.9	..	23·8	16·7	10·8	12·9	48	..	3·4	..	7·2	0	1	23	2	0	1	0	8	3	3	7	4	0
	1730	,,	1010·8	1007·4	..	22·6	16·6	11·8	13·8	53	..	2·8	..	1·6	0	0	8	0	0	0	0	5	0	2	1	20	0
Agartala	0230	16	1010·9	1009·0	..	14·0	13·1	12·2	14·2	89	..	3·1	..	2·7	0	0	13	3	1	2	2	4	0	0	1	15	0
	0530	,,	1011.2	1009·3	..	13·1	12·4	11·9	13·9	91	..	4·0	..	5·5	0	0	23	2	2	3	9	5	0	0	2	5	0
	0830	,,	1013.3	1011·4	−0.7	18·8	15.2	12·2	14·2	67	−4	2·8	+0.6	5·5	0	0	24	6	2	2	3	7	2	0	2	4	0
	1130	,,	1012·2	1010·4	..	24·2	16·2	9·1	11.5	42	..	2·7	..	8·8	0	0	28	3	3	1	2	2	4	4	9	0	0
	1730	,,	1009·6	1007.3	..	22·0	15·8	11·0	13.1	2	..	3·0	..	6·6	0	0	23	3	1	1	0	1	2	11		5	0
	2330	,,	1011·5	1009·6	..	15·4	13·8	12.4	14·4	83	..	2·0	..	4·3	0	0	16	3	2	1	2	6	0	0	2	12	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1011·0	995·7	..	14·1	12·7	11·5	13·6	85	..	3·8	..	3·1	0	0	22	9	3	3	0	0	3	1	3	6	0
	0530	,,	1011·5	996·0	..	12·1	11·4	10·4	12·6	90	..	3·6	..	3.3	0	0	23	10	2	4	1	0	2	2	2	5	0
	0830	,,	1013·4	998.2	−0·7	17·0	14·3	12·0	14·0	73	+2	3·3	+1·5	4·7	0	0	20	0	4	12	1	2	1	0	0	8	0
	1130	,,	1012·6	997·6	..	21·8	15·7	10·6	12·8	51	..	3·4	..	8·1	0	0	28	0	1	15	7	2	3	0	0	0	0
	1730	,,	1009·5	994·4	..	19·9	15·7	12·3	14·3	63	..	4·9	..	5·9	0	2	23	3	3	2	2	2	5	6	2	3	0
	2330	,,	1011·6	996·3	..	15·1	13·2	11·6	13·7	80	..	3.4	..	5·5	0	0	26	12	4	1	1	0	2	2	4	2	0
Jalpaiguri	0830	83	1013·5	1003·8	−1·7	15·2	13·4	11·8	13·8	81	+1	1·7	0	5.9	0	0	23	5	4	5	0	2	2	1	4	5	0
	1730	,,	1009·6	1000·1	..	21·8	15·9	11·1	13·2	53	..	2·5	..	4.7	0	0	24	0	1	6	3	5	7	2	0	4	0
Cooch Behar	0830	43	1013·7	1008·7	..	16.7	14.0	11·7	13·7	74	..	3·0	..	7·4	0	0	22	1	2	13	2	2	1	1	0	6	0
	1130	,,	1012·9	1008·0	..	21·7	16·0	11·9	13.9	54	..	2·9	..	10·3	0	1	26	0	4	12	5	3	0	2	0	1	1
	1730	,,	1010·0	1005·1	..	20·3	16·0	12·6	14·6	63	..	3·0	..	0·1	0	0	1	0	0	0	0	0	0	0	0	27	1
Balurghat	0830	..	..	..	..	17·5	14·1	11·5	13·6	67	..	2·2	..	6·6	0	0	27	6	4	1	2	2	4	5	3	1	0
	1730	..	..	.	..	22·0	15·8	10·8	12·9	51	..	1·7	..	2·3	0	0	17	4	0	0	0	0	1	8	4	11	0
Malda	0830	31	1014·0	1010·3	−1·5	18·2	14·1	10·8	12·9	61	−10	2·4	+1·0	8·9	0	1	26	0	2	3	1	2	4	8	7	1	0
	1730	,,	1010·2	1006·6	..	22·0	15·2	9·4	11·8	47	..	2·1	..	7·2	0	0	27	2	1	0	1	0	2	5	16	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal- (*Contd.*)																											
Berhampore	0830	19	1013.4	1011·1	−2·0	17·0	14·1	11.9	13·9	71	+1	2·7	+0·5	1·6	0	0	9	0	0	3	0	0	1	4	1	19	0
	1730	„	1009·5	1007.4	..	22·0	16·1	11·7	13·7	52	..	1·9	..	0·7	0	0	5	0	0	1	0	0	0	4	0	23	0
Suri	0830	77	1014·5	1005·5	..	17·8	13·6	9·9	12·2	61	..	2.9	..	7·9	0	0	28	3	2	2	1	0	7	7	6	0	0
	1730	„	1010·7	1001·9	..	23·1	15·1	7·8	10·6	41	..	2·7	..	9.1	0	1	26	1	1	2	2	1	6	11	3	1	0
Asansol	0230	126	1012.0	997.2	..	15·8	13·3	11.4	13·5	75	..	2.3	..	3·8	0	0	12	1	1	1	0	0	0	6	3	16	0
	0530	„	1011·7	996.9	..	14.6	12·8	11.2	13·3	79	..	2·5	..	3·8	0	0	13	2	0	1	0	0	0	6	4	15	0
	0830	„	1014·3	999·6	−0·8	18·3	14·5	11.5	13·6	64	+1	2.5	+0.4	10·1	0	0	27	4	0	4	0	0	0	9	10	1	0
	1130	„	1013·8	999·3	..	22·7	15·3	9·3	11.7	44	..	2·5	..	13·9	0	2	25	5	3	1	0	0	0	6	12	1	0
	1730	„	1010·3	995.9	..	22·8	15·3	8·5	11·1	44	..	2·4	..	9·8	0	2	21	1	0	2	2	0	0	6	12	5	0
	2330	„	1012·5	997.3	..	17·1	13·9	11.3	13·4	69	..	2.5	..	6·5	0	2	17	1	2	2	0	0	0	6	8	9	0
Santiniketan	0830	59	1014·4	1007·5	..	19·3	15·3	11.9	13.9	65	..	2.8	..	6·9	0	0	28	4	6	0	0	0	0	10	8	0	0
	1130	„	1013·7	1007.0	..	22·7	16·7	12·0	14.0	53	..	2·6	..	9·3	0	0	28	5	3	0	0	0	1	9	10	0	0
	1730	„	1010·7	1003·9	..	21·8	16·6	12·3	14·3	58	..	2·5	..	6·1	0	0	28	1	2	3	1	0	3	8	10	0	0
Krishnanagar	0830	15	1014·4	1012·7	−0·9	19·4	15.4	12·3	14·3	65	−8	1·6	−0.6	2·3	0	0	18	3	0	3	2	3	0	3	4	10	0
	1730	„	1010·6	1008·9	..	23·0	16·7	12.1	14·1	53	..	1·4	..	0·7	0	0	6	1	0	1	0	1	0	3	0	22	0
Purulia	0830	255	1014·6	985·0	−1·0	17·5	13.2	8·9	11·4	60	+7	2·7	+1·5	3.9	0	0	26	0	0	0	2	0	3	4	17	2	0
	1730	„	1010.4	981·4	..	23·0	15.6	9·3	11·7	47	..	3.0	..	4 1	0	0	26	2	4	0	4	0	2	1	13	2	0
Burdwan	0830	32	1014·2	1010·4	−1·1	19·0	14.9	11.8	13·8	63	−4	2.6	+0·3	5.7	0	0	22	3	1	1	3	0	1	4	9	6	0
	1730	„	1010·2	1006·6	..	22·9	17·0	12·7	14.7	54	..	2·0	..	1·0	0	0	6	0	2	1	0	0	0	3	0	22	0
Barrackpore (Aerodrome)	0530	7	1012·2	1011·4	..	14·9	14·1	13·1	15·0	91	..	2·9	..	4.2	0	0	13	2	1	1	2	0	1	3		15	0
	0830	„	1014·3	1013·4	−0·5	19·1	15·9	13·2	15·2	71	+2	2·5	+0·7	8·5	0	0	22	5	0	3	1	0	2	7	4	6	0
	1130	„	1013.6	1012·8	..	24·1	17·5	12·9	14·9	51	..	2·5	..	10·1	0	1	25	6	1	3	2	0	0	6	8	2	0
	1730	„	1010·5	1009·7	..	22·9	18·1	14·6	16·6	62	..	2·4	..	6·1	0	0	21	1	2	0	1	0	2	6	9	7	0
	2330	„	1012·2	1011·4	..	17·9	16·7	15.6	17.7	87	..	2·1	..	2·0	0	0	7	1	0	1	0	0	4	1	0	21	0
Calcutta (Dum Dum)	0230	6	1011·3	1010·5	..	15·7	14·3	13.3	15.3	85	..	2·6	..	3·0	0	0	17	4	1	1	1	1	2	4	3	11	0
	0530	„	1011·7	1010·9	..	14·5	13·4	12.4	14·4	87	..	3·0	..	2·3	0	0	16	3	2	2	0	2	2	1	4	12	0
	0830	„	1013·9	1013·1	−1·0	19·2	15·4	12·3	14.3	66	−4	2·6	+0.7	4.0	0	0	24	4	3	3	0	3	2	4	5	4	0
	1130	„	1013·3	1012·5	..	24·5	16·4	9·8	12·1	41	..	2·4	..	7·0	0	0	27	12	2	1	2	0	1	1	8	1	0
	1730	„	1010·3	1009.5	..	22·6	17·1	12·4	14·4	54	..	2·9	..	2·7	0	0	16	2	3	2	0	1	2	2	4	12	0
	2330	„	1012·1	1011.3	..	16·7	15·1	13·8	15·8	83	..	2·5	..	3·5	0	0	14	2	3	2	1	1	3	1	1	14	0
Calcutta	0830	6	1013·7	1013·0	−1·4	19·1	15·2	12·0	14.0	64	−15	2·5	+0.2	7·3	0	0	27	5	3	2	1	0	2	5	9	1	0
	1130	„	1012·9	1012·2	..	25·0	16·8	10·3	12.5	41	..	2·4	..	9·8	0	1	26	3	4	2	2	0	1	4	11	1	0
	1730	„	1010·1	1009·4	..	23·7	17·1	12·3	14.3	50	..	2·9	..	5.9	0	1	23	2	2	0	0	1	3	3	13	4	0
Midnapore	0830	45	1014·1	1008·7	−1·2	19·4	15·7	13·1	15.1	67	+3	1.9	−0.1	3·1	0	0	17	5	6	0	2	2	1	1	0	11	0
	1730	„	1010·1	1004·9	..	24·4	17·6	12·6	14.6	51	..	2·1	..	3·3	0	0	22	12	5	1	0	3	1	0	0	6	0
Contai	0830	11	1014·0	1012·7	0	19·8	16·4	13·9	15·9	69	+1	2·0	+0·8	4·1	0	0	19	7	5	0	1	1	0	3	2	9	0
	1730	„	1010.2	1009·0	..	22·6	17.9	14.9	16·9	62	..	2.0	..	5.4	0	0	19	3	0	2	4	9	1	0	0	9	0
Saugor Island	0830	3	1013·4	1013·0	−1·6	20·3	17.3	15.0	17·0	72	−6	3·1	+0·5	17·4	0	8	20	6	8	3	1	1	1	4	4	0	0
	1730	„	1010·2	1009·9	..	22·7	18·9	16·2	18·4	69	..	2·7	..	12·3	0	2	26	4	3	2	2	7	6	2	2	0	0
Sandheads	0530	10	1010·9	1009·8	..	22·1	19·3	17·7	20·2	75	..	3·0	.	12·7	0	4	24	8	5	1	1	1	4	6	2	0	0
	0830	„	1013·3	1012·3	−1.8	22·9	19·5	17·5	20·0	71	+1	3 2	+1.4	13·5	0	7	20	12	3	2	1	1	3	4		1	0
	1130	„	1013·0	1011·9	..	23·9	19·5	16·9	19·2	64	..	2 8	..	14·3	0	6	22	11	6	1	1	1	4	1	3	0	0
	1730	„	1010·4	1009·3	..	23·9	19·8	17·2	19·6	66		3.1	..	11·0	0	6	17	6	2	3	3	1	4	2	2	5	0
	2330	„	1011·6	1010·5	..	23·1	20·0	18·1	20·8	74	..	1.3	..	11.5	0	3	25	5	2	4	2	3	7	3	2	0	0
Orissa																											
Baripada	0830	54	1015·3	1009·0	..	19·1	15·2	12·0	14.0	65	..	3·0	..	1·9	0	0	14	3	6	1	0	0	2	0	2	14	0
	1730	„	1010·9	1004.7	..	24·0	17·4	12·5	14·5	52	..	2.3	..	2·1	0	0	18	5	3	0	0	0	2	0	4	10	0
Jharsuguda	0230	230	1011·7	984·9	..	15·7	14·5	13·3	15·3	87	..	2.2	..	4·1	0	0	24	10	5	4	2	0	1	1	1	4	0
	0530	„	1012·2	985·2	..	14·2	13·2	12·4	14·4	89	..	2.5	..	5·3	0	0	25	12	9	3	0	0	0	1	0	3	0
	0830	„	1014·3	987·6	−0·5	17·5	14·8	12·7	14·7	74	+18	3·2	+1·9	5·9	0	0	21	8	9	2	1	1	0	0	0	7	0
	1130	„	1013·4	987.2	..	23·1	16·2	10·7	12·9	47	..	3·6	..	7.9	0	1	26	10	8	0	2	0	3	1	3	1	0
	1730	„	1009·5	983.5	..	24.1	16.8	11·1	13·2	46	..	3·3	..	6·1	0	0	27	1	7	1	2	8	6	1	1	1	0
	2330	„	1012·3	985.7	..	17.3	15.0	13·1	15·1	77	..	2·5	..	5·0	0	0	21	3	8	0	5	1	2	0	2	7	0
Keonjhargarh	0830	463	1011.6	959.1	..	19.0	14.0	10·1	12·3	59	..	2·7	..	4.1	0	0	27	6	2	1	2	2	0	4	10	1	0
	1730	„	1007.2	955.5	..	22.3	15.6	10·8	12·9	51	..	2·9	..	3·3	0	0	26	2	5	1	3	2	1	6	6	2	0
Balasore	0830	20	1013·9	1011·6	−1.3	19.2	15.9	13·1	15·1	70	+1	(d) 3·8	+1·8	(d) 3.6	0	0	16	10	1	0	0	0	2	0	3	11	0
	1730	„	1010.2	1007.9	..	22.4	18.3	15·4	17.5	66	..	3·4	..	1.5	0	0	10	1	0	0	2	6	1	0	0	18	0

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Sambalpur	0830	148	1014·3	997·1	−0·9	20·3	16·5	13·8	15·8	65	0	2·7	+1·0	1·9	0	0	12	3	5	1	2	0	1	0	0	16	0
	1730	,,	1009·9	993·1	..	24·8	17·6	12·3	14·3	59	..	2·5	..	1·4	0	0	11	2	2	1	1	1	2	0	2	17	0
Angul	0830	139	1014·1	998·1	−0·7	13·0	15·9	14·6	16·6	79	+12	3·5	+1·1	4·1	0	0	27	2	1	2	3	1	1	6	11	1	0
	1730	,,	1010·0	994·3	..	25·6	18·1	12·9	14·9	48	..	3·4	..	4·9	0	0	27	1	6	4	4	3	0	2	7	1	0
Cuttak	0830	27	1013·7	1010·6	−1·5	20·3	18·1	16·8	20·7	78	+2	2·4	+0·1	2·2	0	0	6	0	5	1	0	0	0	0	0	22	0
	1730	,,	1009·3	1006·8	..	26·4	20·1	16·4	18·6	56	..	2·5	..	3·4	0	0	10	0	4	4	0	0	1	0	1	18	0
Chandbali	0830	6	1014·1	1013·4	−0·8	20·2	18·1	16·7	19·0	80	+3	3·3	+1·1	4·9	0	0	27	8	6	0	0	1	2	4	6	1	0
	1730	,,	1010·9	1010·2	..	23·9	18·3	14·5	16·5	58	..	3·0	..	4·5	0	0	28	0	13	8	3	1	2	1	0	0	0
Bolangir	0830	190	1013·3	991·4	..	21·9	17·4	14·3	16·3	64	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1009·4	987·9	..	25·9	18·6	13·5	15·5	44	..	2·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Phulbani	0830	464	1012·0	959·1	..	17·2	15·2	13·8	15·8	80	..	2·5	..	0·0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	,,	1007·4	955·8	..	24·2	17·7	13·5	15·5	52	..	3·0	..	0·6	0	0	5	0	0	1	0	0	0	2	2	23	0
Titilagarh	0830	211	1013·5	989·3	..	21·1	17·4	14·8	16·8	67	..	1·3	..	2·9	0	0	27	0	20	0	3	0	3	0	1	1	0
	1730	,,	1009·5	985·8	..	27·4	19·7	14·9	16·9	47	..	1·7	..	2·9	0	0	27	0	23	0	2	0	1	0	1	1	0
Bhubaneswar	0230	46	1011·3	1005·9	..	19·0	17·7	17·0	19·4	87	..	2·2	..	6·4	0	1	23	5	3	0	0	1	8	3	4	4	0
	0530	,,	1011·5	1006·1	..	18·0	16·8	16·0	18·2	88	..	2·3	..	7·0	0	3	18	6	5	2	1	2	1	2	2	7	0
	0830	,,	1013·9	1008·5	−0·5	20·9	17·9	16·0	18·2	73	+5	3·1	+1·0	7·6	0	1	25	10	6	2	0	1	2	3	2	2	0
	1130	,,	1013·5	1008·2	..	25·5	19·1	15·0	17·0	53	..	3·6	..	8·5	0	2	22	8	6	3	0	3	2	1	1	4	0
	1730	,,	1010·5	1005·2	..	24·7	19·1	15·6	17·7	58	..	4·3	..	12·7	0	5	22	2	5	6	3	3	5	1	2	1	0
	2330	,,	1012·3	1007·0	..	20·2	18·6	17·6	20·1	85	..	2·8	..	9·5	0	2	22	2	6	1	0	3	9	3	0	4	0
Puri	0830	6	1013·9	1013·1	−1·0	22·3	19·5	17·9	20·5	75	−1	3·9	+1·9	18·3	0	5	23	13	4	2	0	0	8	0	1	0	0
	1730	,,	1010·4	1009·7	..	24·0	20·8	19·0	22·0	73	..	6·0	..	10·5	0	0	28	3	10	1	0	0	13	0	1	0	0
Gopalpur	0530	17	1011·3	1009·3	..	19·5	17·9	16·7	19·0	85	..	2·5	..	7·0	0	1	23	10	0	0	0	1	2	0	11	4	0
	0830	,,	1013·7	1011·7	−1·1	21·8	18·9	16·9	19·3	74	+1	3·5	+2·3	8·6	0	1	24	11	1	0	0	1	3	1	8	3	0
	1130	,,	1013·3	1011·3	..	26·1	20·7	17·4	19·9	60	..	3·2	..	12·8	0	2	25	5	4	2	4	8	3	0	1	1	0
	1730	,,	1010·2	1008·3	..	24·8	21·1	18·8	21·7	70	..	4·1	..	17·7	0	8	20	0	5	5	2	10	6	0	0	0	0
	2330	,,	1012·2	1010·2	..	21·9	19·7	18·5	21·3	81	..	2·2	..	13·1	0	7	20	5	1	0	1	4	8	3	5	1	0
Koraput	0830	913	1527·7	913·0	−0·5	20·3	14·6	10·3	12·5	54	−8	0·9	−0·4	5·1	0	0	28	4	1	1	3	4	13	1	1	0	0
	1730	,,	1510·0	910·5	..	23·2	14·9	8·5	11·1	40	..	1·7	..	9·1	0	3	25	12	2	1	0	1	3	6	3	0	0
Bihar Plateau																											
Dumka	0830	149	1014·0	996·6	−1·4	16·9	13·5	10·7	12·9	68	+9	1·9	+0·3	2·6	0	0	17	0	2	0	4	0	3	6	2	11	0
	1730	,,	1009·5	992·4	..	21·9	15.6	10·5	12·7	51	..	1·9	..	3·5	0	0	17	0	0	0	3	0	3	5	6	11	0
Daltonganj	0830	221	1014·8	989·0	−1·0	16·6	13·2	10.2	12·4	67	−6	2·1	+0·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1010·4	985·2	..	22·1	15·8	10·6	12·8	50	..	2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1014·1	944·4	−1·6	15·6	11·0	6·7	9·8	57	−3	2·1	−0·1	7·6	0	0	24	1	1	1	1	2	1	3	14	4	
	1730	,,	1010·1	941·5	..	19·4	12·9	7·5	10·4	48	..	2·6	..	9·5	0	1	25	1	2	1	3	0	0	2	17	2	0
Dhanbad	0830	257	1014·1	984·3	..	18·1	12·9	8·1	10.8	55	..	2·3	..	4·8	0	0	26	3	0	4	1	0	2	12	4	2	0
	1730	,,	1010·5	981·1	..	22·1	14.8	8·2	10·9	44	..	(d) 2·0	..	(d) 3·7	0	0	20	0	1	3	2	0	0	9	5	7	0
Ranchi	0830	655	1013·6	939·2	−1·5	16·2	11·7	7·6	10·4	62	+8	2·0	−0·1	2·1	0	0	21	7	0	4	0	2	0	6	2	7	0
	1730	,,	1010·6	937·0	..	19·5	13·3	8·0	10·7	52	..	2·3	..	1·1	0	0	8	0	0	1	1	0	0	6	0	20	0
Ranchi Aerodrome	0530	652	1013·4	938·3	..	12·3	9·0	5·4	9·0	65	..	3·1	..	5·1	0	0	23	3	2	0	3	0	2	5	8	5	0
	0830	,,	1013·8	939·6	..	16·0	10·6	5·3	8·9	51	..	3·2	..	10·2	0	0	28	4	2	2	3	0	1	4	11	0	1
	1130	,,	1012·4	939·7	..	19·9	12·1	4·6	8·5	41	..	2·9	..	11·8	0	0	27	4	0	1	5	0	1	3	13	1	0
	1730	,,	1010·0	937·2	..	20·3	13·2	7·0	10·0	44	..	(k) 2·9	..	(k) 10·5	0	0	20	3	0	1	3	0	0	1	12	0	0
Jamshedpur	0830	129	1014·3	999·2	−1·0	17·3	14·3	12·0	14·0	71	−1	2·4	+0·1	4·6	0	0	20	1	2	3	1	0	2	7	4	8	0
	1730	,,	1009·8	995·1	..	24·4	17·7	13·1	15·1	50	..	2·7	..	5·7	0	0	26	2	2	4	2	0	3	5	8	2	0
Jamshedpur (P.B.O.)	0530	142	1012·3	995·6	..	14·3	12·8	11·4	13·5	82	..	2·5	..	3·9	0	0	18	1	2	1	0	0	0	2	12	10	0
	0830	,,	1014·5	997·9	..	17·2	14·0	11·3	13·4	68	..	2·6	..	5·3	0	0	19	0	3	1	0	1	3	5	6	9	0
	1130	,,	1013·7	997·4	..	22·5	15·1	9·0	11·5	44	..	2·8	..	9·0	0	0	25	1	4	1	0	1	3	7	8	3	0
	1730	,,	1009·9	993·9	..	24·4	15·7	8·4	11·0	39	..	3·4	..	7·5	0	0	24	1	4	1	0	3	1	3	11	4	0
	2330	,,	1012·7	996·1	..	16·8	14·4	12·5	14·5	76	..	2·3	..	3·4	0	0	16	3	2	1	0	0	1	4	5	12	0
Chaibasa	0830	226	1014·1	987·9	−1.1	18·2	14·4	11·1	13·2	65	−6	2.5	+0·4	1·5	0	0	14	0	4	0	4	0	6	0	0	14	0
	1730	,,	1009·7	984·0	..	23·3	16·7	11·7	13·7	51	..	2·8	..	1·4	0	0	13	0	1	0	2	0	8	0	2	15	0
Bihar Plains																											
Motihari	0830	66	1013·8	1005·8	−1·3	16·0	13·4	11·2	13·3	70	−6	1·2	−0·5	2·7	0	0	12	0	0	1	2	0	0	3	6	16	0
	1730	,,	1010·0	1002·4	..	20·6	15·7	11 9	13·9	58	..	1·2	..	1·5	0	0	9	0	0	1	1	0	2	4	1	19	0
Forbesganj	0830	61	1013·2	1006·0	..	15·1	12·9	11·0	13·1	77	..	2·1	..	5·6	0	0	25	0	2	6	2	0	1	10	4	3	0
	1730	,,	1009·5	1002·5	..	21·4	16·0	15·5	13·6	55	..	1·8	..	4·1	0	0	23	0	1	1	1	0	1	17	2	5	0

(d) Mean of 27 days.

(k) Mean of 20 days.

Division and station	Hours of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Darbhanga	0830	49	1014·6	1008·7	−0·6	17·4	14·6	12·4	14·4	70	−3	1·7	0	5·1	0	0	28	0	3	4	1	1	3	6	10	0	0
	1730	,,	1010·9	1005·1	..	20·6	15·4	11·2	13·3	57	..	2·3	..	2·9	0	0	27	1	2	3	0	0	4	7	10	1	0
Chapra	0830	..	..	..	..	15·9	12·3	9·0	11·5	64	..	2·0	..	1·7	0	0	9	0	1	1	0	0	3	2	2	19	0
	1730	..	..	..	..	21·2	14·8	9·2	11·6	49	..	1·8	..	0·3	0	0	3	0	1	1	0	0	0	1	0	25	0
Purnea	0830	38	1013·9	1009·4	−1·4	16·8	13·5	10·9	13 0	68	−8	2·3	+0·6	4·7	0	0	19	0	1	4	0	0	4	10	0	9	0
	1730	,,	1010·2	1005·8	..	19·7	15·3	12·1	14·1	62	..	2·1	..	1·6	0	0	10	0	1	0	0	1	3	5	0	18	0
Patna	0830	53	1013·8	1007·6	−1.6	17·0	13·1	9·8	12·1	62	−1	1·9	0	11·5	0	0	26	0	1	3	2	0	6	13	1	2	0
	1730	,,	1010·2	1004·2	..	21·4	14·9	9·5	11·8	43	..	1·9	..	9·1	0	0	27	0	1	2	1	0	3	18	2	1	0
Patna Aerodrome	0530	60	1011·2	1004·1	..	12·3	10·6	8·6	11·2	79	..	1·7	..	8·2	0	1	17	0	0	2	3	1	1	10	1	10	0
	0830	,,	1013·3	1006·3	..	15·9	12·6	9·6	11·9	66	..	1·6	..	11·3	0	1	24	0	0	1	4	0	5	13	2	3	0
	1130	,,	1012·9	1006·0	..	21·6	14·8	8·8	11·3	45	..	1·8	..	14·5	0	4	23	0	1	1	3	1	1	8	11	1	1
	1730	,,	1009·5	1002·6	..	21·7	14·9	8·3	10·9	46	..	1·7	..	8·1	0	0	24	0	1	3	1	0	0	7	12	4	0
	2330	52	1012·1	1006·1	..	15·7	12·3	9·4	11·8	68	..	1·3	..	4·4	0	0	16	0	0	0	5	1	0	5	5	12	0
Bhagalpur	0530	49	1012·2	1006·4	..	14·1	11·8	9·3	11·7	75	..	2·4	..	5·5	0	1	16	0	0	3	0	2	10	2	0	11	0
	0830	,,	1014·3	1008·6	−0·3	16·8	13·1	9·8	12·1	65	+4	2·3	+1·2	8·3	0	1	23	0	0	2	2	2	8	10	0	4	0
	1130	,,	1013·8	1008·1	..	21·4	15·1	9·4	11·8	49	..	2·4	..	11·2	0	3	23	0	1	1	2	1	0	15	6	2	
	1730	,,	1010·7	1005·1	..	20·5	15·1	10·2	12·4	54	..	2·2	..	10·0	0	2	24	1	0	1	2	1	0	18	3	2	0
	2330	,,	1012.7	1007·0	..	16·5	13·1	9·9	12·2	67	..	1·9	..	6·2	0	0	22	0	0	2	1	1	13	5	0	6	0
Sabour	0830	37	1013·9	1009·4	−1.1	16·3	13·8	11·3	13·4	75	−4	2.5	+0.1	6·7	0	0	28	1	0	4	2	2	6	13	0	0	0
	1730	,,	1010·1	1005·7	..	20·7	15·8	12·0	14·0	58	..	2.1	..	5·9	0	0	24	1	0	3	0	0	1	15	4	4	0
Jamui	0830	82	1013·8	1003·9	..	15·1	13·2	11·6	13·7	79	..	2.2	..	3·5	0	0	16	0	0	5	1	1	0	7	2	12	0
	1730	,,	1010·6	1000·7	..	22·1	16·8	12·9	14·9	58	..	2·2	..	5·7	0	0	17	0	0	2	0	0	0	15	0	11	0
Dehri	0830	107	1014·4	1001·8	..	17·4	14·1	11·0	13·1	69	..	2·0	..	3·6	0	0	28	1	2	3	1	3	9	8	1	0	0
	1730	,,	1013·0	1000·6	..	22·7	15·7	10·0	12·3	44	..	1·7	..	3·6	0	0	28	2	1	5	0	1	0	19	0	0	0
Gaya	0230	116	1012·5	998·7	..	13·5	11·4	9·3	11·7	77	..	1·4	..	4·2	0	0	18	0	1	1	0	2	6	7	1	10	0
	0530	,,	1012·5	998·7	..	12·1	10·5	9·0	11·5	81	..	2·0	..	4·8	0	0	21	0	1	2	0	6	8	4	0	7	0
	0830	,,	1014·6	1000·9	−0·8	16·9	13·3	10·2	12·4	66	+6	2·3	+0·5	9·2	0	0	24	0	0	3	2	0	10	8	1	4	0
Jahmui	1130	,,	1014·0	1000·6	..	22·0	15·2	9·4	11·8	47	..	2·2	..	17.4	0	15	12	0	1	3	3	0	0	12	8	1	0
	1730	,,	1010·7	997·3	..	21·9	15·3	9·9	12·2	49	..	2·7	..	11.2	0	4	22	4	1	3	1	0	0	5	12	2	0
	2330		1012·9	999·2	..	14·9	12·1	9·6	11·9	71	..	1·4	..	4·7	0	0	20	0	0	0	0	5	6	6	3	8	0
Uttar Pradsh (East)																											
Kheri	0830	147	1013·1	995·6	−1.1	11·6	10·2	8·8	11·3	83	+9	2·1	+0 5	3·1	0	0	21	1	2	2	0	0	0	15	1	7	0
	1730	,,	1010·0	993·0	..	20·1	14·8	10·3	12.5	56	..	1·6	..	2·9	0	0	21	0	1	0	1	0	2	16	1	7	0
Bahraich	0830	124	1013·5	998·5	−1.4	13·4	11·2	8·9	11·4	75	+1	2.1	+0·5	5·9	0	0	25	3	0	2	1	0	0	19	0	3	0
	1730		1010·9	996 7	..	19·2	14·3	9·9	12·2	57	..	2·1	..	4·1	0	0	28	i	0	4	0	0	1	22	0	0	0
Nautanwa	0830	99	1012·9	1001·1	..	12·9	11·3	9·6	11·9	81	..	2·0	..	4·4	0	0	21	1	1	3	4	3	4	4	1	7	0
	1730	,,	1009·8	998·4	..	21·8	15·0	8·7	11·2	44	..	1·7	..	6·2	0	0	24	1	0	3	2	1	5	6	6	4	0
Hardoi	0830	142	1013·8	996·9	−0·2	12·6	10·7	8·8	11·3	78	+6	2·1	+0·6	6·1	0	0	22	2	0	2	0	0	0	17	1	6	0
	1730	,,	1010·6	994·2	..	20·7	14·8	9·7	12·0	52	..	1·7	..	7·2	0	0	24	1	1	2	0	1	0	14	5	4	0
Gonda	0830	110	1013·7	1000·6	..	13·5	11·8	9·9	12·2	79	+4	1·9	−0·3	4·0	0	0	25	0	0	2	2	0	1	9	11	3	0
	1730	,,	1010·3	997·6	..	20·9	15·6	11 3	13·4	56	..	1·2	..	3·0	0	0	21	0	0	2	1	1	0	6	11	7	0
Lucknow	0830	111	..	..	..	13·0	10·5	8·0	10·7	73	+5	2·2	+0·2	3·3	0	0	27	0	3	1	0	0	2	8	13	1	0
	1730		..	..	..	21·3	14·2	7·4	10·3	44	..	1·7	..	3·6	0	0	27	1	3	1	0	0	1	12	9	1	0
Lucknow (Amausi)	0230	128	1012·2	996·9	..	11·4	10·1	8·8	11·3	85	..	1·6	..	9·5	0	0	25	1	0	2	2	0	3	15	2	3	0
	0530	,,	1012·0	996·7	..	10·3	9·3	8·2	10·9	87	..	1·9	..	10.3	0	1	25	2	1	2	2	0	5	12	2	2	0
	0830	,,	1013·9	998·7	−1·6	13·6	11·3	8·9	11·4	74	+6	2·1	+0·1	12·4	0	2	25	2	1	2	1	0	3	13	5	1	0
	1130	,,	1013.8	999·0	..	20·5	14·1	8·1	10·8	47	..	2·2	..	19·7	0	11	17	1	1	3	2	0	0	12	9	0	0
	1730	,,	1010·7	996·0	..	21·3	14·5	8·4	11·0	47	..	1·9	..	15.5	0	4	24	0	2	2	0	2	2	12	8	0	0
	2330	,,	1012.8	997·6	..	12·8	10·9	9·1	11·5	75	..	1·3	..	10·8	0	1	23	0	0	4	0	0	6	10	4	4	0
Faizabad	0830	102	1014·1	1002·0	..	13·5	10.9	8·20	10·9	71	..	2·1	..	4·2	0	0	24	0	0	1	4	0	0	15	4	4	0
	1730	,,	1010·2	998·4	..	20·5	14.6	9·1	11·5	50	..	1·8	..	2·9	0	0	16	0	0	0	1	0	0	13	2	12	0
Gorakhpur	0830	77	1013·9	1004·7	−1.0	17·5	13·1	9·0	11·5	58	−13	1·6	+0·1	..	0	0	28	2	2	0	2	0	4	11	4	0	3
	1730	,,	1009·6	1000·6	..	22·7	14·6	7·1	10·1	39	..	1·3	..	..	0	0	27	1	1	2	0	1	6	11	3	0	2
Gorakhpur (P.B.O.)	0230	78	1011·2	1002.0	..	15·0	12·0	9·1	11·5	72	..	1·8	..	6·0	0	0	21	1	3	1	0	0	4	11	1	7	0
	0530	,,	1011·1	1001·9	..	13·7	11·2	9·2	11·6	75	..	1.5	..	5·6	0	0	23	2	3	0	0	2	4	10	2	5	0
	1130	,,	1013·3	1004·2	..	20·5	14·6	10·2	12·4	53	..	1·9	..	10·9	0	6	21	1	1	0	3	5	5	9	3	1	0
	2330	,,	1011 9	1002·7	..	16·3	12·8	10·2	12·4	68	..	1·3	..	6·7	0	1	24	0	3	1	0	1	10	6	4	3	0

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 61 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Kanpur	0830	126	1014·8	999·8	−0·6	12·8	10·7	8·4	11·0	76	+8	1·8	+0·5	5·8	0	0	28	1	0	7	0	0	3	16	1	0	0
	1730	,,	1011·8	997·3	..	22·1	14·7	7·9	10·7	43	..	1·4	..	7·2	0	1	27	2	0	5	0	0	2	16	3	0	0
Kanpur Aerodrome	0530	126	1012·3	997·2	..	11·0	9·3	7·3	10·2	79	..	1·6	..	..	0	0	20	0	1	1	2	1	0	12	3	8	0
	0830	,,	1014·1	999·2	..	14·0	11·0	7·7	10·5	68	..	2·3	..	..	0	1	25	2	1	3	1	0	0	15	4	2	0
	1130	,,	1014·3	999·7	..	20·7	13·5	5.8	9·2	41	..	2·0	..	..	0	13	15	2	0		2	1	0	11	9	0	0
	1730	,,	1010·9	996·4	..	21·7	13·9	5·7	9·1	40	..	1·7	..	..	0	0	25	1	2	2	1	0	0	11	8	3	0
	2330	,,	1013·1	998·1	..	14·1	11·1	7·9	10·6	68	..	1·1	..	..	0	0	17	0	0	2	1	0	0	9	5	11	0
Sultanpur	0830	97	1014·1	1002·7	..	15·3	11·6	7·6	10·4	62	..	1·9	..	3·7	0	0	24	0	4	0	1	0	2	7	10	4	0
	1730	,,	1010·3	999·2	.	22·6	14·3	6·3	9·5	39	..	1·5	..	4·1	0	0	23	1	1	0	0	0	1	5	15	5	0
Azamgarh	0830	78	1013·2	1003.9	..	14·5	12·2	10·3	12·5	77	..	1·7	..	2·9	0	0	28	0	0	7	0	0	0	21	0	0	0
	1730	,,	1009·9	1000·9	..	21·6	16·2	12·3	14·3	56	..	1.4	..	2·7	0	0	24	0	0	3	0	1	0	20	0	4	0
Fatehpur	0830	114	1014·3	1000·9	..	14·1	11·6	9·4	11·8	74	+3	2·1	+0·3	5·0	0	0	24	0	2	3	1	0	3	10	5	4	0
	1730	,,	1010·9	997·8	..	22·0	14·8	8·2	10·9	44	..	1·3	..	7·8	0	0	25	1	1	3	0	0	0	8	12	3	0
Ballia	0830	64	1014·1	1006·5	..	15·2	12·1	9·1	11·6	68	..	1·9	..	3·1	0	0	23	0	1	2	3	0	7	8	2	5	0
	1730	,,	1011·1	1004·0	..	22·4	15·7	9·9	12·2	48	..	2·1	..	3·5	0	0	19	0	1	1	1	0	1	13	2	9	0
Banda	0830	121	1015·4	1001·1	..	16·9	13·2	9·8	12·1	65	..	2·1	..	3·1	0	0	22	1	0	0	1	1	12	1	6	6	0
	1730	,,	1011·3	997·4	..	23·2	16·5	11·1	13·2	49	..	1·3	..	4·9	0	0	28	0	3	0	1	0	2	0	22	0	0
Allahabad (Bamhrauli)	0230	98	1012·4	1000·7	..	12·7	10·4	7·9	10·7	74	..	1·4	..	3·6	0	0	19	1	1	3	1	0	5	7	1	9	0
	0530	,,	1012·4	1000·7	..	11·5	9·7	7·7	10.5	80	..	1·9	..	3·2	0	0	20	1	1	3	0	1	3	9	2	8	0
	0830	,,	1014·4	1002·8	−1·1	15.4	11·6	7.6	10.4	63	−3	2.1	−0·1	5·3	0	0	22	2	0	1	2	0	2	14	1	6	0
	1130	,,	1014.3	1003 0	..	21.8	14.0	5.6	9.1	39	..	2.3	..	9 1	0	0	28	0	2	5	0	0	1	12	8	0	0
	1730	,,	1010·9	999 6	..	22·5	14 6	6.7	9.8	41	..	2.3	..	5·9	0	0	23	1	1	3	0	1	0	8	9	5	0
	2330	,,	1012.9	1001·4	..	14.4	11.5	8.4	11.0	68	..	1·1	..	3·4	0	0	21	2	2	2	0	0	0	10	5	7	0
Varanasi (Babatpur)	0530	85	1013 3	1002.9	..	11.5	9.7	7.5	10.4	78	..	1.8	..	6.8	0	0	21	0	1	3	0	1	10	6	0	7	0
	0830	,,	1015·3	1005·0	−0·3	15·2	11·8	8·1	10·8	66	+3	2·0	+0·7	12·1	0	0	26	1	0	1	3	1	13	6	1	2	0
	1130	,,	1015·2	1005·2	..	21·4	13·9	6·6	9·7	42	..	2·2	..	16·6	0	8	20	1	1	1	3	0	4	12	6	0	0
	1730	,,	1011·5	1001·7	..	22·3	14·2	5·7	9·1	39	..	1·8	..	13·8	0	3	25	0	0	1	5	0	3	9	10	0	0
	2330	,,	1013·8	1003·5	..	14·9	11·8	8·7	11·2	69	..	1·4	..	14·0	0	2	23	0	1	2	1	1	6	11	3	3	0
Varanasi	0830	76	1014·0	1005·0	−1.4	15·6	12·4	9.3	11·7	69	0	2·3	+0·4	5·8	0	0	27	3	0	1	0	3	7	11	0	1	2
	1730	,,	1010·7	1001·9	..	22·7	16·7	11·3	13·4	53	..	2·1	..	3·9	0	0	27	0	4	1	0	0	7	15	0	1	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	1013·2	933·5	..	7·9	6.6	5.1	8.8	83	..	3·2	..	1·8	0	0	12	2	4	0	1	0	1	3	1	16	0
	0830	,,	1013·9	935·0	−1.8	10·7	8.1	5·5	9·0	73	0	2·7	−0·6	2·2	0	0	21	3	9	1	1	0	1	5	1	7	0
	1130	,,	1013·5	935·9	..	15·7	10.6	5·4	7.0	54	..	3·0	..	3·8	0	0	25	1	2	0	1	3	8	9	1	3	0
	1730	,,	1010·6	933·3	..	15·9	10·9	5·8	9.2	55	..	3·0	..	3·1	0	0	25	4	2	0	1	0	3	14	1	3	0
	2330	,,	1013·8	934·7	..	10·1	8·5	6·9	9·9	81	..	2·2	..	2·6	0	0	17	2	1	1	1	0	0	8	4	11	0
Roorkee	0830	274	1014·8	982·2	−0.8	10·9	9·5	8·1	10·8	83	+4	3·6	+1·0	2·6	0	0	25	0	0	1	3	0	0	0	21	3	6
	1730	,,	1011·3	979 9	..	18·8	12·5	5·9	9.3	47	..	3·0	..	2·8	0	0	26	0	1	0	4	0	1	0	20	2	0
Najibabad	0830	270	1014·5	982·3	..	9·3	8·4	7·3	10·2	88	..	1·4	..	3·8	0	0	17	0	0	3	2	0	4	0	8	11	0
	1730	,,	1011·4	980·4	..	20·1	13·5	7·0	10.0	48	..	1·5	..	5·6	0	1	22	1	2	0	5	0	5	6	4	5	0
Meerut	0830	272	1015·1	988·7	−0·6	12·3	10·1	7·5	10·4	74	+4	0·9	−1.4	6·4	0	0	27	1	0	2	2	0	0	9	13	1	0
Bareilly	0830	173	1013·8	993·2	−1·4	12·7	10·7	8·7	11·2	77	+2	2·1	−0.2	5·9	0	0	25	1	2	3	1	0	1	12	5	3	0
	1730	,,	1010·4	990·3	..	19.3	13·4	7·4	10·3	49	..	2·6	..	3·8	0	0	17	0	0	3	0	0	0	13	1	11	0
Bareilly (P.B.O.)	0230	172	1011·8	991·4	..	12·6	10·1	7.8	10·6	74	..	1·3	..	7·7	0	0	27	1	1	3	1	0	2	11	8	1	0
	2530	,,	1011·8	991·2	..	11·1	9·3	7·4	10·3	79	..	1·9	..	9·2	0	0	26	0	1	4	0	0	0	19	2	2	0
	1130	,,	1013·6	993·5	..	18·0	12·6	7·7	10·5	55	..	2·0	..	11.4	0	2	25	3	1	3	2	0	0	6	12	1	0
	2330	,,	1012·1	991·7	..	14·0	10·8	7·9	10·7	68	..	1.3	..	7.4	0	0	24	0	0	3	0	0	1	16	4	4	0
Aligarh	0630	187	1014·6	992·3	..	11·7	9·4	6·8	9·9	73	+5	2·9	+0·9	3.6	0	0	25	3	0	3	0	1	0	12	6	3	0
	1730	,,	1011·2	989·8	..	20·3	13·9	7·7	10·5	47	..	2·8	..	4.3	0	0	27	7	0	3	0	1	0	14	2	1	0
Mainpuri	0830	157	1013·9	995·3	−1·5	13·1	10·6	7·8	10·6	73	+7	2·5	+0·3	2·3	0	0		0	1	2	1	1	1	11	1	10	0
	1730	,,	1011·3	993·2	..	20·8	14·7	9·1	11·5	50	..	1·6	.	3.0	0	0	27	0	1	2	1	1	9	12	1	1	0
Agra	0830	169	1015·3	995·2	−0·6	13·3	10·3	7·0	10·0	65	+2	2·3	+0·2	2·7	0	0	17	0	1	1	1	2	7	0	5	11	0
	1730	,,	1011·7	992·3	..	21·1	14·0	7·1	10·1	43	..	1·9	..	4.0	0	0	22	0	3	0	1	0	7	3	8	6	0
Agra Aerodrome	0530	169	1013·5	993·0	..	9.4	8·2	6·6	9·7	84	..	2·5	..	4.3	0	0	16	1	2	2	0	0	1	3	7	12	0
	0830	,,	1015·1	994·7	..	12·3	9·9	7·2	10·1	73	..	2.6	..	7·1	0	0	22	2	1	2	1	0	0	8	8	6	0
	1130	,,	1015.2	995.4	..	19·5	13·1	6·5	9·7	47	..	2·0	..	13·4	0	5	21	1	2	3	1	0	0	1	18	2	0
	1730	,,	1011.8	992.0	..	20.9	13·4	5.7	9.1	41	..	1·9	..	9·6	0	0	23	6	0	4	0	0	0	3	10	5	0
	2330	,,	1014.1	993.6	..	12·7	10·3	7.2	10·1	72	..	1·6	..	3·0	0	0	11	2	1	1	0	0	0	1	6	17	0

Division and station	Hour of observation I. S. T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(contd.)																											
Orai	0830	141	1016.5	999.9	..	15.8	12.5	9.3	11.7	68	..	2.1	..	4.2	0	0	28	0	0	1	1	0	9	1	16	0	0
	1730	,,	1011.6	995.5	..	22.8	15.5	8.9	11.4	44	..	1.5	..	3.9	0	0	28	2	3	0	0	2	0	1	20	0	0
Jhansi	0830	251	1015.3	986.0	−0.7	16.4	11.1	5.0	8.7	51	−3	1.6	+0.2	1.1	0	0	10	2	1	1	0	0	2	4	0	18	0
	1730	,,	1011.4	982.9	..	23.5	13.6	1.9	7.0	29	..	1.5	..	2.1	0	0	20	7	4	3	0	1	0	3	2	8	0
Punjab (India) (Including Delhi)																											
Pathankot	0830	312	1015.2	978.1	−0.5	9.7	8.0	6.1	9.4	79	+5	3.0	−0.3	2.3	0	0	14	3	3	4	0	0	3	0	1	14	0
	1130	,,	1015.3	979.0	..	16.0	11.1	5.6	9.1	52	..	3.3	..	3.8	0	0	21	1	4	2	0	0	5	7	2	7	0
	1730	,,	1012.2	976.2	..	17.4	11.6	5.4	9.0	48	..	4.0	..	8.6	0	0	28	0	2	0	2	0	6	17	1	0	0
Amritsar (Rajasansi)	0530	234	1014.2	986.0	..	7.7	6.7	5.4	9.0	87	..	2.3	..	7.8	0	1	24	4	2	2	1	0	1	5	10	3	0
	0830	,,	1015.5	987.4	−0.2	8.8	7.5	6.1	9.4	84	−1	2.1	−0.6	6.3	0	1	23	3	0	3	0	0	2	6	10	4	0
	1130	,,	1015.9	988.3	..	16.1	11.1	5.9	9.3	53	..	1.8	..	10.7	0	3	24	6	1	2	0	0	1	3	14	1	0
	1730	,,	1012.5	985.2	..	18.0	11.6	4.9	8.7	45	..	2.5	..	11.2	0	0	27	2	1	1	1	0	1	5	16	1	0
Adampur Aerodrome	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Ludhiana	0830	247	1015.3	985.7	−0.7	9.9	8.6	6.9	9.9	83	+7	2.7	+0.1	4.8		0	28	2	1	1	1	1	2	8	12	0	0
	1730	,,	1012.3	983.7	..	18.6	14.5	11.0	13.1	63	..	2.9	..	6.7		0	27	3	1	1	0	0	0	4	18	1	0
Ferozepore	0830	200	1014.0	990.2	..	8.7	7.8	6.5	9.7	87	..	1.4	..	1.2		0	11	0	2	1	0	0	0	0	8	17	0
	1730	,,	1012.9	989.7	..	18.5	14.2	10.6	12.8	64	..	2.6	..	2.6	0	0	21	0	5	0	0	0	1	0	15	7	0
Halwara Aerodrome	0830	242	1015.8	986.8	..	9.2	8.1	6.9	9.9	83	..	2.8	..	6.9	0	0	26	1	1	1	1	0	2	5	14	3	0
	1730	,,	1013.2	985.1	..	17.9	12.3	6.4	9.6	50	..	2.6	..	14.7	0	7	21	3	2	1	0	0	0	3	19	0	0
Chandigarh	0830	347	1013.7	972.9	−0.7	12.3	10.4	8.4	10.9	79	+13	2.5	+1.0	..	0	0	14	0	0	0	4	0	3	0	7	14	0
	1730	,,	1011.1	971.2	..	17.8	12.8	7.6	10.4	52	..	2.2	..	..	0	0	22	0	2	5	8	0	1	1	5	6	0
Ambala	0830	272	1014.4	982.3	−0.8	11.8	9.3	6.5	9.7	71	−2	1.6	−1.3	2.5	0	0	18	0	3	0	7	0	1	0	7	10	0
	1730	,,	1011.4	979.8	..	17.8	12.4	6.8	9.9	52	..	1.6	..	3.0	0	0	18	0	5	0	9	0	1	0	3	10	0
Ambala (P.B.O.)	0230	278	1013.1	980.1	..	11.4	9.5	7.6	10.4	79	..	3.3	..	11.0	0	0	28	4	1	1	1	1	0	3	17	0	0
	0530	,,	1012.5	979.4	..	10.4	8.8	7.3	10.2	82	..	2.6	..	10.0	0	0	27	0	3	0	3	0	1	5	15	1	0
	1130	,,	1014.4	982.0	..	17.0	12.4	8.6	11.2	60	..	2.5	..	13.0	0	3	22	3	0	0	3	0	1	4	14	3	0
	2330	,,	1013.6	980.7	..	12.6	10.4	8.4	11.0	76	..	2.1	..	11.3	0	1	25	1	1	0	1	0	0	3	20	2	0
Ambala Aerodrome	0530	274	1012.8	980.1	..	9.2	8.1	6.8	9.9	85	..	2.8	..	9.0	0	3	15	1	0	0	0	1	0	11	5	10	0
	0830	,,	1014.1	981.4	..	10.5	8.9	7.2	10.2	81	..	3.0	..	12.4	0	6	19	0	0	1	1	1	0	10	12	3	0
	1130	,,	1014.4	982.5	..	16.9	12.0	6.9	9.9	56	..	3.2	..	18.5	0	18	6	0	0	1	1	0	1	9	12	4	0
	1730	,,	1011.3	979.5	..	18.2	12.4	6.3	9.5	50	..	2.8	..	19.6	0	15	12	2	0	1	1	0	0	12	11	1	0
	2330	,,	1013.6	981.2	..	11.6	9.9	7.9	10.7	79	..	2.4	..	14.0	0	8	16	1	0	0	1	0	0	14	8	4	0
Patiala	0830	251	1014.7	985.0	..	11.9	9.3	6.2	9.5	70	..	2.7	..	6.2	0	0	26	1	0	0	2	0	0	0	23	2	0
	1730	,,	1012.6	983.5	..	17.8	12.0	5.7	9.1	49	..	2.6	..	8.5	0	0	26	2	0	0	1	0	0	0	23	2	0
Bhatinda	0830	211	1015.5	990.4	..	12.2	10.7	9.4	11.8	83	..	2.3	..	4.0	0	0	25	3	3	0	2	0	0	1	16	3	0
	1730	,,	1012.3	987.6	..	18.9	15.0	12.1	14.0	66	..	2.3	..	5.4	0	0	28	4	0	0	1	0	0	0	23	0	0
Karnal	0830	249	1014.4	984.7	..	12.9	10.3	7.6	10.4	71	..	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1011.7	982.9	..	18.6	12.3	5.4	9.0	46	..	0.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1014.1	987.6	..	8.5	8.0	7.4	10.3	93	..	1.6	..	4.3	0	0	26	2	2	2	1	0	5	6	8	2	0
	0830	,,	1015.8	989.4	−0.1	10.1	8.9	7.9	10.6	87	+22	2.5	+0.3	3.9	0	0	24	3	1	4	1	0	7	7	1	4	0
	1130	,,	1013.9	990.2	..	18.1	14.0	10.4	12.6	62	..	2.5	..	6.4	0	0	28	2	3	0	4	1	2	4	12	0	0
	1730	,,	1012.3	987.1	..	19.4	15.4	12.2	14.2	63	..	2.4	..	6.3	0	0	27	5	0	2	2	0	3	7	8	1	0
	2330	,,	1014.9	988.6	..	11.7	10.5	9.4	11.8	87	..	2.0	..	4.3	0	0	28	3	2	2	2	0	4	4	11	0	0
New Delhi (Safdarjang)	0230	216	1013.7	988.0	..	12.0	9.6	6.9	9.9	72	..	2.0	..	9.9	0	1	26	4	2	1	0	1	0	4	15	1	0
	0530	,,	1013.3	987.5	..	10.9	8.8	6.4	9.6	75	..	2.3	..	10.1	0	0	27	3	1	1	0	2	0	3	17	1	0
	0830	,,	1014.9	989.1	−0.9	11.8	9.3	6.4	9.6	71	+8	2.6	+0.2	13.4	0	3	25	2	1	1	2	0	1	7	14	0	0
	1130	,,	1013.1	989.9	..	18.6	12.5	6.2	9.5	48	..	2.3	..	19.7	0	13	15	0	1	3	0	1	1	2	20	0	0
	1730	,,	1011.8	986.8	..	20.1	12.8	5.2	8.8	41	..	2.0	..	17.0	0	8	19	1	0	1	3	0	0	1	21	1	0
	2330	,,	1014.0	988.4	..	13.5	10.5	7.3	10.2	68	..	1.9	..	12.4	0	2	23	3	0	0	1	0	0	1	20	3	0
Palam Aerodrome	0230	233	1014.2	985.0	..	10.3	9.3	8.1	10.8	87	..	1.9	..	7.2	0	1	21	1	1	1	0	2	2	8	7	6	0
	0530	,,	1013.5	985.5	..	9.3	8.1	6.6	9.7	80	..	2.1	..	7.2	0	0	26	1	2	2	0	1	5	8	7	2	0
	0830	,,	1015.1	987.3	..	10.8	9.1	7.1	10.0	80	..	2.7	..	10.0	0	1	25	0	0	2	1	1	10	9	3	2	0
	1130	,,	1015.2	988.1	..	18.0	12.8	7.9	10.6	54	..	2.6	..	18.0	0	11	17	0	0	2	1	1	4	9	11	0	0
	1430	,,	1012.5	985.7	..	20.7	13.6	6.2	9.5	44	..	3.0	..	22.0	0	16	12	1	0	0	3	1	0	10	13	0	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
Palam Aerodrome—*Contd.*	1730	233	1011·9	985·3	..	19·6	13·2	6·5	9·6	47	..	2·5	..	17·7	0	8	20	3	0	1	2	0	0	10	12	0	0
	2030	,,	1013·6	98 ·2	..	14·2	11·6	9·0	11·5	73	..	1·7	..	7·6	0	0	26	2	0	3	2	0	1	14	4	2	0
	2330	,,	1014·2	986·5	..	11·9	10·2	8·5	11·1	81	..	1·6	..	7·0	0	0	24	5	0	1	1	0	4	9	4	4	0
Himachal Pradesh																											
Mandi	0830	761	1016·5	927·6	−1·1	6·8	5·8	5·2	8·9	86	−3	4·1	+0·9	0·1	0	0	2	0	0	0	1	1	0	0	0	26	0
	1730	,,	1010·9	925·0	..	14·9	10·0	4·9	8·7	55	..	3·1	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Bilaspur	0830	493	1016·6	958·0	..	8·6	7·4	6·3	9·5	88	..	4·9	..	..	0	0	2	1	0	0	0	0	0	1	0	26	0
	1730	,,	1011·5	955·0	..	17·2	11·3	5·4	9·0	49	..	3·8	..	..	0	0	5	0	0	0	1	0	1	2	1	23	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3048·3	659·3	..	−11·3	−13·1	−19·4	1·1	50	..	(g) 4·9	..	(d) 4·9	0	0	17	1	12	1	0	1	0	1	1	10	0
	0830	,,	3056·1	660·2	−3.4	−10·4	−12·0	−17·9	1·3	52	−3	3·5	−1·8	3·9	0	0	16	2	6	0	0	4	4	0	0	12	0
	1730	,,	3031·2	658·6	..	−5·8	−7·6	−13·6	1·9	48	..	4·5	..	6·1	0	0	27	2	3	2	1	6	11	1	1	1	0
Srinagar	0830	1587	1511·2	842·2	−1·6	−0·7	−1·3	−2·4	5·0	88	0	6·6	+0·4	2·1	0	0	16	0	0	1	10	1	0	2	2	12	0
	1130	,,	1517·3	842·9	..	2·6	0·7	−2·3	5·1	72	..	5·6	..	2·5	0	0	17	1	0	1	9	1	0	3	1	11	1
	1730	,,	1492·6	840·4	..	3·9	1·2	−2·6	4·9	65	..	5·0	..	3·0	0	0	19	1	0	1	5	4	1	4	3	9	0
Srinagar Aerodrome	0530	1665	1495·9	832·7	..	−2·1	−2·5	−3·1	4·7	93	..	(h) 6·0	..	3·0	0	0	13	0	1	1	3	2	1	5	0	15	0
	0830	,,	1506·1	833·8	..	−1·5	−2·1	−3·1	4·7	89	..	(e) 6·4	..	4·6	0	0	20	0	0	7	6	2	2	2	1	8	0
	1130	,,	1512·9	834·7	..	2·0	0·4	−1·8	5·3	77	..	(d) 5·2	..	4·9	0	0	21	2	2	9	2	0	0	1	5	7	0
	1730	,,	1492·9	832·6	..	3·2	1·3	−1·3	5·5	75	..	(e) 4·2	..	5·3	0	0	20	1	0	1	6	3	2	3	4	8	0
	2330	,,	1505·2	833·7	..	−1·2	−1·9	−3·0	4·8	87	.	(g) 3·3	..	3·9	0	0	14	0	1	1	6	0	0	6	0	14	0
Gulmarg	0830	2655																									
	1730	,,						Closed during winter months																			
Jammu*	0830	,,																									
Jammu Aerodrome	0530	292	1013·6	978·9	..	9·2	7·3	5·0	8·7	76	..	2·6	..	1·3	0	0	4	0	4	0	0	0	0	0	0	24	0
	0830	,,	1015·2	980·2	..	10·1	7·6	4·7	8·5	71	..	3·0	..	2·7	0	0	11	1	8	2	0	0	0	0	0	17	0
	1130	,,	1015·7	981·3	..	15·7	10·7	5·2	8·8	52	..	3·2	..	4·4	0	0	16	1	5	0	1	1	2	2	4	12	0
	1730	,,	1012·5	978·5	..	17·4	10·9	3·3	7·7	43	..	4·3	..	4·9	0	0	17	0	2	0	0	0	1	9	5	11	0
Rajasthan (R)	2330	,,																									
Rajasthan (West)																											
Ganganagar	0530	177	1014·2	992·9	..	9·0	7·4	5·3	8·9	78	..	1·8	..	2·4	0	0	16	4	4	2	1	0	2	1	2	12	0
	0830	,,	1015·7	994·4	..	9·0	7·3	5·2	8·8	77	−3	1·9	−1·4	1·7	0	0	13	4	3	1	1	0	1	1	2	15	0
	1130	,,	1016·5	995·7	..	17·7	11·7	5·2	8·8	45	..	2·4	..	3·1	0	0	26	3	4	2	4	2	3	3	5	2	0
	1730	,,	1012·6	992·1	..	20·0	12·2	3·7	8·0	37	..	2·4	..	2·3	0	0	17	6	5	1	0	1	0	1	3	11	0
	2330	,,	1014·8	993·5	..	12·1	9·3	6·1	9·4	68	..	2·1	..	1·5	0	0	11	6	3	2	0	0	0	0	0	17	0
Churu	0830	291	1016·0	981·2	..	10·4	8·1	5·3	8·9	73	..	2·1	..	3·6	0	0	20	2	5	2	0	3	4	4	0	8	0
	1730	,,	1012·0	978·6	..	21·2	13·2	4·4	8·4	37	..	2·3	..	8·8	0	0	27	17	1	1	0	0	1	1	6	1	0
Bikaner	0830	224	1015·9	989·0	−0·1	10·9	9·0	7·1	10·1	81	+22	1·1	−1·1	3·7	0	0	26	2	8	0	12	1	2	1	0	2	0
	1730	,,	1011·9	986·2	..	22·7	17·5	14·4	16·4	62	..	1·6	..	5·7	0	0	27	10	7	0	1	0	2	0	7	1	0
Bikaner (P. B. O.)	0530	224	1014·0	987·1	..	8·9	7·7	6·8	9·9	85	..	1·3	..	1·2	0	0	6	0	2	0	1	0	1	1	1	22	0
	1130	,,	1015·7	989·7	..	20·1	14·5	9·8	12·1	54	..	1·6	..	5·2	0	0	22	3	2	3	3	5	1	1	3	6	1
	2330	,,	1014·5	988·0	..	13·2	10·6	7·9	10·6	72	..	1·2	..	1·6	0	0	11	5	2	1	0	0	1	0	2	17	0
Nagaur	0830	298	1015·8	980·6	..	15·5	9·6	1·3	6·7	44	..	1·5	..	6·5	0	0	27	4	4	7	5	3	2	1	1	1	0
	1730	,,	1011·3	977·5	..	22·4	12·4	−0·7	5·8	24	..	1·8	..	6·4	0	0	27	7	2	0	1	1	2	3	11	1	0
Phalodi	0830	234	1016·0	988·1	..	2·0	9·9	7·9	10·7	76	..	1·8	..	5·5	0	0	22	2	4	2	6	5	1	1	1	6	0
	1730	,,	1012·8	986·1	..	23·3	17·8	13·4	15·4	55	..	1·5	..	7·4	0	0	19	0	0	3	1	4	0	10	1	9	0
Jaisalmer	0830	242	1015·1	986·3	..	12·4	8·5	3·5	7·9	57	..	1·6	..	6·7	0	4	9	5	3	1	1	2	0	0	1	15	0
	1730	,,	1011·2	983·3	..	23·5	13·0	−2·0	5·2	25		2·2	..	15·6	0	8	18	10	3	0	0	2	3	4	4	2	0
Jodhpur	0230	224	1013·9	987·5	..	14·9	9·7	3·0	7·6	48	..	1·5	..	11·3	0	2	26	7	15	0	0	1	1	2	2	0	0
	0530	,,	1013·7	987·1	..	12·8	8·6	3·0	7·6	55	..	1·2	..	9·3	0	1	26	7	15	0	1	1	3	0	0	1	0
	0830	,,	1015·4	988·9	+0·1	14·1	9·2	2·7	7·4	50	+3	1·5	−0·7	8·1	0	0	24	2	18	1	0	0	3	0	0	4	0
	1130	,,	1015·6	989·7	..	21·0	12·7	3·1	7·6	35	..	1·3	..	8·4	0	0	24	1	8	5	4	0	1	3	2	4	0
	1730	,,	1011·5	986·0	..	34·5	13·7	1·5	6·8	25	..	1·3	..	9·2	0	0	27	5	6	2	1	1	3	4	5	1	0
	2330	,,	1014·0	987·8	..	17·3	10·6	2·8	7·5	41	..	1·3	..	11·0	0	3	24	7	11	1	0	1	0	4	3	1	0

(R) Register not received. *Temporarily closed. (d) Mean of 27 days. (e) Mean of 26 days. (g) Mean of 24 days. (h) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (west) —*Contd.*																											
Barmer	0530	194	1012·9	989·9	..	13·9	9·8	4.9	8·7	58	..	1·3	..	4.6	0	0	22	1	1	0	0	0	1	0	19	6	0
	0830	,,	1011.8	991·8	+0.1	14·4	10·1	5·0	8·7	56	—2	1·3	—0.8	3·7	0	0	17	3	0	0	0	0	0	2	12	11	0
	1130	,,	1014·9	992·5	..	22·0	13·4	3·7	8·0	35	..	0·9	..	5·7	0	0	27	5	11	2	4	3	0	0	2	1	0
	1730	,,	1010·7	988·7	..	25·2	14·8	4.5	8·4	29	..	1·2	..	6·4	0	0	25	5	9	0	0	0	2	3	6	3	0
	2330	,,	1013·5	990·8	..	18.1	11.7	4·7	8.5	44	..	0·8	..	4·6	0	0	24	4	0	0	0	0	5	1	14	4	0
Munabao	0830	80	1015·8	1006·2	..	12·4	9·2	4·8	8·6	62	..	1·4	..	..	0	0	17	2	14	0	0	0	1	0	0	11	0
	1730	0	1012·3	1003.2	..	24·9	15·6	6·0	9·3	30	..	0·5	..	..	0	0	24	6	8	0	0	0	8	2	0	4	0
Rajasthan (East)																											
Pilani	0830	301	1016·9	981·4	..	11·8	8·6	4·4	8·4	62	..	1·9	..	8.5	0	0	27	0	1	7	5	1	8	4	1	1	0
	1730	,,	1012·7	978·3	..	20·3	12·3	2·9	7·5	35	..	2·1	..	10·0	0	0	28	13	2	3	2	0	0	1	7	0	0
Sikar	0830	433	1016 0	965·7	..	14·4	10·0	4.8	8·6	56	..	1·8	..	2·1	0	0	19	1	1	10	4	0	1	2	0	9	0
	1730	,,	1011·1	962·4	..	21·2	12·8	4·1	8·2	33	..	2·6	..	2·6	0	0	22	6	2	0	0	0	2	11	1	6	0
Alwar	0830	271	1014·3	982·2	..	12·9	9·7	6·0	9·3	66	..	2·6	..	1·0	0	0	6	1	1	2	1	0	0	0	0	22	1
	1730	,,	1011·8	980.6	..	21·3	12·7	3·4	7·8	34	..	2·6	..	3·0	0	0	21	9	6	1	0	0	0	1	4	7	0
Jaipur (Sanganer)	0230	390	1013·6	967·7	..	12·1	8·7	4.4	8·4	62	..	2.2	..	..	0	0	24	7	7	7	1	0	1	0	1	4	0
	0530	,,	1013·7	967·7	..	10·5	8·1	4.9	8·7	71	..	1·4	..	..	0	0	24	11	5	6	1	0	0	1	0	4	0
	0830	,,	1015·3	969·5	—1·0	12·5	9·3	5·6	9·1	65	+17	1·6	—0·5	..	0	0	15	3	1	7	1	0	0	0	3	13	0
	1130	,,	1014·7	970·0	..	19·7	12·3	3.7	8.0	40	..	2·0	..	..	0	2	26	4	1	6	3	0	2	2	10	0	0
	1730	,,	1010·9	966·7	..	21·8	12·8	2·7	7·4	33	..	2·3	..	..	0	0	25	6	1	0	1	0	1	4	12	3	0
	2330	,,	1013·9	968·4	..	13·9	9·6	4.3	8·3	55	..	1.4	..	..	0	0	24	7	9	5	1	1	0	0	1	4	0
Dholpur	0830	176	1014·7	993·9	..	14·3	11·4	8.4	11.0	70	..	2·6	..	1·4	0	0	10	1	0	0	0	0	1	3	5	18	0
	1730	,,	1011·0	990·7	..	21·3	14·8	8.8	11.3	48	..	1·8	..	1·5	0	0	9	1	2	2	0	0	0	2	2	19	0
Ajmer	0830	486	1015·9	959·0	—1.0	11·3	7.9	3·8	8·0	63	+11	1.6	—0.1	2.8	0	0	14	5	4	1	0	0	1	1	2	14	0
	1730	,,	1010·5	956·0	..	22·5	11·5	—2.0	5·2	23	..	1·9	..	10·4	0	0	28	3	3	1	0	1	4	11	5	0	0
Tonk	0830	272	1014·8	982·6	..	12·6	8.9	4·1	8.2	55	..	1·7	..	4·5	0	0	28	2	2	3	1	1	3	7	9	0	0
	1730	,,	1009·9	978·9	..	23·5	13·4	2.7	7·4	25	..	1·6	..	8·1	0	0	28	5	1	1	0	0	1	4	16	0	0
Kota	0530	257	1013·4	983·2	..	13·7	9·9	5·5	9·0	59	..	1·5	..	1·5	0	0	11	0	1	0	0	1	5	1	3	17	0
	0830	,,	1015·3	985·3	—0·7	16·7	11·2	4.9	8.7	48	0	1·4	—0.4	1·0	0	0	9	0	1	0	0	0	2	3	3	19	0
	1130	,,	1014·9	985·6	..	22.7	13·9	4.8	8·6	34	..	0·9	..	0·5	0	0	17	3	6	0	1	0	0	3	4	11	0
	1730	,,	1011·6	982·4	..	24·1	14·7	5.2	8.8	31	..	0·7	..	2·9	0	0	17	0	3	0	0	0	1	0	13	11	0
	2330	,,	1013·6	983·7	..	17·0	11·5	5.5	7·0	48	..	0·8	..	1·5	0	0	9	0	0	0	3	0	5	0	1	19	0
Erinpura (Jawai Dam)	0830	295	1015·3	980·4	..	12·3	9·4	6·2	9·5	68	..	1·7	..	5·4	0	0	18	0	0	1	1	15	0	1	0	10	0
	1730	,,	1010·7	977.7	..	25·5	15·9	6·8	9·9	32	..	1·0	..	6·0	0	0	24	8	3	0	0	1	5	4	3	4	0
Chambal (Rawat Bhatta Dam)	0830	351	1015·3	974·3	..	14·0	9·8	4·9	8·7	55	..	1·5	..	1·4	0	0	12	2	3	1	0	0	1	0	5	16	0
	1730	,,	1010·3	970·9	..	24·7	14·7	3·5	7.9	27	..	1·4	..	8·9	0	0	28	11	3	1	1	0	2	2	8	0	0
Udaipur	0230	582	1014·5	946·9	..	11.1	7·4	2·9	7.5	59	..	1·2	..	0·2	0	0	1	0	0	0	0	0	0	0	1	27	0
	0530	,,	1014·6	946·7	..	9·9	6·7	2·6	7·4	61	..	1·3	..	0·3	0	0	3	1	0	0	0	0	0	1	1	25	0
	0830	,,	1015·8	948·6	—1·0	13·4	8·5	3·5	7·8	49	—1	1·0	—0.4	1.1	0	0	8	2	0	1	0	0	1	1	3	20	0
	1130	,,	1014·4	949·1	..	21·6	11·9	1·4	6·7	22	..	0·8	..	4·9	0	1	22	3	5	5	0	2	4	2	2	5	0
	1730	,,	1009·9	945·4	..	24·0	12·8	0·6	6·4	23	..	0·8	..	4·1	0	0	21	0	4	5	0	1	5	3	3	7	0
	2330	,,	1014·6	947·6	..	13·6	8·6	2·8	7.5	49	..	1·0	..	1·1	0	0	5	0	0	0	0	0	0	2	3	23	0
Jhalawar	0830	321	1014·9	977·4	0·5	14·5	9·7	4·3	8·3	51	—1	1·1	—0.4	1.5	0	0	14	5	1	1	2	1	0	0	4	14	0
	1730	,,	1010·3	974·4	..	25·9	13·4	0.1	6·1	20	..	1.1	..	5.0	0	0	28	5	4	0	0	1	2	7	9	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1013·3	988·7	..	11·7	9·5	7.1	10·1	75	..	2·1	..	2·6	0	0	16	1	1	0	4	3	3	0	4	12	0
	0530	,,	1013·2	988·4	..	10·3	8·6	6.6	9·9	79	..	2·3	..	2·0	0	0	17	3	1	0	7	1	4	1	0	11	0
	0830	,,	1014·8	990 6	1·0	14·9	10·5	6.3	9·2	61	+5	2·5	+0.8	5·6	0	1	18	1	1	1	1	1	5	4	5	9	0
	1130	,,	1015·0	991·1	..	20 5	12·7	0·8	7·5	38	..	1·7	..	11·6	0	7	20	7	5	0	2	1	1	2	9	1	0
	1730	,,	1011·3	987·6	..	21·8	13·2	3·7	8.3	35	..	1·7	..	10·1	0	0	27	11	4	2	0	0	0	2	8	1	0
	2330	,,	1014 0	989·5	..	12·9	10·2	7·3	10·0	70	..	1·5	..	2·2	0	0	14	0	0	3	3	3	1	1	3	14	0
Sheopuri	0830	235	1015·4	987·6	—0.1	13·4	10·0	5·9	9.5	62	+4	1·8	—0·2	3·5	0	0	18	5	2	1	5	3	1	0	1	10	0
	1730	,,	1011·1	984·4	..	24·1	13·6	1.3	7.4	27	..	1.4	..	9·4	0	0	25	7	2	1	0	1	2	4	8	3	0
Shivpur	0830	464	1015·1	961·3	..	14·8	11·6	8.8	11·1	68	..	1.5	—0·5	6·1	0	2	23	2	4	2	0	8	3	1	5	3	0
	1730	,,	1010·1	958·0	..	22·6	19·3	17·0	19·8	71	..	1.1	..	8·2	0	1	26	2	3	1	0	0	·1	9	11	1	0
Nowgong	0830	229	1015·3	988·3	—0·6	13·1	10·6	7.9	10·8	72	+6	1.9	—0·2	3·2	0	0	22	0	1	3	0	4	12	2	0	6	0
	1730	,,	1011·2	985·2	..	23·3	14·4	5·0	9·3	34	..	1·6	..	5·5	0	0	25	1	8	0	0	0	0	2	14	3	0
Guna	0530	478	1013·6	957·5	..	10·2	7.2	3·4	8·0	64	..	2·2	..	2.2	0	0	19	2	2	4	6	4	0	1	0	9	0
	0830	,,	1015·1	959·8	—0·6	15·4	9·8	3·4	8·1	48	—9	1·9	+0.7	3.8	0	0	22	2	4	8	1	4	0	3	0	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Temperature from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.ph.): 62 or more	Wind speed (Km.ph.): 20 to 61	Wind speed (Km.ph.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Guna—*Contd.*	1130	478	1014·1	960·1	..	23·0	12·0	0·6	6·8	28	..	1·5	..	6·2	0	0	25	2	3	2	5	1	1	7	4	3	0
	1730	,,	1010·1	956·6	..	23·7	12·5	−0·4	6·5	23	..	1·5	..	9·4	0	0	26	3	1	2	1	0	0	5	13	2	0
	2330	,,	1014·0	958·4	..	13·5	8·8	3·3	8·0	55	..	0·9	..	1·7	0	0	11	0	2	1	5	0	1	2	0	17	0
Nimach	0830	496	1015·6	958·2	−0·7	14·6	8·1	−0·9	6·2	38	−9	1·4	0	4·4	0	0	23	5	10	3	2	0	1	1	1	5	0
	1730	,,	1010·7	955·5	..	24·7	12·3	−2·6	6·0	18	..	1·3	..	9·4	0	2	26	6	10	0	0	1	1	7	3	0	0
Rajgarh	0830	382	1014·8	970·2	..	13·7	8·8	2·5	7·6	49	..	1·3	..	4·8	0	0	21	3	1	0	5	3	0	8	1	7	0
	1730	,,	1009·4	966·8	..	25·9	14·4	1·7	7·4	23	..	1·3	..	7·6	0	0	24	6	1	0	2	0	0	9	6	4	0
Sagar	0830	551	1014·4	951·3	−1·0	16·0	10·4	4·1	8·7	49	+3	1·5	−0·1	5·1	0	0	25	0	7	8	1	0	2	4	3	3	0
	1730	,,	1009·7	948·4	..	23·4	14·3	6·0	9·6	35	..	1·3	..	4·2	0	0	23	1	3	4	1	0	0	6	8	5	0
Ratlam	0830	486	1015·0	958·8	−0·4	15·1	9·9	4·2	8·9	50	0	1·4	−0·1	6·8	0	0	17	4	8	3	0	0	1	1	0	11	0
	1730	,,	1009·7	955·8	..	26·6	16·6	8·4	11·6	35	..	1·1	..	6·1	0	0	25	3	7	1	1	0	4	5	4	3	0
Bhopal (Bairagarh)	0233	523	1013·0	952·5	..	13·6	8·7	2·7	7·7	51	..	1·0	..	7·1	0	0	24	4	10	2	1	2	1	2	2	4	0
	0530	,,	1013·3	952·5	..	12·1	7·9	2·7	7·6	55	..	1·3	..	7·2	0	0	27	4	11	2	0	2	3	1	4	1	0
	0830	,,	1014·8	954·7	−0·8	16·1	9·7	2·1	7·5	43	−5	1·6	+0·1	8·7	0	1	25	1	9	5	3	3	1	2	2	2	0
	1130	,,	1013·5	954·9	..	22·9	12·5	1·2	7·0	27	..	1·4	..	12·7	0	2	26	4	7	4	3	1	2	1	6	0	0
	1730	,,	1009·4	951·5	..	25·0	13·3	0·4	6·9	25	..	1·5	..	12·4	0	2	25	13	6	0	0	0	1	2	5	1	0
	2330	,,	1013·4	953·4	..	16·1	9·7	2·1	7·5	42	..	1·1	..	7·9	0	2	21	4	10	2	1	1	2	1	2	5	0
Ujjain	0830	,,	..	..	..	14·2	8·6	2·0	7·2	45	..	..	..	3·4	0	0	14	2	4	3	1	1	1	1	1	14	0
Hoshangabad	0830	302	1014·5	979·2	−1·3	15·7	11·0	5·8	9·4	53	+2	2·1	+1·7	4·6	0	0	23	1	8	8	2	3	1	0	0	5	0
	1730	,,	1009·2	975·5	..	27·3	16·0	5·2	9·1	25	..	1·7	..	5·1	0	0	23	4	3	2	2	2	4	2	4	5	0
Indore	0530	567	1013·3	947·6	..	11·7	7·1	0·8	6·6	49	..	1·3	..	7·8	0	0	25	2	9	3	0	3	5	2	1	3	0
	0830	,,	1014·7	949·7	−1·0	15·4	9·2	1·5	7·2	42	−4	1·3	0	5·8	0	0	21	1	11	0	0	2	3	2	2	7	0
	1130	,,	1013·3	950·1	..	23·6	13·2	2·5	7·6	27	..	1·0	..	11·5	0	4	23	2	8	4	1	2	3	4	2	1	1
	1730	,,	1008·9	946·4	..	26·0	13·8	1·1	6·9	21	..	1·1	..	14·7	0	4	23	6	6	1	0	1	1	6	6	1	0
	2330	,,	1013·4	948·6	..	16·3	9·2	0·4	6·6	36	..	0·6	..	6·4	0	0	22	2	7	0	2	0	3	3	5	6	0
Rajpur	0830	293	1015·1	981·0	..	16·3	11·0	4·5	8·9	48	..	1·0	..	2·6	0	0	17	1	3	7	0	0	2	3	1	11	0
	1730	,,	1009·7	976·8	..	27·5	15·3	1·0	7·5	22	..	0·9	..	8·1	0	0	28	3	2	2	0	1	2	13	5	0	0
Chhindwara	0830	685	1014·1	936·5	−0·8	16·8	10·8	4·3	8·9	46	−7	2·0	+0·7	2·9	0	0	13	2	8	2	0	0	0	0	1	15	0
	1730	,,	1008·2	933·1	..	25·0	14·0	3·1	8·0	27	..	2·1	..	7·1	0	0	26	6	5	1	1	3	1	3	6	2	0
Seoni	0830	619	1015·0	944·7	−0·7	17·3	12·8	9·0	11·6	58	+5	2·7	+1·1	3·9	0	0	24	3	8	1	1	1	4	2	4	4	0
	1730	,,	1008·4	940·4	..	24·9	16·9	11·0	13·4	43	..	1·8	..	3·6	0	0	21	3	4	1	2	1	3	0	7	7	0
Betul	0830	653	1014·3	940·1	−0·4	16·7	9·9	2·1	7·3	40	−8	1·5	+0·2	2·4	0	0	19	1	3	4	7	0	1	2	1	9	0
	1730	,,	1008·1	936·7	..	26·3	13·7	0·1	6·4	20	..	1·9	..	8·4	0	0	28	6	6	1	0	0	4	4	7	0	0
Khandwa	0830	318	1014·6	977·7	−0·6	17·2	10·7	2·5	8·2	39	−6	1·7	+0·6	2·0	0	0	17	2	7	0	0	2	1	2	3	11	0
	1730	,,	1008·9	973·6	..	28·6	15·9	2·7	8·9	21	..	1·5	..	5·4	0	0	26	5	3	1	0	0	2	6	9	2	0
Madhya Pradesh (East)																											
Satna	0530	317	1013·1	975·6	..	11·1	8·8	6·1	9·5	73	..	2·6	..	2·7	0	0	20	0	0	4	0	0	3	10	3	8	0
	0830	,,	1014·7	977·6	−1·0	15·2	11·0	6·1	9·9	58	−1	1·9	0	2·6	0	0	21	0	0	3	1	1	3	12	1	7	0
	1130	,,	1014·0	977·8	..	21·6	13·4	4·1	8·9	36	..	2·4	..	8·7	0	0	28	3	1	4	1	1	2	11	5	0	0
	1730	,,	1010·3	974·4	..	23·0	13·9	4·0	8·9	34	..	2·3	..	5·5	0	0	28	6	1	6	0	0	0	7	8	0	0
	2330	,,	1013·4	976·3	..	14·2	10·6	6·5	9·9	62	..	1·3	..	2·5	0	0	18	0	0	4	0	0	2	12	0	10	0
Sidhi	0830	272	1014·5	982·8	..	15·3	12·0	8·6	11·4	66	..	1·6	..	0·2	0	0	2	0	0	0	0	0	2	0	0	26	0
	1730	,,	1009·3	979·0	..	22·6	14·8	7·1	10·6	41	..	1·7	..	2·5	0	0	21	5	4	2	0	0	0	3	7	7	0
Umaria	0830	459	1014·4	961·7	..	16·1	11·5	7·0	10·3	58	−4	2·3	+0·2	2·4	0	0	17	1	2	3	7	1	0	2	1	11	0
	1730	,,	1009·6	958·2	..	23·7	14·6	6·7	10·3	36	..	1·6	..	3·2	0	0	26	6	3	1	0	0	0	7	9	2	0
Jabalpur	0530	393	1013·2	967·0	..	11·1	9·6	7·9	10·7	81	..	1·5	..	1·0	0	0		1	0	0	6	1	0	0	0	20	0
	0830	,,	1014·9	969·2	−0·6	15·1	11·2	7·1	10·2	61	+1	1·8	+0·2	2·7	0	0	13	2	2	0	6	1	0	2	0	15	0
	1130	,,	1013·5	969·1	..	23·0	14·5	5·9	9·6	36	..	1·5	..	5·1	0	0	24	4	5	1	5	4	2	3	0	4	0
	1730	,,	1009·6	965·7	..	24·9	15·8	7·3	10·3	35	..	1·6	..	4·9	0	0	25	12	7	1	2	0	0	1	2	3	0
	2330	,,	1013·2	967·7	..	15·0	11·8	8·5	11·3	67	..	0·6	..	3·5	0	0	13	2	3	3	3	2	0	0	0	15	0
Ambikapur	0830	611	1015·0	944·8	−1·0	14·3	11·4	8·8	11·3	71	+6	2·4	+1·3	5·1	0	1	16	2	6	0	0	5	3	1	0	11	0
	1730	,,	1009·6	941·6	..	21·8	14·3	7·3	10·8	44	..	2·3	..	8·3	0	0	28	14	3	0	1	0	1	4	5	0	0
Pendra	0530	625	1013·0	941·1	..	13·1	9·5	5·5	9·3	63	..	(d) 2·0	..	(d) 4·1	0	0	22	5	2	0	0	2	4	2	7	5	0
	0830	,,	1014·3	943·3	−1·4	16·7	11·4	6·0	9·7	53	−6	1·9	0	5·0	0	0	25	12	1	0	0	3	2	1	6	3	0
	1130	,,	1013·1	943·2	..	21·5	13·3	5·3	9·3	39	..	2·4	..	8·9	0	1	26	10	3	1	0	4	3	1	5	1	0
	1730	,,	1009·4	940·1	..	22·7	13·8	5·0	8·8	37	..	2·5	..	6·2	0	0	26	15	3	0	0	2	2	1	3	2	0
	2330	,,	1013·2	942·1	..	15·4	10·9	6·1	9·8	57	..	1·0	..	4·5	0	0	23	3	0	0	0	2	4	3	11	5	0

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C.: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh West—*Contd.*																											
Mandla	0830	443	1015·2	963·9	−0.6	14·4	11.5	8·5	11.7	69	−5	1·7	+0.1	0·6	0	0	3	2	0	0	0	1	0	0	0	25	0
	1730	"	1009·3	960·0	..	24·6	14.7	3·8	8·8	31	..	1·8	..	4·2	0	0	18	11	0	0	1	0	0	0	6	10	0
Champa	0830	245	1014·2	985·7	−0.6	17·2	13.3	9·7	12·1	65	+6	3·1	+1.6	3·6	0	0	22	16	3	1	2	0	0	0	0	6	0
	1730	"	1009·8	982·2	..	25·5	16·4	7·0	11·7	38	..	2·4	..	3·2	0	0	21	14	0	2	0	1	0	4	0	7	0
Raigarh	0830	220	1013·9	988·3	−0·8	18·0	14·2	10·7	13·0	64	+11	2·9	+1.6	3·4	0	0	21	1	15	3	2	0	0	0	0	7	0
	730	"	1009·3	984·6	..	25·4	16·8	9·1	11·1	49	..	2·6	..	2·7	0	0	18	7	7	1	1	1	0	0	1	10	0
Raipur	530	298	1012·0	977·3	..	16·0	13·1	10·4	12·8	71	..	2.5	..	2·4	0	0	18	1	8	1	0	1	3	1	3	10	0
	0830	"	1014·3	979·9	−0.7	18·8	14·0	9·4	12·5	58	+2	2.9	+1.3	3·7	0	0	20	3	8	1	2	3	2	0	1	8	0
	1130	"	1013·4	979·6	..	24·4	15·6	6·8	10·5	38	..	2·9	..	5.6	0	0	22	3	7	1	1	1	3	4	2	6	0
	1730	"	1008·9	975.9	..	26·4	16.8	7.0	11.4	36	..	2·5	..	3·4	0	0	14	5	1	1	0	2	2	2	1	14	0
	2330	"	1012·3	978·0	..	19·6	14.5	9.5	12.4	56	..	1·5	..	5·7	0	0	21	4	4	3	1	5	1	1	2	7	0
Kanker	0830	402	1013·8	967 9	−0.8	18·7	15·7	13·2	15·5	71	+3	2·5	+0.7	0.5	0	0	5	4	0	0	0	0	1	0	0	23	0
	1730	"	1008·8	964·3	..	26·5	19·3	13·7	16·5	50	..	2·0	..	2.4	0	0	21	4	5	0	0	0	2	5	5	7	0
Jagdalpur	0530	553	1011·8	948·7	..	15·8	14·0	13·0	15.1	86	..	1·1	..	1.3	0	0	7	0	2	0	3	1	0	0	1	21	0
	0830	"	1013·4	951·7	−0·6	19·3	15.7	13·3	14·2	69	−2	2.6	+1.0	2.2	0	0	13	1	2	1	2	2	3	0	2	15	0
	1130	"	1011·4	950·5	..	25·9	17.5	11·5	13·9	43	..	2·6	..	5·3	0	1	23	3	7	0	4	3	3	2	2	4	0
	1730	"	1007·6	947·3	..	27.1	18·2	11.9	14·4	42	..	3·5	..	5·5	0	0	23	4	4	2	0	4	5	2	2	5	0
	2330	"	1011·9	949·6	..	18·9	15·8	13.7	15·8	73	..	0·9	..	1.4	0	0	8	1	2	2	0	2	0	0	1	20	0
Gujarat																											
Deesa	0830	136	1015·0	998·8	−0.3	14·3	9·1	2·0	7·1	45	..	1·1	..	2·8	0	0	20	3	10	2	2	2	0	0	1	8	0
	1730	.	1010·9	995·5	..	27·4	14·5	−0·5	5·9	18	..	0.7	..	3·5	0	0	26	2	7	0	1	1	2	7	6	2	0
Radhanpur	0830	30	1014·7	1011.1	..	15.1	11·2	6.2	9·7	57	..	1·0	..	5.6	0	0	24	9	3	8	0	1	0	1	2	4	0
	1730	"	1011.5	1008·1	..	27·6	16·4	5.8	9·5	27	..	0·7	..	8.3	0	0	24	7	1	2	0	0	1	6	7	4	0
Idar	0830	219	1014·3	988·9	..	18·6	11·0	0·6	6·4	36	..	1.3	..	3.5	0	0	18	3	13	2	0	0	0	0	0	10	0
	1730	"	1010·2	985·6	..	27·3	14·7	0·2	6·2	19	..	0·8	..	6·2	0	0	25	1	1	2	0	0	1	19	1	3	0
Ahmadabad	0230	55	1012·5	1006.1	..	16·1	10·2	2·7	7·4	44	..	0·9	..	10·2	0	0	27	7	4	1	0	0	1	2	12	1	0
	0530	"	1012·3	1005·8	..	14·0	9·3	2·9	7·5	49	..	0·9	..	9·5	0	0	25	8	4	4	0	2	0	0	7	3	0
	0830	"	1014·4	1007·9	−0.7	16·2	10.4	2·5	7·8	43	−13	1·2	0	10·6	0	3	21	5	4	7	0	0	1	1	6	4	0
	1130	"	1014·9	1008·5	..	25·3	14.3	1.2	6·7	24	..	1.0	..	18·3	0	8	20	6	3	8	2	0	2	0	7	0	0
	1730	"	1010·8	1004·5	..	28·5	15·1	−0.6	5·8	18	..	0.8	..	15·3	0	6	21	6	2	2	1	0	0		12	1	0
	2330	"	1013·2	1006·7	..	18·4	11·3	2.7	7·4	37	..	0·6	..	9·5	0	0	25	7	2	0	0	0	2	1	13	3	0
Dohad	0830	333	1014·4	975·8	−0.7	16.5	9·6	−0·9	5·7	33	−16	1.3	+0·2	6·7	0	0	26	2	5	7	2	5	1	4	0	2	0
	1730	"	1009·4	972·3	..	27.8	14.1	−4.8	4·1	14	..	0·6	..	10·9	0	2	26	4	6	2	0	0	2	5	9	0	0
Baroda Aerodrome	0830	38	1014·2	1009·7	..	16·5	10·7	3·3	7·7	34	..	1·6	..	4·7	0	0	21	7	2	4	3	1	0	0	4	7	0
	1130	"	1014·5	1010·2	..	26.2	15.3	3·1	7·6	27	..	1·6	..	11·0	0	4	21	3	5	6	1	1	1		6	3	0
	1730	"	1010·2	1005·9	..	29.0	15·7	0.1	6·1	20	..	1.4	..	8·5	0	0	27	6	2	1	0	0	1	6	11	1	0
Baroda	0530	34	1012·2	1008·0	..	13·7	10.3	6.1	9.4	62	..	1.1	..	..	..	.	..	0	8	0	0	2	0	0	3	15	0
	0830	"	1014·5	1010·3	+0.2	14·0	10·4	6.1	9·4	61	−1	1·2	+0.3	..	..	..	..	3	7	0	1	3	0	0	1	13	0
	1130	"	1014·8	1010·8	..	26·9	16·0	4.7	8.5	28	..	1·0	..	..	..	..	..	0	14	3	2	0	1	2	2	4	0
	1730	"	1010·4	1006·5	..	29·4	16·6	3·5	7·9	22	..	0·8	..	..	..	..	..	2	8	1	0	0	1	1	7	8	0
	2330	"	1013·0	1008·9	..	18·3	12.8	7·0	10.0	49	..	0·6	..	..	..	..	..	2	2	1	0	0	1	2	8	12	0
Broach	0830	17	1013·5	1011.4	−0.2	15·8	10·9	5.1	8·8	52	−4	1·2	+0·3	4·7	0	0	26	2	9	4	1	1	4	0	5	2	0
	1730	"	1009·8	1007·8	..	30·3	16·6	1.6	6·9	21	..	0.7	..	10·2	0	0	28	1	13	1	0	0	5	1	7	0	0
Surat	0530	12	1011.8	1010.4	..	16·6	12·6	8.5	11·1	62	..	0.9	..	(j) 5·9	0	0	18	6	4	0	0	1	3	0	4	3	0
	0830	"	(j) 1013·9	(j) 1012.5	−0.5	17·4	12·8	8·6	11·2	55	−5	1·0	0	(d) 4·4	0	0	23	11	6	1	2	1	1	0	1	4	0
	1130	"	1014·4	1013·0	..	27·0	16·7	4.3	8.3	31	..	1.4	..	11·8	0	3	25	7	7	5	0	2	0	1	6	0	0
	1730	"	1010·3	1009·0	..	28·0	17·1	7.3	10·2	26	..	0.8	..	10·3	0	0	26	2	4	0	0	0	2	1	17	2	0
	2330	"	1012·7	1011.3	..	19 9	14·9	9.4	11.8	56	..	0·4	..	4·9	0	0	25	15	3	1	0	1	1	0	4	3	0
Saurashtra and Kutch																											
Bhatakia Bhimasar	0830	47	1014·0	1008·4	..	16·2	13·5	10.6	12.8	72	..	1·0	..	17·2	0	7	21	10	6	0	0	1	1	2	8	0	0
	1730	"	1011·5	1006·1	..	27·2	19·2	13.4	15·4	44	..	0·3	..	16.7	0	7	21	8	4	1	0	1	1	3	10	0	0
Naliya	0830	21	1015·3	1012·7	..	13·9	12·3	10.4	12·6	81	..	1·7	..	6.0	0	0	24	3	14	2	0	1	0	1	3	4	0
	1730	"	1012·2	1009·7	..	25·6	16·8	9.2	11·6	38	..	0·9	..	12·5	0	3	25	4	5	1	0	0	5	9	4	0	0
Bhuj (Rudramala)	0230	80	1013·5	1004·0	..	16·5	13·9	11.5	13·6	73	..	0·5	..	3·3	0	0	12	4	1	0	0	0	3	3	1	16	0
	0530	"	1013.2	1003·6	..	14·3	12·8	11·3	13.4	83	..	0·8	..	3·9	0	0	14	3	0	0	0	0	3	5	3	14	0
	0830	"	1015·2	1005·7	+0·2	15·4	13·1	10.8	12.9	76	+28	1·2	0	3.7	0	1	10	4	0	0	0	0	3	2	2	17	0
	1130	"	1015·7	1006·4	..	22·7	16·8	12.1	14·1	53	..	0·9	..	12.8	0	5	22	8	8	5	2	0	0	0	4	1	0
	1730	"	1011·6	1002·4	..	27·0	18·5	12.1	14·1	42	..	0·9	..	14·4	0	8	18	9	7	0	0	0	0	2	8	2	0
	2330		1014·2	1004·8	..	18·9	15·1	11.9	13.9	65	..	0·6	..	5·8	0	1	6	4	1	0	0	0	4	6	2	11	0

(j) Mean of 21 days.

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Octas): Mean amount	Cloud amount (Octas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Kandla*	0830	35	1014·7	1010·7	..	18·1	13·5	8.7	11.2	57	..	0·3	..	7·9	0	1	12	5	1	0	0	0	0	0	7	5	0
	1130	,,	1015 5	1011.5	..	25·8	16·1	6·9	9·9	32	..	0·2	..	12.2	0	1	17	6	4	4	0	0	0	0	4	0	0
	1730	,,	1011·2	1007·2	..	28·9	17·1	6·1	9.4	26	..	0·4	..	14·1	0	2	16	6	1	3	1	3	1	1	2	0	0
New Kandla	0830	14	1015.4	1013·7	..	17·4	13·2	8.4	11·0	59	..	1·5	..	10.1	0	3	24	12	1	1	1	1	0	2	9	1	0
	1730	,,	1012·2	1010·6	..	25·4	16·1	6.7	9·8	34	..	0·9	..	17.7	0	10	18	6	5	1	1	3	7	3	2	0	0
Mandvi	0830	9	1014·9	1013·8	−0.1	16.7	13·3	9·7	12·0	67	−2	1·4	+0.4	14·0	0	5	22	4	14	1	0	1	0	0	7	1	0
	1730	,,	1012·4	1011·3	..	23·2	17·6	12.4	14·4	56	..	0·9	..	28·9	0	19	9	0	2	0	1	2	18	2	2	0	1
Surendranagar	0830	74	1014·6	1005·9	+0·2	17.1	13·4	10.0	12·3	65	+11	1·3	+0.1	6·9	0	0	25	4	4	1	1	0	1	4	10	3	0
	1730	,,	1010·8	1002·4	..	28·1	19·3	12·1	15·3	39	..	0·8	..	9.6	0	1	27	4	6	0	0	0	2	5	11	0	0
Jamnagar Aerodrome	0530	23	1012·7	1010·0	..	15·1	12·5	9·3	11.7	71	..	0·9	..	10·5	0	1	27	3	2	5	2	3	3	8	2	0	0
	0830	,,	1014.7	1012.0	−0·7	16·6	13·2	9·5	11·9	66	+10	1·7	+0.5	11·2	0	2	25	2	8	3	2	3	3	5	1	1	0
	1130	,,	1015·6	1013·0	..	23·8	15·7	7·5	10·4	39	..	0·9	..	19.9	0	13	15	9	11	2	0	0	0	4	2	0	0
	1730	,,	1011·6	1009·0	..	25.7	16·5	7·5	10·4	35	..	1·0	..	24.5	0	19	9	9	6	0	0	0	0	7	6	0	0
	2330	,,	1014·0	1011·5	..	18·9	15·8	13·0	15·0	70	..	0·9	..	14·7	0	5	22	4	4	0	0	0	3	13	3	1	0
Dwarka	0830	11	1015·1	1013·8	−0·2	18·6	..	..	..	..	..	1.0	−0.8	12.3	0	2	26	9	8	4	1	0	0	3	3	0	0
	1730	,,	1012·5	1011·2	..	23·6	..	..	..	..	..	0·5	..	18·3	0	6	22	9	2	1	0	0	0	5	11	0	0
Rajkot	0830	138	1014·8	998.6	−0·2	15·8	12·9	9·6	11·9	70	+14	1·3	+0.1	5·1	0	0	15	2	4	3	0	0	2	3	1	13	0
	1130	,,	1012·1	999·3	..	24·3	17·4	11·6	13·7	47	..	0·5	..	20·2	0	13	15	8	8	3	0	0	1	1	7	0	0
	1730	,,	1010·8	995·3	..	28·0	18·5	10·7	12·9	37	..	0·2	..	23·1	0	18	10	10	5	0	1	0	0	6	6	0	0
Bhavnagar Aerodrome	0830	11	1014·4	1013·1	..	17·2	12·3	7·0	10·0	54	..	0·9	..	11·3	0	2	23	5	3	0	1	1	0	4	11	3	0
	1130	,,	1015·1	1013·9	..	24·2	16·4	9·6	11.9	42	..	0·9	..	17·7	0	9	19	8	17	2	0	0	1	0	0	0	0
	1730	,,	1010 8	1009·6	..	27·4	17.6	9·1	11·5	35	..	0·9	..	17·7	0	9	19	1	10	9	6	0	1	1	0	0	0
Bhavnagar	0830	17	1014·9	1012·9	0	17·3	12·8	8.0	10·7	56	+10	1·0	−0.3	3·5	0	0	26	0	0	0	0	0	2	7	17	2	0
	1730	,,	1010·8	1008·9	..	28·3	17·9	8·8	11·3	34	..	0·9	..	9·6	0	1	26	5	8	11	1	0	0	0	2	1	0
Porbander Aerodrome	0830	7	1014·7	1013·9	..	18·4	15·6	13·2	15·2	74	..	1·1	..	10·1	0	5	18	8	4	0	3	1	2	0	5	5	0
	1130	,,	1015 3	1014·5	..	26·2	18·6	12·3	14·3	46	..	0·7	..	15·6	0	6	20	8	6	3	0	0	0	2	7	2	0
	1730	,,	1011·4	1010·6	..	26·5	19·9	15·5	17·6	53	..	0·7	..	23.6	0	18	10	5	2	1	0	0	0	18	2	0	0
Porbander	0830	7	1014·7	1013·9	+0.3	17·6	14·1	10·8	12·9	69	−1	2·5	+1.4	5·3	0	0	28	11	7	3	1	0	0	1	5	0	0
	1730	,,	1011·8	1011·0	..	25·6	18·5	12·8	14·8	49	..	1·6	..	19.2	0	8	20	4	1	0	0	0	2	13	8	0	0
Keshod	0830	51	1015·0	1008·9	..	15·8	11·6	6·1	9·4	58	..	0·8	..	11.5	0	1	26	4	11	9	0	1	1	0	0	1	1
	1130	,,	1015·2	1009·3	..	25·6	15·5	4·4	8·4	30	..	0·7	..	21.7	0	15	13	11	10	3	0	0	1	1	2	0	0
	1730	,,	1011·1	1005·3	..	29·3	16·8	2·9	7·5	23	..	0·5	..	23·5	0	19	9	8	3	1	0	0	1	10	5	0	0
Mahuva	0830	9	1013·7	1012·6	..	18·5	13·0	6·8	9·9	49	..	1·5	..	9·3	0	0	25	14	4	0	0	1	1	0	5	3	0
	1730	.	1010·4	1009·3	..	26·7	17·9	10·0	12·3	40	..	1·0	..	12·5	0	2	26	3	3	6	10	4	2	0	0	0	0
Veraval	0230	8	1012·7	1011·8	..	17·0	13·7	10·1	12·3	67	..	0·6	..	12·5	0	3	23	17	4	0	0	0	0	1	4	2	0
	0530	,,	1012·1	1011·2	..	15·7	12·8	9·4	11·8	70	..	0·5	..	13·0	0	3	23	19	3	0	0	0	0	1	3	2	0
	0830	,,	1014·2	1013·3	−0.5	17·0	23·4	9·4	11·8	65	+9	1·5	+0·4	13·9	0	4	24	14	10	1	0	0	0	1	2	0	0
	1130	,,	1014·9	1014·0	..	27·2	17·6	8·9	11·4	37	..	1·1	..	18·7	0	13	15	10	8	0	0	1	1	2	6	0	0
	1730	,,	1011·0	1010.1	..	24·6	20·5	17·9	20·5	68	..	0·9	..	22·9	0	16	12	1	1	0	0	2	3	10	11	0	0
	2330	,,	1013·5	1012.6	..	18·8	15·7	12·8	14·8	70	..	0·4	..	11·6	0	3	22	14	3	0	0	0	0	1	7	3	0
Konkan																											
Dahanu	0830	5	1013·2	1012.7	+0.2	19·9	14·3	8·8	11·3	51	−18	1·8	+0.7	6·5	0	0	26	4	5	10	7	0	0	0	0	2	0
	1730	,,	1010·5	1010.0	..	25·0	19·4	15 7	17·8	57	..	2·1	..	21·9	0	12	16	17	1	0	0	0	1	1	8	0	0
Bombay (Santacruz)	0230	15	1011·3	1009 6	..	19·0	15·9	13.3	15.3	72	..	0·3	..	4·8	0	1	19	10	4	2	1	0	0	0	3	8	0
	0530	..	1011·0	1009.3	..	17·7	15·1	12·8	14·8	74	..	0·5	..	4.0	0	1	14	6	3	4	0	1	0	0	1	13	0
	0830	,,	1013·0	1011·3	−1.1	20·7	15·9	11·7	13·7	59	−3	1·5	+0.5	4.3	0	0	16	2	6	7	1	0	0	0	0	12	0
	1130	,,	1013·4	1011·7	..	27·7	18·1	9·9	12·2	37	..	1·4	..	10·3	0	1	24	1	5	5	0	0	2	5	7	3	0
	1730	,,	1009·9	1008.3	..	26·4	19·1	14·1	16·1	47	..	1·9	..	16·8	0	3	25	4	0	0	0	0	1	1	22	0	0
	2330	,,	1012·3	1010 6	..	20·1	16·6	13·8	15·8	69	..	0·3	..	5·3	0	1	16	10	5	0	0	1	0	0	1	11	0
Bombay	0830	11	1013·0	1011·8	−1.0	20·8	17·4	14 6	16.6	70	−1	2·0	+1.0	5·6	0	0	24	8	8	4	2	0	0	0	2	4	0
	1130	,,	1013·4	1012 2	..	26·7	19.6	14.6	16·6	49	..	1·9	..	5·7	0	0	24	3	3	7	3	0	0	2	4	4	2
	1730	,,	1009·9	1008·7	..	25·9	20·4	17·1	19·5	59	..	2·1	..	12·5	0	2	25	5	1	0	0	0	0	0	21	1	0
Alibag	0830	7	1012·9	1012·1	−0.7	20·1	16·5	13·6	15·6	68	+1	0·4	−0.6	3.8	0	0	21	6	9	6	0	0	0	0	0	7	0
Harnai	0830	20	1012·3	1010·0	−0.2	23·0	18·5	15·6	17·7	63	+3	3.0	+1.7	(i) 7·6	0	2	21	9	3	4	0	1	0	1	1	9	0
	1730	,,	1009·3	1007·0	..	25·3	22·6	21.1	25·0	78	..	2·0	..	(i) 30·2	0	15	4	3	0	0	0	0	0	4	21	0	0
Ratnagiri	0830	35	1012·4	1008·3	−0.9	21·3	17 5	14·5	16·5	68	..	2.8	..	..	..	..	..	0	3	23	0	0	0	0	2	0	0
	1730	,,	1009·3	1005·3	..	27·5	21·5	18.0	20·6	57	..	2.5	..	..	..	..	..	0	1	1	0	0	0	17	9	0	0

*Observations for 18 days.

(i) Mean of 22 days.

(i) Mean of 19 days.

Division and station	Hours of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—*contd.*																											
Devgarh	0830	36	1012·2	1008.1	−0·4	22·3	19·2	17·0	19·4	73	+1	2·1	+0·5	9·5	0	2	26	2	11	15	0	0	0	0	0	0	0
	1730	"	1008·9	1004·9	..	27·7	23·3	21·0	24·9	68	..	1·9	..	29·7	0	25	3	2	0	0	0	0	0	2	24	0	0
Vengurla	0230	9	1010·6	1009.6	..	19·4	17·9	16·9	19·3	86	..	0·1	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	0530	"	1010·3	1009·3	..	18·5	17·3	16·4	18·6	87	..	0·3	..	1·3	0	0	7	7	0	0	0	0	0	0	0	21	0
	0830	"	1012·5	1011·5	−0.3	20·4	17·8	15·9	18·1	78	+2	1·6	+0·2	2·1	0	0	10	7	1	2	0	0	0	0	0	18	0
	1130	"	1012·6	1011·6	..	29·3	20·8	15·0	17·0	44	..	1·8	..	6.2	0	1	25	6	1	3	1	1	7	3	4	2	0
	1730	"	1009·1	1008·1	..	28·1	22·0	18·8	21·7	57	..	1·3	..	8·2	0	0	28	0	0	0	0	0	7	9	12	0	0
	2330	"	1011·9	1010.9	..	21.5	19.2	17.8	20.4	80	..	0·2	..	1·3	0	0	5	3	2	0	0	0	0	0	0	23	0
Madhya Maharashtra Nandurbar	0830	206	1014·3	990·5	..	20·8	12·9	3.6	7·9	36	..	0·1	..	8·2	0	0	27	0	2	8	1	0	5	11	0	1	0
	1730	"	1009·3	986·4	..	30·0	16·5	2·2	7·2	20	..	0·5	..	8·9	0	0	27	1	2	1	0	0	3	9	11	1	0
Jalgaon	0830	201	1014·3	990·8	−0.1	16·7	9·7	−0·2	6·0	34	−11	1·0	0	6·8	0	0	23	0	1	3	8	3	3	4	1	5	0
	1730	"	1008·7	986·3	..	31.2	15·9	−3.1	4·7	13	..	1·1	..	12·6	0	4	23	2	2	2	2	2	0	10	7	1	0
Malegaon	0830	437	1014.8	964.1	−0.9	14.3	8.2	−0.8	5.7	37	−8	0.6	−0.5	5.0	0	0	20	1	0	0	0	0	2	10	7	8	0
	1730	"	1007·4	959 6	..	30·7	15 6	−3.0	4.8	13	..	1.3	..	9.8	0	1	23	6	7	2	0	0	1	2	6	4	0
Dedlali Aerodrome	0830	5	1015·3	949·9	..	15·9	11·2	6·5	9·7	55	..	1·6	..	3·5	0	0	18	6	1	0	0	4	4	1	2	10	0
	1730	"	1008·6	946·4	..	29·0	17·2	7·6	10.4	28	..	1·5	..	11·7	0	0	27	1	3	1	1	0	8	6	8	0	0
Ahmednagar	0830	657	1014·6	939·7	−1.0	15·7	9·6	2·9	7·5	44	+4	1·9	+1·1	1·5	0	0	10	1	0	0	0	0	0	2	7	18	0
	1730	"	1006·4	935·9	..	30·7	16·0	3·3	7·7	18	..	1·7	..	3.0	0	0	19	8	2	0	0	0	3	1	5	9	0
Poona Aerodrome	0230	593	1012·6	944·7	..	16·0	11.1	5·9	9·3	53	..	0·1	..	3.0	0	0	14	0	0	0	0	0	0	9	5	14	0
	0530	"	1012·6	944·5	..	14·2	10·0	5·5	9·0	59	..	0.2	.	3·6	0	0	18	1	1	1	0	0	0	9	6	10	0
	0830	"	1014·1	946·6	..	16·9	11·4	4·9	8·7	47	..	1·8	..	3·8	0	0	19	2	1	4	0	0	0	8	4	9	0
	1130	"	1012·2	946·8	..	26·3	14·7	3·4	7·8	25	..	1·9	..	9·1	0	1	25	0	1	13	1	1	0	7	3	2	0
	1730	"	1007·5	942·8	..	29·4	15·1	−0·4	5·9	17	..	1·7	..	16·7	0		13	1	1	3	1	0	0	8	12	2	0
	2330	"	1012·7	945·8	..	18·9	12·6	6·1	9·7	44	..	0·5	..	6·2	0	0	23	1	0	1	0	0	1	14	6	5	0
Poona	0530	559	1012·6	948·1	..	13·2	10·5	8·0	10·7	71	..	0·6	..	0·6	0	0	2	0	0	0	0	0	2	0	0	26	0
	0830	"	1014·4	950·3	−1.0	15·2	11·6	8·4	11·0	64	+3	1·4	+0.6	0·6	0	0	4	0	0	0	1	0	3	0	0	24	0
	1130	"	1011·9	950·2	..	26·7	15·8	6·6	9.7	30	..	1·5	..	3·7	0	0	15	3	3	2	4	0	0	0	3	13	0
	1730	"	1006.9	946·3	..	30·0	17·1	6·9	9·9	25	..	1·6	..	0·4	0	0	13	0	0	0	0	0	1	5	7	15	0
	2330	"	1012.5	949·2	..	18·7	13·6	9·3	11·7	55	..	0·6	..	0·	0	0	4	0	0	0	0	0	1	3	0	24	0
Jeur	0830	521	1014·1	954·5	−0·4	16·3	10·1	3·0	7·6	42	−5	2·5	+1·5	2·1	0	0	10	1	2	0	0	0	0	3	4	18	0
	1730	"	1006·4	950·0	..	31·6	16·8	3·9	8·1	19	..	0·3	..	8·4	0	0	26	5	2	2	1	1	0	4	11	2	0
Baramati	0830	551	1014·2	951·3	−0.6	16.4	11·6	7·1	10·1	55	+6	1·3	+0·6	4·8	0	0	24	4	1	0	0	1	0	5	13	4	0
	1730	"	1006·6	947·1	..	31·3	18·1	8·5	11·1	25	..	1·8	..	10·7	0	2	25	3	4	4	0	2	2	6	6	1	0
Sholapur	0530	479	1011·4	956·7	..	17·4	11·3	5·3	8·9	45	..	1·9	..	5·5	0	0	24	9	6	3	0	0	0	2	4	4	0
	0830	"	1013·4	958·9	−1·1	19·1	12.2	5·6	9·1	42	+2	2·5	+1.6	6·4	0	1	20	6	5	1	2	0	1	0	6	7	0
	1130	"	1011·7	958·9	..	28·4	17·6	9·8	12·1	32	..	2·1	..	10·9	0	1	27	8	7	0	5	2	4	2	0	0	0
	1730	"	1006·5	954·7	..	32·6	18·7	8·7	11·2	23	..	2·3	..	6·1	0	0	22	5	4	0	0	0	6	1	6	6	0
	2330	"	1011·2	957·6	..	23·0	14·2	6·5	9·7	35	..	2·0	..	7·1	0	0	24	5	6	3	2	2	0	3	3	4	0
Miraj	0830	554	1013·6	950·7	−1·1	17·1	11·5	5·8	9·2	49	−9	2·3	+1·4	..	..	..	..	2	0	0	0	0	0	0	1	25	0
	1730	"	1006·1	946.5	..	32·0	16·6	3·3	7·7	17	..	2·4	..	..	..	..	..	9	0	1	1	0	1	6	1	9	0
Kolhapur	0530	570	1011·6	945·7	..	15·8	12·2	8·7	11.2	65	..	1·3	..	3·8	0	0	20	0	2	6	0	0	4	8	0	8	0
	0830	"	1013·3	948·8	−0.9	18·2	13·1	8·2	10·9	55	−4	1·8	+1·0	4·0	0	0	16	0	7	2	1	0	1	4	1	12	0
	1130	"	1011·1	948·7	..	27·9	16·2	6·2	9·5	27	..	1·9	..	12·4	0	1	27	2	11	5	4	0	0	5	1	0	0
	1730	"	1006·4	945.1	..	30·9	17·1	5·7	9·1	22	..	1·8	..	13·0	0	3	23	1	7	1	0	1	1	12	3	2	0
	2330	"	1011.6	947.7	..	20·5	14.9	10.3	12.5	53	..	1·2	..	8·0	0	0	27	0	3	1	0	0	7	14	2	1	0
Marathwada																											
Aurangabad	0830	581	1013.9	948·3	−1.2	19.8	11.5	2.5	7·3	33	−7	1·7	+	3·7	0	1	15	1	3	9	0	0	0	2	1	12	0
	1730	"	1007·6	944·6	..	29·7	15·3	1·4	6·8	17	..	1·9	..	7·8	0	1	22	3	1	0	0	0	2	8	9	5	0
Aurangabad (Chikalthan)	0230	579	1012·2	946·0	..	15·1	9·7	3·8	8·0	49	..	0·6	..	4·4	0	0	12	2	0	1	0	0	0	3	6	16	0
	0530	"	1012·7	945.9	..	12·8	8·3	2·7	7·4	52	..	0·5	..	4·2	0	0	12	1	0	0	0	0	0	3	8	16	0
	0830	"	1013·5	948·0	..	19·0	12·3	5.7	9·1	44	..	1·5	..	5·0	0	0	13	2	0	3	1	0	0	3	4	15	0
	1130	"	1012·0	948·2	..	26·3	16·7	9·2	11·6	37	..	1·2	..	11·3	0	2	21	0	1	7	1	3	0	5	6	5	0
	1730	"	1007·2	944·3	..	29·4	17·7	8·1	10·8	29	..	1·4	..	10·0	0	2	21	4	1	1	0	0	2	5	10	5	0
	2330	"	1012·8	946·9	..	17·0	10·6	3·8	8·0	43	..	0·6	..	4·1	0	0	10	1	0	0	0	0	0	2	7	18	0
Parbhani	0830	423	1014·0	965·6	+0·2	18·6	10·5	−0·2	6·1	30	−13	1·6	+0·5	7·1		0	27	3	5	1	2	0	2	6	8	1	0
	1730	"	1007·6	961·4	..	30·8	15.7	−2·2	5·3	14	..	1·5	..	9·9		1	27	6	7	3	0	0	0	4	8	0	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Nader	0830	358	1013·9	972·5	..	17·1	12·3	7·4	10·3	53	..	0	..	1·5	0	0	13	1	3	0	2	1	0	4	2	15	0
	1730	,,	1007·6	968·4	..	31·1	20·4	13·1	15·1	34	..	0	..	1·5	0	0	13	2	4	0	1	0	0	3	3	15	0
Bir	0830	519	1014·9	955·9	..	18·3	12·8	8·1	10·8	53	..	(d) 0·8	..	(d) 2·7	0	0	10	0	0	0	1	3	0	4	2	17	0
	1730	,,	1007·6	951·1	..	30·2	19·0	11·3	13·4	32	..	(d) 1·2	..	(d) 7·3	0	0	27	5	8	0	1	1	1	3	9	0	0
Vidarbha																											
Gondia	0830	313	1014·3	978·2	−0·6	17·5	13·1	8·9	11·5	59	−1	2·2	+0·9	1·3	0	0	9	1	3	0	2	0	0	0	3	19	0
	1730	,,	1009·7	974·6	..	27·2	16·0	4·9	9·3	28	..	2·0	..	2·3	0	0	21	6	4	0	0	3	2	0	5	7	1
Nagpur (Sonegaon)	0230	310	1011·5	975·5	..	16·2	11·5	6·1	9·6	54	..	1·3	..	6·0	0	0	26	12	5	0	0	0	0	3	6	2	0
	0530	,,	1011·9	975·7	..	14·5	10·6	6·0	9·6	59	..	1·4	..	5·5	0	0	25	10	3	1	2	0	0	0	9	3	0
	0830	,,	1014·1	978·3	−0·9	18·4	12·3	5·4	9·4	46	−6	2·3	+0·5	6·4	0	0	23	7	10	1	0	0	0	0	5	5	0
	1130	,,	1012·6	977·8	..	26·5	15·8	4·9	9·4	29	..	2·1	..	9·5	0	0	26	2	8	6	3	0	2	3	2	2	0
	1730	,,	1008·2	973·8	..	28·9	16·3	2·9	8·6	23	..	2·5	..	9·0	0	1	24	6	4	6	0	1	1	3	4	3	0
	2330	,,	1012·2	976·5	..	18·6	12·5	5·8	9·6	46	..	0·8	..	6·4	0	0	20	7	6	3	1	0	0	0	3	8	0
Amraoti	0830	370	1013·7	971·5	−0·3	20·7	12·9	4·5	8·6	36	−7	1·6	+0·2	10·7	0	0	25	0	14	6	0	1	4	0	0	3	0
	1730	,,	1007·5	966·7	..	29·4	16·3	3·2	8·0	21	..	1·7	..	6·1	0	0	28	4	2	2	1	5	5	6	3	0	0
Akola Aerodrome	0530	309	1011·5	975·5	..	14·9	8·5	−0·9	6·1	37	..	1·3	..	2·4	0	0	20	0	1	9	1	0	2	7	0	8	0
	2330	,,	1011·4	976·1	..	20·8	11·5	−1·2	7·0	25	..	0·4	..	2·7	0	0	18	1	5	5	3	0	0	1	3	10	0
Akola	0830	282	1014·0	981·2	−0·8	16·7	10·5	3·1	7·8	42	−2	1·9	+0·5	1·0	0	0	10	0	0	5	2	0	0	2	1	18	0
	1130	,,	1012·7	981·0	..	26·2	15·5	4·4	10·0	26	..	1·3	..	4·0	0	0	25	0	5	5	0	1	4	8	2	3	0
	1730	,,	1007·8	976·7	..	30·4	16·9	3·5	8·2	21	..	1·1	..	2·0	0	0	17	1	2	0	0	0	0	14	0	11	0
Bramhapuri	0830	229	1014·1	987·5	..	18·0	14·5	11·6	14·0	67	..	2·1	..	2·1	0	0	12	4	3	1	1	2	0	0	1	16	0
	1730	,,	1009·0	983·4	..	28·5	17·8	8·3	11·7	32	..	1·9	..	2·3	0	0	8	2	3	0	0	2	0	1	0	20	0
Buldana	0830	650	1013·5	940·1	−0·6	18·6	14·1	10·6	12·9	60	+17	1·0	+0·1	2·7	0	0	20	0	5	0	1	0	2	0	12	8	0
	1730	,,	1008·0	937·0	..	27·0	19·0	14·0	16·5	46	..	0·7	..	2·0	0	0	17	0	9	0	0	0	1	0	7	11	0
Yeotmal	0830	451	1013·7	962·3	−0·3	19·7	11·9	3·3	7·7	39	−3	1·8	+0·2	5·1	0	0	24	3	10	4	0	0	1	3	3	4	0
	1730	,,	1008·0	958·1	..	29·3	16·3	2·7	8·2	23	..	1·0	..	5·9	0	0	28	3	8	1	0	0	1	5	10	0	0
Chanda	0330	193	1013·5	991·2	−1·1	19·4	14·3	9·6	12·3	55	−2	2·8	+1·4	3·6	0	0	22	7	3	4	3	1	1	1	2	6	0
	1730	,,	1007·9	986·4	..	30·6	17·9	6·4	10·2	24	..	2·2	..	7·0	0	0	26	8	4	4	3	0	2	3	2	2	0
Pusad	0830	334	1014·6	975·6	..	19·6	13·1	6·0	9·9	41	..	0·3	..	1·8	0	0	10	0	1	0	0	0	1	0	8	18	0
	1730	,,	1007·9	971·3	..	32·2	17·7	5·0	8·6	19	..	0·3	..	6·3	0	0	27	0	7	0	1	0	12	0	7	1	0
Sironcha	0830	123	1013·6	999·3	−1·1	21·2	17·7	15·0	18·0	68	+3	2·9	+1·3	2·8	0	0	19	4	1	5	6	1	1	0	1	9	0
	1730	,,	1008·3	994·5	..	31·3	19·7	10·8	13·5	30	..	2·5	..	2·0	0	0	18	5	2	2	2	1	1	2	3	10	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1013·4	1012·7	−1·4	23·2	21·8	20·9	24·7	88	+9	2·4	+0·6	6·0	0	0	28	2	5	0	1	2	1	7	10	0	0
	1730	,,	1010·3	1009·5	..	26·1	24·3	23·4	28·8	86	..	2·4	..	17·0	0	8	20	0	8	3	2	12	2	1	0	0	0
Vishakhapatm	0230	3	1011·0	1010·6	..	22·2	20·5	19·4	22·5	85	..	2·1	..	2·2	0	0	11	1	1	1	1	1	3	1	2	17	0
	0530	,,	1010·9	1010·5	..	21·3	19·8	18·9	21·8	86	..	2·4	..	1·8	0	0	9	1	1	0	0	1	0	3	3	19	0
	0830	,,	1013·2	1012·8	−1·5	24·5	20·8	18·6	21·4	70	−7	3·1	+0·6	3·6	0	1	13	0	1	2	0	0	4	3	4	14	0
	1130	,,	1012·8	1012·4	..	28·6	21·4	16·8	19·1	51	.	3·6	..	11·3	0	6	20	1	4	3	1	6	8	1	2	2	0
	1730	,,	1010·0	1009·6	..	26.3	21·5	18·7	21·6	64	..	3·5	..	12·9	0	5	23	0	1	8	3	12	4	0	0	0	0
	2330	,,	1012·2	1011·8	..	23·2	21·0	19·7	22·9	81	..	2·4	..	2·9	0	0	13	1	1	2	1	1	5	2	0	15	0
Kakinada	0830	8	1013·5	1012·6	−1·2	26·4	22·6	20·6	24·3	71	−4	4·0	+1·4	11·4	0	4	23	0	24	0	1	0	2	0	0	1	0
	1730	,,	1009·8	1008·9	..	27·2	22·5	19·8	23·1	65	..	2·8	..	14·2	0	4	24	0	7	0	21	0	0	0	0	0	0
Nidadavole	0830	12	1013·2	1011·8	..	24·2	21·9	20·6	24·3	81	..	5·6	..	4·2	0	0	27	7	7	6	3	0	1	1	2	1	0
	1730	,,	1009·4	1008·0	..	27·5	22·4	19·5	22·7	63	..	4·2	..	9·1	0	1	27	0	0	5	9	14	0	0	0	0	0
Rentachintala	0830	106	1012·6	1000·5	..	24·7	22·2	20·5	24·1	81	+11	4·1	+1·2	2·6	0	0	26	2	1	4	4	8	5	2	0	2	0
	1730	,,	1007·7	995·2	..	32.4	26·4	22·1	26·6	65	..	3·8	..	3·0	0	0	28	11	1	4	1	6	0	4	1	0	0
Gannavaram	0230	24	1010·6	1007·8	..	22·2	20·9	20·1	23·5	88	..	2·5	..	4·1	0	0	16	2	6	3	2	2	1	0	0	12	0
	0530	,,	1010·7	1007·9	..	21·5	20·4	19·7	22·9	90	..	3·0	..	4·5	0	0	18	3	5	5	4	1	0	0	0	10	0
	0830	,,	1013.0	1010·3	−1·0	24·3	21·7	20·2	23·7	79	+1	3·7	+1·6	7·8	0	1	25	4	6	6	7	3	0	0	0	2	0
	1130	,,	1012·5	1009·8	..	29·2	22·7	19·1	22·1	55	..	4·5	..	12·8	0	4	24	1	4	3	5	12	2	1	0	0	0
	1730	,,	1009·0	1006·3	..	30·1	22·4	17·7	20·2	50	..	3·3	..	13·5	0	6	22	1	3	4	13	6	1	0	0	0	0
	2330	,,	1011·9	1009·1	..	23·2	21·4	20·4	24·0	85	..	2·2	..	3·9	0	0	17	0	4	5	3	3	1	1	0	11	0
Nagarjunakonda	0830	..	..	..	..	25·3	19·3	15·1	17·1	55	..	2·2	..	11·2	0	8	14	4	4	1	4	6	1	0	2	6	0
	1730	..	..	..	..	32·1	20·5	12·1	14·1	32	..	2·9	..	12·9	0	3	25	7	2	1	7	3	1	2	5	0	0
Masulipatam	0830	3	1012·9	1012.5	−1·8	25·1	22·3	20.9	24·7	78	−3	4·2	+2·1	3·6	0	0	25	3	4	0	0	17	0	0	1	3	0
	1730	,,	1009·6	1009·3	..	26·7	22·8	20·8	24·6	70	..	2·7	..	4·4	0	0	28	0	0	0	15	13	0	0	0	0	0
Ongole	0830	12	1012·6	1011·3	..	26·0	22·9	21·3	25·3	75	..	3·9	..	3·6	0	0	27	3	5	2	8	6	2	1	0	1	0
	1730	,,	1008·8	1007·5	..	27·4	23·9	21.8	26·1	71	..	4·1	..	4·1	0	0	24	0	6	3	13	2	0	0	0	4	0

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh —*contd.*																											
Nellore	0530	20	1010·0	1007·7	..	22·4	21·4	20·9	24·7	93	..	1·0	..	0·9	0	0	11	0	0	2	7	2	0	0	0	17	0
	0830	..	1012·5	1010·2	−1·7	25·2	22·4	20·9	24·7	77	−4	4·0	+1·6	2·9	0	0	27	1	1	1	12	4	1	0	7	1	0
	1130	,,	1012·1	1009·9	..	29·9	23·3	19·7	22·9	59	..	3·5	..	4·0	0	0	28	0	8	6	7	6	1	0	0	0	0
	1730	,,	1009·1	1006·9	..	28·3	23·0	20·1	23·5	62	..	4·3	..	3.8	0	0	28	0	8	6	12	0	1	0	1	0	0
	2330	,,	1011·4	1009·1	..	23·8	23·3	21·5	25·6	87	..	1·8	..	2·1	0	0	21	0	3	6	11	1	0	0	0	7	0
Telangana Ramagundam	0830	156	1012·8	994·9	−1·3	22·7	17·3	13·4	15·4	56	+2	3·5	+1·6	6·0	0	1	26	10	4	1	5	5	0	0	2	1	0
	1730	,,	1007·8	990·4	..	31·5	19·1	9·0	11·5	27	..	2·9	..	5·6	0	0	27	11	4	3	4	2	0	2	1	1	0
Nizamabad	0830	391	1012·9	969·8	−1·1	22·8	15·3	8·5	11·1	41	−13	1·1	−0·1	0·8	0	0	9	0	0	3	0	0	0	5	1	19	0
	1730	,,	1007·1	965·5	..	31·4	17·8	5·3	8·9	21	..	0·7	..	0·6	0	0	9	1	3	0	1	1	0	3	0	19	0
Hanamkonda	0830	269	1012·8	982·3	−1·7	22·9	18·2	14·6	16·6	61	−9	2·2	−0.3	3·1	0	0	22	4	2	0	5	9	2	0	0	6	0
	1730	..	1008·3	978·6	..	30·8	18·9	9·2	11·6	28	..	1·6	..	2·9	0	0	21	10	1	1	1	7	0	0	1	7	0
Hakimpet Aerodrome	0530	613	1010·7	941·8	..	18·8	18·6	11·2	13·3	63	..	2·1	..	6·6	0	1	25	2	5	1	10	3	3	1	1	2	0
	0830	..	1012·6	943·6	..	21·5	16·3	12·3	14·3	58	..	3·3	..	3·0	0	1	26	3	3	2	8	6	3	1	1	1	0
	1130	,,	1010·9	943·9	..	27·3	13·1	11·8	13·8	39	..	2·7	..	9·7	0	0	26	4	5	1	5	2	6	1	2	2	0
	1730	..	1007·4	941·0	..	29·2	18·2	10·5	12·7	33	..	2·9	..	11·1	0	3	24	5	8	3	3	3	1	1	3	1	0
Bhadrachallam	0830	111	1012·9	1000·2	−1·7	23·1	19·5	17·3	19·7	70	−3	4·3	+1·5	3·7	0	0	25	3	10	2	4	4	1	1	0	3	0
	1730	,,	1007·8	995·4	..	31·7	21·1	14·0	16·0	36	..	3·4	..	2·8	0	0	26	1	11	1	8	3	1	0	1	2	0
Hyderabad (Begampet)	0230	545	1010·8	949·1	..	18·3	14·3	10·9	13·0	63	..	1·6	..	3·8	0	0	13	2	3	4	3	0	0	0	1	15	0
	0530	,,	1010·9	949·1	..	17·1	13·4	10·2	12·4	65	..	1·5	..	4·1	0	1	14	3	4	3	2	2	0	0	1	13	0
	0830	,,	1012.7	951·5	−1·2	20·8	15·5	11·1	13·2	56	−10	3·2	+1·4	5·8	0	0	19	1	6	0	3	6	1	0	2	9	0
	1130	,,	1011.1	951·4	..	28·1	17·0	8·4	11·0	31	..	2·6	..	8·5	0	1	26	1	4	3	3	6	6	0	4	1	0
	1730	,,	1006·9	947·9	..	30·1	16·7	5·1	8·8	23	..	3·0	..	10·8	0	1	26	2	6	4	2	4	4	0	4	1	1
	2330	,,	1011·4	950·4	..	21·4	15·2	10·0	12·3	50	..	1·3	..	6·6	0	1	17	4	3	5	6	0	0	0	0	10	0
Khammam	0830	112	1012·8	1000·1	..	23·5	20·4	18·4	21·1	74	..	5·3	..	3·2	0	0	20	2	0	3	7	7	0	0	1	8	0
	1730	,,	1008·0	995·5	..	31·9	21·7	15·3	17·4	37	..	3·5	..	4·0	0	0	20	3	1	3	7	3	1	2	0	8	0
Mahabubnagar	0830	385	1012·1	955·6	..	23·3	16·1	10·5	12·7	46	..	3·0	..	4·5	0	0	21	0	7	1	2	5	4	0	2	7	0
	1730	,,	1006·5	951·8	..	31·2	17·7	7·1	10·1	24	..	2·6	..	4·5	0	0	25	2	6	3	3	3	6	1	1	3	0
Rayala Seema Kurnool	0830	281	1012·8	980·9	−0·9	22·7	16·8	12·1	14·1	52	−7	2·4	+1·3	2·5	0	0	16	0	2	4		3	3	2	1	12	0
	1730	,,	1007·0	976·3	..	33·4	19·4	8·3	10·9	22	..	2·0	..	2·2	0	0	18	0	1	8	2	0	2	5	0	10	0
Anantapur	0530	350	1009·9	970·2	..	21·2	16·5	12·5	14·5	60	..	2·4	..	4·6	0	0	19	1	2	8	3	3	2	0	0	9	0
	0830	,,	1012·2	972·7	−0·9	23·7	18·1	13·7	15·7	56	+2	2·7	+1·4	7·7	0	0	26	0	1	5	6	3	4	4	3	2	0
	1130	,,	1011·1	972·4	..	29·1	18·9	10·9	13·0	34		2·8	..	7·2	0	1	25	1	4	9	3	3	2	0	3	3	0
	1730	,,	1006·4	968·3	..	32·3	19·3	9·2	11·6	25		3·4	..	7·1	0	1	24	1	12	6	3	0	0	2	1	3	0
	2330	,,	1010·1	971·0	..	25·7	17·6	11·1	13·2	42	..	2·2	..	11·0	0	2	23	2	2	9	10	1	0	0	1	3	0
Cuddapah	0830	130	1012·5	997·7	−1·4	26·4	21·2	18·2	20·9	62	−2	2·5	+1·1	2·0	0	0	13	0	1	12	0	0	0	0	0	15	0
	1730	,,	1007·8	993·3	..	32·2	23·1	18·1	20·8	44	..	3·0	..	7·1	0	0	27	1	3	23	0	0	0	0	0	1	0
Arogyavaram	0830	701	1012·6	934·8	..	21·0	17·2	14·3	16·3	69	..	4·6	..	4·9	0	0	26	1	2	2	7	14	0	0	0	2	0
	1730	,,	1007·3	931·4	..	28·4	18·7	12·1	14·1	39	..	4·2	..	8·2	0	0	27	9	7	5	5	1	0	0	0	1	0
Madras State Madras	0830	6	1012·5	1011·6	..	24·7	22·5	21·4	25·3	82	..	2·9	..	3·2	0	0	21	3	1	1	1	2	8	5	5	7	0
Madras [Minambakkam]	0230	16	1010·4	1008·6	..	23·0	21·7	21·2	25·2	89	..	2·7	..	3·6	0	0	23	3	0	0	0	4	4	2	10	5	0
	0530	,,	1010·4	1008·6	..	22·4	21·3	20·7	24·4	90	..	2·6	..	4·4	0	0	22	2	0	1	0	1	3	8	7	6	0
	0830	,,	1012·6	1010·8	−1·6	24·8	22·4	21·2	25·2	81	+1	4·0	+1·8	5·7	0	0	23	3	0	1	0	0	5	8	5	5	1
	1130	,,	1012·2	1010·4	..	29·4	23·1	19·7	22·9	57	..	4·4	..	12·8	0	6	22	6	1	4	8	7	1	0	0	0	1
	1730	,,	1009·3	1007·5	..	27·9	22·6	19·8	23·1	62	..	4·6	..	15·9	0	8	20	2	4	8	7	5	0	0	1	0	1
	2330	,,	1011·9	1010·1	..	24·0	22·0	20·9	24·7	83	..	2·1	..	5·9	0	0	27	7	1	2	8	6	1	0	1	1	1
Vellore	0530	214	1010·8	986·2	..	20·2	19·5	18·7	21·6	87	..	3·4	..	0·7	0	0	6	1	0	0	4	1	0	0	0	22	0
	0830	,,	1012·4	988·7	−1·6	23·5	20·4	19·3	22·4	74	−8	3·5	+1·1	1·0	0	0	7	0	0	0	4	3	0	0	0	21	0
	1130	,,	1011·7	987·8	..	29·0	21·6	17·0	19·4	50	..	4·0	..	6·2	0	0	27	6	7	2	8	4	0	0	0	1	0
	1730	,,	1007·8	984·0	..	30·0	21·3	15·9	18·1	44	..	4·1	..	7·7	0	0	28	0	7	5	12	4	0	0	0	0	0
	2330	,,	1011·6	987·4	..	25·5	21·3	18·9	21·8	68	..	3·2	..	6·7	0	0	27	1	9	1	10	6	0	0	0	1	0
Tambaram [Aerodrome].	0830	29	1012·2	1008·9	..	25·2	23·3	22·4	27·1	85	..	4·1	..	9·3	0	0	27	3		1	2	0	6	5	8	1	1
	1730	,,	1009.0	1005·8	..	27·8	24·0	22·2	26·7	76	..	4·1	..	18·2	0	9	18	1	5	4	14	3	0	0	0	1	0
Tiruppattur	0830	390	1012·5	968·2	..	20·8	19·8	19·1	22·1	90	..	4·1	..	3.1	0	0	22	6	4	4	0	4	2		1	6	0
	1730	,,	1007·1	964·4	..	30·0	24·3	20·8	24·6	62	..	4·6	..	8·7	0	0	28	10	4	5	1	6	0	0	2	0	0
Cuddalore	0530	12	1010·1	1008·7	..	21·7	21·1	20·8	24·6	94	..	3·7	..	0·6	0	0	5	3		0	0	0	0	0	0	23	0
	0830	,,	1012·5	1011·1	..	24·8	22·6	21·4	25·5	82	−2	5·1	+2·1	3·6	0	0	24	5	2	0	1	0	4	2	10	4	0
	1130	,,	1012·3	1010·9	..	28·4	23·4	20·9	24·7	64	..	4·4	..	6·1	0	0	28	1	9	8	9	1	0	0	0	0	0
	1730	,,	1009·1	1007·8	..	27·2	23·2	21·1	25·0	69	..	4·9	..	8·3	0	0	28	2	8	9	9	0	0	0	0	0	0
	2330	,,	1011·5	1010·2	..	24·5	24·3	21·2	25·2	82	..	2·8	..	2·3	0	0	14	0	6	3	5	0	0	0	0	14	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Kallakkurichchi	0830	127	1012·5	999·1	..	24·3	21·4	19·6	22·8	76	..	3·1	..	1·8	0	0	9	2	0	0	1	2	0	1	3	19	0
	1730	„	1008·0	995·9	..	30·6	23·0	18·9	21·8	51	..	3·4	..	8·7	0	0	27	2	9	13	3	0	0	0	0	1	0
Salem	0530	279	1010·5	978·7	..	21·6	19·0	17·2	19·6	77	..	3·6	..	2·5	0	0	18	0	7	11	0	0	0	0	0	10	0
	0830	„	1012·5	981·0	−1·6	23·9	19·7	16·9	19·3	65	−9	4·9	+3·2	3·4	0	0	19	0	6	12	1	0	0	0	0	9	0
	1130	„	1011·2	980·4	..	29·5	21·0	15·2	17·3	44	..	4·7	..	3·3	0	1	23	0	1	8	3	5	1	4	1	5	0
	1730	„	1006·7	976·2	..	31·8	20·8	13·2	15·2	34	..	5·5	..	6·8	0	0	25	0	1	21	2	1	0	0	0	3	0
	2330	„	1010·9	979·6	..	25·4	20·3	16·8	19·1	61	..	2·4	..	15·6	0	4	24	0	3	24	1	0	0	0	0	0	0
Coimbatore (Pilamedu)	0530	399	1011·0	965·7	..	20·0	18·3	17·1	19·5	84	..	3·7	..	5·6	0	1	19	0	1	3	0	1	2	5	4	8	4
	0830	„	1012·7	967·8	..	23·1	19·9	17·9	20·5	74	..	4·4	..	7·0	0	1	22	7	4	2	0	2	3	2	3	4	1
	1130	„	1011·5	967·4	..	27·8	21·1	16·8	19·1	53	..	4·1	..	10·7	0	1	26	1	12	8	0	1	1	1	1	1	2
	1730	„	1006·9	963·4	..	30·7	20·8	14·0	16·0	38	..	4·3	..	10·3	0	1	26	2	3	16	0	0	4	2	0	1	0
	2330	„	1011·4	966·6	.	23·4	20·0	17·8	20·4	72	..	2·9	..	10·4	0	3	23	0	0	4	1	9	7	3	1	2	1
Coimbatore	0830	409	1012·8	966·8	−1·2	22·8	19·5	17·4	19·9	73	−5	5·4	2·4	10·0	0	0	23	1	4	9	4	4	5	1	0	0	0
	1730	„	1006·8	962·2	..	31·0	20·8	13·8	15·8	37	..	4·9	..	11·1	0		27	0	4	9	7	4	3	1	0	0	0
Nagapattinam	0830	9	1012·5	1011·4	−1·3	25·4	22·7	21·2	25·2	78	+1	4·9	−·2	8·2	0	2	23	2	5	2	3	1	1	1	10	5	0
	1730	„	1009·1	1007·9	..	27·5	23·6	21·6	25·8	71	..	5·1	..	18·0	0	11	17	3	9	10	6	0	0	0	0	0	0
Tiruchirappalli	0230	88	1010·5	1000·4	..	23·1	21·3	20·3	23·8	85	..	2·4	..	5·4	0	0	19	3	8	5	2	1	0	0	0	9	0
	0530	„	1010·6	1000·5	..	22·1	20·7	19·9	23·2	87	.	2·8	..	4·4	0	0	15	1	5	5	1	0	1	0	2	13	0
	0830	„	1012·7	1002·7	−1·6	24·8	21·8	20·1	23·5	76	−5	3·6	−1·3	6·7	0	0	25	7	7	2	2	1	0	0	6	3	0
	1130	„	1012·1	1002·2	..	29·2	22·7	19·2	22·2	56	..	4·1	..	11·4	0	5	23	5	11	6	2	0	1	1	2	0	0
	1730	„	1008·3	998·5	..	30·0	22·6	18·0	20·6	46	..	4·4	..	13·0	0	6	22	[illegible]	8	17	3	0	0	0	0	0	0
	2330	„	1011·8	1001·8	..	24·1	21·7	20·3	23·8	80	..	1·8	..	8·6	0	0	26	0	6	13	7	0	0	0	0	2	0
Vedaranniyam	0830	4	1012·2	1011·7	..	25·7	23·2	21·9	26·3	80	..	4·3	..	5·4	0	0	26	7	2	4	3	1	0	0	9	2	0
	1730	„	1009·2	1008·7	..	27·2	23·7	22·1	26·6	74	..	5·0	.	9·5	0	2	26	3	12	5	8	0	0	0	0	0	0
Atirampattinam	0830	6	1012·1	1011·4	..	25·0	22·6	21·4	25·5	81	..	3·8	..	8·0	0	0	28	16	2	0	1	1	0	1	7	0	0
	1730	„	1008·7	1007·9	..	28·2	22·7	19·7	22·9	61	..	4·4	..	15·4	0	4	24	0	11	4	12	1	0	0	0	0	0
Madurai	0830	133	1012·2	997·1	−1·7	24·8	22·0	20·5	24·1	77	+1	6·6	+3·3	4·2	0	0	27	7	9	2	0	1	0	0	8	1	0
	1730	„	1007·6	992·8	..	30·9	23·1	18·6	21·4	49	..	6·9	..	7·1	0	0	28	1	11	10	5	1	0	0	0	0	0
Madurai Aerodrome	0530	131	1010·3	995·3	..	21·8	20·5	19·8	23·1	88	..	3·5	..	2·2	0	0	16	5	8	1	1	1	0	0	0	12	0
	0830	„	1012·4	997·4	..	24·9	21·7	19·9	23·2	74	..	3·5	..	4·9	0	1	22	9	11	2	0	0	0	0	[illegible]	5	0
	1130	„	1011·5	996·8	..	29·2	22·2	18·[illegible]	20·9	52	..	4·5	..	7·1	0	[illegible]	21	4	12	6	0	0	1	0	1	4	0
	1730	„	1007·6	993·1	..	30·8	21·9	16·4	18·6	44	..	4·7	..	9·4	0	4	21	1	10	14	0	0	0	0	0	3	0
Tondi	0830	5	1012·5	1011·9	..	25·7	23·8	22·4	27·1	82	..	4·9	..	4·0	0	0	4	1	2	2	0	0	0	0	9	14	0
	1730	„	1008·9	1008·3	..	27·7	24·9	23·6	29·1	79	..	5·5	..	11·0	0	3	25	0	9	16	3	0	0	0	0	0	0
Pamban	0830	11	1011·9	1010·6	−1·5	26·3	23·8	22·6	27·4	81	+2	3·9	+1·3	4·7	0	0	22	4	5	9	1	0	0	1	2	6	0
	1730	„	1008·5	1007·2	..	27·3	24·2	22·7	27·6	76	..	4·5	..	7·6	0	0	28	7	16	1	0	1	0	0	0	0	0
Tuticorin	0830	4	1012·3	1011·9	−1·1	26·2	23·4	22·2	26·7	79	+1	4·7	+1·7	12·7	0	2	25	16	7	0	0	0	0	0	5	0	0
	1730	„	1008·6	1008·2	..	27·8	24·9	23·6	29·1	78	..	4·5	..	22·0	0	16	12	0	5	11	11	1	0	0	0	0	0
Palayamkottai	0830	51	1012·4	1006·7	−0·8	25·8	22·7	21·1	25·0	75	0	5·4	+1·5	2·9	0	0	25	19	0	0	0	0	0	2	4	3	0
	1730	„	1008·1	1002·4	..	29·3	23·3	20·2	23·7	59	..	5·3	..	7·6	0	2	24	4	0	16	4	2	0	0	0	2	0
Kanniyakumari	0830	37	1011·5	1007·4	..	26·1	22·2	20·0	23·4	69	..	4·4	..	11·0	0	2	26	11	12	0	0	0	0	0	5	0	0
	1730	„	1008·4	1004·4	..	27·9	23·9	22·0	26·4	71	..	5·7	..	16·4	0	3	20	1	4	8	3	2	7	2	1	0	0
Coastal Mysore																											
Karwar	0830	4	1012·4	1011·9	−0·4	22·9	20·2	18·4	21·1	77	−3	1·3	−0·6	4·6	0	0	19	1	8	8	1	0	0	0	1	9	0
	1730	„	1009·6	1009·0	..	27·2	24·3	22·9	27·9	78	..	1·3	..	16·4	0	9	18	1	1	0	0	1	2	6	16	1	0
Honavar	0830	26	1012·3	1009·3	−1·2	22·7	19·4	17·7	20·2	78	+4	3·7	+1·3	6·7	0	0	28	2	3	23	0	0	0	0	0	0	0
	1730	„	1009·0	1006·0	..	28·5	23·1	20·4	24·0	67	..	2·9	..	11·4	0	1	27	1	0	0	0	2	4	9	12	0	0
Mangalore (Bajpe)	0230	102	1010·3	998·6	..	23·1	22·4	20·5	24·1	86	..	1·7	..	3·1	0	0	16	1	3	10	1	0	0	0	1	12	0
	0530	„	1010·1	998·4	..	22·3	21·9	20·3	23·8	88	..	1·7	..	4·1	0	0	22	1	4	16	0	1	0	0	0	6	0
	0830	„	1012·0	1000·4	..	24·1	21·7	20·3	23·8	80	..	2·7	..	4·9	0	0	26	1	6	18	1	0	0	0	0	2	0
	1130	„	1011·7	1000·4	..	29·7	22·4	18·3	21·0	51	..	3·2	..	6·4	0	0	26	3	1	2	2	0	5	5	8	2	0
	1730	„	1008·0	997·0	..	28·1	23·0	20·3	23·8	63	..	3·1	..	14·3	0	3	25	0	0	0	0	0	2	11	15	0	0
	2330	„	1011·4	999·8	..	24·3	22·2	21·0	24·9	82	..	2·0	..	3·4	0	0	16	8	0	1	0	0	0	0	7	12	0
Mangalore	0830	22	1012·1	1009·6	−1·1	25·8	22·4	20·5	24·1	73	0	2·9	+1·1	3·5	0	0	28	3	8	15	2	0	0	0	0	0	0
	1730	„	1008·5	1006·0	..	28·5	23·7	21·3	25·3	65	..	3·5	..	9·4	0	0	28	4	0	0	0	1	3	8	10	0	2

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)																											
Bidar	0830	664	1012·3	938·2	..	20·7	14·0	8·3	10·9	46	−7	2·2	+0.8	13·2	0	7	21	0	2	0	3	0	12	1	10	0	0
	1730	,,	1006.2	934.7	..	30·5	17·2	6.7	9·8	23	..	2·3	..	13·0	0	4	24	0	9	0	0	0	12	1	6	0	0
Gulbarga	0830	458	1012·7	961·4	−1·0	24·1	14·3	5·2	8·8	30	−18	2·1	+1.4	8.5	0	1	27	4	9	5	2	3	1	2	2	0	0
	1730	,,	1006·4	956·8	..	32·4	16·9	3·1	7·6	17	..	3·4	..	9·1	0	0	24	5	4	1	1	1	3	7	2	4	0
Bijapur	0830	591	1013.3	946·4	−0.9	19·3	13·4	8·2	10·9	50	−2	2·3	+1.3	4·5	0	0	25	8	3	1	2	0	1	1	9	3	0
	1730	,,	1005.9	941·9	..	31·3	18·6	9·8	12.1	27	..	1·9	..	3·2	0	0	22	9	3	0	0	1	2	3	4	6	0
Raichur	0830	400	1012·1	967·1	−1.6	22·7	16·1	10·3	12·5	47	−7	3·3	+2·3	6.3	0	0	25	1	2	0	8	1	2	2	9	3	0
	1730	,,	1006.7	963.3	..	32·2	19·8	10·6	12·8	28	..	3·3	..	5·9	0	0	27	0	15	0	5	0	6	0	1	1	0
Belgaum	0830	753	1013.1	928.6	−1·5	17.0	13·2	10·0	12·3	65	+6	1.4	+0·3	2·5	0	0	20	3	6	5	1	0	0	4	1	8	0
	1730	,,	1006.3	925.5	..	28.9	17.5	8.8	11.3	30	..	1.9	..	7.6	0	0	28	3	3	3	0	0	1	13	3	0	2
Belgaum (Sambra)	0530	747	1011·8	927.5	..	15·4	12·0	8·8	11·3	67	..	1·5	..	1·4	0	0	7	1	1	3	0	0	0	2	0	21	0
	0830	,,	1012·8	929·5	..	19·3	13·4	8·1	10 8	50	..	2·0	..	3·5	0	0	14	1	4	4	0	0	2	2	1	14	0
	1130	,,	1010·9	929·8	..	27·1	14·9	3·4	7·8	23	..	1·8	..	9·3	0	0	26	2	5	6	4	1	3	2	3	2	0
	1730	,,	1006.5	926.4	..	29.5	16·3	4·8	8·6	23	..	2·0	..	10·0	0	4	17	2	3	1	0	0	4	8	3	7	0
Gadag	0530	650	1011·0	938.1	..	18.7	16·1	14·1	10·1	77	..	0·5	..	4·1	0	0	14	1	2	3	1	2	4	1	0	14	0
	0830	,,	1012·7	940·4	−0.7	21·7	17·3	14·3	16·3	66	+9	1·7	+0.8	0.7	0	0	4	0	3	0	0	0	0	1	0	24	0
	1130	,,	1010·7	940·1	..	20.9	20·0	14·3	16·3	44	..	1·6	..	7·6	0	0	26	2	4	7	1	1	1	3	7	2	0
	1730	,,	1006·1	936.4	..	31·4	21·1	14·5	16·5	40	..	2·4	..	4·6	0	0	18	1	3	2	0	0	2	9	1	10	0
	2330	,,	1011.0	939·0	..	22·7	18·2	14·8	16.8	65	..	0.8	..	10·0	0	2	25	0	1	5	3	0	3	15	0	1	0
Bellary	0830	449	1012·1	961.8	−1.3	23·5	19·0	15·7	17·8	64	+10	2·2	+0·8	3·7	0	0	25	0	0	0	2	1	9	0	13	3	0
	1730	,,	1006·0	957.4	..	32·1	22·4	16·5	18·8	40	..	2·7	..	4·0	0	0	25	0	5	1	9	0	0	0	10	3	0
Chitradurg	0830	733	1011·5	930.6	−1·4	21·9	16·9	13·2	15·2	60	+6	3·3	+1.7	4.4	0	0	27	0	0	9	1	0	7	9	1	1	0
	1730	,,	1005·2	927·4	..	30·9	18·0	8·2	10·9	25	..	3·5	..	4·7	0	0	26	2	2	9	0	0	0	10	3	2	0
Shimoga	0830	571	1012·7	948.4	+0·1	19·4	17.0	15·4	17.5	78	+2	7·4	+4·8	1·1	0	0	10	1	0	1	2	3	2	1	0	18	0
	1730	,,	1005.1	943.9	..	31.4	19.1	10.6	12.8	29	..	6.7	..	6.4	0	0	24	4	5	3	1	1	8	2	0	4	0
Balehonnur	0830	..	..	..	..	17.2	15.6	14.3	16.3	85	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1514.0	906·9	..	19.1	16.4	14.4	16.4	76	+8	4.7	+2·5	1.9	0	0	25	0	3	5	3	1	8	5	0	3	0
	1730	,,	1501·2	903·6	..	29·1	18.0	9·8	12·1	31	..	4·5	..	3.6	0	0	27	3	2	8	2	0	4	6	2	1	0
Bangalore	0230	921	1498·6	909.4	..	19·4	16·6	14·7	16·7	75	..	2·6	..	7.9	0	0	27	0	0	16	7	0	2	2	0	1	0
	0830	,,	1518.9	911.2	−1.2	20·7	16·8	13·9	15·9	68	−2	4·3	+2.5	7·9	0	0	26	0	1	7	4	3	8	2	1	2	0
	1130	,,	1529.1	911·1	..	26·6	17.9	11.4	13·5	42	..	4·6	..	8·9	0	0	26	2	5	8	3	2	3	4	1	0	0
	1730	,,	1500.1	907.8	..	28·3	17·6	9·3	11·7	33	..	4.7	..	8·1	0	0	27	2	5	14	4	0	0	0	2	1	0
Bangalore Aerodrome	0530	897	1493·6	912·1	..	18·2	16·9	16·0	18·2	87	..	3.0	..	3.5	0	0	14	0	0	6	5	2	0	1	0	14	0
	0830	,,	1517·7	913·8	..	20·6	17·9	16·2	18·4	77	..	4.4	..	7·6	0	0	22	0	2	5	4	3	3	4	0	6	1
	1130	,,	1528·1	913·5	..	26·7	19·4	14·8	16·8	50	..	4.5	..	9·0	0	1	20	0	2	8	2	3	4	1	1	7	0
	1730	,,	1500·7	910·3	..	28·6	19·6	14·0	16·0	42	..	4·8	..	10.1	0	1	22	1	4	10	4	2	0	0	2	5	0
	2330	,,	1513·0	913·1	..	21·3	18·3	16·3	18·5	74	..	2·8	..	9·0	0	0	24	0	0	20	4	0	0	0	0	4	0
Mysore	0830	767	1012·3	927·4	−1.2	21·0	18·1	16·5	18·8	76	+10	4·3	+2.1	4·9	0	0	23	0	2	3	0	1	2	10	5	5	0
	1730	,,	1006.0	924·0	..	29·9	18·9	10·8	13·0	34	..	5.1	..	4·9	0	0	25	5	4	7	0	1	2	6	0	3	0
Kerala																											
Calicut	0530	5	1010·0	1009.4	..	23·8	22·2	21·4	25·5	86	..	1·2	..	7.1	0	0	26	6	14	5	1	0	0	0	0	2	0
	0830	,,	1012·0	1011.1	−1.0	25·7	22·8	21·4	25·5	77	−2	2·8	+0·7	6·6	0	1	24	3	6	14	1	0	0	0	1	3	0
	1130	,,	1012.0	1011·4	..	29·6	24·2	21·6	25·8	63	..	3·3	..	11·1	0	2	26	0	0	0	1	0	3	19	5	0	0
	1730	,,	1008·6	1008·0	..	28·9	24·5	22·5	27·3	69	..	3·3	..	16.9	0	4	24	0	0	0	0	0	1	8	19	0	0
	2330	,,	1011·3	1010·7	..	26·3	23·6	22·3	26·9	79	..	2·0	..	8·8	0	1	26	14	8	0	0	0	0	0	5	1	0
Palghat	0830	97	1012·2	1001.2	..	26·1	21·9	19·0	22·8	68	..	4.3	..	5·6	0	0	27	0	0	13	6	0	1	7	0	1	0
	1730	,,	1007·1	996·4	..	33.0	22·7	16·4	18·6	39	..	4·8	..	7·6	0	0	28	0	0	10	7	0	1	9	1	0	0
Fort Cochin	0830	3	1012.1	1011.8	−0.8	26.0	23.8	27.7	27.6	83	+10	6.1	+4.3	6.8	0	0	28	9	17	1	0	0	0	0	1	0	0
	1730	,,	1008.0	1007.7	..	28.4	24·6	22.8	27·7	72	..	5.8	..	12.4	0	1	27	0	0	0	0	0	2	13	13	0	0
Cochin (Naval Air Station)	0230	3	1010.1	1009.8	..	25·2	23·7	23·0	28·1	88	..	4·4	..	2·1	0	0	16	8	6	2	0	0	0	0	0	12	0
	0530	,,	1009.8	1009.5	..	24·3	23·1	22·6	27·4	90	..	4·0	..	2·9	0	0	18	4	11	2	0	0	0	0	1	10	0
	0830	,,	1011.8	1011.5	..	26·1	23.3	21.9	26.3	78	..	4.4	..	4.9	0	0	25	5	10	9	0	0	0	0	1	3	0
	1130	,,	1011 8	1011.5	..	30.0	24.4	21.6	25.8	61	..	4.9	..	10.1	0	3	23	2	0	0	0	0	3	10	11	2	0
	1730	,,	1008·1	1007.8	..	29.2	24.4	22.1	26.6	66	..	4.9	..	18.1	0	8	20	0	0	0	0	0	6	15	7	0	0
	2330	,,	1011.5	1011.2	..	26.4	24.1	23.0	28.1	82	..	4.9	..	5.2	0	1	18	1	2	4	1	0	1	3	7	9	0
Alleppey	0830	4	1011 5	1011.1	−0.6	26.5	24.4	23.4	28.8	84	+6	4.6	+0.1	4.9	0	0	28	1	8	14	4	0	0	0	1	0	0
	1730	,,	1007.9	1007.5	..	29.3	25.3	23.4	28·8	71	..	3.9	..	13.5	0	0	28	0	0	0	0	0	0	5	23	0	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 29 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*Contd.*)																											
Punalur	0830	34	1011·8	1007·9	..	23·5	21·8	20·9	24·1	86	..	5·3	..	0·8	0	0	6	1	2	2	1	0	0	0	0	22	0
	1730	,,	1007·7	1003·9	..	30·9	23·4	19·0	22·0	50	..	5·8	..	4·5	0	0	24	1	2	0	8	1	6	1	5	4	0
Trivandrum	0230	64	1009.7	1002.4	..	24·3	22·8	22·0	26·4	87	..	3·9	..	4·6	0	0	24	8	4	4	1	1	0	0	6	4	0
	0530	,,	1009.7	1002·3	..	23·6	22·2	21·4	25·5	88	..	3·7	..	4·9	0	0	25	5	11	3	1	1	0	0	4	3	0
	0830	,,	1011·8	1004·4	−1·9	25·1	22·9	21·7	25·9	81	+3	4·6	+2·5	3.6	0	0	26	6	10	5	0	0	0	0	5	2	0
	1130	,,	1011·3	1004·0	..	29·6	23·5	20·4	24·0	58	..	5·3	..	6.3	0	0	28	6	3	2	4	1	6		5	0	0
	1730	,,	1008·4	1001·2	..	28·1	23·7	21·5	25·6	68	..	5·3	..	6·5	0	0	27	1	0	0	1	3	14	4	4	1	0
	2330	,,	1011·3	1004·0	..	25·3	23·4	22·5	27·3	85	..	4·3	..	5·6	0	0	23	7	4	1	3	1	1	0	6	5	0
Trivandrum Aerodrome	0830	8	1011·6	1010·7	..	25·9	23·1	21·6	25·8	77	..	4.8	..	3·3	0	0	19	7	7	4	0	0	0	0	1	9	0
Arabian Sea Islands																											
Amini *	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959																									
	1730	,,																									
Dharamsala	0830	1212	..	..	..	9·1	5·7	1·6	6·9	52	−4	3·5	+0·5	1·9	0	0	16	3	4	6		0	0	0	2	12	0
	1730	,,	..	..	..	11·3	7·1	2·2	7·2	57	..	4·9	..	2·9	0	0	27	2	1	2	0	3	15	4	0	1	0
Simla	0830	2202	1479·3	778.4	−2·1	3·1	0	−5·5	3·9	60	+14	2·9	−0·7	2·9	0	0	25	1	6	3	10	2	2	0	1	3	0
	1730	,,	1471·6	773·0	..	4·2	1·6	−2·0	5.2	68	..	3.7	.	2·8	0	0	27	3	5	0	5	5	1	0	8	1	0
Lokpal	0830	..	..	..	..	−9·5	−10·8	13·3	1·9	68	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830									Closed during Winter Months.																	
Joshimath	0830	..	..	..	..	3·8	1·0	−3·2	4·7	66	..	2·3	..	4·0	0	0	25	0	4	14	2	0	3	1	0	3	1
	1730	..	..	..	..	6·5	2·9	−2·5	5·0	57	..	3·2	..	2·7	0	0	28	0	1	1	6	9	7	3	1	0	0
Mussoorie	0830	2042	1474·8	793·6	−3·2	4·1	1·7	−2·7	4·9	67	+2	3·2	−0·6	2·7	0	0	21	6	2	0	4	5	0	0	4	7	0
	1730	,,	1462·0	792·6	..	6·0	4·5	2·5	7·3	80	..	3·6	..	2·8	0	0	22	1	1	0	6	10	3	0	1	6	0
Mukteswar (Kumaon)	0830	2311	3071·1	769·3	−2·8	3·6	0·6	−4·4	4·2	64	+10	2·9	−0·2	14·5	0	6	20	0	4	8	1	2	1	5	5	2	0
	1730	,,	3066·2	768·2	..	5·9	2·9	−0·6	6·4	67	..	3·0	..	13·3	0	6	18	0	1	3	2	0	1	10	7	4	0
Nainital	0830	1953	1472·1	802·1	−2·3	5·7	1·9	−5·8	3·7	45	+11	3·1	+0·8	8·9	0	1	18	3	5	2	3	0	0	3	3	9	0
	1730	,,	1458·2	800·8	..	6·6	3·7	−0·1	6·1	68	..	3·2	..	8·6	0	1	25	3	1	2	3	2	1	12	2	2	0
Walong (R)	0830	..																									
(R)	1730	..																									
Kalimpong	0830	1209	1476.8	877.6	−3·6	13·8	12.2	10.9	13.0	83	+10	2·4	−0·4	3·0	0	0	28	0	1	0	0	0	0	0	27	0	0
	1730	,,	1476·2	877·5	..	13·6	11·8	10·3	12·5	79	..	2·7	..	3·0	0	0	28	0	0	0	28	0	0	0	0	0	0
Darjeeling	0830	2128	1509·5	799·1	+0·9	5·8	4·2	2·5	7·1	79	+8	4·2	+0·4	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	,,	1486·9	787·0	..	5·5	4·5	2·8	7·8	85	..	6·0	..	0·5	0	0	3	0	0	0	0	0	3	0	0	25	0
Kohima	0830	1406	1528·1	862·5	..	11·8	10·5	9·4	11·8	93	..	3·8	..	..	..	..	..	4	5	2	7	1	2	1	5	0	1
	1730	,,	1490·0	858·6	..	13·6	12·3	11·2	13·4	84	..	3·4	..	..	..	..	..	0	0	0	0	3	6	6	12	0	1
Shillong	0830	1500	1495.9	849·8	−1·4	12·2	7.4	1·3	6·7	49	−12	3·5	+1·4	1·3	0	0	9	0	1	0	1	1	4	2	0	19	0
	1730	,,	1468.1	847·0	..	11·5	8·5	5·1	8·8	56	..	5·5	..	0·7	0	0	5	0	0	0	0	1	4	0	0	23	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1507·9	882·5	−0·5	12·2	7·0	−0·3	6·0	47	+4	1·0	−0·7	(d) 2·3	0	0	10	3	2	0	0	0	2	1	2	17	0
	1730	,,	1495.2	880·9	..	17·7	9·6	−0·7	5·8	32	..	0·5	..	2·3	0	0	15	4	2	0	0	0	6	2	1	13	0
Aijal	0830	..	..	..	..	15·6	11·4	7·4	10·9	61	..	3·5	..	3·3	0	0	26	1	0	10	3	3	1	8	0	2	0
	1730	..	..	..	..	17·5	22·6	8·3	10·4	58	..	3·2	..	3·5	0	0	27	2	0	2	1	0	2	19	1	1	0
Pachmarhi	0830	1075	1512·1	895·3	−1·0	14.6	9·4	3·1	8·1	5	−1	1·8	+0·1	2·8	0	0	22	0	9	1	1	2	0	4	5	6	0
	1730	,,	1500.4	892·9	..	21·5	12·4	2·9	8·1	3	..	2·0	..	3·9	0	0	28	4	10	0	0	0	0	5	9	0	0
Mahabaleshwar	0830	1382	1514·0	863·5	−1·0	17·0	9·6	−0·4	5·9	35	−12	2·4	+1·8	8·7	0	0	28	2	9	7	1	1	4	0	4	0	0
	1730	,,	1504·1	862·2	..	22·9	13·1	3·3	7·7	30	..	1·1	..	9·0	0	0	28	0	3	1	1	0	[illegible]	0	20	0	0

(R) Register not received †Data not reliable. (d) Mean of 27 days. *Data given as added in December 1961, issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or high in g. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir—contd.																											
Mercara	0830	1152	1514·4	886·9	−0·6	18·8	15·3	12·4	14·4	69	−5	1·8	−1·1	3·4	0	0	25	5	10	9	0	0	0	0	1	3	0
	1730	„	1497·5	884·4	..	24·0	19·0	15·6	17·7	58	..	3·0	..	3·1	0	0	28	5	2	1	0	0	0	11	7	0	2
Ootacamund	0830	2249	1519·2	780·2	−0·6	11·4	8·8	6·4	9·6	72	+6	3·1	+1·3	0·8	0	0	8	1	2	3	1	1	0	0	0	20	0
	1730	„	1490·0	778·7	..	16·6	12·1	8·2	10·9	60	..	4·7	..	1·2	0	0	13	0	4	3	2	4	0	0	0	15	0
Coonoor	0830	1747	1516·4	827·9	..	17·2	12·2	9·7	12·0	63	+1	3·3	+1·1	4·6	0	0	25	1	3	3	8	8	0	0	2	3	0
Kodaikanal	0830	2343	3150·3	771·9	−0·4	12·2	8·3	3·7	8·0	62	+10	4·4	+2·6	9·8	0	3	22	7	7	3	3	0	0	0	5	3	0
	1130	„	3166·2	772·1	..	16·3	10·9	5·8	9·2	54	..	4·5	..	11·3	0	4	25	8	8	2	4	1	0	0	4	1	0
	1730	„	3141·5	770·3	..	14·2	11·0	8·5	11·9	70	..	5·1	..	4·9	0	1	19	4	2	1	5	3	0	1	4	8	0
Nepal																											
Katmandu	0830	1324	1487·4	867·1	..	7·6	6·8	6·1	9·3	90	..	3·1	..	0·1	0	0	1	0	1	0	0	0	0	0	0	27	0
	1130	„	1486·3	866·6	..	15·1	10·1	4·9	8·8	52	..	3·0	..	0·3	0	0	3	0	1	0	0	0	1	0	1	25	0
	1730	„	1460·1	864·0	..	13·3	9·8	6·4	9·6	64	..	2·7	..	0·7	0	0	6	0	1	0	0	0	1	2	2	22	0
Sikkim																											
Lachen	0830	..	..	..	..	7·7	0·4	15·6	1·6	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories—*Contd.*																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	17·0	11·9	6·5	9·5	53	..	2·3	..	..	..	..	..	1	0	5	1	1	0	15	4	1	0
	1730	..	..	..	..	20·0	13·0	5·5	9·5	43	..	2·4	..	..	..	..	..	4	0	3	2	0	0	10	8	1	0
Hazaribagh	0830	615	1013·5	943·4	..	15·5	11·0	6·3	10·0	57	..	2·0	..	9·4	0	0	28	2	0	3	2	2	1	9	9	0	0
	1730	„	1009·8	940·6	..	18·8	12·6	6·6	10·3	49	..	2·4	..	8·2	0	0	25	3	0	2	2	0	0	10	8	3	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	2·4	..	..	0	14	14	0	0	0	0	0	0	27	1	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2·7	..	..	0	13	15	0	0	0	0	0	0	28	0	0	0
Bokaro	0830	242	1014·4	986·3	..	16·5	12·9	9·3	12·1	65	..	2·2	..	..	0	0	22	1	0	1	1	0	5	11	3	6	0
	1730	„	1010·6	982·9	..	21·4	15·5	10·1	13·0	53	..	2·7	..	..	0	0	27	2	2	3	1	0	2	1	16	1	0
Maithon*	0830																										
	1730																										
Ramgarh	0830	..	..	..	..	15·5	12·7	9·9	12·5	70	..	2·0	..	1·9	0	0	16	1	1	3	1	0	2	8	0	12	0
	1730	..	..	..	..	21·5	16·1	11·7	14·3	60	..	2·5	..	2·3	0	0	21	1	2	2	1	0	7	2	6	7	0
Panchet Hills	0830	..	..	..	..	18·5	13·8	9·8	12·8	61	..	3·0	..	5·4	0	0	26	0	2	2	0	1	18	0	3	2	0
	1730	..	..	..	..	23·0	14·8	8·1	10·7	40	..	3·3	..	6·0	0	0	22	0	2	1	0	2	1	1	15	6	0
Durgapur	0830	..	..	..	..	19·0	15·1	11·7	13·4	65	..	3·0	..	..	..	..	..	6	4	4	0	1	1	2	10	0	0
	1730	..	..	..	..	23·0	17·2	12·4	15·0	54	..	2·5	..	..	..	..	..	2	2	3	0	1	2	3	15	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	16·9	12·6	8·6	11·2	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1014·0	995·6	..	19·9	16·2	13·7	15·4	66	..	2·6	..	7·1	0	0	24	10	5	4	2	2	0	0	0	4	1
	1730	„	1009·7	991·7	..	24·9	17·7	12·1	14.4	48	..	3.1	..	6·6	0		20	2	2	2	3	4	3	0	5	7	0
Bhimkund	0830	..	..	..	..	16·8	14·7	13·1	15·0	79	..	2·9	..	1·0	0	0	6	3	0	0	0	0	0	0	3	22	0
	1730	..	..	..	..	22·8	16·1	10·6	12·9	43	..	2·9	..	0·1	0	0	1	0	0	0	0	0	0	0	1	27	0
Sonepur	0830	..	..	..	..	19·5	17·6	16·2	18·4	83	..	..	..	4·9	0	0	23	6	3	5	2	1	3	1	2	5	0
Khijrawan	0830	..	..	..	..	18·2	15·2	12·5	15·2	71	..	2·1	..	3·4	0	0	18	1	0	3	5	1	3	2	1	9	2
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Narbada Catchment (R)																											
Bagra Tawa	0830	..	..	..	..	16·3	10·7	4·1	8·5	45	..	1·0	..	8·4	0	0	23	1	11	0	0	0	11	0	0	5	0
	1730	..	..	..	..	26·7	14·6	0.8	6·8	20	..	1·0	..	5·7	0	0	23	2	9	1	0	0	4	6	1	2	0
Punasa	0830	..	..	..	..	18·5	11·4	2·9	8·0	37	..	..	..	3·6	0	0	16	6	3	0	0	0	3	2	2	12	0
	1730	..	..	..	..	29·1	16·4	3·5	8·4	22	..	..	..	2·9	0	0	13	1	1	0	0	0	2	6	3	15	0
Thikri	0830	..	..	..	..	12·6	12·2	5·1	9·2	43	..	2·1	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol (R)	0830																										
Dharoi	0830	..	..	..	..	18·0	13·3	8·5	11·1	56	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·9	18·1	10·8	12·9	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	4·8	(i) 2·9	(i) −1·9	(i) 5·2	(i) 60	..	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·9	(g) 4·1	(g) −0·6	(g) 5·8	(g) 59	..	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	7·6	6·5	5·3	8·9	85	..	3·5	..	0·7	0	0	6	1	0	2	2	0	0	1	0	22	0
	1130	..	..	..	..	13·6	9·1	4·6	8·5	57	..	3·2	..	2·3	0	0	17	1	2	0	1	0	3	5	3	11	2
	1730	..	..	..	..	16·3	10·8	5·2	8·8	48	..	3·2	..	4·0	0	0	19	0	0	2	3	10	1	1	2	9	0

(d)—Mean of 27 days. (R) Register not received. *Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in m	Relative humidity,%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories— (*contd.*)																											
Gandak Catchment																											
Jomosom	@0830	..	..	..	..	1·6	0	−3·5	4·6	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	††1730	..	..	..	..	4·4	1·9	−1·3	5·5	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	12·6	9·8	7·6	10·4	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·5	12·3	8·7	11·2	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	6·0	3·2	−0·5	5.9	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·2	7·6	4·0	8·1	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara.	0830	..	..	..	..	12·7	10·2	7·9	10·7	73	..	2·5	..	2·7	0	0	15	4	0	0	3	3	1	0	4	13	0
	1730	..	..	..	..	16·3	12·8	7·9	10.6	58	..	6·2	..	4·9	0	0	24	1	4	0	14	0	4	0	1	4	0
Gorkha*	0830																										
	1730																										
Nawakot	0830	..	..	..	..	13·1	11·0	9.2	11·6	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·3	11·9	8·0	10.7	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari ‡	0830																										
	1730																										
Dandeldhura	0830	..	..	..	..	6·6	3·2	−1·4	6·8	61	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·8	4·7	−1·1	6·6	67	..	2·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	18·3	15·3	13·0	15·0	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20 6	16·1	12·7	14·7	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	..																									
	1130	..																									
	1730	..																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	9·3	7·9	6·6	9·7	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·3	10·5	8·2	10·9	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	6·6	4·9	3·5	7·9	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·3	6·4	5·0	8·7	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	1·3	−1·3	−4·9	4·1	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	0·2	−0·7	−1·8	5·2	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	10·5	8.2	5·8	9·2	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·1	9·0	4·7	8·5	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	10·1	7·3	4·5	8·4	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·1	7·3	5·6	9·1	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	8·6	6·7	4·9	8·6	78	..	4·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	11·7	7·9	4·3	8·2	61	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·7	6·9	4·0	8·2	68	..	5·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Okhaldunga	0830	..	..	..	..	8·3	6·5	4·7	8·5	78	..	4·0	..	3·2	0	0	10	0	0	0	0	4	3	3	0	18	0
	1130	..	..	..	..	11·5	8·0	4·6	8·5	63	..	4·1	..	4·6	0	0	24	3	1	0	0	12	0	7	1	4	0
	1730	.	..	..	..	8·6	6·9	5·2	8·8	80	..	6·7	..	7·7	0	0	20	0	0	2	0	1	3	11	3	8	0
Chainpur	0830	..	..	..	..	11·4	8·8	6·2	9.5	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·1	9·6	7·2	10·1	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	12·9	9·9	7·0	10·0	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·7	10·6	6·7	9·8	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1013 9	996·7	..	14 3	12·5	10 7	12·9	80	..	2·7	..	4·2	0	0	26	1	5	3	1	1	11	2	2	2	0
	1130	,,	1012·8	995·9	..	20·7	15·3	10·7	12·9	54	..	3·0	..	6·8	0	0	28	0	1	0	0	0	20	5	2	0	0
	1730	,,	1009·9	993·3	..	19·1	14·9	11·3	13·4	61	..	3·5	..	3·2	0	0	27	1	1	16	4	3	2	0	0	1	0
Tista Catchment																											
Gangtok	0830	1812	1487·7	817·5	..	6·2	5·2	4·0	8·2	87	..	5·3	..	0·1	0	0	1	1	0	0	0	0	0	0	0	27	0
	1130	,,	1480·4	817·2	..	9·9	7·6	5·1	9·0	75	..	6·0	..	2·3	0	0	17	1	0	0	2	5	9	0	0	11	0
Gezing	1730		1462·9	815·2	..	7·3	6·3	5·2	8·9	87	..	7·7	..	1·3	0	0	11	0	0	0	2	5	4	0	0	17	0
	0830	..	..	..	..	9·9	8·2	6·7	9·8	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·5	8.1	6·8	9·9	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Date not reliable.
†Data included under 'Nepal'.
@ Observations for 24 days.
††Observations for 27 days.
‡Data not available.
(R) Register not received.
(I) Mean of 22 days.

MONTHLY MEANS OF UPPER WINDS

February, 1961 (*Magha* 12–*Phalguna* 9, 1882 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
2	Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3	Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1730	2330	
7	Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
8	Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9	Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10	Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11	Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12	Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13	Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
15	Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
16	Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
17	Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18	Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19	Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0830	1730		
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22	Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24	Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
27	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30	Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
31	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33	Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
35	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37	Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39	Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
40	Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42	New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43	Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44	Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45	Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1730		
47	Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

5—9 D. D. Obs. P/65

TABLE IV— MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·5	0 5	163	27	2·6	1·5	266	28	2·0	0·1	290	28	2·1	1·2	018	28	3·2	1·7	329	28	1·9	1·3	330
0·15 a.g.	24	4·6	0·9	016	27	4·5	2·3	273	28	5·4	1·9	290	28	8·8	5·4	027	28	3·5	2·2	335	28	6·7	4·9	335
0·3 a.m.s.l	24	4·9	2·5	326	27	4·8	2·5	261	28	5·2	2·8	283	28	9·1	4·7	027	28	3·6	2·1	335	28	6.7	4.8	335
0·6 ,,	24	4·9	2·7	315	27	4·3	2·9	260	28	5·4	4·0	275	28	7·1	3·0	015	28	3·6	2·2	330	28	5·3	3·6	332
0·9 ,,	24	5·2	3·7	301	27	4·4	3·6	253	28	5·4	4·0	266	28	5·7	2·4	330	28	3·8	2·4	333	28	4·5	2·7	325
1·5 ,,	23	6·0	5·2	277	27	5·8	4·9	249	27	6·5	5·2	266	28	5·8	3·7	290	28	5·7	4·2	305	28	5·1	2·6	290
2·1 ,,	23	8·8	8·9	275	27	8·6	7·8	270	25	9·3	8·8	273	27	7·6	6·2	282	28	8·6	7·2	297	28	6·9	5·3	292
3·0 ,,	22	14·7	13·5	280	23	15·6	14·8	284	21	15·3	14·6	279	21	10·1	8·6	284	27	12·8	12·0	295	26	10·0	8·9	294
3 6 ,,	10	17·3	16·5	276	21	21·0	19·9	284	2	16·5	16.3	260					26	15·0	14·3	286	3	17.5	17·2	257
4·5 ,,	1	35·5	35.5	275	18	21·0	25·6	282									26	18·6	17·1	284				
5·4 ,,					12	31·0	30·0	277									24	22·4	22·4	285				
6·0 ,,					4	34·1	33·2	264									24	25·4	24·2	288				
7·2 ,,					4	46·5	46·4	255									18	29·4	28·8	283				
9·0 ,,																	7	34·4	33·8	283				

Station	AMAUSI												AMBALA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	3·2	1·8	270	28	4·7	3·4	284	28	3·3	2·0	263	28	2·8	2·2	313	28	3·7	2·9	303	28	3·4	3·1	313
0.15 a.g.	27	8·5	6·8	309	28	6·2	5·0	294	28	9·3	7·1	300	28	8·8	6·9	326	27	6·9	5·7	304	27	10·2	9·4	326
0.3 a.m.s.l	27	8·6	7·0	316	28	6·4	5·1	291	28	9·7	7·3	300	28	3·9	3·1	316	27	4·1	3·5	302	27	4·2	3·8	313
0·6 ,,	26	9·7	8·3	307	28	7·3	5·7	287	28	10·2	7·4	302	28	9·4	7·4	329	27	7·6	6·4	305	27	10·2	9·2	326
0·9 ,,	26	9·7	9·3	301	27	8·5	7·4	289	28	9·4	7·5	302	27	9·2	7·3	330	27	8·3	7·1	316	26	8·9	8·8	326
1·5 ,,	26	12·3	11·4	297	25	10·8	9·8	300	27	9·6	8·7	290	26	8·0	5·8	321	27	8·4	6·0	321	26	6·9	5·8	318
2·1 ,,	23	13·9	12·4	292	25	13·2	12·2	299	24	10·9	10·3	282	26	7·5	4·6	310	27	9 0	5·7	314	26	6·4	4·4	296
3·0 ,,	15	12·2	11·3	284	24	15·9	14·5	300	16	11·4	10·9	286	23	10·0	7·3	296	26	8·5	5·8	312	22	6.6	4.6	278
3.6 ,,	11	14·4	13·4	283	23	18.1	17.4	290	5	11·2	20·5	295	18	11·4	9·6	297	25	9·0	6·4	297	9	9·1	6·9	279
4·5 ,,	3	14·7	14·7	249	19	23.2	22.9	286	4	14·0	139	29·7	16	17·2	16·3	286	23	13·2	11·6	288	2	5·0	5·0	173
5 4 ,,					14	24.5	22.7	281					8	20·0	18·7	285	19	20 6	19 1	284				
6·0 ,,					12	27·5	26 9	281					7	25·4	24·5	283	12	23·5	21·8	283				
7·2 ,,					5	36.3	35.8	269					3	38·5	38·0	272	5	22·9	21·1	278				
9·0 ,,					2	48.0	47.8	271									1	25·5	25·5	275				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2.2	0.5	170	28	3.1	2.4	057	28	3.7	2.7	100	23	1.1	0.8	281	28	2.6	1.6	315	28	1.6	0.7	319
0·15 a. g.	28	4.4	1.3	179	28	4.6	3.0	052	27	6.5	4·8	098	27	6.3	4.3	299	28	5.6	3.6	310	24	6.1	5·1	312
0·3 a.m.s.l.													27	6.5	4.4	314	28	5.7	3.8	309	24	6.4	5.4	311
0·6 ,,	28	4.8	1.3	190	28	3.6	2.6	054	27	6.5	4.8	103	27	9.3	6.8	316	27	6.7	4.7	304	24	7.6	7.0	302
0·9 ,,	28	5.3	1.6	133	28	3.5	2.1	053	27	5.3	3.4	094	27	10.3	7.4	304	27	7.3	5.0	296	24	8.4	7.9	294
1·5 ,,	27	4.7	1.3	058	28	3.7	1.6	045	27	3.5	1.9	035	26	11.0	9.2	293	27	8.6	7.3	287	24	9.9	9.5	282
2·1 ,,	27	5.6	2.5	002	28	3.8	1.1	015	26	3.9	2.2	345	25	13.8	12.2	290	27	12.3	11.3	284	24	10.9	10.2	286
3·0 ,,	26	6.0	2.2	025	28	5.3	1.6	345	26	5.9	1.9	332	16	18.1	16.2	282	23	24.3	19.3	292	16	17·1	15.7	280
3·6 ,,	26	7.2	2.3	019	26	7.1	2.7	349	22	6.3	3.1	023	10	21.6	18.6	268	16	25.0	23.5	299	5	18.4	17.3	271
4·5 ,,	25	8.7	2.6	010	25	8.0	3.0	011	19	8.6	3.9	028	2	19.5	15.5	307	8	27.6	25.5	285	2	14·5	13·5	259
5·4 ,,	25	8.6	2.4	037	25	9.2	4.2	009	13	6.9	3.8	038												
6·0 ,,	25	8.8	2.1	027	25	8·9	4.2	014	8	6.9	4.9	054												
7·2 ,,	21	9.1	3.7	346	22	10·3	5·3	345	8	5.9	5·7	075												
9·0 ,,	11	8.8	1.8	286	19	12·5	7·5	308																

Station	BAGHDOGRA												BAIRAGARH											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1.5	0.8	043	28	2.8	0.3	175	28	2.0	1.0	359	28	2.4	1.3	057	28	2.4	1.4	325	28	2·7	1.7	032
0·15 a.g.	23	3.8	3 0	064	28	2.9	1 0	199	27	3 9	1.3	346	28	6.2	2.9	057	28	3.5	2.4	311	28	6.7	3.9	029
0·3 a.m.s.l.	23	3.8	3.1	074	28	3.5	0.8	191	27	3·9	1.0	344												
0·6 ,,	23	4.4	3.7	083	28	3.1	0.8	176	27	4.5	0.7	315	28	5.5	2.5	055	28	3.3	2.3	315	28	6.4	4.0	027
0·9 ,,	23	4.4	3.3	084	28	3.1	0 9	169	27	3.6	0.0	310	28	5.9	2.3	016	28	3.9	2.7	306	28	5.2	2 4	009
1·5 ,,	23	4.4	2.6	081	26	3.0	1.2	170	26	3.4	1.0	275	28	6.1	4.9	288	28	4.9	3.6	294	28	4.9	3.5	273
2·1 ,,	18	3.6	1·3	038	23	3 5	1 3	236	24	4.2	1.1	227	28	9.3	7.9	272	28	6.4	5.1	286	27	7.1	5 8	268
3·0 ,,	15	8.5	5.9	288	13	7.2	3.6	289	21	7.2	5.8	188	27	13 4	12.0	278	25	13.2	12.2	280	27	11.7	10 5	274
3·6 ,,	14	15.9	15·7	285	9	11.4	10.5	295	13	11.8	10.7	187	23	15.8	14.2	279	24	16.6	15·5	280	5	14.3	13.8	281
4·5 ,,	8	22.1	21.7	278	8	25.3	25.1	282	3	15·3	15·3	189	23	21.0	19.5	278	23	20.9	19.4	278				
5·4 ,,	2	26.0	25·7	268	4	47.4	46 9	280	1	30.0	30·0	260	19	25.4	24.2	282	22	24.0	23.9	281				
6·0 ,,	1	13·0	13.0	290	3	46.5	45.5	286					17	28.5	26.0	286	17	29.4	25.3	286				
7·2 ,,					1	34·0	34·0	300					5	26.2	25.5	273	11	28.9	27.0	283				
9.0 ,,													3	35.5	32.8	279	3	26.3	25.7	279				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	BAJPE												BAMRAULI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1.9	1.5	075	28	4·7	4·1	288	28	1·4	1·2	335	28	1·8	0·6	303	28	3·0	2·0	289	28	2·5	2·1	294
0·15 a.g.	28	3.7	2·4	031	28	4·9	4·6	284	28	4·9	4·6	331	28	7·1	5·1	310	27	4·9	3·3	291	28	6·2	5·0	292
0·3 a. m.s.l.	28	3·7	2·2	015	28	5·2	4·7	283	28	5.1	4·7	330	28	7·1	5·1	310	27	5·1	3·6	290	28	6·2	5·0	292
0·6 ,,	28	3·7	2·0	343	28	3·6	2·6	293	28	4·9	4.4	328	28	8·7	6·6	310	27	5·9	4·5	294	28	6·7	5·6	293
0·9 ,,	28	3·6	1·3	344	28	2.4	1.4	322	28	3·4	2·4	321	28	9·2	6·6	298	27	8·3	7·0	294	28	7·1	6·3	285
1·5 ,,	28	4·0	1·2	023	28	3.1	1·5	064	28	3·4	1.3	040	28	11·6	10·6	284	27	11·7	11·0	299	28	9·6	9·1	293
2·1 ,,	27	4·3	1·9	064	28	5·5	3·5	071	28	5·7	4·5	071	28	13·3	12·6	280	26	13·2	12·4	297	28	12·4	11·3	288
3·0 ,,	27	5·3	2.0	076	28	6·3	3·5	065	27	6·1	4·4	076	28	15·4	14·6	275	23	16·5	15·9	288	28	16·1	15·0	280
3·6 ,,	27	6·4	2·4	056	28	6.2	3·0	055	26	6·8	4·6	060	28	17·7	16·4	274	22	19·6	19·1	289	28	18·4	17·0	274
4·5 ,,	26	8·4	4·1	045	28	8·0	4·3	054	17	7·3	4·1	056	28	22·1	12·2	271	17	23.4	23.0	283	28	23.3	22·1	275
5·4 ,,	25	8·0	4·1	051	24	8·4	4·5	039	10	7·2	3·1	052	28	27·1	26·0	272	12	28.3	27·7	279	28	27.5	25·7	277
6·0 ,,	24	8·2	5·3	053	22	8·7	3 9	039	5	9·3	5·0	339	27	29·2	27·9	274	7	32·1	31·6	283	28	31.4	29·6	275
7·2 ,,	22	10·5	5·5	041	18	9·7	5·0	356	2	16·7	14·4	330	26	37 0	36·0	273	2	32·7	32·7	265	28	36.4	35·0	274
9·0 ,,	15	9·0	4·2	083	16	9·6	4·1	316					18	42·6	40·6	270	2	57·7	57·7	261	23	44.6	43.7	272

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·3	0·6	301	28	2·7	1·5	119	28	2.4	1·7	087	28	3·7	3.2	102	28	2·2	1·4	299	28	2·9	2·0	302
0.15 a.g.	27	8·0	5·4	310	25	5·5	2·6	121	28	3.9	2·7	077	27	7·9	7·0	113	28	8·4	5·9	310	28	6·3	4·7	297
0.3 a.m.s.l.	27	8·1	5·5	311													28	7·8	5·3	304	28	6·1	4·4	299
0·6 ,,	27	8·7	6·2	303													28	10·9	8·3	310	28	7·8	6.3	297
0·9 ,,	26	9·1	7·8	292													27	10·3	8·6	311	28	8·8	7.2	294
1·5 ,,	26	10·3	9·4	289	24	5·4	1·7	063	28	4.0	3·1	071	27	6·1	4·2	098	26	10·7	8·7	302	27	9·4	8·1	295
2·1 ,,	22	11·5	10·5	282	24	5·0	3·1	010	27	4·3	2·9	060	27	4·1	2·4	352	26	11·3	9·5	299	24	10·9	9·5	302
3.0 ,,	7	12·7	11·5	266	24	5·3	3·7	048	24	5·0	3·4	046	27	5·3	2·4	029	20	11·2	10·3	295	23	10·9	9·7	297
3·6 ,,	2	11·5	11·5	255	24	6·1	3·5	063	22	6·5	4·3	047	25	7·0	4·9	054	12	10·6	4·5	279	22	14·1	13·1	292
4·5 ,,					23	8·3	4·4	058	22	7·8	4·8	047	24	8·4	6·7	060	6	13·1	12·5	272	19	20·9	20.0	292
5·4 ,,					17	8·4	5·5	071	19	8.9	6·7	051	18	8·2	5·0	057	4	17·9	16·5	266	18	25·6	24.7	282
6·0 ,,					12	8·2	3·9	048	19	9·5	7·5	050	12	8·5	5·2	039	2	15·0	15·0	270	13	26·8	25·2	286
7.2 ,,					5	11·4	3·8	320	19	10·1	7·0	048	2	11·7	7·6	028					5	31·3	29·3	270
9.0 ,,									15	9·7	1·1	036									1	39·5	39·5	235

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1.0	0.2	187	28	2.7	0.4	040	28	1.7	1.1	105	28	2.3	1.3	233	28	3.4	2.5	272	28	2.5	1.0	021
0.15 a.g. .	28	5.1	1.3	150	28	3.9	1.0	075	28	5.4	3.3	102	27	6.1	3.4	271	27	5.6	4.3	288	27	5.3	1.7	355
0.3 a.m.s.l. .													27	7.1	4.3	287	27	6.1	4·9	285	27	5.2	0.5	287
0.6 ,, .	28	3·1	0.8	121	28	3.4	0.5	057	28	3.4	2.1	096	27	7.5	5.2	297	27	7.4	6.3	284	27	5.0	1.3	298
0.9 ,, .	28	5.4	2.1	140	28	3.9	0.3	085	28	5.6	3.0	124	27	7.8	6.1	295	27	7.9	7.0	281	26	6.0	2.6	311
1.5 ,, .	28	5.3	1.0	269	28	4.2	0.5	254	27	4.4	0.9	268	25	9.6	8.8	292	25	9.7	8.9	283	23	7.8	6.1	320
2.1 ,, .	28	7.5	4.1	274	28	5.0	2 2	260	27	5.9	3.3	279	24	12.3	11.6	290	24	11.5	10.8	290	21	10·5	9.3	312
3.0 ,, .	27	9.2	5.6	295	28	7.6	4.1	295	25	8.4	5.4	292	24	17.7	17.0	286	22	17.4	16.9	290	19	11.8	10.3	302
3.6 ,, .	25	8.5	5.0	308	27	9.2	6.3	301	21	9.3	5.7	299	13	18.8	18.1	278	20	20.6	20 0	284	17	13.4	12.9	303
4.5 ,, .	22	9.0	5.5	323	25	10.9	7.8	301	5	8.5	6.8	324	7	20.4	19.4	263	18	24.9	24.1	283	10	15.9	14.8	297
5.4 ,, .	15	9.1	5.6	320	23	12.1	7.6	297	2	7·3	6·9	327	2	22.0	21.9	277	12	28·6	27·4	287	4	11.5	11·5	300
6.0 ,, .	14	10.1	7.1	325	20	12.4	7.7	298									11	30·5	29.2	284	3	10·5	10·5	296
7.2 ,, .	7	8·4	5·3	299	17	13.5	10.4	305									3	39·8	38.7	275	1	6.0	6·0	245
9.0 ,, .	6	6.4	3.8	288	9	13.2	11.4	285																

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	3.3	0.7	112	28	3.2	0.9	180	28	0.8	0.6	275	28	3.1	2.3	338	28	1.6	1.0	288	27	0.4	0.2	234
0.15 a.g. .	27	4.9	1.5	098	27	7.4	3.1	171	28	5.0	3.0	343	28	4.2	2.9	336	28	4.9	3.1	319	27	5.9	3.7	092
0 3 a.m.s.l.	27	5.0	1.4	096	27	8·0	3.6	187	28	5.6	3.4	348	28	4.4	2.8	337	28	5.3	3.3	322	27	4.9	3.1	099
0.6 ,, .	27	4.6	0.2	031	26	7.0	2.6	219	28	6.3	3.9	350	28	3.9	2.9	335	28	5.6	3.5	334	27	4.9	1.7	053
0.9 ,, .	26	4.5	2.0	287	25	6.2	3.1	269	27	5.5	3.5	340	28	4.3	3.1	338	28	5.2	3.0	343	27	4.4	2.3	338
1.5 ,, .	21	7.4	6.2	307	25	8.2	6.0	293	27	6.4	4.3	314	28	5.9	4.4	311	28	6.0	3.4	329	27	6.5	5.1	312
2.1 ,, .	19	12.6	11.0	309	22	11.3	8.7	300	27	8.2	6.8	297	28	8.7	7.5	303	28	7.8	6.3	301	26	7.0	5.8	303
3.0 ,, .	19	13.8	12.7	298	16	15.1	13.6	304	24	10.7	10.2	293	28	12.7	11.4	295	25	11.5	10.7	299	24	10.4	9.5	295
3.6 ,,	18	15.3	14.0	243	3	16.0	14.6	289	7	13.2	12.9	279	28	15.6	14.4	290	9	10.9	9.9	311	18	13.5	12.8	288
4.5 ,, .	14	16.7	16.1	299					1	12.5	12.5	260	26	18.1	17.3	285	5	14.6	14.0	288	11	19.1	18.7	278
5.4 ,, .	11	15.5	15.5	290									24	21·1	20.4	285					2	16.0	15.9	298
6.0 ,, .	8	13.4	13.1	300									24	23·8	22.3	286								
7.2 ,, .													8	28.1	26.9	286								
9 0 ,, .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·8	0·5	358	28	0·5	0·3	003	28	1·3	1·3	307	28	2·3	1·8	296	28	1·5	1·2	323	28	0·9	0·8	034
0·15 a. g.	28	3·5	2·4	330	28	6·3	3·2	025	28	5·1	3·2	004	28	3.7	2·5	292	28	6·9	4·7	347	28	3·6	3·1	009
0·3 a.m.s.l.	28	3·2	2·2	334	28	5·2	3·1	029													28	3·6	3·3	357
0·6 ,,	28	3·9	2·4	330	28	4·5	1·9	013													28	3·6	3·1	334
0·9 ,,	28	3·7	2·1	327	28	3·9	1·3	295	28	5·6	3.1	012	28	3·6	2·5	295	28	5·8	3·7	010	28	2·7	2·1	331
1·5 ,,	28	3·9	2·6	302	28	5·3	4.5	260	28	4·1	2·2	282	28	3·8	2·5	295	28	4·6	1·8	307	27	2·5	1·3	036
2·1 ,,	27	5·8	4·7	277	27	7·8	6·5	275	27	6·3	5·0	254	28	5·0	3·7	280	28	4·9	3·7	238	25	4·3	3·5	045
3·0 ,,	23	10·7	9·7	288	23	11·5	10·5	280	27	9·4	7·4	279	28	9·6	7·5	286	27	8·9	6·5	276	21	4·9	3·4	050
3·6 ,,	23	15·0	14·4	284	2	12·5	12·3	296	6	9·2	7·8	297	27	12·0	10·1	287	9	7·8	7·0	304	19	5·7	4·2	065
4·5 ,,	20	20·2	19·7	282									26	13·3	12·0	286	1	10·0	10·0	350	17	6·1	4·6	083
5·4 ,,	16	25·9	25·6	284									23	13·9	12·3	288					7	6·6	5·3	056
6·0 ,,	9	27·7	27·2	283									20	14·1	12·7	295					2	9·5	9·5	606
7·2 ,,	1	38·5	38.5	290									12	13·9	12·9	303								
9·0 ,,																								

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I. S. T.	1730				2330				0830				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	4·3	3·8	288	28	1·1	0·4	330	28	0·1	0·1	188	28	0·8	0·8	235	28	1·0	0·7	029	28	2·0	1·2	287
0·15 a.g.	28	4·6	4.3	285	25	2·8	2·4	330	12	1·5	1 0	145	8	3·6	3·0	226	24	1·9	1·2	037	26	3·5	1·8	297
0.3 a.m.s.l.	28	4.8	4.5	283	25	3·2	2·6	328																
0·6 ,,	28	3.4	2.7	288	25	3·2	2·6	325																
0·9 ,,	28	2·5	1·3	001	25	2·9	2·0	331									24	2·2	1·6	043	26	3·6	1·7	288
1·5 ,,	28	4·4	3·7	054	24	3·4	1·5	088									24	2·9	1·6	306	26	3·5	1·3	277
2·1 ,,	28	5·8	5·3	059	21	4·3	3·5	073									23	4·8	3·0	300	22	4·4	2·9	307
3·0 ,,	25	5·5	4·6	073	15	5·9	5·3	055	12	4·2	2·7	258	8	5·9	5 5	279	22	9·2	5·5	292	20	6·3	4·9	313
3·6 ,,	25	5·6	4·2	075	10	5·7	4·6	055	11	8·8	8·4	272	8	10·6	10·2	281	21	11·5	9·1	298	20	9·0	7·8	312
4·5 ,,	21	7·0	5·5	081	2	7·3	3·7	145	8	17·7	17.3	278	7	16·1	15·6	273	17	15·6	12.8	286	20	15·3	14·6	298
5·4 ,,	12	7·2	5·5	066	1	9·5	9·5	075	5	21.3	21.0	271	5	21·0	20·9	268	12	21·0	20·4	277	19	26·9	26·3	291
6·0 ,,	10	6·2	4·4	059					4	26·0	25.5	275	5	29·0	28·7	274	8	24·0	23·1	277	17	32·0	31·2	286
7·2 ,,	5	5·6	4·0	038					3	50·0	50·0	283	4	47·7	47·0	276	2	39·3	35·5	288	6	42·2	40·7	285
9·0 ,,	3	5·8	1·9	269									1	55·5	55·5	260								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0·8	0·6	028	28	2·3	1·3	347	28	0·9	0·3	278	28	1·4	0·1	316	28	2·1	0·6	205	28	1·9	0·3	054
0·15 a.g.	28	5·5	3·2	339	27	4·2	2·6	331	28	4·5	1·7	310	28	5·2	0·8	264	28	4·6	0·9	125	28	3·0	0·7	015
0·3 a.m.s. l.	28	5.9	3.7	340	27	4.4	2.6	332	28	4·9	1.7	207	28	5.1	1·0	288								
0·6 ,,	28	6.9	3.9	341	27	4.8	2.9	325	28	5.2	2.0	320	28	5·3	2·0	303								
0·9 ,,	28	6·3	3·9	321	27	5·7	3·4	307	28	5.1	2·2	245	28	5·7	3·5	297	28	5·8	1·4	077	28	3·1	0·6	003
1·5 ,,	28	7·9	6·8	284	27	8·8	7·2	295	26	7·4	6·8	289	25	8·2	7·4	296	28	4·6	0·6	173	28	4·3	0·7	005
2·1 ,,	26	12·2	11·3	284	25	13.4	12.2	296	26	12·2	11·2	292	25	11·7	11·1	297	28	5·2	0·6	223	28	4·3	1·0	297
3·0 ,,	26	15·8	14·7	286	22	17.8	17.1	293	26	17·4	15·9	287	13	15·3	14·3	282	28	7·0	0·9	261	28	6·4	1·7	319
3·6 ,,	25	18·5	16·4	281	19	20·3	19.4	288	24	19·2	17·8	285	1	19·0	19·0	265	27	8·2	2·5	337	28	7·8	2·3	333
4·5 ,,	25	19·6	17·5	273	17	23·1	21·7	282	23	20·8	19·5	275					26	9·5	3·1	349	27	9·3	3·8	335
5·4 ,,	24	23·8	22.2	268	7	26·8	26·1	274	23	22·4	20·0	278					25	7.9	3·2	019	27	10·2	3·5	344
6·0 ,,	24	27.8	25.2	270	5	26.9	26.3	278	23	25·2	23·9	276					25	9·4	3·7	011	27	10·8	4·3	341
7·2 ,,	22	27.0	26.0	272	2	27.0	27.0	275	23	30·0	28·7	277					16	9·9	5.1	355	26	12·5	7·1	333
9·0 ,,	15	26.0	25.1	273	1	22.5	22.5	280	14	30·7	29·5	273					10	5.7	2.4	338	22	10·2	5·9	310

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	4·0	1·4	255	28	1·8	1.4	080	28	2·5	2·0	141	28	1·7	1·2	120	27	0·5	0·2	070	28	2·0	1·1	023
0·15 a.g.	28	7·3	2·1	264	28	4·7	2·0	073	28	4·0	3·2	142	28	6·6	5·4	143	27	3·0	0·7	149	28	3·1	1·6	021
0·3 a m.s.l.					28	5·2	3·4	154	28	4.1	3.3	145	28	6·9	5·9	148	27	3·2	0·7	156	28	3·0	1·3	050
0·6 ,,					27	5·3	4·0	165	28	4.0	2.6	144	28	5·8	4·7	146	27	4·1	0·4	255	28	3·6	1.3	058
0·9 ,,	28	7·1	1·5	277	27	4.6	2.3	156	28	3.4	1.3	163	28	4·3	1·8	153	27	4·6	1·0	297	28	3·9	0·4	094
1·5 ,,	28	4·6	1·2	070	26	5.2	1.4	345	26	4.5	1.7	326	27	5·3	2·2	344	27	4·7	2·7	256	28	4·6	2.6	235
2·1 ,,	28	4·5	1·2	034	25	6.5	3·8	329	25	6.3	4.1	337	25	6·1	3·7	318	27	7·0	3·6	257	26	6·6	5·0	330
3·0 ,,	28	5·9	2·1	001	25	6·9	3·0	318	25	7·0	4·2	330	25	6·9	3·6	311	27	10·4	8·0	265	24	9·9	7·4	249
3.6 ,,	28	7·8	1·6	344	22	7·6	4·4	347	23	8·1	4·4	336	19	7·0	4·9	324	27	15·7	13·7	271	21	13.9	12.3	265
4·5 ,,	24	8.9	3·2	002	19	9·0	4·7	337	22	8·5	4·8	327	14	8·6	4·9	327	26	23.4	22·6	272	19	27·0	26·8	272
5·4 ,,	18	8·1	2·7	013	17	8·7	4·6	346	20	9.9	6.3	331	10	8·1	4·5	342	26	33·5	29 0	270	14	33.1	32·9	272
6·0 ,,	10	10·7	6·8	021	15	8·5	4·1	347	20	9·1	5·1	330	9	7·8	2·6	345	26	34·5	30·8	269	11	33·6	33·2	264
7·2 ,,					7	5·6	1.0	022	18	10·4	7·1	333	2	9·3	4·7	258	25	42·7	38·4	268	7	40·2	40·2	275
9·0 ,,					3	5.0	1·4	170	10	10.3	7.0	287					16	54.7	51·9	268	3	55·8	55·0	277

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1·0	0·3	004	28	1.4	0.4	218	28	1.6	0.9	205	28	4.9	3.6	302	28	1.8	1.4	256	28	1.9	1.3	316
0.15 a. g. .	28	3.7	1.7	005	28	3.3	1.1	163	27	7.0	4.8	256	26	7.0	5.7	299	26	8.8	7.2	285	26	4.7	1.8	280
0.3 a.m.s.l. .	28	3.7	1.6	005	28	3.3	0.4	185	27	7.9	5.0	275	26	7.6	6.4	298	26	9.3	7.9	289	26	5.1	1.6	247
0.6 ,, .	28	4.4	0.3	266	28	4.3	0.8	241	27	9.6	7.2	297	26	8.5	7.3	294	26	11.3	10.3	291	26	4.8	1.2	232
0.9 ,, .	28	3.9	1.3	245	28	4.3	2.6	259	27	10.2	8.6	294	26	8.9	8.1	287	26	12.4	11.8	290	23	5.3	1.5	321
1.5 ,, .	28	5.9	5.1	247	28	5.0	3.7	254	22	11.7	10.5	290	23	10.5	10.1	290	16	11.8	11.0	289	20	8.0	6.1	328
2.1 ,, .	28	7.9	6.0	242	26	6.7	5.8	250	13	11.8	11.0	286	19	14.4	13.4	295	8	10.5	9.7	283	19	8.9	7.8	321
3·0 ,, .	28	11.4	9.0	260	17	9.3	8.2	262	5	18.7	17.7	284	4	15.1	13.2	290	5	15.9	15.7	269	19	10.6	9.9	315
3.6 ,, .	28	16.3	14.6	272	6	12.0	11.5	270	2	22.5	20.7	236	2	24.0	23.6	270	1	19.0	19.0	275	15	11.8	11.1	323
4.5 ,, .	28	26.1	25.5	273	1	28.5	28.5	285													7	9.1	8.2	309
5.4 ,, .	27	33.1	32.1	271																	5	10.8	8.8	311
6.0 ,, .	27	34.6	33.6	271																	5	8·9	8·4	303
7.2 ,, .	26	43.1	40.6	270																	1	7.5	7.5	290
9.0 ,, .	10	53.8	51.0	274																				

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	5.9	3.0	157	28	4.0	2.3	227	28	2.4	1.1	280	28	2.7	1.8	267	28	0.8	0.4	280	28	3.4	2.6	332
0.15 a. g. .	28	7.1	4.1	150	27	7.4	4.0	207	28	7.1	4.2	305	28	6.1	4.1	275	27	6.1	3.8	328	28	5.1	3.8	333
0.3 a.m.s.l. .	27	7.0	3.8	136	27	6.7	3.2	205	28	8.2	4.7	307	28	6.3	4.3	272	27	4.6	3.1	300	28	4.7	3.6	333
0.6 ,, .	26	5.0	2.0	137	27	5.3	2.1	200	28	7.3	4.9	297	28	7.1	4.9	275	27	7.5	5.0	325	28	5.3	3.7	323
0.9 ,, .	26	4.4	0.6	273	26	5.4	1.3	253	28	8.1	5.7	292	28	7.6	5.7	277	26	7.8	6.5	314	28	5.8	4.3	302
1.5 ,, .	22	6.5	5.1	306	22	7.4	5.7	317	28	9.5	7.8	291	27	9.2	7.9	288	26	8.4	7.8	295	28	8.0	6.5	289
2.1 ,, .	19	10.8	9.9	312	18	11.7	10.5	320	27	12.1	11.2	290	26	12.8	12.1	297	26	11.4	10.4	290	28	10.3	8.8	284
3.0 ,, .	18	11.2	10.0	304	18	11.4	9.5	322	19	12.5	11.5	277	26	17.0	16.3	289	23	14.3	13.4	290	27	14.3	12.8	281
3.6 ,, .	16	12.4	11.4	315	6	10.1	8.7	280	16	15.1	14.2	276	25	18.4	17.6	286	20	16.9	16.3	287	26	17.6	16.2	284
4.5 ,, .	12	13.9	12.9	311	1	10·5	10.5	330	9	15.7	15.3	260	23	22.5	21.5	289	20	21.7	21.2	283	24	23.3	22.1	285
5.4 ,, .	10	12.7	12.1	310					8	22.7	22.1	261	17	27.6	26.8	284	16	27.0	26.8	286	22	28.2	26.6	281
6.0 ,, .	9	13.9	13.0	313					4	26·2	25.2	262	14	30.4	29.4	280	11	30.8	29.7	283	20	32.8	30.6	272
7.2 ,, .													9	41.3	39.6	280	4	39.4	39.0	289	13	37.3	36·4	282
9.0 ,, .													3	57.2	57.0	277					1	48.5	48.5	280

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0.6	0.3	291	28	0.4	0.2	214	28	2.8	2.2	229	28	0.9	0.5	225	28	1.0	0.3	109	28	1.5	0.9	349
0.15 a.g. .	28	5.2	3.3	359	22	0.9	0.4	100	25	3.8	3.3	248	24	2.1	1.1	236	27	4.6	1.4	081	28	4.1	3.4	348
0.3 a.m.s.l. .	28	4.4	2.6	360																				
0.6 ,, .	28	5.3	3.7	339													27	5.3	1.6	057	28	4.3	3.7	345
0.9 ,, .	28	5.5	4.0	308	22	0.9	0.3	129	25	3.6	3.2	250	24	2.0	0.8	221	27	6.4	3.7	017	28	4.4	3.4	339
1.5 ,, .	28	7.7	6.8	279	22	2.8	2.2	257	25	5.4	5.1	259	24	4.8	4.4	256	27	7.5	5.1	320	28	5.3	4.2	300
2.1 ,, .	26	9.7	8.6	281	21	6.0	4.9	269	23	7.1	6.7	253	24	8.1	7.6	255	26	10.2	8.9	287	28	8.4	7.6	286
3.0 ,, .	23	12.4	11.6	282	18	10.4	9.7	277	19	10.4	9.8	259	17	12.9	12.2	265	26	14.8	12.9	275	26	14.9	13.3	282
3.6 ,, .	6	14.4	13.3	283	12	16.3	15.0	283	17	17.1	16.4	267	7	18.9	18.4	286	20	17.1	15.2	281	26	18.4	16.8	281
4.5 ,, .					1	26.5	26.5	280	13	29.0	28.6	274					11	19.0	17.8	280	22	22.3	20.8	285
5.4 ,, .									7	36.9	36.4	272					3	27.8	27.6	278	21	27.7	25.8	285
6.0 ,, .									5	39.8	39.0	267					1	25.0	25.0	280	18	29.2	28.0	288
7.2 ,, .																					9	30.1	29.8	291
9.0 ,, .																					1	23.5	23.5	285

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	0.9	0.5	063	28	0.2	0.2	044	28	1.6	0.5	233	28	0.4	0.2	076	28	1.3	0.9		28	2.7	2.2	325
0.15 a.g. .	28	5.6	3.3	019	27	3.9	0.5	196	28	4.4	1.0	243	28	4.7	0.5	054	27	5.4	2.4		28	4.3	4.1	309
0.3 a.m.s.l. .																								
0·6 ,, .	28	6.1	3.7	019	27	1.9	0.3	156	28	3.0	0.7	245	28	3.3	0.5	053	27	5.7	2.3	346	28	4.5	4.2	311
0·9 ,, .	28	5.7	3.2	360	27	5.1	1.0	216	28	4.3	1.3	276	28	4.9	0.5	353	27	6.3	3.3	325	28	4.9	4.0	307
1·5 ,, .	28	5.8	3.9	296	27	6.4	2.9	275	28	4.6	2.5	285	27	5.2	2.9	277	26	7.1	5.9	292	28	6.0	4.9	297
2·1 ,, .	27	8.9	7.6	283	27	8.9	5.6	331	27	5.7	4.3	284	26	7.0	5.5	284	25	8.1	7.1	289	27	7.5	6.2	289
3·0 ,, .	25	13·9	12.7	286	24	10.6	7.6	298	25	9.3	6.8	296	25	8.6	7.2	307	17	11.6	9.7	283	24	7.4	10.6	296
3·6 ,, .	11	16.5	15.6	284	21	11.5	9.8	309	23	10.9	9.0	301	9	9.0	8.4	331	5	16.2	16.0	282	23	21.0	15.0	291
4·5 ,, .					17	11.0	9.2	307	22	13.0	11.0	297	1	18.0	18.0	340	2	16.5	16.5	275	20	21.9	21.0	282
5·4 ,, .					12	9.3	8.2	309	20	14.7	12.2	291									17	33.1	26.4	285
6·0 ,, .					8	7.4	7.1	322	18	14.3	12.2	295									13	28.9	27.8	282
7·2 ,, .					4	7.5	7.3	277	11	15.3	12.1	295									3	39.4	39.0	293
9.0 ,, .					3	10.5	9·2	308	3	13.8	11.8	292												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I.S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1.6	1.2	026	28	1.3	0.3	341	28	2.5	1.3	307	28	1.7	1.4	036	8	2.0	0.6	120	28	1.6	0.9	039
0.15 a.g.	27	5.6	3.1	004	25	4.3	1.6	323	28	4.0	2.1	305	28	4.6	3.6	041	18	3.3	1.7	212	28	4.5	0.8	304
0.3 a.m.s.l.					25	4.3	1.5	321	28	4.0	2.1	302	28	4.0	3.1	040	28	3.3	1.4	212	28	4.0	0.4	351
0.6 „	27	5.4	2.8	001	25	6.6	3.3	323	28	4.1	2.3	299	28	5.9	2.6	020	28	3.3	1.5	244	28	4.5	1.3	285
0.9 „	27	4.6	2.2	322	24	7.4	4.8	309	28	5.1	2.8	296	25	6.3	3.7	338	25	3.6	2.3	276	28	4.6	2.7	290
1.5 „	27	5.0	3.7	276	24	9.8	8.4	296	26	7.0	5.5	289	23	7.5	6.2	304	24	6.7	5.7	295	25	6.6	5.4	295
2.1 „	27	7.4	5.9	270	24	14.1	13.2	290	24	11.5	10.6	292	20	11.5	10.7	300	23	13.1	11.1	302	22	11.1	10.0	296
3.0 „	21	12.3	11.0	284	19	18.7	17.6	289	23	17.9	16.8	293	15	15.4	14.5	297	19	16.3	15.3	301	16	15.3	14.8	306
3.6 „	11	17.5	16.8	280	11	19.6	18.3	274	18	19.9	19.3	296	9	14.6	12.9	285	19	19.2	18.0	298	4	15.5	15.0	299
4.5 „	1	19.5	19.5	280	4	24.7	22.8	275	13	23.7	23.1	294	2	12.7	11.9	295	16	19.3	19.1	298				
5.4 „					1	24.5	24.5	290	11	28.0	27.3	287					11	22.3	20.0	297				
6.0 „					1	24.5	24.5	285	8	28.4	27.7	290					8	21.1	20.7	300				
7.2 „									1	24.0	24.0	275					2	20.0	19.7	308				
9.0 „																								

Station	JODHPUR																MADRAS							
Time in I.S.T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2.8	2.1	037	28	2.1	1.2	043	28	2.8	1.0	325	28	3.1	2.1	004	28	2.0	0.3	182	28	3.5	1.5	085
0.15 a.g.	27	6.8	4.8	038	28	2.7	1.5	049	28	5.6	3.9	346	28	7.9	4.1	013	28	5.2	1.3	094	28	4.1	2.0	104
0.3 a.m.s.l.	27	5.8	4.6	036	28	2.5	1.3	047	28	4.3	2.5	343	28	6.3	3.4	010	28	5.0	2.1	106	28	4.0	1.9	108
0.6 „	28	5.6	3.3	018	28	2.9	0.9	030	28	4.0	2.1	331	28	7.3	3.5	007	28	4.9	2.0	107	28	4.1	1.7	086
0.9 „	27	3.1	2.5	324	28	4.1	1.6	339	28	3.1	1.2	285	28	5.3	1.7	332	28	4.9	2.9	083	27	4.2	2.1	060
1.5 „	28	5.6	3.3	298	28	5.6	3.6	301	28	3.6	1.8	287	28	4.8	3.1	255	28	6.1	4.5	044	24	5.9	5.2	046
2.1 „	28	6.8	5.5	280	28	7.2	5.3	288	28	6.1	4.9	277	27	6.1	4.8	270	28	5.4	4.1	038	19	6.3	5.3	038
3.0 „	28	11.6	9.8	278	26	11.1	10.0	284	28	11.7	10.5	279	24	10.5	9.6	286	28	5.0	3.2	022	18	6.6	4.8	046
3.6 „	28	13.8	13.4	276	26	15.0	13.7	280	28	16.0	15.1	273	12	16.7	15.0	292	28	5.5	3.1	040	15	9.0	6.8	051
4.5 „	28	21.6	20.5	276	24	20.9	20.0	281	28	20.4	19.6	271	3	25.3	24.0	270	28	7.6	3.7	052	13	8.6	7.3	054
5.4 „	26	25.6	24.6	275	23	25.4	24.6	280	28	23.9	23.2	274					28	7.9	4.0	052	12	9.8	8.2	061
6.0 „	25	28.6	26.4	276	15	29.9	28.3	280	28	26.5	25.4	273					27	8.6	5.2	048	9	8.4	6.0	047
7.2 „	24	36.7	33.4	275	5	36.8	36.4	290	27	35.5	34.3	272					27	10.4	4.8	050	9	9.6	5.5	046
9.0 „	16	38.4	36.3	268	1	65.5	65.5	294	20	42.6	41.3	272					26	10.2	3.2	028	9	8.4	1.6	042

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	4.6	3.1	095	28	1.9	0.9	117	28	2.5	2.1	352	28	2.9	2.6	359	28	2.6	2.1	359	28	0.6	0.5	058
0.15 a.g.	28	6.7	4.9	098	28	5.2	3.3	110	28	4.5	3.9	349	28	5.0	4.4	005	28	4.4	3.6	355	26	3.3	2.4	066
0.3 a.m.s.l.	28	6.0	4.1	097	28	5.5	3.7	108	28	4.5	3.8	350	28	5.2	4.5	359	28	4.3	3.5	357	26	3.3	2.4	061
0.6 ,,	28	5.1	2.9	085	28	5.7	4.1	094	28	3.9	3.1	352	28	5.0	4.2	359	28	4.1	3.3	008	26	3.1	2.3	057
0.9 ,,	28	4.7	2.9	069	26	5.5	3.9	073	28	3.1	1.9	025	28	4.4	3.1	015	28	3.6	2.3	024	26	3.0	1.5	076
1.5 ,,	27	6.1	4.7	040	26	5.4	3.9	039	28	4.3	3.9	085	25	5.2	2.9	065	28	4.9	3.2	056	25	2.8	1.3	190
2.1 ,,	27	5.6	5.0	028	25	4.9	3.9	033	26	4.9	3.9	081	21	5.0	3.1	063	28	5.1	3.8	065	20	5.2	3.7	220
3.0 ,,	27	5.5	4.1	043	23	4.9	2.7	036	25	4.4	3.1	075	20	3.7	2.2	072	25	5.2	3.4	063	16	6.4	4.7	244
3.6 ,,	28	6.8	3.3	038	22	5.4	3.6	063	24	6.4	4.9	070	15	8.6	6.7	077	19	6.9	5.6	073	9	9.5	7.1	247
4.5 ,,	28	7.9	3.6	050	19	6.4	3.2	055	22	8.3	7.6	077	10	8.9	7.1	083	9	7.8	7.1	075	5	16.1	14.2	269
5.4 ,,	28	7.6	3.3	050	16	8.2	3.9	060	20	8.1	7.5	076	7	9.1	7.8	089	1	5.0	5.0	060	4	23.7	21.0	269
6.0 ,,	28	8.3	4.7	040	13	8.5	3.3	054	11	8.7	8.1	076	3	6.5	5.9	063					1	26.0	26.0	265
7.2 ,,	28	10.6	5.5	034	3	7.7	7.4	056	4	11.6	8.3	304	2	10.5	9.9	059								
9.0 ,,	28	9.5	1.6	022					1	15.0	15.0	050												

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0.9	0.7	018	28	0.9	0.9	042	28	1.4	0.9	011	28	2.3	1.0	057	28	2.3	0.9	320	28	2.0	1.2	027
0.15 a.g.	27	3.2	2.0	060	28	2.7	2.2	033	28	5.7	4.2	047	28	3.1	0.7	031	28	4.2	1.8	330	28	6.1	3.7	052
0.3 a.m.s.l.	27	3.3	2.2	065	24	3.5	2.9	037																
0.6 ,,	27	2.9	1.9	084	24	2.9	1.9	056	28	5.4	3.0	048	28	3.2	1.1	043	28	4.0	1.6	334	28	6.0	3.1	039
0.9 ,,	27	2.4	1.3	113	24	2.8	1.1	090	28	4.7	1.4	009	28	3.2	0.6	353	28	3.6	1.1	309	28	4.8	2.1	009
1.5 ,,	26	3.8	2.5	206	23	3.5	2.1	203	28	5.6	4.1	296	26	5.2	3.9	288	28	4.6	3.0	288	28	4.6	3.2	276
2.1 ,,	22	5.6	4.9	204	18	4.5	3.6	220	28	8.6	6.9	282	26	8.6	6.8	273	28	6.7	5.2	277	28	7.7	6.3	268
3.0 ,,	13	6.7	5.6	207	12	7.3	5.3	231	28	12.3	9.6	277	23	12.8	10.9	284	28	11.6	9.8	281	25	11.2	9.4	281
3.6 ,,	11	8.0	5.7	223	3	14.8	14.5	250	27	14.2	11.8	280	25	14.7	13.4	283	28	15.6	13.9	283	10	12.9	12.3	284
4.5 ,,	7	9.7	7.3	257					27	17.7	16.4	283	25	18.2	16.4	283	28	18.7	17.9	282	1	13.5	13.5	290
5.4 ,,	5	20.0	19.5	254					26	20.0	18.6	280	22	18.9	17.5	287	27	20.1	18.5	283				
6.0 ,,	4	24.8	24.7	264					26	20.6	19.1	287	22	19.5	18.2	292	27	22.3	20.4	287				
9.2	2	41.3	41.3	270					26	23.3	21.4	286	17	20.1	19.3	287	27	23.9	22.7	285				
9.0 ,,									21	26.0	24.5	279	8	17.0	16.0	275	25	25.4	24.5	275				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	NANPARA								NEW DELHI															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1.0	0.3	328	28	2.3	1.7	295	28	2.6	2.0	340	28	5.4	4.5	303	28	3.3	2.7	315	28	3.1	2.5	305
0.15 a.g.	26	7.1	4.8	310	26	5.8	3.9	291	28	8.2	6.3	334	28	6.4	4.9	304	28	6.8	5.5	307	28	8.3	6.5	317
0.3 a.m.s.l.	26	7.2	4.9	312	26	5.8	3.8	287	28	3.7	2.5	335	28	6.6	4.6	305	28	4.4	3.7	311	28	6.6	5.5	312
0.6 ,,	25	8.2	5.8	304	26	6.9	5.0	283	28	7.6	6.3	323	27	7.7	6.1	311	28	6.2	4.8	305	28	8.6	6.6	315
0.9 ,,	25	8.8	6.7	301	26	7.8	5.7	286	28	7.5	5.8	314	26	9.9	9.3	308	28	6.2	4.6	301	27	8.6	7.3	310
1.5 ,,	25	10.2	7.9	303	25	9.7	7.6	295	28	8.7	7.3	299	24	11.9	10.5	306	28	8.1	6.1	300	25	9.6	9.1	301
2.1 ,,	25	12.4	8.3	303	25	11.5	8.4	300	28	10.1	8.4	290	23	13.7	11.9	301	28	8.8	7.3	293	22	10.9	10.3	299
3.0 ,,	21	12.4	11.3	294	22	12.3	10.5	302	28	12.9	11.0	288	22	15.0	14.1	298	28	11.2	9.9	292	14	10.5	9.9	290
3.6 ,,	13	13.2	11.6	289	21	13.5	12.7	298	28	15.3	13.1	285	21	16.1	14.7	293	28	13.9	12.9	290	1	9.5	9.5	240
4.5 ,,	9	16.2	15.3	274	20	20.4	19.8	294	28	19.8	18.0	274	17	20.4	19.4	287	28	18.8	17.5	283				
5.4 ,,	5	17.8	17.5	265	19	26.0	25.0	286	28	23.6	21.8	273	14	27.2	15.6	291	28	22.9	21.1	277				
6.0 ,,	4	21.9	21.5	273	17	29.0	28.4	285	28	25.5	23.9	275	5	23.8	22.8	291	27	25.2	23.6	274				
7.2 ,,	2	27.7	27.1	274	9	37.7	36.9	284	27	32.7	30.8	265	3	30.0	27.5	301	27	31.9	30.2	278				
9.0 ,,					3	61.3	61.0	283	22	41.6	39.5	275	1	42.5	42.5	275	24	39.4	37.9	278				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	0.4	0.4	241	28	1.2	1.0	297	28	0.8	0.6	244	28	0.8	0.7	061	28	2.7	2.3	060	28	2.1	1.9	050
0.15 a.g.	28	2.6	0.8	302	28	3.1	2.1	302	28	3.6	2.4	295	27	5.0	4.1	043	28	4.2	3.7	054	28	5.5	4.9	053
0.3 a.m.s.l.													27	5.1	4.0	046	28	4.8	4.2	057	28	5.5	4.8	054
0.6 ,,	28	1.7	1.3	235	28	2.4	1.5	306	28	2.1	1.3	254	27	4.8	3.8	063	28	5.6	4.1	068	28	5.1	4.4	065
0.9 ,,	28	4.1	1.2	357	28	3.5	2.5	299	28	4.6	3.0	312	25	5.1	3.4	076	25	5.9	4.0	084	28	5.0	3.5	077
1.5 ,,	27	4.4	0.5	219	28	4.1	2.4	288	28	4.7	1.5	299	25	5.8	4.2	109	24	5.4	4.4	104	26	5.8	4.6	100
2.1 ,,	26	4.8	2.7	231	28	5.5	3.4	277	27	4.9	1.1	201	25	5.6	4.5	114	20	5.6	4.9	116	26	5.5	4.4	109
3.0 ,,	20	8.5	5.9	295	28	8.5	5.3	288	26	7.0	3.8	295	25	6.1	4.0	101	17	6.0	4.0	101	27	4.8	3.4	107
3.6 ,,	5	8.6	6.4	301	27	9.9	6.9	297	20	8.0	5.5	305	24	6.2	4.0	112	14	5.8	4.0	105	27	5.1	1.4	114
4.5 ,,	1	13.0	9.1	310	27	10.3	7.8	286	7	8.9	6.3	319	24	6.0	3.5	104	12	6.0	3.7	104	26	6.1	3.2	098
5.4 ,,	1	14.0	14.0	285	26	11.7	9.8	289	4	9.0	7.9	302	21	6.9	3.0	088	8	6.6	5.2	073	24	7.3	4.2	083
6.0 ,,					25	13.2	10.9	299	1	10.0	10.0	340	18	7.3	3.0	063	8	6.9	5.6	069	22	6.8	3.6	084
7.2 ,,					17	11.3	10.2	307					18	8.3	4.6	067	7	8.6	6.3	080	19	8.7	3.2	064
9.0 ,,					9	7.9	6.5	290					15	8.9	1.6	106	3	9.0	7.5	120	12	5.9	4.8	106

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	2·1	1·8	053	28	1.3	0·8	022	28	1·4	0·6	280	28	2·3	0·5	041	28	0·4	0·1	333	28	1·4	0·7	251
0·15 a. g.	28	4·5	3·7	055	26	5.1	2·5	045	27	3·5	1·7	302	27	5·7	1·9	014	28	4·6	0·7	307	28	4·2	2·2	260
0·3 a.m.s.l.	28	4·5	3·9	057													28	4·7	0·7	308	28	4·4	3·2	262
0·6 ,,	28	4·8	4·0	068	26	5·7	2·1	035	27	3·7	1·8	299	27	5·9	1·9	350	27	4·0	0·2	158	28	4·7	2·4	258
0·9 ,,	20	4·3	3·1	094	26	5.2	1·7	003	27	3·9	2·2	292	27	5·5	1·6	300	27	4·1	0·3	214	28	5·2	2·4	256
1·5 ,,	19	4·7	3.6	122	26	6·1	4·1	283	26	5·2	3·6	283	25	5·8	4·2	280	26	4·6	1·3	268	28	5·1	1.8	277
2·1 ,,	14	4.5	3.5	112	22	9·6	8·0	293	25	8·0	6·5	294	25	8·5	7·0	281	22	8·0	6·3	283	27	6·4	5·2	299
3·0 ,,	11	4·1	3.0	080	19	14·2	13·3	289	22	13·5	11·9	299	11	20·1	17.1	297	19	14·5	14·2	284	24	14·1	13·7	284
3·6 ,,	4	4·9	4.5	073	12	12·9	10·9	282	20	14.9	13.5	300	5	13·0	12·7	309	15	16·2	15·8	282	21	16.6	16·2	284
4·5 ,,	1	7.5	7.5	130	1	11·5	11·5	310	19	16·5	15.2	295	2	15·7	15.5	309	7	16·9	16·1	269	13	20·6	19·9	277
5·4 ,,					1	17·0	17.0	315	17	18.7	17.1	302					6	20·3	19.4	266	6	25·3	24·6	273
6·0 ,,					1	18·5	18·5	330	14	15.7	14.8	300									3	24·1	23·8	276
7·2 ,,									7	16.6	16.4	293												
9·0 ,,									3	14.7	14.4	278												

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·0	0·7	048	28	1·9	1·0	022	28	4·8	4·5	326	28	2·4	1·9	350	28	1·4	1·0	025	28	3·3	2·8	078
0·15 a. g.	28	6·4	5.9	017	28	3·3	1·9	032	28	7·7	7·5	331	28	6·6	5·9	351	28	4·3	3·3	038	28	5·2	4·9	080
0·3 a.m.s.l.	28	6.5	5·6	019	28	3·9	2·6	029	28	6·6	6·2	331	28	6·6	5·6	349	28	4·9	3·6	047	28	5·3	4·9	078
0·6 ,,	28	5·8	4·2	015	28	4·3	2·7	010	28	4·8	4·2	336	28	5·9	4·9	351	28	6·1	4·4	066	28	4·9	4·4	070
0·9 ,,	28	5·0	3·5	014	27	4·2	2·4	355	28	4·4	3·2	349	28	4·9	3·6	351	28	5·5	3·8	052	28	4·8	4·1	066
1·5 ,,	28	4·8	2·2	265	27	4·7	2·6	267	28	4·5	1·8	299	28	4·2	0·8	310	28	5·5	3·9	027	28	5·4	4·9	040
2·1 ,,	28	6·2	3·3	246	27	5·6	3·4	273	28	5·8	3·0	275	28	5·3	1·6	253	26	5.5	4·3	036	28	6·1	5·3	031
3·0 ,,	28	9.2	6·7	291	27	9·3	6·5	291	28	9·8	6·1	297	26	7·3	4·5	289	26	6·3	5·5	053	27	6·5	4·3	040
3.6 ,,	28	10·4	8·3	289	25	10·6	7·7	309	28	11·1	7·9	297	14	6·8	5·0	289	20	7·5	5·1	070	27	7·5	5·5	050
4·5 ,,	28	13·0	10·6	285	24	10·7	8·3	282	28	12·7	9·9	286	5	6.6	4·5	309	17	8·4	5·0	078	25	8·5	6·6	061
5·4 ,,	28	14·2	12·2	287	23	11.8	11.8	295	28	13·0	10·8	288					13	8·0	5·1	052	21	8·1	6·6	060
6·0 ,,	27	16·3	14·4	298	23	13.4	11.6	302	28	15·0	13·0	296					10	8·9	6·5	053	21	8·3	7·0	061
7·2 ,,	27	19·5	17·4	290	17	13.9	12.7	298	28	18·7	17·4	296					5	10·2	5·8	049	19	9·7	6·1	057
9·0 ,,	21	16·5	15·0	290	8	10.1	7.7	262	24	19·5	17·8	279									10	10.1	4·2	012

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	2.6	2.1	091	28	1.9	1.7	353	28	1.4	0.7	313	28	3.1	2.6	261	28	1.6	1.0	341	28	0.1	0.1	337
0.15 a.g. .	28	7.1	5.8	089	28	3.4	2.6	347	28	2.3	0.7	323	28	4.1	3.3	269	28	3.3	1.6	322	28	3.0	1.9	349
0.3 a.m.s.l.	28	7.7	6.2	087	28	3.4	2.6	343	28	2.4	0.8	310	28	4.2	3.3	270	28	3.4	2.0	315				
0.6 ,, .	28	8.2	6.8	080	28	3.4	2.7	333	28	2.5	1.0	350	28	3.3	1.7	259	28	3.8	2.3	321				
0.9 ,, .	28	7.2	5.8	066	28	3.3	1.9	018	27	3.0	1.6	028	28	2.3	1.1	025	26	3.1	2.3	003	28	4.1	1.7	351
1.5 ,, .	28	6.0	5.1	036	28	3.4	2.6	044	24	4.3	3.5	035	28	5.3	5.1	043	26	5.9	5.1	043	27	5.8	3.5	295
2.1 ,, .	27	5.8	4.6	029	28	4.3	3.0	046	22	5.1	4.3	043	28	5.6	5.2	046	25	6.3	5.5	060	27	7.9	5.9	280
3.0 ,, .	25	6.4	5.1	039	28	5.9	4.4	063	17	5.0	4.2	067	28	6.4	4.2	062	23	5.7	4.4	074	26	11.8	10.5	277
3.6 ,, .	21	7.5	5.7	061	28	7.1	5.9	066	16	7.8	6.3	070	28	7.4	5.4	060	19	7.7	6.2	071	23	14.6	13.2	281
4.5 ,, .	13	10.0	7.3	071	28	8.1	7.0	078	13	9.0	8.7	070	28	8.0	6.8	066	11	6.5	4.5	074	20	18.8	17.8	285
5.4 ,, .	4	6·7	1·6	064	28	9.6	8.7	075	10	11.0	10.8	076	28	9.2	7.6	067	5	8.7	7.9	066	7	25.6	23.6	287
6.0 ,, .					28	9.2	8.2	071	9	12.5	12.3	068	28	9.8	8.9	068	4	7.7	6·3	059	2	28.0	25.5	284
7.2 ,, .					28	9.8	8.0	070	8	13.1	12.1	072	28	9.1	7.7	068	2	10.7	10.5	126				
9.0 ,, .					28	9.9	7.6	085	7	11·7	10·3	079	27	9.5	7.2	078								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	28	1.0	0.5	296	28	0.4	0.3	327	28	0.8	0.7	006	28	2.8	2.4	293	28	0.4	0.4	351	28	3.8	3.0	008
0.15 a.g. .	28	2.9	0.5	347	28	3.4	1.9	345	28	5.0	3.7	014	28	4.4	4.0	283	28	4.9	4.5	351	28	6.7	5.5	015
0.3 a.m.s.l. .									28	6.2	4.5	003	28	4.7	3.9	293	28	6.2	5.7	346	28	6.0	5.0	019
0.6 ,, .									28	7.2	5.0	355	28	3.8	2.7	311	28	5.8	5.2	342	28	4.7	3.6	010
0.9 ,, .	28	2.9	7.0	316	28	4.6	2.3	347	28	6.7	4.1	354	28	3.7	2.8	329	28	5.1	4.1	340	28	4.2	2.8	281
1.5 ,, .	28	3.6	2.0	293	27	4.0	0.9	293	28	6.3	0.8	260	28	4.7	1.5	320	28	5.7	2.7	345	28	4.3	2.9	330
2.1 ,, .	28	5.7	4.5	287	26	6.3	4.0	281	28	6.3	1.4	215	28	6.9	1.2	023	28	6.9	1.4	072	28	5.7	4.6	318
3.0 ,, .	27	12.3	11.2	286	26	11.5	10.0	283	28	6.9	2.1	310	28	8.5	2.0	360	28	7.5	0.9	016	28	8.4	7.2	308
3.6 ,, .	27	16.6	15.7	278	17	12.7	12.5	284	13	7.3	3.0	013	28	8.7	2.5	345	12	7.7	1.3	358	28	10.3	8.2	305
4.5 ,, .	27	22.2	21.3	280	2	19.7	19.1	293	3	8.0	2.6	360	28	9.5	3.2	314					28	12.0	11.5	288
5.4 ,, .	27	27.2	25.8	281									28	10·0	3·3	334					28	12.7	12.0	294
6.0 ,, .	24	30.9	29.6	282									28	10.2	4·0	330					28	14.9	12.0	285
7.2 ,, .	11	35.2	34.5	282									21	13.0	9.1	323					28	16.9	16.2	292
9.0 ,, .	1	30.0	30·0	280									2	6.7	6·2	024					17	14.7	14.2	291

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

February 1961 (Magha 12 — Phalguna 9, 1882 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	5·4	4·1	014	28	6·5	4·8	291	28	3·5	3.0	342	27	1·0	0·6	330	28	3·5	0·9	199	28	1·6	0·2	201
0·15 a. g.	28	4·7	3·5	009	28	6·4	5·5	306	28	9·0	7·5	343	27	5·6	3·5	345	28	3·4	0·8	189	28	5·8	2·2	050
0·3 a.m.s.l.	28	5·2	3·6	005	28	5·7	4·9	325	28	9·6	8·2	348	27	5·1	2·5	337	28	3·5	1·3	174	28	5·5	1·5	070
0·6 ,,	28	4·9	3·2	350	28	5·1	4·4	351	28	8·1	6·7	355	27	4·4	0·4	240	28	3·2	0·5	155	28	5·2	1·3	175
0·9 ,,	28	5·2	3·3	342	28	5·5	4·3	005	28	6·5	4·8	005	27	5·1	0·9	233	27	3·8	0·1	070	28	4·8	0·7	186
1·5 ,,	28	6·4	4·3	331	28	5·7	4·5	014	28	5·5	3·4	343	26	5·9	2·4	310	22	6.6	3·3	350	28	6·3	3·9	302
2·1 ,,	28	7·6	5·7	312	28	6·8	5·1	336	27	6·9	5·1	3.0	26	8·5	5·9	318	19	8·3	6·1	344	28	7·8	6·6	310
3·0 ,,	28	10·2	8·6	298	28	8·5	7·1	309	27	9·6	7·6	300	26	9·5	5·8	296	16	7·1	5.7	344	28	8.7	6·5	304
3.6 ,,	27	12·6	11·0	292	27	9·8	9·5	310	21	11·0	9·4	295	26	11·4	7·9	298	14	9·0	7·4	340	28	9.6	7·0	298
4.5 ,,	27	14·2	12·9	286	27	11·6	10·9	299	8	9·9	9·1	297	26	14·1	10·4	290	14	9·5	7·3	338	28	13.0	9·5	290
5·4 ,,	25	15·5	14·2	290	27	13·5	12·8	299	3	7·3	7·3	292	26	12·7	9·7	282	13	8·0	6·9	318	28	13·3	10·1	283
6·0 ,,	24	17·5	16·2	298	27	15·1	14·4	303	2	3·7	3·7	283	26	12·5	9·5	286	13	8.2	6.4	317	28	13·2	10·5	289
7·2 ,,	20	21·1	20·3	245	26	17·8	17·2	290					25	14·4	12·6	288	13	8.8	7·4	307	28	15·1	13·2	291
9·0 ,,	13	15·0	13·4	269	17	15·4	14·7	288					22	16·8	15·6	273	11	8·0	6·9	290	26	16·4	15·0	278

Station	VISAKHAPATNAM			
Time in I. S. T.	2330			
Ht. in Km.	n	V	v	D
Surface	28	1·1	0·3	173
0·15 a. g.	27	3·7	1·6	205
0·3 a.m.s.l.	27	4·7	2·6	208
0·6 ,,	27	5·6	2·3	210
0·9 ,,	25	4.5	1·8	243
1·5 ,,	22	5·3	2·8	327
2·1 ,,	22	6·4	4·3	331
3·0 ,,	20	7·9	5·5	313
3·6 ,,	18	9·4	6·2	318
4·5 ,,	16	9·1	4·6	316
5·4 ,,	9	6·7	3·8	325
6·0 ,,	7	8·1	4·1	335
6·2 ,,	4	4.1	3.1	330
9·0 ,,				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

ANANTAPUR

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	7·1	2·2	188
12·0	3	8·7	5·7	172
14·1	1	13·5	13·5	155
16·2	1	14·5	14·5	180
18·0	1	6·0	6·0	035
1·0	1	6·5	6·5	130

1730 hr.

Ht. in Km.	n	V	v	D
10·5	15	11·2	6·6	251
12·0	12	9·8	3·7	225
14·1	2	7·0	7·0	247

BAIRAGARH

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	71·0	71·0	240

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	32.0	31·5	276

BAJPE

0530 hr.

Ht. in Km.	n	V	v	D
10·5	6	8·2	0·2	218
12·0	4	9.8	0·7	171
14·1	1	2·0	2·0	240

1730 hr.

Ht. in Km.	n	V	v	D
10·5	12	7·0	0·9	262
12·0	10	8·3	2·5	182
14·1	8	11·1	4·6	198
16·2	3	7·2	5·7	269
18·0	2	9·7	7·1	252

BAMRAULI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	6	48·1	6·1	261
12·0	1	51·0	51·0	245

1730 hrs.*

Ht. in Km.	n	V	v	D
10·5	17	46·0	45·5	267
12·0	6	47·5	47·0	264
14·1	1	42·0	42.0	245
16·2	1	53·5	53·5	265

BANGALORE

1730 hr.

Ht. in Km.	n	V	v	D
10·5	13	8·9	2·0	207
12·0	9	11·3	3·3	210
14·1	7	8·4	5·5	340
16·2	7	4·1	2·6	247
18·0	6	4.8	3·6	039
21·0	3	16·5	15·3	098

BEGUMPET

0530 hr.

Ht. in Km.	n	V	v	D
10·5	3	6·7	2·4	351
12·0	2	10·5	10·4	219
14·1	2	14·0	8·6	217
16·2	2	7·5	5·7	220
18·0	2	4·5	1·1	255
21·0	1	7·5	7·5	040

1730 hr.

Ht. in Km.	n	V	v	D
10·5	3	12·2	8·2	309
12·0	1	6·5	6·5	215

COCHIN

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	6·5	6·5	265

DUM DUM

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	9	29·8	29·0	270
12·0	6	28·4	27·3	253
14·1	3	39·5	39·2	255
16·2	1	18.0	18·0	255

1130 hr.

Ht. in Km.	n	V	v	D
10·5	1	19·0	19·0	245
12·0	1	17·5	17·5	240
14·1	1	38·0	38·0	255
16·2	1	17·0	17·0	225

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	12	25·0	23·3	271
12·0	9	29·3	28·2	266
14.1	4	31·5	31·4	251

GADAG

0530 hr.

Ht. in Km.	n	V	v	D
10·5	7	5·6	4·8	201
12·0	4	6·3	3·7	268
14·1	2	9·3	8·7	261
16·2	1	2·0	2·0	150

1730 hr.

Ht. in Km.	n	V	v	D
10·5	20	9·2	6·0	260
12·0	17	8.8	5·4	142
14·1	9	10·5	6·4	218
16·2	6	9·5	2·5	204
18·0	4	10·9	4·0	259
21·0	3	18·8	8·1	229
24·0	2	22·0	21·5	105
27·0	1	22·5	20·4	115
30·0	1	37·5	37·5	080

GANNAVARAM

0530 hr.

Ht. in Km.	n	V	v	D
10·5	1	12·0	12·0	180
12·0	1	10·0	10·0	195

1730 hr

Ht. in Km.	n	V	v	D
10·5	8	9·9	6·9	238
12·0	7	12·0	9·3	208
14·1	5	17·1	13·2	205
16·2	4	10·7	7·9	181
18·0	4	5 5	2·2	186

GAUHATI

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	7	63·0	60·7	268
12·0	2	60·2	59·2	279

1730 hr.

Ht. in Km.	n	V	v	D
10·5	4	55·9	53·9	268

GORAKHPUR

1730 hr.

Ht. in Km.	n	V	v	D
10·5	1	69·0	69·0	270

JAGDALPUR

0530 hr.

Ht. in Km.	n	V	v	D
10.5	1	9·0	9·0	300

1730 hr.

Ht. in Km.	n	V	v	D
10.5	1	10.5	10·5	270

JODHPUR

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	11	44·2	42·7	270
12·0	4	35·6	34·8	261

1730 hr.*

Ht. in Km.	n	V	v	D
10·5	13	47·1	44.8	269
12·0	5	43·6	40·0	271

MADRAS

0530 hr.*

Ht. in Km.	n	V	v	D
10·5	25	9.0	2·4	173
12·0	21	11·5	7·1	174
14·1	19	14·1	8·4	175
16·2	12	15·3	3·5	152
18·0	6	13·0	5·1	329
21·0	1	40.0	40.0	290

1130 hr.

Ht. in Km.	n	V	v	D
10·5	9	7·8	2·5	181
12·0	7	12·5	7·4	162
14·1	6	15·1	7·0	124
16·2	3	17·8	15·3	133
18·0	2	10·2	7·7	243
21·0	1	6.5	6.5	215

1730 hr.

Ht. in Km.	n	V	v	D
10·5	25	9.3	2·3	178
12·0	23	12.6	7·8	166

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Ht. in Km.	n	V	v	D
MADRAS				
1730 hr.*				
14.1	21	14.1	9.3	163
16.2	15	15.0	13.3	143
18.0	8	10.2	7.0	095
21.0	2	9.0	8.8	113
24.0	1	11.5	11.5	080
NAGPUR				
0530 hr.*				
10.5	19	24.0	22.6	273
12.0	17	25.5	24.3	260
14.1	14	22.9	21.4	253
16.0	9	16.7	15.7	254
18.0	6	13·3	11.8	256
21.0	4	9.6	8.8	270
24.0	1	10.0	10.0	230
1130 hrs.				
10.5	2	20.5	20.0	278
12.0	1	22.5	22.5	260
14.1	1	24·5	24.5	255
16.2	1	28.0	28.0	210
18.0	1	10·5	10.5	260
1730 hr.*				
10.5	19	24.7	23.9	275
12.0	15	23.7	22.6	265
14.1	11	22.2	20.7	244
16.2	8	13.1	12.0	265
18.0	5	12.7	11.3	290
21.0	1	7.0	7.0	245
NANPARA				
1730 hr.				
10.5	1	63.5	63.5	280
12.0	1	56.5	56.5	280
NEW DELHI				
0530 hr.*				
10.5	14	43.5	42.1	276
12.0	3	39.8	39.4	275
1130 hr.				
10.5	1	51.5	51.5	265

Ht. in Km.	n	V	v	D
NEW DELHI				
1730 hr.*				
10.5	18	45.4	43.9	274
12.0	6	46.6	46.3	263
14.1	3	47.0	46.3	268
POONA				
1730 hr.				
10.5	4	5.4	3.6	268
PORT BLAIR				
0530 hr.*				
10.5	12	10.5	4.2	178
12.0	10	10.1	7.8	155
14.1	3	13.0	1.6	075
16.2	1	22.0	22.0	120
1730 hr.*				
10.5	5	7.1	6.1	133
12.0	3	12.2	11.1	133
14.1	1	21.5	21.5	105
16.2	1	32.5	32.5	115
RAIPUR				
1730 hr.				
10.5	2	16.7	16.3	268
12.0	1	20.5	20.5	290
SANTA CRUZ				
0530 hr.*				
10.5	16	16.0	14·8	268
12.0	13	24.2	15.0	258
14.1	10	19.3	15.7	238
16.2	7	12.7	11.7	270
18.0	1	3.5	3.5	360
1130 hr.				
10.5	4	11.0	10.5	241
12.0	3	13.1	13.0	210
1730 hr.*				
10.5	22	17.6	16·1	282
12.0	20	21.0	18.2	275
14.1	10	18.8	16.7	240
16.2	3	12.0	10.8	265
TIRUCHIRAPALLI				
1730 hrs.				
10.5	5	9.4	1.1	250

Ht. in Km.	n	V	v	D
TRIVANDRUM				
0530 hr.*				
10.5	28	10.3	7.7	113
12.0	25	13.2	10.1	119
14.1	24	16.5	11.2	110
16.2	13	12.8	11.5	108
18.0	2	5.7	4.5	150
1130 hrs.				
10.5	7	10.5	8.5	094
12.0	7	11.5	10.7	112
14.1	5	21.2	20.4	114
16.2	4	8.7	7.9	057
18.0	3	16.2	13.8	091
21.0	1	15.0	15.0	090
1730 hr.*				
10.5	27	9.7	7.6	112
12.0	26	12.9	10.2	126
14.1	24	16.2	11.0	058
16.2	15	9.3	7.7	194
18.0	9	9.0	7.2	112
VERAVAL				
0530 hr.*				
10.5	9	13·0	12.1	284
12.0	5	14.3	13.0	276
1130 hrs.				
10.5	9	15.7	14.5	260
12.0	5	14.9	14.1	276
14.1	1	13.5	13.5	270
1730 hr.				
10.5	13	17.3	16.6	287
12.0	6	12.7	12.1	263
14·1	2	14.5	12.6	271
VISAKHAPATNAM				
0530 hrs.*				
10.5	21	18.8	17·6	257
12.0	18	22·8	19.7	250
14.1	15	26·9	21.7	246
16.2	8	12.7	9.3	256
18·0	3	10.2	6.3	211

Ht. in Km.	n	V	v	D
VISAKHAPATNAM				
1130 hr.*				
10.5	10	7.9	6.8	255
12·0	9	10.6	9.5	228
14·1	9	18.0	14.8	213
16.2	7	11.6	7.7	220
18.0	7	5.1	2.8	235
21.0	4	6.5	3.5	264
24.0	1	7.5	7.5	115
1730 hr.*				
10.5	23	17.9	17.4	264
12.0	20	22.9	20.7	253
14.1	15	21.9	20.6	223
16.2	10	12.0	9.8	207
18.0	4	8.0	2.1	243
21.0	1	8·0	8.0	225

RADIOSONDE DATA

February 1961 (Magha 12—Phalguna 9, 1882 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bombay	Clock type	7th September, 1954	00 and 12	
3	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
4	Gauhati	Clock type	22nd July, 1955	00 and 12	
5	Gwalior	Clock type	28th June, 1960	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1949	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

February, 1961 (Magha 12— Phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (1001 mb.)						BOMBAY (1009 mb.)						CALCUTTA (1011 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	98	284.5	290	278	208·7	28	013	290.0	296	284	286.3	26	006	288·5	293	283	286.0
1000	28	104	..	..	..	..	28	094	..	..	..	..	26	102	..	..	..	..
900	28	997	287.1	292	279	276.9	28	1006	292.7	299	288	274.8	26	998	287.0	293	281	276.6
850	28	1476	284.4	291	276	267.7	28	1496	290.3	296	283	270.0	26	1478	284.4	288	278	271.8
800	28	1979	281.5	289	275	264.9	28	2011	287.5	293	283	267.7	26	1983	281.6	286	276	269.2
700	28	3073	276.5	283	271	255.1	28	3130	282.5	286	278	261.6	26	3081	278.5	287	271	260.3
600	28	4309	270.1	279	262	245.0	28	4394	275.8	280	272	251.5	26	4329	273.0	281	266	254.4
500	27	5733	261.5	270	256	..	27	5844	266.8	273	260	..	25	5757	264.6	271	260	..
400	27	7418	252.4	261	244	..	27	7577	256.4	260	252	..	24	7473	255.3	262	248	..
300	27	7435	240.0	247	229	..	25	9658	242.2	247	237	..	15	9571	240.4	247	232	..
250	24	10746	231.7	237	220	..	23	10928	233.7	239	229	..	10	10363	234.2	243	227	..
200	20	12248	223.1	227	217	..	20	12412	222.9	228	219	..	7	12354	223.4	228	221	..
175	19	13108	218.3	221	213	..	15	13294	217.1	221	213	..	5	13223	218·4	223	213	..
150	16	14065	213.6	217	209	..	14	14263	210.6	215	207	..	..	..	..	..	..	..
125	10	15224	208.8	218	205	..	13	15355	203.3	209	199	..						
100	6	16454	202.8	209	200	..	10	16659	197.7	203	197	..						
80	..	..	..	..	..	..	6	18247	200.7	207	197	..						

	GAUHATI (1006 mb.)						GWALIOR (989 mb.)						JODHPUR (986 mb.)					
Surface	28	049	286.7	292	283	284.5	17	203	282.5	288	278	280.5	28	218	286 3	300	279	275 6
1000	28	105	..	..	..	..	17	113	..	..	..	..	28	114	..	..	..	..
900	28	993	285.5	290	280	277.1	17	993	282.7	289	277	273.5	28	1006	288.0	296	280	270.9
850	28	1471	282.1	288	276	274.1	17	1466	280.2	286	274	270.1	28	1485	284.3	293	277	269.3
800	28	1971	278.6	284	273	270.4	17	1963	277.3	283	270	268.1	28	1990	281.0	292	273	266.9
700	28	3051	272.2	281	269	266.6	17	3039	271.6	275	266	264.2	28	3080	276.0	285	266	261.3
600	27	4275	268.0	278	262	..	17	4255	265.5	270	261	..	28	4315	270.0	278	261	251.7
500	27	5689	261.2	271	250	..	17	5653	258.7	267	252	..	28	5738	262.0	268	254	255·0
400	27	7367	251.7	262	243	..	17	7317	250.1	258	242	..	27	7433	254.0	260	246	..
300	23	9442	240.3	249	230	..	15	9372	238.2	246	229	..	21	9520	241.3	247	231	..
250	19	10689	233 0	243	222	..	11	10639	230.6	236	223	..	16	10800	234.6	247	219	..
200	19	12188	225.0	230	219	..	10	12125	223.6	229	218	..	11	12270	224.0	231	219	..
175	13	13078	220.6	226	215	..	8	12983	219.4	227	216	..	8	13432	219.6	227	215	..
150	8	14053	217·0	225	213	..	7	13969	215.4	225	211	..	7	14231	214.4	216	209	..
125	..	..	..	..	..		5	15054	207.6	212	204	..	5	15302	211.0	215	209	..
100	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (976 mb.)						NEW DELHI (988 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	015	296·0	298	293	293.8	27	311	287.4	293	281	280.1	28	210	284 2	289	279	279.6
1000	28	089	..	..	..	..	27	102	..	..	..	..	28	109	..	..	..	..
900	28	1002	292.8	296	290	282.7	27	1002	291.6	297	285	275.3	28	994	284.7	293	278	270.9
850	28	1493	290.6	294	287	276.4	27	1489	288.8	294	282	273.0	28	1470	281.9	292	275	266.9
800	28	2009	288.0	292	284	273.3	27	2001	285.5	289	280	269.6	28	1969	278.9	289	271	265.0
700	28	3128	282.3	286	278	265.3	27	3111	279.7	287	274	262.6	28	3052	272.8	283	264	255.1
600	28	4392	275.3	279	271	259.7	27	4364	274.0	279	268	252.9	28	4269	265.9	274	258	..
500	28	5841	266.9	270	263	..	27	5818	266.0	273	259	..	28	5670	257.8	265	248	..
400	27	7550	255.9	260	252	..	27	7512	254.6	263	249	..	28	7325	248.4	254	238	..
300	27	9644	240.2	245	237	..	25	9589	239.2	245	232	..	26	9375	236.1	245	226	..
250	25	10903	230.0	237	224	..	25	10845	230.2	237	225	..	22	10642	230.1	241	223	..
200	22	12359	217 7	228	211	..	24	12317	218.1	229	207	..	19	12135	222.9	229	217	..
175	21	13188	210.9	222	204	..	23	13150	212.5	224	204	..	15	13000	218·5	227	212	..
150	20	14141	204.4	216	197	..	23	14111	205.9	218	195	..	11	13915	212.3	221	203	..
125	16	15198	199.2	211	191	..	21	15194	200.0	211	191	..	8	15067	207.6	215	196	..
100	12	16423	196.2	204	189	..	19	16525	198.0	209	191	..	5	16425	205.8	213	195	..
80	10	17777	199.0	207	195	..	17	17839	198.3	211	192	..						
70	9	18544	201.1	210	196	..	14	18639	199.9	206	194	..						
60	8	19506	201.7	213	189	..	11	19592	202.3	209	198	..						
50	6	20505	202.7	212	193	.	9	20713	205.8	213	197							

Standard Pressure Surface mb.	PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)						VERAVAL (1012 mb.)					
Surface	26	079	296.3	298	293	295.2	28	064	297.2	299	296	294.4	28	008	283.5	297	283	283.5
1000	26	083	..	..	..	..	28	080	..	..	..	..	28	106	..	..	..	..
900	26	999	292.3	296	288	287.7	28	997	292.3	295	288	286.3	28	1012	290.0	298	283	268.5
850	26	1490	290.1	293	287	284.9	28	1489	289.3	293	285	281.6	28	1499	287.7	297	281	264.3
800	26	2006	287.4	291	284	280.7	28	2003	286.6	290	277	278 0	28	2010	285.7	293	279	263.2
700	26	3117	282.8	287	278	270.3	28	3120	281.3	285	275	267.2	28	3122	281.1	287	274	258.3
600	26	4388	275.6	284	270	261.2	28	4378	274.6	279	269	258.8	28	4379	274.2	279	265	253.3
500	25	5837	266.7	273	262	..	28	5827	266.4	271	263	..	28	5819	265.7	271	261	..
400	25	7564	256.3	262	252	..	28	7536	255.6	259	251	..	28	7530	254.0	260	249	..
300	25	9638	239.9	246	234	..	28	9624	238.9	247	230	..	17	9642	239.0	246	232	..
250	25	10894	230 4	239	223	..	28	10877	230.4	238	221	..	10	10919	232.3	240	228	..
200	25	12359	218.0	231	211	..	27	12338	217.0	226	208	..	6	12424	223.6	235	219	..
175	19	13194	209·9	220	200	..	27	13153	210.8	225	201	..	..	..	..	..	..	..
150	15	14120	201.3	214	192	..	27	14116	203.7	216	192	..						
125	10	15219	198.5	205	191	..	23	15189	198.4	209	191	..						
100	5	16544	196·0	200	191	..	15	16511	194.3	203	189	..						
80	..	..	..	..	..	..	10	17789	194.8	201	189	..						
70	..	..	..	..	..	..	5	18654	197.2	199	194	..						
60	..	..	..	..	..	..	5	19527	198.4	202	195	..						

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	27	041	296.3	299	291	292.0
1000	27	095	..	..	..	..
900	27	1010	292.0	296	289	283.6
850	27	1499	289.3	292	286	280.0
800	27	2014	286.9	291	283	274.3
700	27	3131	282.0	288	275	264.9
600	27	4393	275.6	283	269	254.6
500	27	5846	266.9	275	259	..
400	27	7556	255.7	263	250	..
300	24	9655	239.4	246	232	..
250	22	10910	229.0	236	215	..
200	20	12363	217.4	224	208	..
175	18	13177	210.7	219	200	..
150	17	14132	204.3	215	192	..
125	14	15218	199.9	210	194	..
100	14	16522	196.3	203	190	..
80	12	17848	196.5	205	191	..
70	10	18615	198.8	210	192	..
60	7	19527	203.9	212	197	..
50	5	20492	207.2	214	201	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (999 mb.)						BOMBAY (1008 mb.)						CALCUTTA (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	098	295.7	303	290	281.3	28	013	300.0	304	295	288.3	25	6	296.3	303	291	285.4
1000	28	093	..	..	..	..	28	085	..	..	..	..	25	087	..	..	..	..
900	28	999	289.3	298	281	272.5	28	1007	295.1	302	288	277.0	25	996	289.7	297	283	276.4
850	28	1482	286.2	295	278	265.1	28	1501	291.9	297	286	271.8	25	1430	286.6	293	280	272.4
800	28	1989	283.2	291	275	264.0	28	2018	289.0	293	284	269.	25	1987	284.7	289	279	267.4
700	28	3089	278.0	286	271	256.4	28	3141	284.1	289	279	259.4	25	3098	281.0	287	275	258.5
600	28	4331	271.4	280	263	249.7	28	4410	277.0	283	271	253.9	25	4371	275.4	282	268	251.1
500	28	5761	263.6	271	256	..	28	5869	268.6	275	262	..	23	5812	267.6	274	260	..
400	28	7455	254.3	261	247	..	28	7591	257.9	264	252	..	23	7531	257.6	263	251	..
300	27	9544	242.3	249	233	..	27	9715	244.8	249	240	..	16	9669	243.9	248	237	..
250	27	10819	234.7	244	223	..	26	10998	235.5	241	220	..	11	10968	235.1	241	229	..
200	23	12322	225.4	234	216	..	24	12151	226.2	232	220	..	7	12501	225.3	232	218	..
175	19	13209	220.5	230	214	..	20	13371	220.3	227	214	..	5	13400	219.4	223	216	..
150	17	14185	214.0	224	209	..	19	14353	214.6	231	207	..	..	..	..	..	..	..
125	15	15311	209.1	219	203	..	13	15473	207.1	213	204	..	..	..	..	..	..	..
100	12	16696	206.5	217	198	..	10	16800	202.0	207	196	..	..	..	..	..	..	..
80	10	18069	206.9	214	199	..	..	..	..	..	..	..	..	..	..	..	..	..
70	9	18904	208.1	216	200	..	..	..	..	..	..	..	..	..	..	..	..	..
60	7	19861	212.0	218	205	..	..	..	..	..	..	..	..	..	..	..	..	..
50	6	21040	216.8	221	211	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	GAUHATI (1004 mb.)						GWALIOR (989 mb.)						JODHPUR (986 mb.)					
Surface	28	049	294.1	301	287	288.1	17	203	292.3	301	287	279.2	28	218	297.2	307	291	275.0
1000	28	084	..	..	..	..	17	104	..	..	..	..	28	099	..	..	..	..
900	28	987	288.6	297	285	280.1	17	1000	285.6	293	282	267.6	28	1008	290.0	301	283	271.8
850	28	1468	284.6	294	279	277.0	17	1477	282.5	290	279	264.0	28	1496	285.6	296	278	267.4
800	28	1972	281.0	291	274	274.0	17	1978	279.8	286	274	263.6	28	2001	282.5	291	273	264.0
700	28	3060	273.9	283	270	265.8	17	3062	273.8	280	267	256.8	28	3096	276.4	283	268	260.4
600	28	4287	268.7	277	261	..	17	4285	267.6	273	262	257.2	28	4130	270.7	277	262	253.6
500	28	5707	262.7	272	252	..	17	5695	260.0	265	254	..	28	5761	262.7	270	251	..
400	28	7396	253.5	264	242	..	17	7383	252.2	260	245	..	28	7450	253.9	261	243	..
300	23	9461	240.7	247	229	..	15	9455	241.0	246	232	..	22	9534	241.1	252	231	..
250	20	10707	233.1	240	221	..	14	10726	233.7	239	226	..	19	10790	233.5	239	226	..
200	19	12192	223.5	232	213	..	13	12240	225.1	231	220	..	15	12287	223.4	230	217	..
175	12	13115	219.6	225	216	..	12	13099	221.2	226	217	..	11	13113	218.3	225	211	..
150	10	14133	213.5	218	209	..	10	14101	215.3	221	211	..	7	14118	213.4	221	207	..
125	8	15221	207.9	210	207	..	9	15234	212.0	217	203	..	5	15234	207.6	212	201	..
100	7	16574	201.9	210	199	..	5	16587	208·2	213	202	..	5	16568	204.2	209	199	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

February 1961 (Magha 12 —phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1008 mb.)						NAGPUR (974 mb.)						NEW DELHI (988 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	28	015	300.9	303	299	293.7	27	311	301.4	307	295	281.3	28	210	293.3	300	287	280.2
1000	28	082	..	..	..	..	27	075	..	..	..	..	28	103	..	..	..	..
900	28	1003	294.0	297	290	283.1	27	1012	296.0	303	290	275.5	28	1001	286.2	295	279	272.3
850	28	1496	291.3	295	287	276.9	27	1496	291.9	300	284	272·2	28	1478	282.8	292	275	267.0
800	28	2014	289.0	293	284	272.9	27	2013	287.9	294	283	270.1	28	1981	280.2	290	272	260.0
700	28	3137	283.6	287	280	264.3	27	3128	281.0	287	276	261.4	28	3066	274.0	283	266	259.2
600	28	4405	276.0	280	271	259.7	27	4387	274.6	280	267	260.7	28	4289	267.0	274	255	..
500	28	5861	267.8	272	261	..	27	5834	266.5	272	258	..	27	5691	258.5	266	247	..
400	28	7577	256.5	261	251	..	27	7542	255.5	267	246	..	27	7350	248.4	255	238	..
300	28	9676	241.3	249	232	..	25	9628	239.9	248	232	..	25	9387	236.2	244	228	..
250	26	10938	231.6	239	220	..	24	10889	230.7	236	224	..	25	10633	230.0	238	222	..
200	24	12428	220.8	228	209	..	22	12365	219.6	227	212	..	21	12109	222.9	230	213	..
175	24	13258	214.6	222	203	..	20	13209	214.3	223	208	..	19	12967	218.5	225	205	..
150	23	14285	207.4	217	198	..	19	14149	207.7	219	202	..	16	13932	213.2	221	204	..
125	22	15323	201·7	211	193	..	17	15260	201.8	215	193	..	11	15041	208.3	217	200	..
100	17	16676	196·8	206	189	..	15	16581	197.8	212	192	..	10	16397	203.7	213	194	..
80	12	18288	195·5	203	189	..	13	17851	198·1	205	191	..	6	17693	205.2	211	196	..
70	8	18717	197·0	205	193	..	9	18734	200.2	205	193	..	5	18484	207.3	215	195	..
60	7	16920	200.0	210	193	..	7	19694	202.3	209	198	..	5	19432	208.0	213	203	..
60	7	20690	204·4	216	193	..	6	20701	206.0	211	202	..	..	..	..	..	..	..
40	5	21991	204·8	215	194	..	..	..	..	..	..	..	..	..	..	..	..	..

	PORT BLAIR (999 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1010 mb.)					
Surface	28	079	300.4	302	297	296.4	28	064	301.6	303	298	295.4	27	008	297.9	301	294	291.7
1000	28	078		..	..		28	071		..		..	27	097	..	..	..	..
900	28	995	293.2	296	290	289.0	28	997	293.9	297	290	289.4	27	1015	293.2	302	284	272.3
850	28	1486	290.6	294	287	285.1	28	1491	291.0	295	287	286.3	27	1506	289.7	299	281	269.5
800	28	2003	287.9	291	284	281.5	28	2009	288.0	291	283	280.9	27	2021	287.0	294	279	263.6
700	28	3123	283.0	286	279	271.8	28	3130	282.4	287	278	269.9	27	3138	282.0	290	274	261.7
600	28	4389	276.1	281	271	264.0	28	4393	275.5	283	271	262.4	27	4401	275.4	282	267	255.4
500	28	5841	267.0	272	261	..	28	5846	267.1	272	262	..	27	5851	266.7	273	258	..
400	27	7550	255.5	259	248	..	28	7560	256.4	260	251	..	26	7566	254.9	263	248	..
300	26	9647	240.4	247	235	..	28	9656	239.9	244	232	..	14	9646	238.9	245	231	..
250	26	10899	229.9	237	221	..	28	10913	229.4	235	220	..	12	10900	229.7	237	213	..
200	26	12365	216.6	226	204	..	27	12375	217.6	223	204	..	6	12417	222.2	233	211	..
175	21	13191	209.8	219	198	..	27	13219	210.7	219	197	..						..
150	17	14166	204.4	214	194	..	26	14170	203.5	215	191	..						
125	11	15251	199.3	209	192	..	25	15212	199.6	208	186	..						
100	8	16615	197.2	202	193	..	20	16541	196.1	206	187	..						
80	..	..	..	..	..	..	14	17857	196.0	204	187	..						
70	..	..	..	..	..	..	13	18615	199.5	208	191	..						
60	..	..	..	..	..	..	9	19527	199.9	206	192	..						
50	..	..	..	..	..	..	8	20617	204.1	214	193	..						

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

February, 1961 (Magha 12—Phalguna 9, 1882 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1005 mb.)					
	No. of Obs.	Ht. gpm.	Temperature A			
			Mean	Max.	Min.	Dew point
Surface	28	041	300.0	302	297	292.4
1000	28	086	..	..	..	..
900	28	1005	293.1	297	288	283.4
850	28	1497	290.3	295	286	280.8
800	28	2012	287.3	291	284	278.0
700	28	3131	282.2	288	278	267.6
600	28	4394	276.3	284	271	259.2
500	28	5849	266.9	272	261	..
400	28	7559	255.4	260	247	..
300	26	9658	240.7	247	235	..
250	25	10912	229.3	237	220	..
200	22	12377	218.4	229	210	..
175	20	13193	212.3	223	206	..
150	19	14155	204.7	217	197	..
125	17	15216	197.9	208	187	..
100	14	16523	193.2	205	185	..
80	8	17763	197.0	207	187	..
70	7	18554	199.7	211	190	..

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

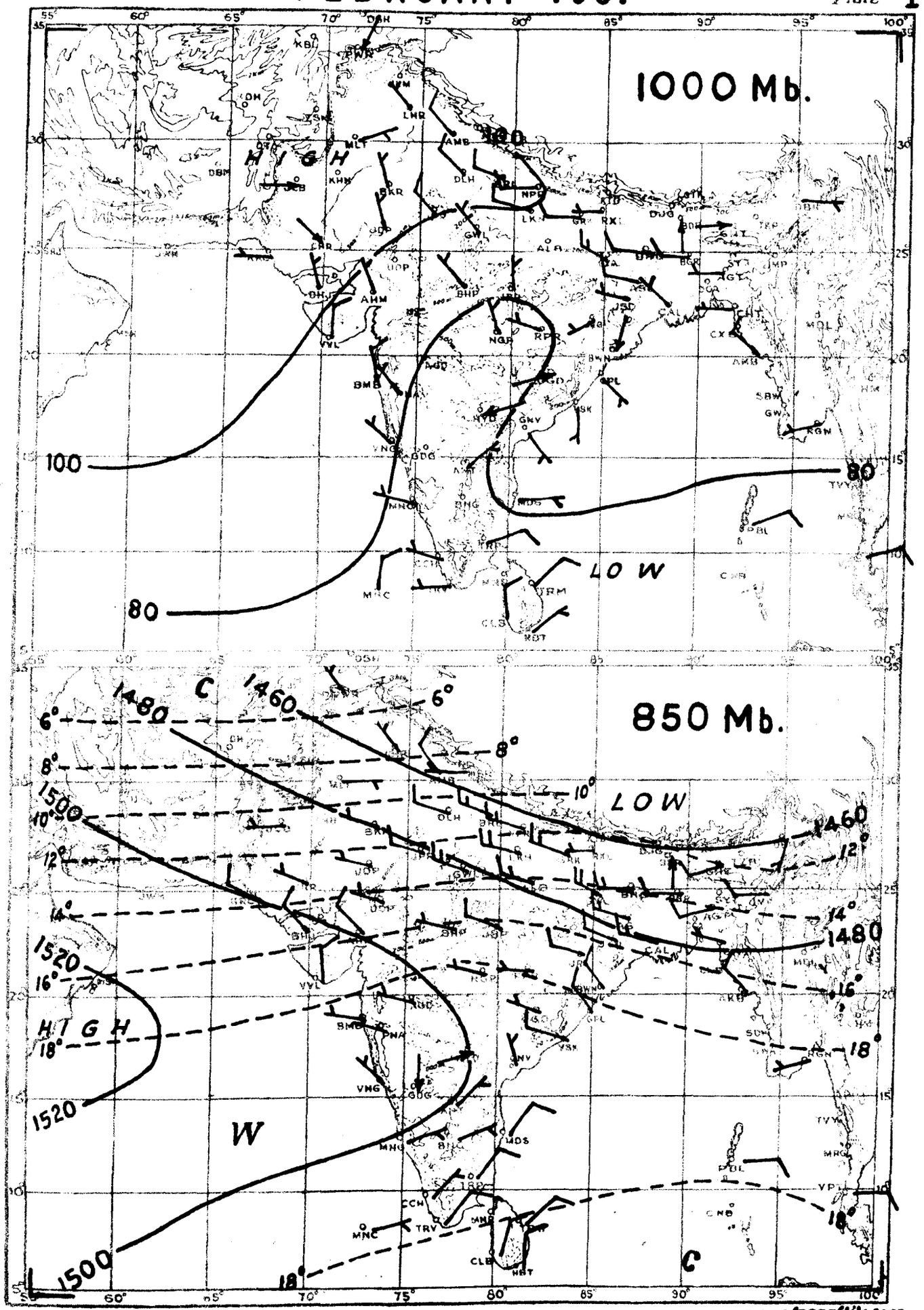
GIPN—S4—9 D. D. G. Obs. P/65—26-9-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met D.

FEBRUARY 1961

Plate I



DDEC/2355(11):4:65

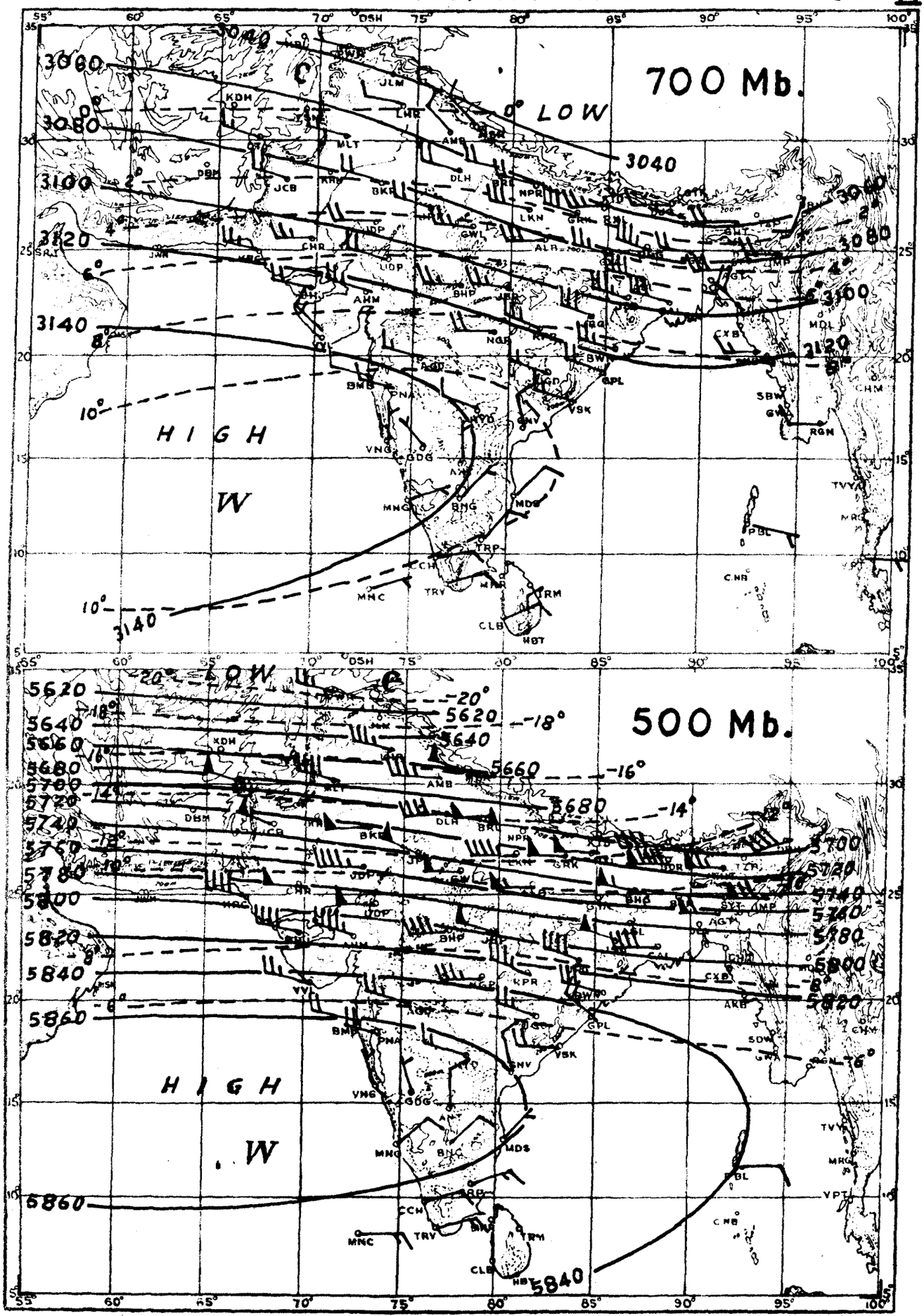
RESULTANT WIND —— 5 Knots, —— 10 Knots, —— 50 Knots.

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

G.PZ. P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D. **FEBRUARY 1961** Plate II



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

DDec/2355(i):4:65

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

G.PZ.P. POONA, 1963

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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

MARCH

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Chief feature—

Good amount of rainfall in Assam and Sub-Himalayan West Bengal, with deficiency of rainfall over the rest of the country.

Throughout the month there was a marked inflow of moist air from the Bay of Bengal into Assam and neighbourhood. This inflow got occasionally accentuated during the passage of Western Disturbances across the Assam Hills. Fairly widespread or local thundershowers occurred in Assam on twelve days of the month. A few noteworthy amounts of rainfall were : Haflong 17 cm. on 2nd, 19 cm. on 3rd, 7 cm on 19th, 9 cm on 20th and 7 cm on 21st, Kailashahr 8 cm on 19th and Silchar 15 cm on 20th. Severe squalls in Dibrugarh and Silchar were reported to have caused death of 14 persons in the beginning of the month.

Four western disturbances moved across the northern parts of the country. They were generally of feeble intensity and did not cause much of rainfall except in Assam and neighbourhood. The course and activity of each of the western disturbances is shown in the following tabular statement.

Statement showing the movement and activity of Western disturbances during the month of March 1961

S. No.	Period	Course	Region affected	Nature of Precipitation	Period	Remarks
1	2nd — 8th	Baluchistan-Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Jammu and Kashmir-Himachal Pradesh and Punjab-Kumaon hills	Scattered rain/snow.	5th,6th	Severe squalls in Dibrugarh and Silchar caused death of 14 persons and injury to about 100 persons.
			West Bengal	Scattered thundershowers	6th,7th	
			Assam	Fairly widespread or local thundershowers.	6th-8th	
2	9th—14th	Baluchistan-Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas	Jammu and Kashmir	Scattered rain/snow	10th	
				Fairly widespread rain/snow	11th	
			Assam	Local or scattered thundershowers	13th,14th	
3	15th—21st	Baluchistan-Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Jammu and Kashmir, Himachal Pradesh and Punjab-Kumaon hills	Scattered thundershowers	16th-20th	
			Plains of west Uttar Pradesh and of the Punjab (I)	Scattered thundershowers	18th,19th	
			Assam	Fairly Widespread or local thundershowers.	20th,21st	A few heavy showers occurred in Assam on 20th and 21st. Silchar reported 15 cm. of rain on 20th.
4	22nd—28th	Baluchistan-Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Jammu and Kashmir, Himachal Pradesh and Punjab-Kumaon hills	Local or scatterd thundershowers	24th,26th	
			Bihar Plains and West Bengal	Scattered thundershowers	26th	A nor'wester swept Calcutta and suburbs on the night of 25th.
			Assam	Scattered thundershowers	26th-28th	

Mainly dry weather prevailed over the Peninsula during the first half of the month. Scattered thundershowers, however, occurred later, particularly towards the close of the month.

Day temperatures were generally above normal in south Rajasthan, Gujarat State, north Maharashtra State, Madhya Pradesh and Bihar State from 10th to 20th March. They were appreciably above normal in these regions on some days.

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1—10 D.D.G. Obs. Poona/65

The rainfall during the month was in large excess in Assam and Marathwada, in moderate excess in the Bay Islands and normal in Sub-Himalayan West Bengal. It was in slight defect in Jammu and Kashmir, in moderate defect in Rayalaseema and south Interior Mysore and in large defect Gangetic West Bengal, Orissa, Bihar Plateau, West Uttar Pradesh, the Punjab(I), west Rajasthan, Madhya Pradesh, Madhya Maharashtra, Vidarbha, coastal Andhra Pradesh, Telangana, the Madras State, north Interior Mysore and Kerala. There was no rain elsewhere over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Bihar Plateau, Rajasthan, Madhya Pradesh, Gujarat State, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and Interior Mysore and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Bay Islands, Assam, West Bengal, Orissa, Rajasthan, Gujarat Region, Marathwada, Andhra Pradesh, the Madras State and Interior Mysore State.

The relative humidity in the morning was above normal in Orissa, the Punjab(I), Saurashtra and Kutch, Rayalaseema and South Interior Mysore, below normal in east Madhya Pradesh, Marathwada and Vidarbha and normal elsewhere over the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in the Bay Islands, Orissa, east Uttar Pradesh, the Punjab (I), east Rajasthan, Gujarat Region, the Madras State, coastal Mysore and Kerala, below normal in Gangetic West Bengal, Bihar State, Vidarbha, Telangana and Rayalaseema and normal over the rest of the country outside Himachal Pradesh.

Table I contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 14 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

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

POONA 5,
The 3rd August 1961.

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

Errata to Monthly Weather Report for the month of March 1961 (Phalguna 10, 1882 - Chaitra 10, 1883 Saka).

Page	Station	Hour	Column	For	Read
Table I					
119	10 Gujarat State			Gujarat Region	Gujarat State
119	21 Marathwada		8	-0.1	1.0.
				Blank	-0.1
119	Marathwada		7	15	15
				10	
Table II					
120	Gohpur		17	1.4	-
					(b)
120	Golaghat		10	38.5	38.5
				(b)	
					(a)
120	Golaghat		11	136.8	136.8
				(a)	
120	Gauhati		19	-0.3	-3.0
				(a)	
120	Dhubri		17	5.0	5.0
120	Barrackpore (Aerodrome)		29	-	0
121	Jamshedpur		22	-	0
121	Lucknow		5	T6,17,31	16,17,31
121	Lucknow		7	+0.9	+0.9
122	Ludhiana		12	-9.8	-19.8
122	New Delhi (Safdarjung)		28	0	1
122	Patiala		4	33.0	33.9
122	Srinagar Aerodrome		3	+0.1	-
124	Rajkot		13	-0.3	-1.3
124	Gannavaram		2	Blank	35.5
125	Coimbatore		19	+3.	+3.1
125	Bidar		7	-1.1	-1.1
125	Bangalore Aerodrome		6	19.	19.4
126	Foot note		-	Blank	(b) Mean of 29 days.
	TABLE III				
128	Dibrugarh (Mohanbari)	0230	3		111
128	Gohpur	1730	1	(Blank)	(R)
128	Majbat	0830	1	Majbat (R)	Majbat
128	Gauhati (Bhorjor)	0530	17	1	0
129	Kailashahar	0530	1	Kailashar	Kailashahar
129	Malda	0830	1	Not clear	Malda
132	Bahraich	0830	13	1.5	1.9
133	Ballia	1730	4	1066.6	1006.6
133	Roorkee	0830	6	[illegible]	0
133	Aligarh	0830	12	-11	+11
133	Agra	0830	5	(Not clear)	992.3
133	Orai	0830	3	221	141
133	Amritsar Rajasansi	0830	12	4	-4
135	Jodhpur	0230	2	2330	0230
135	Jaisalmer	0830	27	1	11
135	Jodhpur	0830	14	+0.7	+0.7
135	Sikar	1730	4	1007.4	1007.5
135	Sikar	1730	26	4	9
136	Jaipur	2330	20	3	8
136	Brinpura (Jawai Dam)	1730	15	8.5	9.5
136	Udaipur	0830	9	6.8	6.9
136	Bhopal (Bairagarh)	0230	5	920.9	950.9
139	Bombay (Santacruz)	0830	6	0.3	-0.3
139	Bombay	0830	5	1011.	1011.0
140	Aurangabad (Chikalthan)	2330	2	1830	2330
141	Bendichintala	1730	26	(Blank)	0
141	Rangundam	0830	3	994.0	996.0
141	Bhadrachallam	0830	19	[illegible]	5

Contd.2

Page	Station	Hour	Column	For	Read
143	Raichur	0830	7	27.0	27.6
143	Bellary	0830	14	0.9	-0.9
144	Hassan	0830	21	0	2
144	Hassan	0830	23	2	0
144	Bangalore Aerodrome	1130	5	914.6	914.1
144	Trivandrum Aerodrome	2330	10	9.1	29.1
144	Simla	0830	4	1924.8	1492.8
145	Abu	1730	5	831.3	881.3
145	Ootacamund	1730	23	10	0
145	Coonoor	0830	22	5	15
145	Coonoor	0830	25	5	0
145	Kodaikanal	0830	22	13	3
145	Hazaribagh	1730	8	45.3	15.3
145	Ramgarh	0830	1	Rangarh	Ramgarh
146	Durgapur	0830 1730	2	Printed above	Against Durgap
146	Pokhara	1130	24	(Blank)	3
147	Taplejung	0830	27	1	31
147	Tista Catchment	-	1	Titacatchment	Tista Catchmen

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Page No.	Station	Time in I.S.T	ht. in Km.	Entry under column	Existing entry	Correct entry
149	Jamshedpur	-	-	Approximate times of flights (IST)	0530/1730/1730	0530/1130/173
151	Anantapur	2330	7.2	n V v D	Data against level 7.2 is slightly printed up.	
154	Bhuj	1730	7.2	n V v D	- do -	
154	Bhuj	1730	7.2	D	280	289
156	Gauhati	1730*	4.5	v	0.5	20.5
156	Gauhati	1730*	6.0	v	24.	24.2
159	Madras	2330	4.5	D	06	062
160	Nanpara	1730	7.2	D	286	285
161	Raipur	0530	0.9	v	5.5	1.5
163	Veraval	1130	3.6	n	30	31
165	Bajpe	1730	-	Levels for 1730 hr. are printed slightly u		
165	Bamrauli	0530 and 1730	-	Levels for 0530 and 1730 hr. are printed slightly up.		
165	Bamrauli	1730	14.1	V	34.5	34.0
165	Bangalore	0530 and 1730	Levels for 0530 and 1730 hr. printed slightly up.			
165	Begumpet	1730	Levels for 1730 hr. are printed slightly up.			
165	Madras	1730	21.0	D	054	050
166	Port Blair	1730	-	-	1730 hr.	1730 hr.*
166	Trivandrum	1730	14.1	D	276	270
166	Visakhapatnam	1730	-	-	1730	1730 hr.*

Contd.3

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
RADIOSONDE DATA						
168	Allahabad	00 GMT	900 mb.	Mean	295.0	295.9
168	Bombay	00 GMT	200 mb.	Mean	281.1	218.1
168	Bombay	00 GMT	175 mb.	Mean	213.5	213.9
168	Calcutta	00 GMT	900 mb.	Ht. gpm.	907	997
168	Calcutta	00 GMT	600 mb.	Dew Pt.	258.6	258.9
168	Gauhati	00 GMT	700 mb.	Dew Pt.	265.5	265.6
168	Gauhati	00 GMT	250 mb.	Ht. gpm.	10302	10702
169	Madras	00 GMT	175 mb.	Ht. gpm.	13815	13185
169	Nagpur	00 GMT	800 mb.	Dew Pt.	220.1	270.1
169	Nagpur	00 GMT	600 mb.	Dew Pt.	255.5	255.9
169	New Delhi	00 GMT	Surface Pressure.		986	985
169	New Delhi	00 GMT	850 mb.	Mean	296.7	290.7
169	New Delhi	00 GMT	800 mb.	Min.	292	282
169	Trivandrum	00 GMT	900 mb.	Dew Pt.	287.3	287.8
169	Veraval	00 GMT	800 mb.	Mean	209.3	290.3
169	Veraval	00 GMT	250 mb.	Ht. gpm.	10088	10882
169	Veraval	00 GMT	250 mb.	Mean	288.9	228.9
169	Veraval	00 GMT	150 mb.	Min.	205	203
170	Visakhapatnam	00 GMT	200 mb.	Mean	218.4	218.6
171	Allahabad	12 GMT	Surface pressure		997	996
171	Allahabad	12 GMT	800 mb.	Ht. gpm	2103	2013
171	Allahabad	12 GMT	250 mb.	Mean	228.6	228.3
171	Allahabad	12 GMT	80 mb.	Max.	213	214
171	Allahabad	12 GMT	70 mb.	Ht.gpm	18655	18656
171	Bombay	12 GMT	300 mb.	Ht.gpm	9594	9694
171	Calcutta	12 GMT	700 mb.	Ht.gpm	1334	3134
171	Gauhati	12 GMT	600 mb.	Dew Pt.	242.4	252.4
171	Jodhpur	12 GMT	175 mb.	Min.	..	204
171	Madras	12 GMT	700 mb.	Ht.gpm	4160	3160
171	Madras	12 GMT	500 mb.	Ht.gpm	5789	5879
172	Nagpur	12 GMT	900 mb.	Dew Pt.	272.7	273.7
172	Nagpur	12 GMT	150 mb.	Mean	205.3	207.2
172	Nagpur	12 GMT	125 mb.	Mean	207.2	203.3
172	Nagpur	12 GMT	70 mb.	Max.	243	213
172	Port Blair	12 GMT	60 mb.	Max.	271	270
172	Note			Second line	100 mb.	1000 mb.

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	191·5	234	28·1	17.8	75	67	3·6	3·5
	+109·6		−0 6	+1·9	+2		+0·5	
2. West Bengal .	10·3	32	33·6	21·2	66	13	1·7	1·4
	−21·5		+0·7	+2·0	0		−0·1	
3. Orissa . .	1·2	5	34·0	23·1	75	58	2·6	2·7
	−23·8		+0·4	+1·6	+6		+0·6	
4. Bihar . .	0·3	2	33·7	17·1	46	31	0·8	1·1
	−14.7		+1·5	+0·6	0		−0·6	
5. Uttar Pradesh .	0·2	2	32·4	15 7	49	40	1·8	2·3
	−11.7		+0·9	+0·7	0		+0·3	
6. Punjab (India) (Including Delhi).*	1·1	6	30·2	14·3	61	56	2·7	3·5
	−17·7		+0·4	+0·4	+7		+0·6	
7. Jammu and Kashmir	40·3	82	10·0	−0·7	66	49	4·7	5·5
	−9·1		−0·3	+1·0	−3		−0·3	
Sub-division								
1. Bay Islands. .	39·2	138	31·0	23·4	76	83	4·5	4·8
	+10·7		+0·2	+1.5	+4		+1·6	
2. Assam (Including Manipur, Tripura).	191·5	234	28·1	17·8	75	67	3·6	3·5
	+109·6		−0·6	+1·9	+2		+0·5	
3. Sub-Himalayan West Bengal.	31·5	101	31·5	17·5	59	35	1.3	1·1
	+0·3		+0·5	+1·5	−1		0	
4. Gangetic, West Bengal.	2·6	8	34·3	22·2	68	43	1·8	1·4
	−29·7		+0·8	+2·2	+5		−0 5	
5. Orissa . .	1·2	5	34·0	23·1	75	58	2·6	2·7
	−23·8		+0·4	+1·6	+6		+0·6	
6. Bihar Plateau .	0·9	4	34·7	17·5	44	27	0·7	1·1
	−21·6		+2·3	+0·2	+2		−0·8	
7. Bihar Plains .	0	0	32·9	16·9	47	35	0·9	1·1
	−11·2		+0·8	+0·9	−2		−0·5	
8. Uttar Pradesh (East).	0	0	33·4	16·3	47	27	1·7	2·0
	−8·9		+0·9	+0·8	−1		+0·4	
9. Uttar Pradesh (West).	0·4	3	31·2	15·0	52	29	1·9	2·8
	−14·8		+0·8	+0·7	0		+0·2	
10. Punjab (India) (Including Delhi)	1·1	6	30·2	14·3	61	35	2·7	3·5
	−17·7		+0·4	+0·4	+7		+0·6	
11. Himachal Pradesh	13·1	..	27·1	10·3	73	34	2·7	4·4
	..		..	..	..		..	
12. Jammu and Kashmir	40·3	82	10·0	−0·7	66	49	4·7	5·5
	−9·1		−0·3	+1·0	−3		−0·3	
13. Rajasthan (West)	0·2	3	33·8	17·0	46	26	2·0	2·9
	−6·1		+2·6	+2·0	−2		+0·1	
14. Rajasthan (East)	0	0	33·5	17·3	34	15	2·4	3·2
	−0·5		+1·4	+1·2	−4		+1·0	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—contd.								
8. Rajasthan . .	0·1	2	33·9	17·2	39	20	2.2	3·0
	−5·5		+1·9	+1·6	−3		+0·6	
9. Madhya Pradesh	5·8	44	35·4	17·7	36	18	1·5	2·4
	−7·5		+1·8	+0·9	−5		−0·2	
10. Gujarat Region.	0	0	35·8	19·3	58	35	1·6	1·5
	−1·6		+1·6	+1·3	+1		+0·4	
11. Maharashtra State	3·0	46	36.0	20.8	47	30	1.1	1.8
	−3.5		+1.6	+0·8	−3		−0.2	
12. Andhra Pradesh .	2.3	21	36·1	23·7	65	47	1·8	1·4
	−8·9		+0·8	+1·2	+1		−0·1	
13. Madras State .	2·0	13	34·2	23·9	74	56	3·0	2·6
	−12·9		+0.3	+1·3	−1		+0·5	
14. Mysore . .	4·9	55	35·7	22·1	61	38	1·4	2·5
	−4·0		−1·2	+1·2	+3		+0·1	
15. Kerala .	4·4	12	32·4	25·2	79	70	3·4	3·5
	−31·4		+0·5	+0·5	+4		+1·3	
Sub-division—contd.								
15. Madhya Pradesh (West).	3·9	46	35·2	17·4	33	16	1·6	2·6
	−4·6		+1·6	+0·8	−3		−0·2	
16. Madhya Pradesh, (East).	8·1	41	35·6	18·1	40	21	1·3	2·2
	−11·5		+2·2	+0·9	−6		−0·3	
17. Gujarat Region .	0	0	37·4	19·3	45	15	1·6	1·6
	−0·9		+1·9	+1·7	−4		+0·6	
18. Saurashtra and Kutch.	0	0	34·2	19·3	69	50	1·6	1·3
	−2·1		+1·3	+0·9	+6		+0·2	
19. Konkan . .	0	0	30·6	22·0	74	66	1·8	1·6
	−0·8		+0·5	+0·4	+3		+0·2	
20. Madhya Maharashtra .	0·3	7	38·2	18·9	43	20	0·8	1·6
	−3·7		+2·1	+0·8	0		−0·1	
21. Marathawada	12.7	212	37.7	21·3	25	15	−0.1	2.1
	+6.7		+2.2	+1.9	−11	10		
22. Vidarbha . .	5·9	42	38·1	21·3	33	16	0·8	2·0
	−8·1		+1·9	−0·9	−9		−0·7	
23. Coastal Andhra Pradesh.	0·4	5	34·3	24·3	74	63	2·5	1·3
	−8·3		+0·2	+1·3	0		+0·1	
24. Telangana . .	5·9	29	37·7	22·1	53	23	1·2	1·5
	−14·7		+1.9	+1·1	−2		−0·3	
25. Rayalaseema .	2·8	57	39·0	24·3	59	35	0·5	1·3
	−2·1		+0·9	+1·3	+7		−0·6	
26. Madras State .	2·0	13	34·2	23·9	74	56	3·0	2·6
	−12·9		+0·3	+1·3	−1		+0·5	
27. Coastal Mysore.	0	0	31·9	24·1	76	67	3·2	3·4
	−2·8		−0·2	+0·5	0		+1·4	
28. Interior Mysore (North).	2·7	36	37·8	22·3	47	25	1·1	2·5
	−4·9		+1·8	+1·3	−2		+0·1	
29. Interior Mysore (South).	8·7	71	35·0	20·9	70	29	1·4	2·2
	−3·6		+1·1	+1·2	+8		−0·1	
30. Kerala . .	4·4	12	32·4	25·2	79	70	3·4	3·5
	−31·4		+0·5	+0·5	+4		+1·3	
31. Arabian Sea Islands.	0	0	31·5	14·7	75	70	2·8	2·9
	−13·2		+0·3	−0·4	+3		+0·1	

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

*Data of Himachal Pradesh not included.

TABLE II—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL AND WEATHER—MARCH, 1961
(PHALGUNA 10, 1882 — CHAITRA 10, 1883 SAKA)

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	31·4	..	33·6	24	23·5	..	20·6	6	0	0	..	0	..	0	..	10·4	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Long Island	31·3	..	33·9	27	23·7	..	21·3	1	9·8	9·8	..	9·8	11	1	..	2·9	1·2	..	0	1	0	0	0	0	0	0	0	0	0
Port Blair	31·0	+0·2	32·8	31	23·4	+1·5	20·4	4	35·6	39·2	+10·7	33·6	11	2	−0·1	7·3	5·9	−3·6	0	2	0	0	2	0	0	0	0	0	0
Car Nicobar	30·7	..	32·8	29	22·9	..	18·6	4	5·8	19.9	..	7·2	19	4	..	6.1	2·9	..	0	5	0	0	0	0	0	0	0	0	0
Nancowry	32.5	..	33·9	1	24.8	..	22·6	12	30·5	135·6	..	51·4	12	5	..	0·7	0·3	..	0	6	0	0	10	0	0	0	0	0	0
Kondul	29·5	..	30·6	26	24 7	..	21·7	7	34·2	64·4	..	21·8	13	4	..	..	..	..	0	9	0	0	11	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	24·0	..	31·1	16	16·3	..	13·3	2	75·0	289·6	..	99·2	19	17	..	9·3	13·0	..	0	18	0	0	1	0	0	0	0	0	0
Dibrugarh, (Mohanbari)	24·6	−1·0	30·8	16	15·6	+1·0	10·7	4	74·5	259·0	+155·9	38·8	19	15	+6·5	7 7	5·2	+1·0	1	15	0	0	16	0	0	0	0	0	0
Dibrugarh	24·8	−0·8	32·0	16	16·8	+2·2	12·8	2	61·4	232·7	+129·6	36·5	2	14	+5·5	4·8	3·9	−0·3	1	18	0	1	12	0	0	0	0	0	0
Digboi*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0
North Lakhimpur	25.5	−1.6	31·6	28	15·6	+0.6	12·7	4	14·6	155·1	+43.5	49·6	19	8	+1·7	..	..	..	0	12	0	0	8	0	0	0	0	0	0
Sibsagar	25·8	−0·4	31·2	28	16·6	+1.0	13.4	4	54·9	238·7	+126·9	37·4	18	18	+9·5	7·5	6·1	+2·2	0	20	0	1	14	0	0	0	0	0	0
Gohpur (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1·4	..	..	..	..	..	..	..	..	..	..	..	..	..
Majbat	..	..	..	..	..	..	..	..	0	98·8	..	53·0	20	4	..	12·8	6·8	..	0	5	0	1	3	0	0	0	0	0	0
Jorhat (Aerodrome)	26·4	..	32·8	28	16·6	..	13·6	5	14.4	180.4	..	38·8	17	15	..	..	.	..	0	15	0	1	8	0	0	0	0	0	0
Tangla	23·6	..	27·4	15	18·4	..	13·7	2	12·3	65·6	..	29·3	19	4	..	3·9	2·4	..	1	4	0	0	0	0	0	0	0	0	0
Tezpur	28·5	−0·1	33·3	16	18·7	+1·9	16·1	3	13·6	115·7	+66·9	57·6	20	6	+1·5	11·0	10·5	+5·2	2	7	0	0	4	0	0	0	0	0	0
Golaghat	27·1	..	33·3	28	16·4	..	10·6	1	38·5 (b)	136·8 (a)	..	42·0	20	..	..	..	..	..	..	..	0	2	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	29·6	..	34·4	28	16·9	..	13·6	1	10·4	124·4	..	49·4	17	6	..	5·9	4·8	..	0	8	0	0	0	0	0	0	0	0	0
Goalpara	30·7	..	35·6	26	16·4	..	11·9	9,11	4·4	52·4	..	33·8	17	4	..	7·4	5·2	..	0	5	0	0	0	0	0	0	0	0	0
Gauhati	28·9	−1·0	34·2	27	18·0	+2·3	14·1	9	7·3	99·6	+49·1	28·3	17	7	+3·2	0·1	0·1	−0·3	0	9	0	1	2	0	0	0	0	0	0
Gauhati (Bhorjor)	29·1	..	35·0	27	16·9	..	11·9	9	14·2	97·4	..	28·1	17	8	..	6·2	4·3	..	0	9	0	1	10	0	0	0	0	2	0
Dhubri (Rupsi)	31·0	..	36·0	26	17·1	..	12·2	9	8·0	70·3	..	46·4	7	3	..	8·5 (a)	5·1	..	0	4	0	2	5	0	0	0	0	0	0
Dhubri	30·4	+0·4	37·3	26	19·5	+2·2	7·4	20	10·4	24·2	−18·0	11·2	17	3	+0·5	5·0	4·2	−3·0	0	3	0	0	1	0	0	0	0	0	0
Lumding	30·9	+0·8	34·7	27	16·2	+1·6	12·3	2	20·7	78·8	+33·1	19·2	19	6	+1·7	7·9	5·1	..	0	9	0	0	0	0	0	0	0	0	0
Umori	25·6	..	29·9	26	12·9	..	7·8	3	23·8	63·2	..	35·6	17	5	..	12·3	7·3	..	0	8	0	0	2	12	0	0	0	0	0
Tura	30·1	..	34·9	26	18·1	..	14·5	4	1·3	38·2	..	23·4	16	3	..	9·9	8·6	..	1	4	0	0	0	0	0	0	0	0	0
Haflong	24·7	..	29·8	16	16·0	..	12·7	2	310·0	938·7	..	192·3	3	18	..	..	..	..	0	20	0	0	10	2	0	0	0	0	0
Silchar (Kumbhigram)	28·5	..	31·8	15	18·2	..	15·2	10	124·7	743·3	..	173·8	20	22	..	7·6	8·6	..	0	25	0	1	24	0	0	0	0	1	0
Silchar	27·4	−2·9	32·3	26	19·0	+1·8	15.8	1	90·4	551·1	+379·4	154·2	20	16	+7·9	3·6	1·9	−1·2	0	23	0	0	19	0	0	0	0	0	0
Imphal (Tulihal)	24 6	−2·2	30·1	16	12·7	+2·3	5·8	3	76·8	263·3	+212·1	58·2	20	13	+9·1	11·9	8·2	+0·6	2	20	0	4	15	0	0	0	0	0	0
Kailashahar	31·2	..	33·3	16,18	19·1	..	14·2	10	89·0	334·9	..	76·4	19	13	..	9·7	7·3	..	0	14	0	3	16	0	0	0	0	0	0
Agartala	32·6	0	35·2	18	21·4	+2·8	16·2	9	54·9	97·9	+25·7	32·6	4	6	+2·0	14·2	10·6	+3·8	0	8	0	1	9	2	0	0	0	1	0
Sub-Himalayan West Bengal																													
Bagdogra	29·6	−0·7	35·6	26	14·6	−0·7	9·3	4	0	13·0	−19·8	12·6	17	1	−1·5	15·0	11.3	+4·4	0	2	0	1	4	0	0	0	0	0	0
Jalpaiguri	28·8	−0·8	34·2	26	17·0	+1·3	12·4	8	31·8	52·4	+20·1	51·4	17	1	−1·3	11·8	8·0	+5·1	0	2	0	0	2	0	0	0	0	0	0
Cooch Behar	30·0	..	34·2	27	16·7	..	12·1	28	0·4	42·0	+0·3	21·6	17	2	−0·5	7·1	5·0	..	1	3	0	0	5	1	0	0	0	0	0
Balurghat	33·9	..	37·9	26	16·8	..	11·7	8	1·8	3·2	..	1·8	16	0	..	6·5	5·1	..	0	2	0	0	1	4	0	0	0	0	0
Malda	34·1	+1·8	37·8	26	18·1	+1·7	13·4	4	0	0	−19·6	0	..	0	−1·3	9·8	6·5	+0·5	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	35·2	+1·8	37·8	20	19·4	+0·9	13·9	1,4	0	8·6	−17·8	8·6	6	1	−0·9	5·8	3·7	+0·2	0	1	0	0	0	2	1	0	0	0	0
Suri	35·0	..	38·5	20	20·1	..	14·3	1	0	24·0	..	24·0	6	1	..	12·9	7·2	..	0	1	0	0	1	0	0	0	0	0	0
Asansol	35·3	+1·0	38·3	20	19·9	+1·1	15·6	1	0	0	−20·8	0	..	0	−1·8	10·3	6·3	−0·5	0	0	0	0	0	0	0	0	0	0	0
Santiniketan	34·9	..	38·4	20,25	19·5	..	12·8	1	0	25·5	..	25·5	6	1	..	9·2	8·2	..	0	1	0	0	1	3	0	0	0	0	0
Krishnanagar	36·4	+2·7	38·4	25	21·9	+3·2	16·7	9	0	0	−38·6	0	..	0	−2·1	6·0	6·1	+1·4	0	0	0	0	0	0	0	0	0	0	0
Purulia	35·1	+1·2	37·8	20	20·9	+0·9	17·4	8	0	0	−19·2	0	..	0	−2·0	7·6	4·5	−0·1	0	0	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	0	−27·7	0	..	0	−1·9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Burdwan	32·2	−1·9	36·4	26	22·4	+2·7	17·4	1	0	0	−39·6	0	..	0	−2·3	11·0	5·7	+2·5	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	34·6	..	37·7	25	22·6	..	17·8	9	0·8	12·2	..	11·7	26	1	..	..	..	..	0	2	0	0	3	4	0	0	0	0	..
Calcutta (Dum Dum)	34.4	+0·7	37·5	25	22·5	+2·0	18·3	9	3·7	14·7	−20·9	11.0	26	2	−0·5	10·8	9·1	+0·5	0	2	0	0	3	6	0	0	0	1	0
Calcutta	34·8	+1·2	37·4	25	24·0	+3·6	21·2	1	0	5·2	−29·3	5·2	26	1	−1·3	15·6	8·3	+2·7	0	1	0	0	3	1	0	0	0	2	0
Midnapore	36·8	+1·7	39·6	26	22·5	+1·7	16·9	4	0	0	−35·8	0	..	0	−2·4	7·5	6·3	+2·1	0	0	0	0	0	0	0	0	0	0	0

*Data not reliable.

(R) Register not received.

(a) Total or Mean of 30 days.

(b) Total or Mean of 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*contd.*)																													
Contai	31·6	−0·9	35·7	27	23·8	+1·6	20·9	8	0	4·1	−11·4	4·1	18	1	−0·4	17·6	15·1	+4·2	0	1	0	0	0	1	0	0	0	0	0
Saugor Island	29·2	−1·1	33·9	28	25·5	+2·1	22·5	8	0	4·7	−28·1	4·7	18	1	−0·8	26·0	27·4	+12·0	0	1	0	0	1	0	0	0	0	0	0
Sandheads	28·8	..	32·4	16	25·5	..	21·6	1	0	0	−20·8	0	..	0	−1·0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	37·1	..	39·9	13	21·5	..	16·1	1	5·2	4·6	..	4·6	31	1	..	4·0	2·7	..	0	1	0	1	4	22	0	0	0	0	0
Jharsuguda	36·8	+2.0	39·4	24	18·5	−0·1	11·1	1	0	4·2	−26·8	4·2	31	1	−1·5	8·7	6·7	−0·4	0	1	0	0	1	0	0	0	0	0	0
Keonjhargarh	34·5	..	37·1	25	20·2	..	15·6	2	0·3	0·5	..	0·5	31	0	..	9·5	6·6	..	0	1	0	0	1	3	0	0	0	0	0
Balasore	34·8	+1·1	39·3	26	23·4	+2·6	20·6	8	2.5	2·5	−44·2	2·5	31	1	−1·9	18·7	10·0	+3.7	0	1	0	0	4	0	0	0	0	0	0
Sambalpur	36·4	+1·0	38·9	26	19·1	−0.2	13·7	1	0	2·2	−19.6	2·2	31	0	−1.7	5·4	3·0	−1·0	0	1	0	0	0	0	0	0	0	0	0
Angul	35·9	+0·5	38·9	24	21·9	+1.8	16·8	4	0	1·2	−17 3	1·2	31	0	−1·7	8·3	6·6	0	0	1	0	0	2	0	0	0	0	0	0
Cuttack	36·5	+0.6	38·7	18	23·9	+1.8	21·6	1,9	0	0	−26.4	0		0	−1·4	10·2	8·5	+4.6	0	0	0	0	0	0	0	0	0	0	0
Chandbali	34·9	+0.7	36·7	14	23·1	+1·6	20·6	3,4	0	0	−32·8	0	..	0	−2·1	13·7	11·6	+1·9	0	0	0	0	0	0	0	0	0	0	0
Bolangir	37·5	..	40·0	20,25	22·8	..	18·5	4	0	0	..	0	..	0	..	8·7	7·4	..	0	0	0	0	3	0	1	0	0	0	0
Phulbani	35·3	..	37·8	25	17·0	..	10·3	1	0	0	..	0	..	0	..	6·1	(a) 3·2	..	0	0	0	0	0	0	0	0	0	0	0
Titlagarh	38·6	..	40·6	24	21·9	..	16·8	1	0	4.5	..	4·5	17	1	..	3·1	2·0	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	34·7	−0·4	39·4	18	24·0	+1·7	21·6	9	0	0	−16·8	0	..	0	−1·3	26·3	22·5	+5·4	0	0	0	0	1	1	0	0	0	0	0
Puri	29·7	−0.5	30·7	12	26·1	+1.9	23·8	9	0	2·0	−10.7	2·0	27	0	−0·9	29.2	27.3	+10·2	0	1	0	0	2	0	0	0	0	0	0
Gopalpur	29·9	−0·7	31·2	12,31	24.2	+1·5	21·3	16	0	0·4	−15·6	0·4	28	0	−1·1	27.6	25·3	+9·5	0	1	0	0	3	0	0	0	0	0	0
Koraput	32·8	+1·2	33·9	5 days	19·3	+1·7	15·6	1	0	0	−17·7	0	..	0	−1.5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	35·4	+2·2	39·4	14	18·6	+0·5	13·2	1	0	0	−23.1	0	..	0	−1·6	6·2	4·7	+1·6	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	34·8	+1·9	37·6	20	15·2	−0·3	10·3	1	0	0	−17.0	0	..	0	−1·6	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	32·5	+1·6	34·8	26	17·5	+0·2	11·6	8	0	0	−23·9	0	..	0	−1·9	12.1	9·0	−1·3	0	0	0	0	0	0	0	0	0	0	0
Dhanbad	34·9	..	37·4	17	20.8	..	15.5	1	0	0	..	0	..	0	..	8·5	6.0	..	0	0	0	0	0	0	0	0	0	0	0
Ranchi	34·1	+3·6	36·2	21,22,23	17·0	−0·4	12·8	8	0	0	−30·2	0	..	0	−2·5	(k) 4·1	(l) 3·1	−4·3	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	32·6	..	35·6	26	18·4	..	13·4	1	0	0	..	0	..	0	..	(h) 12·7	9·6	..	0	0	0	0	0	0	0	0	0	0	0
Jamshedpur	36·5	+2.1	38·9	26	19·2	+1·0	13·2	1	2.0	4.4	−13·9	4·4	26	1	−1.0	7·4	4·3	0	0	1	0		0	0	0	0	0	1	0
Jamshedpur (P.B.O.)	35,9	..	39·1	26	18·9	..	12·8	1	0.4	1·3	..	1·3	26	0	..	.. (m)	.. (m)	..	0	1	0	0	1	0	0	0	0	1	0
Chaibasa	36·0	+1·4	..	..	20·0	+1·2	..	..	0	0	..	..	..	..	..	5·0	3·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	29·1	−2·3	31·9	17	15·4	+0·9	10·2	4,8	0	0	−12·5	0	..	0	−0·9	5·2	2.6	−2·2	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	32.5	..	37·5	26	16·2	..	10·1	8	7·6	16·6	..	16·6	17	1	..	13·3	8·0	..	0	1	0	1	1	0	0	0	0	0	0
Darbhanga	32·7	+1·1	36·7	31	18.2	+2·4	13·3	1	0	0	−12·9	0	..	0	−1.1	5.4	4.1	−0.2	0	0	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−9·7	0	..	0	−0·9	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	33·7	..	37·1	26	19·0	..	12·2	1	0	0	−9·1	0	..	0	−0.9	4·7	3·8	..	0	0	0	0	0	0	0	0	0	0	0
Purnea	33.4	+1·5	37·9	26	16·4	+1.2	10·6	9	0	0	−12.7	0	..	0	−1·1	9·3	5·4	+0·9	0	0	0	0	1	0	0	0	0	0	0
Patna	33·8	+1·7	37·2	20	18·9	+1·0	12·4	1	0	0	−10·7	0	..	0	−1·1	(m) 5·4	7·3	+1·7	0	0	0	0	0	0	0	0	0	0	0
Patna (Aerodrome)	33·4	..	36·6	25	16·6	..	11·5	1	0	0	..	0	..	0	..	11·2	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−9.7	0	..	0	−0.9	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhagalpur	33·9	+0·9	38·9	20	18·9	−0·2	..	..	0	0	−5·6	0	..	0	−0·7	11·0	7·5	−0·2	0	0	0	0	0	0	0	0	0	0	0
Sabour	33·6	+1.0	37.7	26	15·4	+0.3	10·0	8	0	0	−10·7	0	..	0	−0·9	9.8	5.9	−2.5	0	0	0	0	0	0	0	0	0	0	0
Jamui	35·3	..	38·1	20,26	17·4	..	12·7	1	0	0	..	0	..	0	..	10·1	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	35·0	..	37·8	20	19·0	..	14·2	4	0	0	−11·2	0	..	0	−1·0	9·5	6·5	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	34·8	+1·6	37·7	20	16·8	−0·5	11·3	10	0	0	−12·5	0	..	0	−1·2	12·9	5.0	−2·6	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (east)																													
Kheri	31·7	−0.1	35·0	17	15·4	−0.6	11·0	1,3	0	0	−15.5	0	..	0	−1.9	5.6	3·6	−0.3	0	0	0	0	0	0	0	0	0	0	0
Bahraich	32·4	+0·9	35·5	17	15·4	+0·5	10·3	8	0	0	−9·9	0	..	0	−0·8	8·8	5·9	+1·4	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	32·7	..	36·9	16	14·7	..	10·0	4,8	0	0	..	0	..	0	..	9·4	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	31·9	−0.1	35·2	31	15·3	−0.4	10·5	8	0	0	−17·5	0	..	0	−2.0	9.6	5·4	−0·8	0	0	0	0	0	0	0	0	0	0	0
Gonda	32·6	+0·4	35·8	16	16·3	+1·2	12·4	8	0	0	−4·6	0	..	0	−0·8	(e) 2·3	(d) 1·9	..	0	0	0	0	0	0	0	0	0	0	0
Lucknow	32·5	−0.2	35.2	6,17,31	16·8	+0.9	12·6	7	0	0	−8.6	0	..	0	−0·9	7.7	4·6	+0.9	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	32·9	+0.6	35·8	17	14·4	+0.3	9·3	7	0	0	−8.6	0	..	0	−0.9	(b) 9·8	(b) 5·7	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	32·7	..	35·6	17	14·4	..	9·7	8	0	0	..	0	..	0	..	7·5	4·3	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	33·5	+1·3	36·1	16,25,26	18·3	+2·0	13·4	1	0	0	−9·9	0	..	0	−0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kanpur	33·5	+1·6	39·9	16	16·1	+0·5	10·1	1	0	0	−7·4	0	..	0	−0·8	16·1	11·8	+2·1	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	33.2	..	36·0	31	15·6	..	10·1	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	33·8	..	36·6	31	17·3	..	13·6	8	0	0	..	0	..	0	..	10·2	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	34·7	..	37·4	16	14·3	..	10·4	8	0	0	..	0	..	0	..	..	..		0	0	0	0	0	0	0	0	0	0	0
Fatehpur	33·9	+1·0	37·6	31	15·1	−0.6	10·5	8	0	0	−7·1	0	..	0	−0·9	11·4	6·0	+0·5	0	0	0	0	0	0	0	0	0	0	0
Ballia	34·9	..	37·5	26	17·6	..	13·5	1	0	0	..	0	..	0	..	9·3	4·6	..	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (d) Mean of 27 days. (e) Mean of 26 days. (h) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—contd.																													
Banda	34·8	..	38·5	17,18	16·8	..	13·1	8,9	0	0	..	0	..	0	..	7·1	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	35·0	+1·8	38·3	17	17·1	+1·0	12·0	8	0	0	−14·2	0	..	0	−1·3	8·2	4·5	−1·6	0	0	0	0	0	0	0	0	0	0	0
Varanasi(Babatpur)	34·2	+0·3	36·9	17	16·0	−0·9	12·3	4	0	0	−13·4	0	..	0	−1·4	15·6	11·8	+1·5	0	0	0	0	0	0	1	0	0	0	0
Varanasi	34·1	+1·0	36·6	17	17·5	+1·1	13·5	2	0	0	−9·4	0	..	0	−0·9	8·8	6.1	+0·5	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	27·3	+1·0	30·6	17,31	11·4	−0·9	7·6	6	0	3·4	−28·6	2·2	19	0	−2·7	5·4	4·3	+0·9	0	2	0	0	1	0	0	0	0	0	0
Roorkee	20·7	+1·9	33·2	31	13·5	+0·7	9·1	13,7	0	0	−19·8	0	..	0	−1·6	6·7	5·3	+1·3	0	0	0	0	0	0	0	0	0	0	0
Najibabad	30·2	..	34·6	16	..	..	..	..	0	0	..	0	..	0	..	6·7	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Meerut	30·2	+0·3	33·9	16	14·5	+0·5	9.9	1	0	0	−15·2	0	..	0	−1·4	..	8·7	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	32·1	+1·5	33·5	16	16·0	+1·2	10·7	7	0	0	−15·5	0	..	0	−1·3	8·9	6·5	+2·5	0	0	0	0	0	0	0	0	0	0	0
Aligarh	31·7	+1·6	35·4	16	14·2	−0·5	10·0	7	0	0	−14·5	0	..	0	−1·3	9·7	7.3	+0·4	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	32·4	+0·2	36·3	16	14·3	−0.4	9.7	7	0	0	−8·6	0	..	0	−0.8	7·0	4·9	+1.0	0	0	0	0	0	0	0	0	0	0	0
Agra	32·0	+0·4	35·5	16,31	15·8	+1·2	11·3	8	0	0	−8·1	0	..	0	−0·8	6·1	4·1	−1·9	0	0	0	0	0	0	0	0	0	0	0
Agra Aerodrome	32·3	..	35·3	31	14·3	..	9·9	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	1	0	0	0	0
Orai	32·3	+0·8	35·6	31	16·9	..	12·8	9	0	0	..	0	..	0	..	10·7	7·7	..	0	0	0	0	0	0	0	0	0	0	0
Jhansi	34·4	..	37·2	19	20·4	+3·7	16·3	7	0	0	−8·4	0	..	0	−0·8	7·4	5·0	−0·1	0	0	0	0	0	0	0	0	0	0	0
Punjab (India) Including Delhi																													
Patiankot	27·6	+0·5	32·7	31	12·7	−0.8	7·6	7	3·4	15·3	−40·1	6·4	19	3	−0·9	8.6	7·1	−1.7	1	3	0	0	2	0	1	0	0	0	0
Amritsar (Rajasnsi)	28·0	+0·7	33·3	31	11·2	−0·2	4·8	3	0	12·7	−13·7	10.8	19	1	−1·2	10·2	8 2	+1·0	0	2	0	0	2	0	0	0	0	0	0
Adampur Aerodrome (R)																													
Ludhiana	29·9	+1·5	34·9	31	12·5	−1·0	6·2	6	0	4·1	−9·8	3·9	19	1	−0·8	7·5	4·4	+1·2	1	1	0	0	0	0	0	0	0	0	0
Ferozepur	28 3	..	34·0	31	12·1	..	5·7	6	0	2.6	..	2·6	19	1	..	5·4	4·0	..	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	28·5	..	33·2	31	11·1	..	5·6	3	0	3·0	..	3·0	18	1	..	..	..	..	0	1	0	0	2	0	0	0	0	0	0
Chandigarh	29·4	+0·8	34·0	31	..	..	..	..	0	0	−26.2	0	..	0	−3·0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ambala	29·9	+0.8	34·6	31	16·0	+2·4	9·6	8	0	0	−23·9	0	..	0	−1·8	6·7	(a) 6·3	..	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	29·4	..	35·5	31	13·0	..	7·8	6	0	0	..	0	..	0	..	2·3	..	..	0	0	0	0	0	0	0	0	0	0	0
Patiala	29·7	..	33·0	31	14·4	..	10·4	3	0	0	−16.8	0	..	0	−1·7	10·8	9·7	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	29·6	..	34·6	31	12·7	..	5·6	6	0	8·5	..	4.0	24	2	..	(a) 7·0	5·7	..	0	3	0	0	1	0	0	0	0	0	0
Karnal	29.6	..	33.6	11	14.1	..	11.0	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	30.5	−0·5	34.2	31	13.3	−0.5	6.6	6	0	1·2	−15.1	1·2	18	1	−0.5	7·2	6.8	−0.1	0	1	0	0	1	0	0	0	0	0	0
New Delhi (Safdar Jung)	30·5	−0.1	35·5	16	15·4	+0.6	11·6	8	0	0	−12.9	0	..	0	−1·3	10·8	7·5	−3·9	0	0	0	0	0	0	0	0	0	0	0
New Delhi (Palam Aerodrome)	30·9	..	36·2	16	13·2	..	7·5	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	26·3	+1·2	31·0	15	10·3	+0·8	5·6	7	1·0	12·8	−59·7	9.6	19	1	−4·3	2·7	3·5	+0·3	0	0	0	0	0	0	0	0	0	0	0
Bilaspur	27·9	..	32·2	15	10·3	..	5·4	7	7·6	13·3	..	9·7	26	2	..	..	..	..	0	2	0	1	2	0	0	0	0	1	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras (R)																													
Sonemarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	6.1	−0·7	11.6	15	4·9	+1.2	−9·3	6	0	4·6	−2·5	3.8	11	1	+0·1	8.3	6·3	+3·1	0	2	3	0	0	0	0	0	0	0	0
Srinagar	13·9	+0·1	20·6	30	3·6	+0·8	−1·4	6	21.8	76.1	−15·6	16·7	24	8	..	6·9	5·8	+0·7	0	12	2	3	1	0	0	0	0	0	0
Srinagar Aerodrome	13·5	+0.1	20·3	31	2·8	..	−2·1	6	18·4	59.8	..	23.4	24	7	+0·6	..	..	..	9	0	2	0	0	0	0	2	1	0	0
Gulmarg	Closed during winter months																												
Jammu†	28·1	..	32·8	31	..	..	..	..	..	19.5	..	..	..	..	..	..	(f) 7·1	..	0	3	0	0	1	0	0	0	0	0	0
Jammu Aerodrome	27·2	..	32·0	31	13·6	..	6·8	6	6.3	14.9	..	6.3	25	3	..	..	..	..	0	3	0	0	5	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	30·7	+2·4	35·4	31	13·6	+2·4	6·7	6	0	1·0	−11·9	1·0	18	0	−1·4	5·4	4.3	−4·4	0	1	0	1	0	0	0	0	0	0	0
Churu	31·7	..	36·7	16	14·4	..	9·1	6	0	4.4	..	4·4	18	1	..	10·2	7·3	..	0	1	0	1	0	0	1	0	0	0	0
Bikaner	33·2	+1·3	38·2	15	15·0	+0·4	8·7	6	0	0	−5·8	0	..	0	−0·6	8·0	5·0	−1·8	0	0	0	0	1	0	0	0	0	0	0
Nagaur	32·6	..	36·7	31	16·8	..	12· 2	26	0	0	..	0	..	0	..	11·4	8.5	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	34·0	..	42·8	15	17·5	..	11·3	7	0	0	−3.6	0	..	0	−0·4	12·4	11·2	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	34·3	..	37·8	4	17·9	..	13·0	25	0	0	..	0	..	0	..	12·3	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	35·5	+3·0	39 4	15	19·0	+2·6	14·8	25	0	0	−2·8	0	..	0	−0.2	10·9	8·7	−2.4	0	0	0	0	0	0	0	0	0	0	0
Barmer	35·9	−3·6	38·8	4	20·5	+2·6	15·9	25	0	0	−6.3	0	..	0	−0·6	9·2	8·3	−1.0	0	0	0	0	0	0	0	0	0	0	0
Munabao	36·3	..	40·0	4	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received. *Data not reliable. †Observatory restarted on 6-3-61. (a) Mean of 30 days.
(e) Mean of 26 days. (f) Mean of 25 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—Contd.																													
Pilani	31·7	..	36·7	16	13·8	..	8·6	6	0	0	..	0	..	0	..	11·5	8·9	..	0	0	0	0	0	0	0	0	0	0	0
Sikar	32·3	..	35·6	16,31	14·4	..	9·7	26	0	0	..	0	..	0	..	10·2	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	32·4	..	36·2	31	16.3	..	11·7	1	0	0·8	..	0·8	18	0	..	5·7	3·5	..	0	1	0	0	2	0	0	0	0	0	0
Jaipur (Sanganer)	32·6	+1·6	35·8	16	16·6	+1·9	11.8	1	0	0	−8·6	0	..	0	−0·9	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Dholpur	33.2	..	36·7	16	15.3	..	11.7	9	0	0	..	0	..	0	..	7·4	4·9	..	0	0	0	0	1	0	0	0	0	0	0
Ajmer	32·5	+1·6	36·4	14	17·1	+1·4	12·2	1	0	0	−5·8	0	..	0	−0·7	11·2	8·2	+3·1	0	0	0	0	0	0	0	0	0	0	0
Tonk	34.2	..	37·6	16,31	16·7	..	10.8	1,7	0	0	..	0	..	0	..	10·9	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Kota	33.3	−0·4	38·3	15	19·8	+1·4	14·9	8	0	0	−4·3	0	..	0	−0·5	8·8	6·6	+3·2	0	0	0	0	0	0	0	0	0	0	0
Eriapura (Jawai Dam)	35·1	..	38·5	15	18·7	..	11·8	6	0	0	..	0	..	0	..	8·4	6·2	..	0	0	0	0	0	0	0	0	0	0	0
Chambal Rawat Bhata Dam	35·0	..	38.1	16	18·5	..	14·2	1	0	0	..	0	..	0	..	12·4	7·6	..	0	0	0	0	0	0	0	0	0	0	0
Udaipur	33·3	+1·6	37·1	12	15·5	−0 3	10·6	6	0	0	−2·5	0	..	0	−0·3	5·8	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	35·6	+2.6	38·8	24	17·6	+1·7	12·1	6	0	0	−3·6	0	..	0	−0·6	8·8	5·4	+0·6	0	0	0	0	0	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	33·4	0	36·8	16	15·4	−0·5	10·2	9	0	0	−5·3	0	..	0	−1·0	(a) 10·5	(a) 5·2	..	0	0	0	0	1	0	0	0	0	0	0
Sheopur	34·6	+0·4	37·8	16	16·2	+0·2	10·4	6	0	0	−8·8	0	..	0	−1·1	10.3	7·3	+0·9	0	0	0	0	1	0	0	0	0	0	0
Shivpuri	33·0	..	36·9	16	14·7	..	8·5	6	0	0	..	0	..	0	..	(c) 11·5	(c) 6·7	..	0	0	0	0	0	0	0	0	0	0	0
Nowgong	34·4	+1·2	37·0	16	13·9	−1·4	9.2	1	0	1·0	−6·6	1·0	31	0	−0·8	8·1	4·1	+1·0	0	1	0	0	1	0	0	0	0	0	0
Guna	34·5	+2·1	36.9	16	15·0	+0.7	8·4	6	0	2·0	−10·7	2·0	31	0	−0·9	14·3	8·6	..	0	1	0	0	1	0	0	0	0	0	0
Nimuch	34·2	+1·6	38·0	15	18.1	+1.9	11·9	6	0	0	−3·1	0	..	0	−0·3	11·4	7·7	−0·5	0	0	0	0	0	0	1	0	0	0	0
Rajghar	36·0	..	38·9	15	16·9	..	10·6	6	0	0	—	0	..	0	..	11·6	8·8	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	33·8	+1·1	36·1	16	19·0	+0·9	14·7	7	0	2·0	−6·4	2·0	31	0	−0·9	10·4	7·0	..	0	1	0	0	2	0	0	0	0	0	0
Ratlam	35·8	+1·7	39·2	12,15	18·7	+0·6	15·5	7	0	0	2·2	0	..	0	−0·2	8·1	4·8	−3·0	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	35·1	+2·0	38·0	16	17·5	+0·9	13·4	26	1·4	0	−8·6	0	..	0	−0·8	16·4	12·3	+2·5	0	0	0	0	1	0	0	0	0	1	0
Ujjain	35·5	..	39·0	16	17·5	..	11·0	7	..	0	..	0	..	0	..	..	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	37·1	+2·9	39·6	15	20·0	+1·8	14·6	26	0	0	−6·1	0	..	0	−0·6	8·5	6·8	+3·3	0	0	0	0	0	0	0	0	0	0	0
Indore	35·5	+1·4	38·7	16	17·1	+1·9	11·2	7	0	0	−2·0	0	..	0	−0·3	18·8	14·4	..	0	0	0	0	0	0	0	0	0	0	0
Rajpur	36·4	..	40·6	16	17·8	..	12·0	7	0	0	..	0	..	0	..	10·3	6·8	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	34·9	+2·0	37·7	24	18·1	+1·1	12·5	1	0	8.2	−4·1	8·2	31	1	−0·7	10·0	6·3	+0·5	0	1	0	0	2	0	0	0	0	0	0
Seoni	35·7	+2·4	39·4	25	18·6	+1·5	14·8	1	0	25.0	+4·9	23·0	31	1	−1·0	8·8	6·0	+1·3	0	2	0	0	3	0	0	0	0	0	0
Betul	35·5	+2·0	38·2	15	16·6	+0·2	10·6	1	10·6	17.0	+1·3	14·8	30	1	−0·6	9·4	5·7	+0·1	0	2	0	0	3	0	0	0	0	0	0
Khandwa	8·0	+1·7	41·1	15	19·7	+1·6	14·5	7	0	0	−4·3	0	..	0	−0·5	12·5	7·9	+1 3	0	0	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	34·6	+2·1	37·6	17	15·8	−0·5	12·1	8	0	2.8	−8·6	2·8	31	1	−0·1	8.5	5·6	+0·6	0	1	0	0	2	0	0	0	0	0	0
Sidhi	34·6	..	37·0	16	14·9	..	10·0	8	0	0	..	0	..	0	..	9·0	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	34.9	+2·5	37·5	17	15·4	+0.2	9·6	1	0	0	−17·8	0	..	0	−1·7	9·0	5·0	+0·3	0	0	0	0	1	0	0	0	0	0	0
Jabalpur	36·2	+3·1	38·8	17	16·0	+1.1	11·4	6	0	0	−14·2	0	..	0	−1·4	6·3	3·7	+0·5	0	0	0	0	2	0	0	0	0	0	0
Ambikapur	33·4	+1·6	35·7	17	15·2	+0·2	11·2	1	0	0	−20·5	0	..	0	−2·3	11·2	8·2	+0·3	0	0	0	0	1	0	0	0	0	0	0
Pendra	33.8	+3.1	36·7	24	19·3	+2·4	16·1	8	0·4	12·7	−15·0	12·7	31	1	−1·3	11·6	7·8	..	0	1	0	0	2	0	0	0	0	0	0
Mandla	34·9	+1·2	37·3	17	14·2	+0·1	8·0	1	0	4·2	−23·4	4·2	31	1	−1·1	3·1	1·8	−1·2	0	1	0	0	2	0	0	0	0	0	0
Champa	37·0	+1·7	39·5	24,25	19·7	−0·1	13.6	1	0	1·0	−21·7	1·0	31	0	−1·7	6.9	5·1	−1·0	0	1	0	0	2	0	0	0	0	0	0
Raigarh	37·2	+1·5	40·0	25	20·4	+0·2	14·0	1	0	4·0	−17·0	4·0	31	1	−1·1	8·0	6·5	−1·7	0	1	0	0	0	0	0	0	0	0	0
Raipur	37·2	+2·1	39·7	25	21·7	+1·7	18·2	1	0	1.2	−16·8	1·2	31	0	−1·7	10·0	6·9	+0·1	0	1	0	0	2	0	0	0	0	0	0
Kanker	36·2	+2·0	38·1	24,25	21·2	+2·6	13·8	1	0	12.7	−8·9	12·7	30	1	−1·1	8·7	5·7	+0·6	0	1	0	0	2	0	0	0	0	0	0
Jagdalpur	35·9	+1.3	38·1	24	20·7	+2·4	16·7	1	0	50.9	+37·4	22 6	9	3	+1·8	6·0	3·8	..	0	3	0	0	4	0	0	0	0	2	0
Gujarat Region																													
Deesa	36·6	..	39·7	15	17·3	..	11·9	6	0	0	..	0	..	0	..	10.8	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	36·8	..	39·5	30	17·8	..	10·6	6	0	0	..	0	..	0	..	9·2	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Idar	36·3	..	39.7	15	20·6	..	15·0	3	0	0	..	0	..	0	..	10·5	8·2	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	37·5	+1·4	40.7	16	18·9	+0·9	14·3	6	0	0	−1·3	0	..	0	−0·2	8.9	6·1	−1·5	0	0	0	0	0	1	0	0	0	0	0
Dohad	36·4	+1·3	40·1	14	19·9	+0·9	14·0	7	0	0	−1·6	0	..	0	−0·1	13·9	13·0	−0·1	0	0	0	0	0	0	0	0	0	0	0
Baroda Aerodrome	37·8	..	41·5	15	17·9	..	13.1	7	0	0	..	0	..	0	..	8.8	6·5	..	0	0	0	0	0	1	0	0	0	0	0
Baroda	38·7	+4·0	42.7	15	18·7	+2·0	13·3	7	0	0	−0·5	0	..	0	0	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Broach	39·0	+1·4	43·0	15	19·6	−0·2	15.0	7	0	0	−1·6	0	..	0	−0·1	9·2	7·2	+0·5	0	0	0	0	0	0	0	0	0	0	0
Surat	36·9	+1·3	41·7	14	19·8	+0·4	15·8	1	0	0	−0.3	0	..	0	−0·1	7·8	8.4	+3·1	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimsor	35·6	..	39·6	17	21.3	..	16·4	1	0	0	..	0	.	0	..	19.8	18·1	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	35·6	..	39·6	16	16·7	..	11·5	6	0	0	..	0	..	0	.	16·1	11·1	..	0	0	0	0	0	0	0	0	0	0	0

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—*Contd.*																													
Bhuj (Rudramata)	35·9	+2.1	38.6	16	19·5	+1.6	13·6	6	0	0	−2·8	0	..	0	−0.2	14·4	11·8	+2·1	0	0	0	0	0	0	0	0	0	0	0
Kandla	36·7	...	39.5	13	20·0	...	14·6	1	0	0	...	0	..	0	..	14·1	12·8	..	0	0	0	0	0	1	0	0	0	0	0
New Kandla	33·0	..	38·9	17	21·0	..	16·7	1	0	0	..	0	..	0	..	16.2	15·9	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	30·3	+0·5	36·8	14	18·6	0	11·3	6	0	0	−0·7	0	..	0	−0·2	23·0	19·7	−0·5	0	0	0	0	0	2	0	0	0	0	0
Surendranagar	37·1	+0.9	39·6	16	20·9	+1·0	16·6	1	0	0	0	0	..	0	0	14·5	13·0	+0·6	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	34·3	+1·1	38·3	17	18·4	+1·5	12·5	7	0	0	−2·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Dwarka	28·7	+0·8	37.8	15	21.8	+0·4	18.0	6	0	0	−2·8	0	..	0	−0·2	16·3	15·3	+0·2	0	0	0	0	0	0	0	0	0	0	0
Rajkot	36·2	+0·5	39·5	16	17·1	−0·3	12·6	6	0	0	−0·3	0	..	0	−0 2	20·6	17·0	+0·4	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar (Aerodrome.)	36·2	—	41·8	16	20·6	..	15.8	6	0	0	..	0	..	0	..	19·0	15·1	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	37·7	+2·3	41·2	16	20·1	+1·4	16·4	1,6,27	0	0	−2.8	0	..	0	−0·2	11.2	8·9	+1·2	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	39·9	..	40·6	16	19·0	..	14·1	7	0	0	..	0	..	0	..	20·7	14·9	..	0	0	0	0	0	1	0	0	0	0	0
Porbander	32·1	+0.6	39·8	16	20·8	+0·3	17·8	1	0	0	0	0	..	0	0	18·4	14·2	+0·5	0	0	0	0	0	0	0	0	0	0	0
Keshod	37·2	..	41·6	16	18·1	..	14·0	6,7	0	0	..	0	..	0	..	20·4	15·9	..	0	0	0	0	0	5	0	0	0	0	0
Mahuva	35·4	..	42·0	16	20·2	..	14·6	1	0	0	..	0	..	0	..	13·1	9·7	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	33·1	..	41·5	15,16	18·6	..	14·8	7	0	0	−1·3	0	..	0	−0·1	21·0	16·8	..	0	0	0	0	0	1	0	0	0	0	0
Konkan																													
Dahanu	30·3	+0·1	34·1	22	20·5	−0·1	17·1	8	0	0	−0·1	0	..	0	0	19·6	12·3	−11·3	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	32.2	+1·0	36·8	14	20·2	+1·3	15·7	1	0	0	−0·3	0	..	0	0	15·0	9·7	..	0	0	0	0	0	3	0	0	0	0	0
Bombay	31·4	+1·3	33·6	22,23	22.6	+0·4	19·4	1	0	0	−1·3	0	..	0	−0·1	12·5	9·0	−2·6	0	0	0	0	0	0	0	0	0	0	0
Alibag	30·3	+0·6	36·0	23	21·0	+0·2	16·3	1	..	0	−0·5	0	..	0	−0·1	..	9·7	0	0	0	0	0	0	0	0	0	0	0	0
Harnai	29·0	0	31·8	23	24·0	0	19·2	2	0	0	0	0	..	0	0	17·5	14·1	−1·4	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31·0	..	32·6	22	23·4	..	20·3	2	0	0	−0.8	0	..	0	−0.1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Devgad	30·6	−0·3	32·2	21	23·7	−0·2	20·5	2	0	0	−1·1	0	..	0	−0·1	16·5	13·1	−1·9	0	0	0	0	0	0	0	0	0	0	0
Vengurla	31·5	−0·6	33·4	28	21·6	−0·1	18·7	2	0	0	0	0	..	0	0	10·3	5·0	..	0	0	0	0	0	1	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	38·5	..	42·0	15	22·2	..	17·4	1	0	0	..	0	..	0	..	9·4	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	39·8	+2·1	42·6	16	19·4	+0·6	13·2	7	0	0	−3·6	0	..	0	−0·4	14·9	12·7	+3·0	0	0	0	0	2	0	0	0	0	0	0
Malegaon	38·5	+2·1	41·0	16	17·8	+0·7	11·3	1	0	0	−2·0	0	..	0	−0·3	11·0	9·0	+0·8	0	0	0	0	0	0	0	0	0	0	0
Deolali Aerodrome	36 8	..	39.1	15,17	16·3	..	10·3	1	0	0	..	0	..	0	..	11·4 (g)	7·8 (h)	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadnagar	38 0	+2·8	39·7	13	18·9	+1·6	14·2	2	0	0	−5·3	0	..	0	−0·3	10·6	8·1	−0·4	0	0	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	0	0	..	0	0	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona Aerodrome	37·1	..	38·9	12	17·7	..	10·6	1	0	0·5	..	0·5	31	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Poona	37·9	+1·8	40·0	13	17·3	+0·8	10·4	2	0	0·8	−0·7	0·8	31	0	−0·2	4·8	3·2	−5·0	0	1	0	0	0	0	0	0	0	0	0
Jeur	38·7	+1·8	40·2	20	19·1	+0·7	11·8	1	0	0	−2 0	0	..	0	−0·3	9·8	7·5	−0·4	0	0	0	0	2	0	1	0	0	0	0
Baramati	38·5	+2·0	39·7	21	19·6	+1·1	12·4	2	4·2	0	−2.6	0	..	0	−0·5	9·3	8·9	+0·1	0	0	0	0	2	0	0	0	0	0	0
Sholapur	38·8	+1·5	40·5	24	21·8	+1·1	16·6	1	0	0·6	−5·2	0·6	29	0	−0·5	10·5	8·3	−0·9	0	1	0	1	3	0	0	0	0	0	0
Miraj	38·0	+2·7	39·6	21,22	18·7	+0·6	13·4	2	0	0·8	−3·0	0·8	17	0	−0·7	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Kolhapur	37·8	+1·9	39·7	22	19·1	+0 2	15.3	2	0	0	−9·7	0	..	0	−0·7	10·8	10·6	0	0	0	0	0	0	1	0	0	0	0	0
Aurangabad	37·7	+2·2	39·5	15	21·3	+1 9	16·2	2	0	0	−5·1	0	..	0	−0.5	12·3	10·8	+0·8	0	0	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthana)	37·2	..	38·7	12	17·8	..	10·6	1	0	0	..	0	..	0	..	13·9	10·5	..	0	0	0	0	2	0	0	0	0	0	0
Parbhani	38·8	+1·9	40·5	13,20	20·3	+0 2	15·5	1	1·4	25·4	+18·2	18 6	30	3	+2·4	9·9	7·9	+0·2	0	3	0	0	4	0	0	0	0	0	0
Nander	39·7	..	..	..	..	..	..	..	26·7	28·7	..	25·5	30	1	..	5·6	4·7	..	0	3	0	1	3	0	0	0	0	0	0
Bir (R)																													
Vidarbha																													
Gondia	37·4	+2·5	40·0	25	19.8	+0 4	14·0	1	0	3·4	−14·0	2·4	30	0	−2·0	6·7	3·8	−0·4	0	2	0	0	2	0	0	0	0	0	0
Nagpur (Sonegaon)	38·3	+1·8	40·4	24	19·4	+0 2	15·3	1	0	0	−15·2	0	..	0	−1·5	11·6 (a)	9·2 (a)	..	0	0	0	0	2	0	0	0	0	2	0
Amravati	38·6	+2·2	40·6	14	21.4	+0·6	16·4	1	17·0	17·6	+8 7	17·6	30	1	+0·2	13·5	10·2	+3·4	0	1	0	0	4	0	3	0	0	0	0
Akola.	38·6	+1·5	41·0	14	20·4	+1·5	13·5	1	7·8	12·7	+3.6	9·8	30	2	+1·3	9·6	7·1	+1·3	0	2	0	0	1	0	0	0	0	0	0
Brahmapuri	38·2	..	40·4	25	20·4	..	13·6	1	0	1·9	..	1·9	30	0	..	4·4	2·6	..	0	1	0	0	0	1	0	0	0	0	0
Buldhana	35·6	+1·4	38·2	16	21·7	+0·1	19·0	31	0	3·4	−2·9	3·4	16	1	+0·3	11·7	11·2	+2·1	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	38·1	+2·0	40·2	14	23·0	+1·6	18·6	1	0	10.5	−8·7	10·5	30	1	−0·7	12·8	10·8	+0·5	0	1	0	0	2	0	0	0	0	0	0
Chanda	39·2	+2·1	41·2	24	21·2	+1 3	14·2	1	0	0	−19·6	0	..	0	−1·2	8·9	5·7	+1·8	0	0	0	0	2	0	0	0	0	0	0
Pusad	...	..	..	..	19.6	..	11·5	4	8·4	12·6	..	8 4	31	2	..	10·4	6·9	..	0	2	0	0	0	0	0	0	0	0	0
Sironcha	39·2	+1·8	41·6	24,25	23·5	+1·3	19·6	4	0	0	−16·6	0	..	0	−1·1	2·0	0·8	−4·7	0	0	0	0	2	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31·7	−0·9	35.2	31	24·5	+1·8	20·9	10	0	2·6	−8·6	2·6	29	1	+0.4	20·8	15·8	+5·7	0	1	0	0	1	0	0	0	0	0	0
Visakhapatnam	33·3	−1·0	37·2	20	23·9	+1 2	21·5	10	0	0	−11·9	0	..	0	−0·8	22·6	13·4	+5·2	0	0	0	0	1	0	0	0	0	0	0
Kakinada	34·2	+1·0	36·0	22,23 25	24·9	+1·8	22·4	3	0	0	−12·2	0	..	0	−0·7	12·9	8·8	+1·6	0	0	0	0	0	0	0	0	0	0	0
Nidadavole.	33·8	..	35·4	26,31	22·5	..	19·8	9	0	0	..	0	..	0	..	8·9	5·9	..	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	39·1	+1·7	42·2	25	24·8	+0·6	21·8	9	0	0	−2·3	0	..	0	−0·3	8·2	8·2	−1·1	0	0	0	0	0	0	0	0	0	0	0
Gannavaram		−0·3	38·2	26	23·4	+1·1	21·1	4days	0	0	−12·0	0·0	..	0	−0·5	17·2	12·4	+1·7	0	0	0	0	0	1	0	0	0	0	0

(a) Mean of 24 days. (b) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—(*Contd.*)																														
Nagarjunakonda	39·5	..	42.6	25	25·8	..	21·8	16	0	0	..	0	0	0	..	14·1	15·8	..	0	0	0	0	2	0	0	0	0	0	0
Masulipatam	32·1	−0·4	34·3	26	23·9	+1·5	20·7	1	0	0	−10·7	0	..	0	−0·5	8·1	5·4	−1.5	0	0	0	0	0	0	0	0	0	0	0
Ongole	33·3	..	36·7	26	24·4	..	21·2	9	0	0	..	0	..	0	..	12·4	10·1	..	0	0	0	0	0	1	0	0	0	0	0
Nellore	35·3	+0·7	38·9	26	23·5	+0·8	21·5	1,9	0	0	−4·3	0	..	0	−0·3	12·9	10·6	+3.7	0	0	0	0	0	0	0	0	0	0	0
Telangana																														
Ramagundam	39·3	+1·9	41·8	24	24·3	+1·8	21·3	1,2	0·2	0·2	−10·6	0·2	25	0	−0·9	10·2	6·8	−0·2	1	0	0	0	0	0	0	0	0	0	0
Nizamabad	38·5	+1·7	40·4	24	21·8	+1·3	15·2	2	0	0	−10·2	0	..	0	−0·8	8·2	6·0	+1·7	0	0	0	0	1	0	0	0	0	0	0
Hanamkonda	38·2	+2·6	41·7	20	23·5	+1·7	20·9	9	6·8	9·6	−2·1	6·8	28	2	+1·2	7·6	7·2	−1·2	0	2	0	0	1	0	0	0	0	0	0
Hakimpet (Aerodrome)	35·6	..	37·5	23	21·9	..	17·8	2	6·9	10·4	..	9·4	25	1	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Bhadrachallam	37·9	+0·7	40·0	22,26	23·6	+0·8	21·4	10	3·8	3·8	−4·5	3·8	28	1	+0·2	7·3	8·4	+0·1	0	1	0	0	1	0	0	0	0	0	0
Hyderabad (Begumpet)	36·5	+1·4	38·5	20	21·0	+1·4	15·9	1	5·6	5·6	−6·1	4·6	25	1	+0·1	11.5	6·0	−0·4	0	2	0	0	3	0	1	0	0	1	0
Khammam	37·8	..	40·4	25	23·9	.	21·2	1	0	0	..	0	..	0	..	7·0	6·6	..	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	37·5	..	39·2	21	22·2	..	18·0	1	4·2	5·9	..	4·6	28	1	..	9·5	7·2	..	0	2	0	0	2	0	0	0	0	0	0
Rayalaseema																														
Kurnool	39·3	+1·5	41·4	22	24·1	+1·9	20·5	2	0	5·6	+0·3	5·6	28	1	+0·6	11·2	8·1	+1·8	0	1	0	0	2	0	0	0	0	0	0
Anantapur	38·3	+1·5	40·0	21	23·3	+1·6	19.5	14	0	0	−3·9	0	..	0	−0·3	11·8	10·7	+1·2	0	0	0	0	1	0	0	0	1	0	0
Cuddapah	38·7	+0·4	41·5	25	24·5	+0·7	21·3	10	0	0	−4·6	0	0	0	−0·3	10·6	7·5	−4·7	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	34·3	..	36·4	26,27	19·9	..	16 7	15	0	0	..	0	..	0	..	9·4	8·5	..	0	0	0	0	1	0	0	0	0	0	0
Madras State																														
Madras	31·9	..	34·5	25	23·2	..	20·7	1	0	0	..	0	..	0	..	..	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	33·5	+0·5	36·3	25	23·7	+1·3	21·5	1	0	0	−7.4	0	..	0	−0·4	15·0	10·4	−0·2	0	0	0	0	0	0	0	0	0	0	0
Vellore	35·8	+1·2	39·1	27	22·2	+1·2	19·5	9,11	0	0	−6·9	0	..	0	−0·5	7·4	8·5	+3·5	0	0	0	0	0	1	0	0	0	0	0
Tambaram Aerodrome	34·6	..	37·2	25	23·2	..	20·6	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tiruppattur	36·1	..	38·8	24	20·0	..	16·1	9,15	0	0	..	0	..	0	..	5·6	4·7	..	0	0	0	0	1	0	0	0	0	0	0
Cuddalore	31·1	−0·2	32·6	27,28	..	..	..	..	0	0	−17·5	0	..	0	..	14 8	11·0	+4·4	0	0	0	0	0	0	0	0	0	0	0
Kallakkurichchi	36·3	..	39·0	27	23·1	..	20·0	1	..	0	..	0	..	0	..	8·3	7·1	..	0	0	0	0	0	0	0	0	0	0	0
Salem	37·1	+0·4	39·4	24	23·5	+1·6	20·4	15	0	0	−12·5	0	..	0	−0·9	11·4	11 6	+4·4	0	0	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	35·4	..	38·1	24	21·8	..	18·4	9	0	2·0	..	2·0	28	0	..	13·7	14·0	..	0	1	0	0	2	1	0	0	0	1	0
Coimbatore	35·7	+0·5	37·9	24	22·6	+1·4	20·1	9	0	0	−12·7	0	..	0	−0·9	9·0	7·1	+3·	0	0	0	0	1	0	0	0	0	0	0
Nagapattinam	30·9	−0·3	34·3	27	25·6	+1·0	21·2	1	0	0	−20·1	0	..	0	−1·0	19·2	17·5	+7·4	0	0	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	36.1	+0·3	38·7	27	23·9	+1·6	21·5	1,8,9	0	0	−9·1	0	..	0	−0·7	10·4	10·5	+2·9	0	0	0	0	0	0	0	0	0	0	0
Vedaraniyam	32·1	..	34·7	28	24·0	..	..	..	0·4	0	...	0	..	0	..	11·0	8·5	..	0	0	0	0	0	0	0	0	0	0	0
Atirampattinam	32·5	..	34·4	31	24·6	..	20·0	1	0	0	..	0	..	0	..	16·7	12·8	..	0	0	0	0	1	0	0	0	0	0	0
Madurai	35·7	+0·5	37·9	27,28	24·3	+1·8	22·1	12	9·8	0	−6·8	11·0	29	1	0	7·2	6·1	+0 6	0	1	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	35·5	..	37·7	27	23·3	..	21·4	11	0	1·6	..	1·6	29	0	..	10·8	9 7	.	0	1	0	0	1	0	0	0	0	0	0
Tondi	31·[illegible]	..	32·8	25,26	25·3	..	22·1	1	0·3	0·2	..	0.2	31	0	..	19·1	18·1	..	1	0	0	0	0	0	0	0	0	0	0
Pamban	32·1	+0·7	34·1	29	25·6	+0·8	21·6	1,10	0	0	−18·3	0	..	0	−1·4	11·9	12·2	+3·3	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	30·6	+0·9	34·8	26,28	24·2	−0·7	22·6	1	0	4·0	−25·6	4·0	29	1	−0·3	12·1	17·4	+1·0	0	1	0	0	0	0	0	0	0	0	0
Palayamkottai	36·1	+1·0	39·4	27	24·3	−0·1	22·4	1	3·8	9·2	−19·7	5·4	31	2	0	9.7	6·6	−1·3	0	2	0	0	1	0	0	0	0	0	0
Kanniyakumari	31·8	..	33·0	13	25·0	..	23·1	30	0	59·2	..	55·0	30	1	..	19 6	16·1	..	0	3	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	31·4	+0·5	34·1	12	22·8	+0·3	19·6	2,3	0	0	0	0	−0·3	0	0	16·2	10·1	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	31·8	−0·4	32·8	22,25	23·2	+0·3	20·4	3	0	0	−0·3	0	..	0	0	11·0	8·7	+3·6	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	33·0	..	35·7	31	24·0	..	21·9	3	0	0	..	0	..	0	..	11·7	6·7	..	0	0	0	0	0	2	0	0	0	0	0
Mangalore	32·0	..	33·4	31	25·0	+0·7	22·7	3	0	0	−5·3	0	..	0	−0·3	12·0	9·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																														
Bidar	36.8	+1·9	39·0	25	23·2	−1·1	20·0	5	0	0	−10·7	0	..	0	−1·2	12·5	10·8	+0·8	0	0	0	0	2	0	0	0	0	0	0
Gulbarga	38·7	+1·4	40·2	22,23, 24	22·9	+1·5	18·0	4	0	0·4	−9·0	0·4	29	0	−0·8	12·7	11·2	+2·0	0	1	0	0	1	0	0	0	0	0	0
Bijapur	38·2	+2·1	39·9	22,23	22·6	+1·4	18·4	5	0	13·8	+8·5	13·8	30	1	+0·4	7·3	6.4	0	0	1	0	0	1	0	0	0	0	0	0
Raichur	38·8	+1·9	40·5	20,26	24·7	+1·5	20·8	2	0	1·7	−1·9	1·7	29	0	−0·4	9·5	11·7	+2·8	0	1	0	0	2	0	0	0	0	0	0
Belgaum	36·4	+1·1	38·0	22	18·5	+0·9	14·1	2	0	0	−10·4	0	..	0	−0·9	8·0	6·1	−0·6	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Sambra)	35·9	..	37·0	13	18·8	..	14·0	1	17·3	0	..	0	..	0	..	..	..	..	0	0	0	1	3	1	0	0	0	0	0
Gadag	37·8	+2·5	39·3	29	22·0	+1·6	19·1	4,6	0	0	−5·6	0	..	0	..	9·0	9·5	+1·6	0	0	0	0	4	0	0	0	0	0	0
Interior Mysore (South)																														
Bellary	38·0	+0·5	39·7	28	24·0	+1·6	20·1	15	0	0	−5·3	0	..	0	−0·6	9·7	7·7	+2·4	0	0	0	0	0	0	0	0	0	0	0
Chitradurg	36·2	+1·3	37·8	29	22·3	+1·0	19·1	6,7	0	0·2	−4·1	0·2	29	0	−0·4	10·2	8·9	+2·6	1	1	0	0	1	0	0	0	0	0	0
Shimoga	36·6	+1·3	38·0	29	18·4	−0·7	14·4	15	0	0	−10.5	0	..	0	−0·9	7·7	5·4	+0·5	0	0	0	0	0	6	0	0	0	0	0
Balehonnur	32·8	+2·0	34·7	15	17·9	+0·8	16·7	10,15	0	21·3	−10·2	11·9	24	2	+0·2	..	..	..	0	3	0	0	2	0	0	0	0	0	0
Hassan	31·9	−0·3	35·7	20	18·2	..	..	..	0	30·0	+20·6	30·0	30	1	+0·4	8·7	7·3	+2.2	0	1	0	0	0	3	0	0	0	0	0
Bangalore	33·7	−1·3	35·6	28	20·1	+2·0	15.0	9	0	0.6	−9·6	0 6	28	0	−0·8	10·9	9·7	+2·5	0	1	0	0	1	1	0	0	0	0	0
Bangalore Aerodrome	34·2	..	35·9	..	19·	..	16·2	15	0	0·2	..	..	..			..	..	..	1	1	0	0	1	2	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed kms. per hour: Mean between 0830–1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—(*Contd.*)																													
Mysore	34·9	+0·6	36·4	28	20·4	+0·6	16·8	16	0	0	−12·9	0	..	0	..	12·6	12·4	+5·0	0	0	0	0	1	0	0	0	0	0	0
Kerala																													
Calicut	32·9	+0·6	33·8	2223	25·6	+1·1	23·8	10	0	9·8	−7·5	9·8	23	1	+0·2	17·4	13·7	+3·1	0	1	0	0	0	0	0	0	0	0	0
Palghat	37.4	..	39·1	25	24.7	..	23·3	9	0	2·0	..	2·0	28	..	..	13·0	10·7	0	0	1	0	0	1	0	0	0	0	0	0
Fort Cochin	31·8	+0·7	33·6	31	25.7	+0.1	24·3	6	0	1·2	−49·9	0·8	19	0	−2·8	17·4	13·0	+4·1	0	2	0	0	0	0	0	0	0	0	0
Cochin (Naval Air-Station)	32·8	..	34·8	31	25·3	..	23·7	11	0	0·9	..	0·5	..	0	..	14·9	10·0	..	0	2	0	0	3	0	0	0	0	1	0
Alleppy	36·8	+0·3	34·6	10	25·7	+0·6	23·5	9	0	2·0	−74·6	1·2	9	0	−4·2	19·0	14·1	+2·6	0	2	0	0	2	0	0	0	0	0	0
Punalur	33.6	..	38·4	30	23·3	..	20·0	12	0	13·0	..	6·0	28	3	..	8·1	5·2	..	0	3	0	0	0	0	0	0	0	0	0
Trivandrum	32·5	+0·1	34·6	16	24·4	+0·2	22·1	12	2·2	2·2	−36·9	2·0	30	2	−0·5	12·7	8·3	+2·2	2	1	0	0	4	0	0	0	0	0	0
Trivandrum (Aerodrome)	32·4	..	33·8	31	23·9	..	20·0	12	..	0·6	..	0·6	30	0	..	..	6·6	..	0	1	0	0	4	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	18·6	+0·9	24·0	13,15	7·5	−0·5	3·2	6	39·0	114·0	−14·9	42·0	24	5	−1·4	4·1	5·5	−0·4	0	6	0	0	1	0	0	0	0	0	0
Dharmshala	21·6	+0·5	25·9	15,16, 31	13·1	+0·3	9·4	26	8·8	40·8	−70·5	18·4	24	4	−2·5	6·5	5·5	−0·5	0	5	0	0	7	0	0	0	0	0	0
Simla	15·2	+1·3	20·7	15	7·4	+1·0	2·6	26	19·9	32·2	−27·7	18·6	26	2	−2·7	5·3	4·2	+1·3	0	4	1	1	2	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	0	−48·0	..	..	0	−2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	−4·4	..	−1·9	31	−10·2	..	−11·3	6	..	162·0	..	30·0	26	13	..	..	..	..	0	15	12	2	1	0	0	0			0
Badrinath	Closed During Winter Months																												
Joshimath	18·1	..	23·6	16	7·1	..	2·3	6	4·9	84·8	..	24·4	19	6	..	7·7	8·8	..	0	8	0	0	0	0	0	0	0	0	0
Mussooree	18·2	+2·8	22·3	13	8·2	+1·1	3·5	6	0	7·8	−49·6	4·2	19	2	−1·7	9·9	7·9	+0·3	1	2	0	0	2	0	0	0	0	0	0
Mukteswar (Kumaon)	17·4	+2·2	22·9	15	7·3	+1·4	3·4	3,18	0·5	2·3	−46·0	2·0	19	0	−4·1	17·0	15·9	+5·8	0	2	0	0	1	0	0	0	0	0	0
Nainital	17.0	+0·3	21·2	14	8·2	+0·3	4·4	6	1·0	1·5	−52·2	1·5	19	0	−4·1	9·7	8·3	+0·4	0	1	0	0	0	0	0	0	0	0	0
Walong (R)																													
Kalimpong	21·8	+1·0	26·9	24	12·7	+0·1	10·1	6days	0	40·6	+12·4	40·6	17	1	−2·0	6·4	4·4	−8·0	0	1	0	0	0	0	0	0	0	0	0
Darjeeling	15·2	+1·4	20·6	26	7·9	+0·8	3·9	4	37·8	55·4	+7·7	35·4	17	3	−0·6	2·4	2·0	−0·7	0	3	0	2	1	3	0	0	0	0	0
Kohima	21·0	..	24·5	27	14·9	..	9·3	1	35·4	99·3	..	18·5	19	9	..	..	..	..	1	14	0	0	0	0	0	0	0	0	0
Shillong	22·5	+1·2	25·7	17	11·7	+1·3	7·2	9	10·3	22·5	−27·5	9·6	14,17	2	−1·9	10·6	9·0	+2·2	1	5	0	0	0	0	0	0	0	0	0
Cherrapunji (R)																													
Aizawl	27·5	+2·7	31·5	14	16·8	+0·7	11·0	24	0	0	−4·3	0	..	0	−0·5	11·5	7·9	−0·3	0	0	0	0	0	0	0	0	0	0	0
Aizal	25·0	..	29·2	8	16·5	..	10·8	19	35·9	115·9	..	64·0	19	6	..	1·9	1·3	..	0	8	0	0	0	0	0	0	0	0	0
Pachmarhi	31·5	+2·6	34·5	15	15·1	−0·1	9·5	7	0	3·8	−10·4	3·8	31	1	−0·3	8·0	6·3	+0·7	0	1	0	0	2	0	0	0	0	0	0
Mahabaleshwar	30·4	+2·4	32·6	21	19·5	+2·5	17·6	3	0	0	−4·3	0	..	0	−0·4	11·2	11·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Mercara	29·9	+0·9	30·9	21,26	17·2	+0·8	14·8	9	5·2	5·2	−14.1	4·0	21	1	−0·6	11·4	8·5	+3·5	0	2	0	0	4	0	0	0	0	0	0
Ootacamund	23·2	+2·1	25·2	23	9·3	+0·5	5·7	16	4·0	4·0	−28·5	4·0	27	1	−1·6	6·8	4·0	−1·3	0	1	0	0	1	0	0	1	0	0	0
Coonoor	24·1	+1·4	26·0	22	11·5	+0·2	6·1	17	..	4·4	−17·9	4·4	29	1	−1·8	..	8·3	+2·7	0	1	0	0	0	0	0	0	0	0	0
Kodaikanal	21·2	+2·2	22·4	27	10·5	+0·4	6·8	9	4·7	2·9	−43·1	2·4	26	0	−3·1	14·5	13·9	+0·7	0	3	0	0	2	0	0	0	0	0	0
Nepal																													
Katmandu	24·2	..	26·8	16	7·5	..	4·0	8	5·1	21·4	..	11.5	16	2	..	2·9	1·7	..	0	3	0	0	4	1	0	0	0	0	0
Sikkim																													
Lachen	10·1	..	16.7	15	1·3	..	−5·3	2	..	(e) 132·4	..	..	..	..	..	..	..	..	..	5	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories—Damodar Catchment																													
Tilaiya	32·8	..	35·6	20,26	18·8	..	14·4	4 days	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	31·4	..	34·3	26	16·8	..	13·3	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bokaro†	35·5	..	38·3	26	15·0	..	10·0	7	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Maithon	31·2	..	34·4	16,30	16·8	..	12·2	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Ramgarh	34·9	..	37·8	26	16·3	..	10·0	1,2	0	0	..	0	..	0	.	5·5	2·4	..	0	0	0	0	0	0	0	0	0	0	0
Panchet Hills	35·7	..	38·6	20	19·6	..	16·2	1	0	0	..	0	..	0	..	10·0	6·4	..	0	0	0	0	1	16	0	0	0	0	0
Durgapur	36·3	..	39·8	25	21·0		13·9	1	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Gimabahar	35·7	..	38·1	20	16·7	..	10·4	1	..	0	..	0	..	0	..	..	..	..	..		..	..	..	..	..	..	..	..	..
Hirakud	36·3	..	38·7	26	21·1	..	15.3	1	0·1	10·7	..	10·7	31	1	..	5·5	3·8	..	0	1	0	0	1	0	0	0	0	1	0
Bhimkund	35·8	..	38·3	26	19·6	..	13·5	1	3.0	13·5	..	10·0	28	2	..	3·0	1·1	..	0	3	0	2	8	0	0	0	0	0	0
Sonepur	36·9	..	39·7	25	..	..	..	..	..	0·8	..	0·8	31	0	..	..	4·0	..	0	1	..	..	..	..	..	..	..	..	..
Khijrawan	36·8	..	38.9	24,25	19·6	..	13·2	1	0	2·0	..	2·0	3·0	0	..	(h) 11·6	6·2	..	0	1	0	0	1	0	0	0	0	0	0

*Data given as addenda in December 1961 issue. (e) Total for 26 days. (R) Register not received. † Observations of 28 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed (km. p. h.): Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories— *(Contd.)*																													
Narbada Catchment																													
Bagra Tawa	37·6	..	40·6	15	18·0	..	11·2	7	0	7·2	..	7·2	31	1	..	8·2	5·2	..	0	1	0	0	0	0	0	0	0	0	0
Punasa	38·8	..	41·4	14	19·3	..	13·7	7	0	0	..	0	..	0	..	7·8	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	38·7	..	41·4	15,16	19·4	..	14·0	7	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Jhadol (R)																													
Dharoi	36·9	..	39·5	15	17·9	..	13·4	27	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim	18·3	..	22·8	16	8·8	..	4·0	6	4·7	29·8	..	12·1	19	5	..	..	..	..	1	6	0	1	6	0	0	0	0	0	0
Tehri	28·4	..	32·6	16	11·1	..	6·8	1	1·4	9·6	..	5·2	19	1	..	4·7	2·9	..	0	5	0	0	3	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	15·7	..	19·8	16	2·6	..	−0·8	7	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	46·7	125·1	..	48·0	18	7	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Timure	20·5	..	23·4	15,26	8·7	..	5·2	3	11·7	55·1	..	21·3	2	5	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Pokhara	25·9	..	28·3	15,25	13·7	..	10·6	7	36·8	40·2	..	22·5	17	3	..	7·1	6·5	..	0	5	0	0	0	0	0	0	0	0	0
Gorkha (R)																													
Nawakot	27·2	..	29·7	25,26	13·8	..	11·0	7	9·2	36.9	..	17·4	16	3	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalyana Region)																													
Dailekh (R)																													
Ghaghara Catchment																													
Mansiari	15·3	..	20·1	15	6·6	..	2·7	6	29·5	79·2	..	26·3	18	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura	19·1	..	22·4	14	9·8	..	6·1	18	3·6	8·8	..	6·4	19	1	..	..	..	..	0	3	0	0	1	0	0	0	0	0	0
Sallayana	23·1	..	25·2	12,17	14·0	..	10·8	3	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	31·9	..	36·6	25	18·7	..	13·9	3	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment																													
Katmandu†																													
Kosi Catchment																													
Chautara	24·2	..	26·8	25	11·7	..	8·2	3	14·2	47·1	..	19·8	17	5	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	70·4	175·2	..	26·8	7	12	..	..	..	..	0	15	..	..	..	..	..	..	..	..	..
Wallungchung Gola	9·3	..	14·8	15	−0·9	..	−8·6	1,2	23·1	44·1	..	8·9	18	8	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Taplethok	23·2	..	28·5	28	11·7	..	7·9	3	31·6	71·4	..	21·0	18	7	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Bhojpur	20·7	..	24·6	25	13·5 (m)	..	11·8 (m)	28	0	10·0	..	5·2	16	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Taplejung	19·6	..	25·1	26	9·0	..	5·0	3	23·0	45·9	..	20·0	17	6	..	..	..	..	0	6	0	1	3	0	0	0	0	0	0
Okhaldunga	19·7	..	22·4	14,26	9·7	..	6·5	1	17·2	24·4	..	14·8	17	3	..	9·2	7·3	..	0	7	0	2	7	0	0	0	0	5	0
Chainpur	25·5	..	30·0	26	13·8	..	10·3	1	1·8	1·8	..	1·8	3	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Angbung	(b) 25·1	..	30·3	26	13·6	..	9·0	3	8·0	28·0	..	10·0	17,19	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Barahkshetra	30·8	..	37·0	26	16·3	..	12.2	4	0·2	15·9	..	11·2	17	2	..	11·0	7·2	..	0	4	0	0	6	0	0	0	0	1	0
Tista Catchment																													
Gangtok	18·3	..	23·3	15.26	8·9	..	4·8	1,3	51·3	174.5	..	36·1	2	10	..	4·1	3·4	..	0	12	0	7	9	3	0	0	0	0	0
Geyzing	22·3	..	28·1	27	10·0	..	5·6	3	2·5	27·7	..	10·9	17	3	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..

(R) Register not received. †Data included under "Nepal". (m) Mean of 18 days. (b) Mean of 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millib: At mean sea level or height in g.p.m. of standard isobaric level	Mean pressure in millib: At station level	Mean pressure in millib: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1013·4	1010.3	..	28·2	4·4	22·6	27·4	72	..	3·2	..	2·9	0	0	22	0	19	1	0	0	0	0	2	9	0
	1730	,,	1010·6	1007·5	..	28·2	24·5	22·7	27·6	73	..	4·0	..	3·4	0	0	19	0	14	1	1	0	1	0	2	12	0
Long Island	0830	25	1013·1	1010·2	..	27·8	24·6	23·1	28·3	76	..	3·8	..	2·3	0	0	16	0	0	0	1	0	4	4	0	15	7
	1730	,,	1010·1	1007·3	..	28·5	24·6	22·7	27·6	71	..	5·3	..	1·5	0	0	9	0	0	0	0	1	2	1	3	22	2
Port Blair	0530	79	1011·5	1002·5	..	23·7	23·3	23·2	28·4	97	..	4·1	..	2·9	0	0	14	0	8	2	0	0	0	2	2	17	0
	0830	,,	1013·5	1004·7	+1·6	28·7	25·5	24·2	30·2	76	+4	4·5	+1·6	6·0	0	0	28	3	11	7	0	1	0	2	4	3	0
	1130	,,	1012·3	1003·5	..	30·1	26·4	24·8	31·3	74	..	4·5	..	8·8	0	0	30	1	17	9	1	0	0	1	1	1	0
	1730	,,	1010·6	1001·7	..	27·3	25·2	24·2	30·2	83	..	4·8	..	4·8	0	0	20	0	12	3	0	0	4	0	1	11	0
	2330	,,	1012·2	1003·3	..	24·9	24·2	23.8	29·5	94	..	3·6	..	4·9	0	0	19	0	9	3	0	0	0	1	6	12	0
Car Nicobar	0830	10	1012·9	1011·7	..	29·1	25·3	23·7	29·3	71	..	4·2	..	4·4	0	0	26	1	22	2	0	0	0	0	1	5	0
	1730	,,	1010·2	1009·0	..	27·6	24·7	23·5	28·9	79	..	4·2	..	2·1	0	0	15	0	14	1	0	0	0	0	0	16	0
Nancowry	0830	26	1012·8	1009·9	..	29·4	26·1	24·7	31·1	76	..	4·6	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1010·0	1007·1	..	28·0	25·3	24·1	30·0	79	..	4·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1012·5	1011·6	..	28·2	25·7	24·5	30·7	81	.	4·1	..	2·1	0	0	10	0	3	7	0	0	0	0	0	21	0
	1730	,,	1009·7	1008·8	..	27·6	25·3	24·4	30·5	82	..	4·8	..	3·5	0	0	18	0	3	9	6	0	0	0	0	13	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1013·3	995·1	..	19·1	16·1	13·9	15·9	74	..	5.9	..	13·6	0	10	15	0	0	0	1	0	1	0	23	6	0
	1730	,,	1009·6	991·6	..	20·3	17·4	15·4	17·6	75	..	5·8	..	8·5	0	3	20	2	0	1	0	1	1	0	18	8	0
Dibrugarh (Mohanbari)	0230	111	1010·0	997·1	..	16·7	15·7	14·8	16·9	89	..	6·0	..	5·2	0	0	20	0	19	0	0	0	1	0	0	11	0
	0530	,,	1011·0	998·0	..	16·1	15·3	14·6	16·7	91	..	5·9	..	4·3	0	0	18	1	11	5	0	1	1	0	0	13	0
	0830	,,	1013·0	1000·5	−0·1	19 8	17·1	15·1	17·4	76	0	5·3	+1·1	6·9	0	0	22	1	17	2	1	1	0	0	1	9	0
	1130	,,	1012·1	999·0	..	22·9	18·3	15·0	17·4	64	..	5.3	..	7·6	0	1	27	1	19	6	1	0	0	1	0	3	0
	1730	,,	1009·8	996·7	..	21.1	17·7	16·0	17·5	74	..	5·8	..	4·7	0	0	18	0	15	1	1	0	1	0	0	13	0
	2330	,,	1011·1	998·2	..	17·7	16·3	15·2	17·4	86	..	5·9	..	3 6	0	0	16	0	12	2	1	1	0	0	0	15	0
Dibrugarh	0830	106	1012 8	1000·5	—0.1	20·0	17·4	15·4	17·7	76	0	4·8	+0·6	2·9	0	0	29	5	16	7	0	0	1	0	0	2	0
	1730	,,	1008·8	996·7	..	21·6	18·9	17·1	19·6	77	..	4·8	..	1·6	0	0	16	3	10	2	1	0	0	0	0	15	0
Digboi	0830	..	..	..	..	19 6	17·6	16·1	18·5	81	..	..	..	..	0	..	..	3	9	9	1	2	2	2	3	0	0
	1730	..	..	..	..	22·5	19·6	17·9	19·1	78	..	..	..	..	0	..	..	2	7	5	0	10	0	5	2	0	0
North Lakhimpur	0830	102	1013·0	1001·3	—0·4	20·6	17·7	15·8	17·8	75	+1	4·0	—0·2	.	0	0	31	8	10	6	5	1	0	1	0	0	0
	1130	,,	1011·9	1000·2	..	24·3	18·7	14·9	16·9	58	..	4·1	..	..	0	0	31	3	10	12	4	2	0	0	0	0	0
	1730	,,	1009·4	997·7	..	21·5	18·5	16·4	18·8	75	..	4·5	..	..	0	0	22	3	13	5	0	1	0	0	0	9	0
Sibsagar	0830	97	1012·9	1001·8	—0·1	20·5	18·0	16·3	18 5	78	—3	5·9	+0·9	3·8	0	0	26	1	10	7	6	0	2	0	0	5	0
	1730	,,	1009·8	998.8	..	23·0	19·6	17·5	20 0	73	..	6·2	..	3·8	0	0	20	2	13	1	3	1	0	0	0	11	0
Gohpur (R)	0830	..																									
	1730	..																									
Majbat (R)	0830	77	..	..	..	..	..	..	..	..	..	2·5	..	5·8	0	0	29	2	10	13	2	0	2	0	0	2	0
	1730	,,	..	..	..	..	..	..	..	..	..	2·9	..	3·8	0	0	21	3	10	4	3	0	1	0	0	10	0
Jorhat Aerodrome	0530	90	1010.3	999·8	..	17·1	16·5	15·9	18·3	94	..	5·5	..	3·2	0	0	13	0	7	4	0	2	0	0	0	18	0
	0830	,,	1012·3	1002·1	..	20·3	18·1	16·3	19 0	81	..	5·0	..	4·5	0	1	26	1	20	4	0	0	2	0	0	4	0
	1130	,,	1011·1	1000·8	..	24·1	19·2	15·9	18·3	62	..	4·9	..	11·4	0	1	29	1	22	4	0	0	1	1	1	1	0
	1730	,,	1008·1	997·8	..	22·6	19·1	16·8	19·3	71	..	5·1	..	10·0	0	1	27	1	23	1	0	1	1	1	0	3	0
	2330	,,	1010·4	999·9	..	18·6	17·3	16·4	18·8	87	..	4·9	..	7·5	0	2	20	1	19	0	0	0	2	0	0	9	0
Tangla	0830	78	1010·5	1001·5	..	22 6	18·4	15·6	17·7	67	..	1·8	..	1.9	0	0	12	0	0	11	1	0	0	0	0	19	0
	1730	,,	1007·4	998·4	..	25·6	21·6	19·7	22·5	72	..	1·8	..	0·5	0	0	5	0	0	1	0	0	1	3	0	26	0
Tezpur	0830	79	1012·6	1003·5	—0·7	21·6	19·7	18·2	21·4	82	+11	2·4	—0·1	5.3	0	0	26	0	16	9	1	0	0	0	0	5	0
	1730	,,	1008·1	999·1	..	25·4	21·6	19·9	22·7	73	..	2·8	..	5·9	0	0	28	0	20	3	0	0	3	2	0	3	0
Golaghat	0830	..	..	..	..	20·7	18·1	16·5	18·6	78	..	3·9	..	..	0	0	1	0	1	0	0	0	0	0	0	25	0
	1730	..	..	..	..	23·7	19·4	16·5	19·0	67	..	2·3	..	..	0	0	1	0	1	0	0	0	0	0	0	20	0
Rangia (R)	0830	..																									
(R)	1730	..																									
Chaparmukh	0830	66	1012·6	1005·1	..	22·0	18·8	16·8	19·1	74	+4	2·0	..	3·9	0	0	31	4	2	4	5	10	0	3	3	0	0
	1730	,,	1007·4	1000·0	..	27·9	20·9	16·9	19·0	54	.	3·3	..	4·5	0	0	31	5	6	1	5	4	3	4	3	0	0
Goalpara	0830	38	1011·3	1006·9	.	19·9	17·5	15·7	17·8	77	..	2·8	..	5·0	0	0	30	4	17	4	3	0	1	0	1	1	0
	1730	,,	1007·6	1003·3	..	29·3	21·9	17·0	20·2	49	..	1·9	..	4·9	0	0	29	1	7	2	2	0	7	3	7	2	0
Gauhati	0830	55	1012·0	1005·6	—0·5	21·6	18·5	16·5	18·8	74	+4	2·4	+0·1	0·8	0	0	8	0	4	3	0	0	0	0	1	23	0
	1730	,,	1007·6	1001·3	..	27·1	20·6	16·3	19.0	53	..	2·8	..	0·3	0	0	3	0	2	0	0	0	1	0	0	28	0
Gauhati (Bhorjor)	0230	54	1008·4	1002·0	..	18·4	17·0	16·0	18·2	87	..	2·9	..	7·7	0	0	25	1	12	4	0	1	5	1	1	6	0
	0530	,,	1009·5	1003·2	..	17·7	16·5	15·6	17.8	88	..	3·0	..	4·3	0	1	18	3	10	1	0	1	2	1	0	13	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Stations elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —(*Contd.*)																											
Gauhati (Bhonjor) —*contd.*	0830	54	1011·6	1005·4	..	21·8	18·7	16·5	19·0	74	..	2·7	..	7·3	0	0	25	2	17	3	0	0	3	0	0	6	0
	1130	,,	1010·3	1004·2	..	26·4	20·4	16·5	19·1	56	..	2·3	..	9·8	0	0	31	7	12	3	0	0	1	2	6	0	0
	1730	,,	1006·8	1000·7	..	26·8	20·3	16·0	18·5	54	..	3·7	..	2·9	0	0	15	2	7	1	0	0	1	2	2	16	0
	2330	,,	1009·5	1003·2	..	20·1	18·1	16·8	19·3	82	..	2·5	..	7·7	0	2	24	1	11	6	0	1	7	0	0	5	0
Dhubri (Rupsi)	0530	36	1008·4	1004·2	..	17·7	15·9	14·5	16·5	83	..	2·5	..	2·9	0	0	19	0	6	11	0	0	2	0	0	12	0
	0830	,,	1010·9	1006·7	..	22·8	18·3	15·2	17·4	65	..	3·3	..	6·3	0	0	26	1	5	13	3	0	3	1	0	5	0
	1130	,,	1009·7	1005·7	..	27·9	19·8	13·9	16·5	46	..	2·4	..	8·3	0	0	29	0	1	13	5	0	6	4	0	2	0
	1730	,,	1005·9	1001·8	..	27·3	20·0	14·6	17·4	50	..	1·8	..	1·6	0	0	6	0	1	1	0	0	0	3	1	25	0
Dhubri	0830	35	1012·2	1008·2	0	22·8	19·3	17·0	19·5	72	+6	1·8	0	4·6	0	0	21	0	15	3	0	0	3	0	0	10	0
	1730	,,	1007·1	1003·1	..	26·8	20·6	16·7	19·3	56	..	1·5	..	1·5	0	0	11	2	3	2	1	0	1	1	1	20	0
Lumding	0830	149	1011·1	994·4	..	22·7	18·8	16·3	18·5	68	−8	2·6	..	3·3	0	0	20	1	3	7	8	1	0	0	0	11	0
	1730	,,	1007·5	991·0	..	25·8	21·0	18·1	20·9	64	..	4·3	..	3·2	0	0	22	0	1	3	10	1	5	0	2	9	0
Umroi	0830	..	..	..	..	18·9	14·7	11·1	13·1	64	..	1·7	..	5·9	0	0	23	0	4	4	5	2	4	2	2	8	0
	1130	..	..	..	..	24·2	15·1	6·8	9·9	36	..	3·2	..	13·8	0	4	27	4	2	0	3	0	6	6	10	0	0
	1730	..	..	..	..	22·0	16·1	11·6	13·7	54	..	3·7	..	8·8	0	0	29	3	3	2	2	0	7	3	9	2	0
Tura	0830	370	1011·7	969·9	..	23·2	19·1	16·6	18·8	68	..	4·6	..	5·9	0	0	25	3	1	4	9	5	2	1	0	6	0
	1730	,,	1007·9	966·7	..	28·5	24·0	22·2	26·3	67	..	5·1	..	5·9	0	0	31	0	0	2	4	9	10	6	0	0	0
Haflong	0830	682	1012·0	935·8	..	19·7	16·6	14·6	16·6	74	..	4·2	..	..	0	2	29	0	0	0	3	6	22	0	0	0	0
	1730	,,	1007·3	931·9	..	22·0	17·7	15·1	17·1	66	..	3·9	..	..	0	0	31	0	0	0	0	1	30	0	0	0	0
Silchar (Kumbhigram)	0530	97	1009·6	998·3	..	18·7	17·8	17·1	19·7	90	..	5·0	..	9·1	0	0	30	3	2	23	0	1	0	0	1	1	0
	0830	,,	1011·8	1000·5	..	22·1	19·7	18·2	21·0	76	..	4·7	..	8·6	0	0	30	0	1	23	3	0	0	1	2	1	0
	1130	,,	1010·3	999·3	..	25·7	21·0	18·1	21·0	65	..	4·0	..	8·5	0	0	30	3	3	8	6	1	3	2	4	1	0
	1730	,,	1006·9	996·0	..	25·5	21·4	19·1	22·1	66	..	4·1	..	4·3	0	0	21	0	2	7	1	0	4	5	2	10	0
Silchar	0830	29	1013·0	1009·6	−0·3	23·1	20·3	18·3	21·6	76	+4	4·3	+1·6	2·2	0	0	22	2	5	6	6	0	2	1	0	9	0
	1730	,,	1008·4	1005·1	..	26·0	22·2	20·2	23·7	72	..	3·2	..	0·9	0	0	9	2	5	1	0	0	0	1	0	22	0
Imphal (Tulihal)	0530	801	1013·5	923·2	..	14·3	13·4	12·6	14·7	90	..	5·4	..	2·7	0	0	20	1	2	2	0	5	6	2	2	11	0
	0830	,,	1014·5	925·2	+0·1	18·6	15·5	13·4	15·4	73	+11	4·6	+1·9	4·5	0	0	24	1	1	3	5	7	2	3	2	7	0
	1130	,,	1011·7	923·9	..	22·9	17·3	13·5	15·7	58	..	4·0	..	10·3	0	2	27	1	1	2	4	3	15	1	2	2	0
	1730	,,	1009·3	921·3	..	21·5	16·0	12·0	14·2	58	..	5·1	..	8·1	0	0	30	1	1	0	1	3	13	9	2	1	0
	2330	,,	1012·4	922·8	..	16·7	14·8	13·4	15·5	82	..	4·8	..	6·3	0	2	19	0	0	1	3	3	7	4	3	10	0
Kailashar	0530	29	1010·9	1007·5	..	20·7	19·7	19·1	22·1	91	..	4·1	..	5·3	0	2	11	0	1	1	0	10	1	0	0	18	0
	0830	,,	1012·9	1009·6	..	24·8	21·6	19·8	23·1	75	..	4·4	..	9·6	0	3	24	1	1	0	2	16	4	1	2	4	0
	1130	,,	1011·7	1008·4	..	29·1	23·0	19·5	23·2	58	..	3·9	..	12·3	0	5	23	0	1	1	2	15	3	3	3	3	0
	1730	,,	1008·3	1005·0	..	27·4	22·4	20·1	23·5	65	..	3·8	..	8·5	0	5	16	4	0	0	1	13	3	0	0	10	0
Agartala	0230	16	1008·5	1006·7	..	22·8	21·5	20·9	24·6	89	..	3·1	..	10·6	0	3	23	0	0	1	6	17	2	0	0	5	0
	0530	,,	1009·4	1007·6	..	22·2	21·3	20·8	24·7	91	..	5·1	..	9·3	0	2	25	0	0	1	5	16	5	0	0	4	0
	0830	,,	1011·5	1009·7	−0·2	25·9	23·2	21·7	26·3	78	+7	4·5	+1·4	12·4	0	2	29	0	0	1	4	18	7	1	0	0	0
	1130	,,	1010·3	1008·5	..	31·2	23·9	19·9	23·7	56	..	4·0	..	14·3	0	5	26	0	0	0	2	14	11	4	0	0	0
	1730	,,	1007·1	1005·3	..	28·4	22·9	20·0	23·4	62	..	3·7	..	14·3	0	8	22	1	1	1	3	15	3	3	3	1	0
	2330	,,	1009·4	1007·6	..	23·8	22·0	21·0	25·0	84	..	3·7	..	14·0	0	5	22	0	0	1	4	19	3	0	0	4	0
Sub-Himalayan West Bengal																											
Bagdhogra	0230	131	1007·7	992·5	..	18·1	15·5	13·6	15·6	73	..	1·6	..	3·8	0	0	28	9	6	8	1	2	1	1	0	3	0
	0530	,,	1008·9	993·6	..	16·3	14·8	13·7	15·7	86	..	2·3	..	4·4	0	0	27	10	4	9	0	1	0	1	2	4	0
	0830	,,	1011·1	996·2	−0·6	23·4	18·4	15·1	17·1	61	+3	2·7	+0·2	9·6	0	1	29	0	4	23	2	1	0	0	0	1	0
	1130	,,	1009·9	995·1	..	27·7	20·6	16·7	19·0	50	..	2·3	..	12·6	0	1	30	1	1	13	12	2	1	1	0	0	0
	1730	,,	1006·0	991·3	..	27·0	20·0	15·6	17·7	51	..	3·4	..	7·0	0	3	21	1	4	5	2	1	6	5	0	7	0
	2330	,,	1008·8	993·8	..	20·4	16·1	13·0	15·0	65	..	1·5	..	6·5	0	1	28	16	5	4	1	0	0	2	1	2	0
Jalpaiguri	0830	83	1011·1	1001·6	−0·7	20·2	17·1	14·9	16·9	73	+3	1·3	−0·2	8·0	0	0	29	7	11	9	0	0	2	0	0	2	0
	1730	,,	1006·1	996·8	..	28·8	19·7	13·6	15·6	41	..	1·1	..	6·3	0	2	24	2	5	5	2	2	4	5	1	5	0
Cooch-Behar	0830	43	1011·5	1006·6	..	22·9	18·4	15·3	17·4	63	..	2·4	..	13·1	0	0	29	0	7	18	3	1	0	0	0	2	0
	1130	,,	1010·3	1005·5	..	27·7	20·1	15·4	17·5	47	..	2·2	..	10·3	0	0	30	0	2	12	7	4	0	1	0	1	4
	1730	,,	1006·5	1001·7	..	27·0	20·5	16·7	19·0	54	..	2·6	..	1·1	0	0	6	0	2	2	0	0	0	0	0	25	2
Balurghat	0830	..	..	..	..	25·5	19·3	15·3	17·4	55	..	0·9	..	7·4	0	0	29	2	3	6	3	3	9	3	0	2	0
	1730	..	..	..	..	31·2	20·1	12·5	14·5	33	..	1·4	..	3·2	0	0	21	1	3	0	0	0	8	5	4	10	0
Malda	0830	31	1010·8	1007·2	−0·6	26·4	18·4	12·7	14·7	44	−5	1·3	+0·2	9·1	0	0	31	1	4	3	0	3	12	6	2	0	0
	1730	,,	1006·3	1002·8	..	31·4	19·5	11·1	13·2	29	..	1·1	..	6·3	0	0	31	2	4	2	1	0	2	13	7	0	0
Gangetic West Bengal																											
Berhampore	0830	19	1010·6	1008·3	−1·4	25·5	21·1	18·7	21·6	65	+5	1·4	−0·8	3·7	0	0	23	0	0	3	0	11	4	5	0	8	0
	1730	,,	1006·2	1004·1	..	31·6	20·6	13·3	15·3	34	..	0·6	..	2·3	0	0	12	0	0	0	0	4	2	6	0	19	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean press in millibar: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean press in millibar: At station level	Mean press in millibar: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Suri	0830	77	1011·2	1002.5	..	25·6	18·1	12·7	14·7	47	..	2·2		6·3	0	0	31	0	0	1	4	6	7	7	6	0	0
	1730	,,	1006·9	998·4	..	33·1	18·7	6·8	9·9	20	..	2·2	..	8·9	0	1	29	0	0	0	2	4	12	10	2	1	0
Asansol	0230	126	1008·3	993·9	..	22·6	17·6	14·1	16·1	60	..	0·6	..	2·4	0	0	8	0	0	0	1	2	2	1	2	23	0
	0530	,,	1009·0	994.5	..	20·4	16·5	13·4	15.4	65	..	0·9	..	2·8	0	0	11	0	0	0	2	0	0	4	5	20	0
	0830	,,	1011·2	996·9	—0·2	25·9	19·1	14·7	16·7	49	+3	1·3	—0·5	6·1	0	0	23	3	0	1	0	0	0	10	9	8	0
	1130	,,	1010·2	996·2	..	32·6	21·1	13·9	15.9	33	..	0·9	..	11·3	0	2	28	3	1	1	2	1	2	11	9	1	0
	1730	,,	1006·4	992·5	..	32·8	21·2	13·7	15.7	32	..	1·3	..	5·7	0	0	22	0	1	0	0	0	1	10	10	9	0
	2330	,,	1009·1	994·8	..	24·6	18·3	14·1	16·1	52	..	0·6	..	3·1	0	0	10	1	0	1	2	1	1	2	2	21	0
Santi Niketan	0830	59	1011·0	1004.3	..	26·5	19·9	15·4	17.5	51	..	1·7	..	6·0	0	0	29	2	0	0	0	7	7	4	9	2	0
	1130	,,	1010·2	1003·6	..	31·6	19·8	11·4	13.5	30	..	1·2	..	6·8	0	0	28	1	1	0	0	2	10	3	11	3	0
	1730	,,	1006·5	999·9	..	30·9	20·0	12·5	14.5	33	..	1·3	..	4·8	0	0	27	0	0	1	1	0	9	9	7	4	0
Krishnanagar	0830	15	1011·1	1009·4	—0·6	27·0	23·1	21·3	25.3	72	+9	1·0	—1·4	2·8	0	0	22	0	0	0	1	18	2	1	0	9	0
	1730	,,	1007·0	1005·4	..	32·0	21·4	14·8	16.8	38	..	0·7	..	2·5	0	0	23	0	0	0	1	21	0	1	0	8	0
Purulia	0830	255	1011·3	982·8	—0·9	26·1	16·3	7·8	10·6	31	—14	0·6	—1·3	2·8	0	0	26	0	0	0	1	0	5	2	18	5	0
	1730	,,	1006·1	978·5	..	33·3	18·4	5·5	9·0	18	..	1·1	..	3·3	0	0	24	6	0	0	4	1	1	4	8	7	0
Burdwan	0830	32	1011·2	1007·4	—0·6	26·8	21·3	18·1	20·8	61	—2	1·5	—0·8	5·8	0	0	24	0	1	1	0	1	14	2	5	7	0
	1730	,,	1006·0	1002·4	..	32·0	21·6	15·2	17.3	38	..	0·9	..	1·6	0	1	3	0	0	0	0	1	2	0	1	27	0
Barrackpore Aerodrome	0530	7	1009·2	1008·4	..	23·8	22·8	22·3	26.9	92	..	3·5	..	7·5	0	1	21	1	0	1	0	9	11	0	0	9	0
	0830	,,	1011·4	1010·6	—0·6	27·0	23·7	22·0	26·4	76	+8	2·4	+0·1	11·7	0	2	27	0	0	0	0	6	15	5	3	2	0
	1130	,,	1010·6	1009·9	..	32·2	23·8	19·5	22.7	48	..	1·2	..	13·1	0	4	27	1	0	1	3	3	12	7	4	0	0
	1730	,,	1007·2	1006·5	..	30·5	23·4	19·5	22.7	54	..	1·6	..	9·8	0	2	26	1	0	1	3	13	8	2	0	3	0
	2330	,,	1009·7	1008·9	..	25·1	23·6	22·8	27.9	87	..	1·8	..	8·0	0	1	22	0	0	0	1	10	12	0	0	8	0
Calcutta (Dum Dum)	0230	6	1008·1	1007·4	..	24·2	22.9	22·4	27·1	89	..	2·9	..	6·4	0	0	25	0	0	0	2	15	7	1	0	6	0
	0530	,,	1008·8	1008·1	..	23·4	22·4	21·9	26·3	91	..	2·9	..	4·9	0	1	20	0	1	0	0	14	6	0	0	10	0
	0830	,,	1011·0	1010·3	—0·9	26·9	23·8	22·3	26·9	76	+7	2·7	+0·2	7·7	0	0	29	1	0	0	1	10	13	3	1	2	0
	1130	,,	1010·2	1009·5	..	31·8	23·8	19·7	22.9	49	..	1·6	..	9·8	0	3	28	2	1	0	0	13	8	6	1	0	0
	1730	,,	1006·9	1006·2	..	30·4	23·5	20·1	23·5	55	..	2·1	..	8·8	0	4	23	0	0	1	0	14	11	0	1	4	0
	2330	,,	1009·5	1008·7	..	24·7	22·9	22·1	26·6	85	..	2·6	..	8·8	0	1	29	0	0	0	2	15	13	0	0	1	0
Calcutta	0830	6	1010·9	1010·2	—0·9	27.3	23·7	22·2	26·7	73	—3	2·5	+0·3	10·8	0	2	28	0	0	0	1	12	14	1	2	1	0
	1130	,,	1010·0	1009·3	..	32·8	23·8	19·6	22·8	47	..	1·5	..	9·9	0	2	28	1	0	0	1	10	8	8	2	1	0
	1730	,,	1006·9	1006·2	..	30·7	23·5	20·3	23·8	54	..	2·1	..	10·1	0	1	28	1	1	0	3	16	8	0	0	2	0
Midnapore	0830	45	1010·8	1005·7	—0·9	26·3	22·2	20·1	23·5	70	+11	1·4	—0·4	2·6	0	0	18	3	2	0	0	4	7	2	0	13	0
	1730	,,	1006·4	1001·4	..	35·2	20·7	10·7	12·9	26	..	1·3	..	3·3	0	0	21	4	2	1	1	10	1	1	1	10	0
Contai	0830	11	1011·1	1009·9	—0·5	27·5	24·6	23·2	28·4	78	+10	1·6	—0·7	11·3	0	1	30	0	0	0	0	11	16	3	1	0	0
	1730	,,	1007·4	1006·2	..	27·6	25·0	23·8	29·5	80	..	1·1	..	12·2	0	1	28	0	0	0	3	23	3	0	0	2	0
Saugor Island	0830	3	1010·7	1010·4	—1·1	27·2	25·1	24·1	30·0	83	+10	3·4	+0·4	23·1	0	16	15	0	1	0	1	11	17	1	0	0	0
	1730	,,	1007·0	1006·7	..	27·5	25·1	24·0	29·8	80	..	3·2	..	26·5	0	21	10	1	0	0	6	16	8	0	0	0	0
Sandheads	0530	10	1009·2	1008·1	..	26·1	24·5	23·9	29·7	87	..	2·9	..	16·1	0	10	21	0	0	0	0	4	24	3	0	0	0
	0830	,,	1011·7	1010·6	—0·5	26·9	24·9	24·1	30·0	84	+10	4·0	+1·8	13·8	0	4	27	0	0	0	0	1	25	4	1	0	0
	1130	,,	1011·4	1010·3	..	27·6	25·3	24·4	30·5	82	..	3·3	..	13·4	0	5	26	0	0	0	0	1	26	4	0	0	0
	1730	,,	1008·2	1007·1	..	27·1	24·9	24·0	29·8	84	..	3·1	..	17·3	0	11	20	0	0	0	0	10	18	3	0	0	0
	2330	,,	1009·9	1008·8	..	26·3	24·7	23·8	29·5	86	..	1·2	..	21·2	0	15	16	0	0	0	0	4	25	2	0	0	0
Orissa																											
Baripada	0830	54	1012·0	1005·9	..	26·7	20·8	17·4	19·9	57	.	0·9	..	2·8	0	0	26	3	2	0	6	3	8	1	3	5	0
	1730	..	1007·1	1001·0	..	33·3	21·9	15·1	17·1	34	..	0·9	..	3·8	0	0	22	0	0	1	13	1	5	2	0	9	0
Jharsuguda	0230	230	1008·4	982·2	..	21·4	16·5	13·0	15·0	59	..	0·6	..	3·2	0	0	22	8	6	2	0	4	0	0	2	9	0
	0530	,,	1009·5	983·1	..	19·4	16.0	13·5	15·5	68	..	0·8	..	4·3	0	0	24	4	10	2	6	1	0	1	0	7	0
	0830	,,	1011·6	985·6	—0·5	25·1	17·8	12·4	14·4	46	—1	1·0	—0·9	4·9	0	0	25	9	11	0	2	2	1	0	0	6	0
	1130	,,	1010·3	985·0	..	32·7	20·0	10·8	12·9	27	..	1·1	..	8·1	0	0	30	4	7	1	3	8	5	1	1	1	0
	1730	,,	1006·1	980·9	..	33·7	20·1	10·4	12·6	24	..	2·0	..	5·0	0	0	24	1	1	1	1	10	3	6	1	7	0
	2330	,,	1009·2	983·2	..	24·2	17·6	12·8	14·8	50	..	0·8	..	3·3	0	0	23	3	8	3	2	5	1	0	1	8	0
Keonjhargarh	0830	463	1008·3	957·3	..	26·7	18·6	13·6	15·6	47	..	0·7	..	4·3	0	0	23	5	1	3	1	1	1	6	5	8	0
	1730	,,	1003·7	953·7	..	31·8	18·5	8·4	11·0	27	..	2·0	..	3·8	0	0	31	0	0	2	2	1	1	21	4	0	0
Balasore	0830	20	1011·1	1008·8	—0·9	27·2	23·9	22·1	26·6	72	+5	2·5	+0·6	10·3	0	3	23	2	0	0	0	7	13	3	1	5	0
	1730	,,	1007·0	1004·7	..	29·8	25·3	23·4	28·8	69	..	2·4	..	8·9	0	1	27	0	0	0	5	21	2	0	0	3	0
Sambalpur	0830	148	1011·6	994·9	—0·4	27·6	20·1	15·5	17·6	48	—3	0·6	—0·8	1·8	0	0	11	1	1	1	1	4	2	1	0	20	0
	1730	,,	1006·6	990·2	..	33·3	21·1	13·3	15·3	30	..	1·6	.	0·6	0	0	6	1	1	0	0	1	2	0	1	25	0
Angul	0830	139	1011·8	996·0	—0·3	24·5	21·7	20·3	23·8	77	+17	2·7	+0·4	3·7	0	0	28	4	7	3	3	0	1	3	7	3	0
	1730	,,	1006·8	991·6	..	34·4	21·3	12·9	14·9	27	..	2·0	..	5·4	0	0	31	0	7	5	2	5	1	1	10	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km.p.h.): 62 or more	Wind speed, (km.p.h.): 20 to 61	Wind speed, (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Cuttack	0830	27	1011·4	1008·5	−0·7	26·8	24·6	23·6	29·1	80	+7	2·5	0	2·4	0	0	8	0	0	0	0	1	7	0	0	23	0
	1730	„	1007·2	1004·2	..	32·6	24·9	21·4	25·5	52	..	2·1	..	7·8	0	0	23	0	0	0	0	9	14	0	0	8	0
Chandbali	0830	6	1011·1	1010·4	−0·8	27·1	24·7	23·6	29·1	82	+6	3·5	+0·9	7·1	0	0	27	0	1	0	2	2	18	3	2	4	0
	1730	„	1007·8	1007·1	..	30·6	25·0	22·4	27·1	62	..	2·1	..	12·7	0	4	25	0	1	0	22	3	3	1	0	2	0
Bolangir	0830	190	1010·9	989·5	..	27·9	22·0	18·7	21·6	56	..	0·9	..	7·9	0	1	27	6	2	0	1	8	6	0	5	2	0
	1730	„	1006·3	985·5	..	34·9	23·3	16·9	19·3	35	..	2·9	..	5·5	0	0	29	10	6	1	1	3	2	0	6	2	0
Phulbani	0830	464	1009·6	957·7	..	22·8	19·0	16·9	19·3	69	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1004·5	954·4	..	32·9	22·0	16·2	18·4	37	..	0·3	..	0·5	0	0	2	0	0	0	0	0	0	1	0	29	1
Titilagarh	0830	211	1010·5	986·9	..	27·3	21·9	18·6	21·4	61	..	0·5	..	2·9	0	0	30	0	21	0	7	0	2	0	0	1	9
	1730	„	1005·6	982·6	..	35·1	22·5	14·8	16·8	31	..	0·9	..	2·7	0	0	28	0	25	0	1	0	2	0	0	3	0
Bhubaneswar	0230	46	1008·7	1003·5	..	25·3	23·9	23·4	28·8	91	..	2·4	..	20·6	0	12	19	0	0	0	0	4	27	0	0	0	0
	0530	„	1009·2	1004·0	..	24·4	23·6	23·2	28·4	93	..	3·1	..	16·1	0	9	19	0	0	0	0	2	24	1	1	3	0
	0830	„	1011·6	1006·4	−0·4	27·5	24·6	23·2	28·4	78	+8	3·5	+1·2	20·4	0	11	19	0	0	0	0	5	22	2	1	1	0
	1130	„	1011·2	1006·1	..	31·7	24·5	21·1	25·0	54	..	2·3	..	19·4	0	10	20	1	1	1	0	3	21	3	0	1	0
	1730	„	1008·1	1002·9	..	29·5	24·4	22·0	26·4	65	..	3·1	..	24·7	0	17	14	0	0	0	0	12	17	2	0	0	0
	2330	„	1010·3	1005·1	..	25·9	24·2	23·4	28·8	86	..	2·4	..	22·2	0	16	15	0	0	0	0	8	22	1	0	0	0
Puri	0830	6	1012·1	1011·4	0	27·8	25·5	24·3	30·4	82	+5	4·4	+2·1	24·2	0	19	12	0	0	0	0	0	31	0	0	0	0
	1730	„	1008·7	1008·0	..	27·6	25·3	24·3	30·4	83	..	5·0	..	23·7	0	18	13	0	0	0	0	0	30	0	1	0	0
Gopalpur	0530	17	1009·5	1007·5	..	24·7	23·6	23·0	28·1	91	..	1·8	..	12·7	0	9	15	0	0	0	0	8	15	1	0	7	0
	0830	„	1011·8	1009·8	−0·2	26·8	24·5	23·6	29·1	82	+8	1·8	+0·8	17·5	0	14	16	1	0	0	0	11	16	0	2	1	0
	1130	„	1011·3	1009·4	..	29·2	25·6	24·0	29·8	73	..	1·0	..	24·1	0	20	11	0	0	1	1	16	13	0	0	0	0
	1730	„	1008·2	1006·3	..	27·1	25·1	24·3	30·4	84	..	3·5	..	29·3	0	26	5	0	0	0	0	13	17	1	0	0	0
	2330	„	1010·3	1008·4	..	25·9	24·6	24·0	29·8	89	..	1·0	..	23·2	0	20	11	0	0	0	0	12	18	1	0	0	0
Koraput	0830	913	1533·6	912·3	−0·1	26·5	18·7	15·8	18·1	47	−14	0·8	−0·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	1522·9	910·3	..	30·0	17·8	9·0	11·5	30	..	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1010·8	993·9	−0·8	25·6	17·8	12·0	14·0	44	0	0·2	−1·0	0·9	0	0	7	0	1	0	0	0	1	4	1	24	0
	1730	„	1005·8	989·4	..	32·7	19·0	8·1	10·8	22	..	0·6	..	2·7	0	0	15	1	0	0	0	0	4	9	1	16	0
Daltonganj	0830	221	1010·3	985·2	−1·9	22·9	17·3	13·4	15·4	56	+2	1·2	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	1005·3	980·9	..	30·6	20·4	14·3	16·3	37	..	1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1010·9	943·4	+0·1	24·9	14·7	5·6	8·7	29	−7	1·1	−0·6	6·1	0	0	21	1	0	0	0	0	3	8	9	10	0
	1730	„	1006·2	940·0	..	29·3	16·0	4·5	8·4	20	..	1·5	..	8·3	0	0	31	2	0	0	0	0	2	6	21	0	0
Dhanbad	0830	257	1010·8	981·9	..	26·7	17·7	11·1	13·2	38	..	1·0	..	2·4	0	0	22	4	0	0	2	4	3	9	0	9	0
	1730	„	1006·2	977·9	..	31·0	19·5	10·7	12·9	27	..	1·3	..	2·2	0	0	17	0	0	1	0	2	1	9	4	14	0
Ranchi	0830	655	1010·1	938·0	−0·8	24·8	17·5	12·7	14·7	47	+8	0·5	−1·1	0·6	0	0	3	0	0	0	0	2	1	0	0	28	0
	1730	„	1006·5	935·4	..	28·1	18·2	11·6	13·6	36	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Ranchi Aerodrome	0530	625	1009·9	936·9	..	19·0	11·6	4·3	8·3	39	..	1·7	..	4·1	0	0	23	2	0	0	0	1	3	2	15	8	0
	0830	„	1010·9	939·0	..	25·0	13·7	3·2	7·7	24	..	1·4	..	8·2	0	0	29	10	4	0	0	2	3	4	6	2	0
	1130	„	1009·2	938·6	..	29·7	15·0	0·7	6·4	16	..	1·7	..	9·7	0	0	30	3	3	0	1	4	2	5	11	1	1
	1730	„	1005·9	935·6	..	29·4	15·6	3·2	7·7	20	..	(h) 2·3	..	(h) 9·5	0	0	23	3	1	0	0	0	2	4	13	0	0
Jamshedpur	0830	129	1011·3	996·7	−0·4	24·8	17·6	12·3	14·3	45	−7	0·6	−1·2	5·4	0	0	29	1	0	0	0	0	2	18	8	2	0
	1730	„	1005·9	991·8	..	34·1	20·0	9·4	11·8	22	..	1·0	..	4·7	0	0	22	4	0	0	1	0	2	9	6	9	0
Jamshedpur (P.B.O.)	0530	142	1009·3	992·9	..	19·8	15·5	12·3	14·3	62	..	0·5	..	3·0	0	0	20	1	0	0	0	1	2	7	9	11	0
	0830	„	1011·5	995·3	..	24·9	16·5	9·8	12·1	39	..	1·2	..	3·9	0	0	23	0	0	0	0	0	7	9	7	8	0
	1130	„	1010·2	994·5	..	32·3	18·8	7·9	10·7	22	..	1·2	..	7·1	0	0	29	0	0	1	0	2	11	6	9	2	0
	1730	„	1005·4	990·5	..	34·1	18·6	5·1	8·8	16	..	1·8	..	4·8	0	0	19	1	3	0	0	2	2	6	5	12	0
	2330	„	1009·1	993·0	..	24·2	17·4	12·4	14·4	49	..	0·2	..	2·1	0	0	13	2	0	1	0	3	0	3	4	18	0
Chaibasa	0830	226	1011·0	985·6	−0·5	27·6	19·3	13·7	15·7	43	−15	(m) 0·2	−1·5	(m) 2·0	0	0	11	0	1	0	0	0	10	0	0	7	0
	1730	„	1006·0	981·2	..	32·6	18·4	6·4	9·6	20	..	(m) 0·5	..	(m) 2·5	0	0	13	0	0	0	0	0	12	0	1	5	0
Bihar Plains—																											
Motihari	0830	66	1009·6	1001·9	−1·4	23·1	17·6	13·7	15·7	56	+2	0·1	−0·9	1·4	0	0	9	0	0	1	2	0	0	5	1	22	0
	1730	„	1005·9	998·4	..	28·6	21·0	16·4	18·6	47	..	0	..	1·4	0	0	5	0	0	0	0	0	0	5	0	26	0
Forbesganj	0830	61	1010·6	1003·6	..	22·4	17·2	13·4	15·4	58	..	1·5	..	7·9	0	0	30	0	1	17	2	2	1	7	0	1	0
	1730	„	1005·8	999·0	..	30·0	19·3	11·7	13·7	33	..	2·2	..	5·2	0	0	23	0	0	3	0	0	0	17	3	8	0
Darbhanga	0830	49	1010·7	1005·1	−0·6	25·2	18·5	13·9	15·9	50	−4	0·6	−0·7	5·8	0	0	31	0	0	8	1	0	4	6	12	0	0
	1730	„	1007·1	1001·5	..	30·1	20·0	13·2	15·2	36	..	0·9	..	4·8	0	0	31	0	2	4	1	0	6	9	9	0	0
Chapra	0830	..	..	..	..	23·7	15·7	9·0	11·5	42	..	0·7	..	1·6	0	0	9	0	0	0	1	0	6	2	0	22	0
	1730	..	..	..	..	30·9	18·5	8·9	11·4	25	..	0·8	..	0·7	0	0	3	0	0	0	0	0	2	1	0	20	0
Purnea	0830	38	1010·9	1006·6	..	24·2	17·7	13·0	15·0	51	−9	1·1	−0·3	6·9	0	0	30	1	1	13	2	1	4	7	1	1	0
	1730	„	1006·3	1002·1	..	29·5	19·5	12·5	14·5	37	..	1·2	..	2·8	0	0	14	0	0	1	0	0	4	8	1	17	0

(h) Mean of 23 days.

(m) Mean of 18 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed km. p. h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*) Patna	0830	53	1010·6	1004·6	−0·9	25·3	17·0	10·4	12·6	42	−4	1·0	−0·4	7·5	0	1	24	0	0	2	2	1	9	11	0	6	0
	1730	"	1006·5	1000·6	..	31·1	19·3	10·8	12·9	28	..	1·6	..	5·1	0	0	21	0	0	2	0	0	2	14	3	10	0
Patna (Aerodrome)	0530	60	1007·8	1000·8	..	17·6	13·6	10·1	12·3	62	..	0·8	..	3·8	0	1	12	0	0	0	1	2	5	4	1	18	0
	0830	"	1010.1	1003·3	..	23·9	16·3	10·3	12 5	42	..	0·7	..	7·6	0	0	27	0	2	1	2	1	6	11	4	4	0
	1130	"	1009·6	1002·9	..	30·9	18·3	8·3	10·9	25	..	1·0	..	9·9	0	3	23	0	1	2	0	0	1	11	10	5	1
	1730	"	1005·8	999.2	..	31.6	18·4	7·6	10·4	23	..	1·0	..	8·3	0	1	21	1	0	1	0	0	0	10	10	9	0
	2330	52	1008·8	1002·9	..	22·8	15·3	8·9	11·3	45	..	0·7	..	2·1	0	0	10	0	0	3	0	0	0	3	3	21	1
Bhagalpur	0530	49	1008·7	1003·1	−3·0	19·7	15·5	11·9	13·9	58	+5	1·1	−0·6	5·4	0	1	19	0	0	4	2	2	7	5	0	11	0
	0830	"	1010·9	1005·3	..	25·1	17·5	12·1	14·1	45	..	1·3	..	5·9	0	2	22	0	0	7	0	2	9	4	0	9	0
	1130	"	1010·4	1004·9	..	31·1	19·5	11·3	13·4	31	..	1·3	..	8·7	0	2	23	0	0	5	0	1	3	14	2	6	0
	1730	"	1006·6	1001·1	..	30·0	19·3	11·4	13·5	32	..	1·2	..	8·3	0	3	20	0	0	1	0	0	0	19	3	8	0
	2330	"	1009·1	1003·5	..	23·9	16·9	11·7	13·7	46	..	0·6	..	4·8	0	0	20	0	0	4	2	3	8	3	0	11	0
Sabour	0830	37	1010·6	1006·3	−0·5	24·9	18·5	14·1	16·1	52	+2	1.5	−0·3	5·7	0	8	21	1	0	3	0	0	4	11	2	10	0
	1730	"	1006·2	1002·0	..	30·2	21·4	16·1	18·3	42	..	1·5	..	4·2	0	0	16	0	0	0	0	0	0	8	9	14	0
Jamui	0830	82	1010·1	1000 6	..	22·7	16_8	12·4	14·4	51	..	0·5	..	2·2	0	0	19	1	0	3	0	1	0	13	1	12	0
	1730	"	1005·8	996·5	..	32·2	20·6	12·8	14.8	30	..	0·9	..	5·3	0	0	27	1	0	1	0	0	0	25	0	4	0
Dehri	0830	107	1010·9	998.7	..	25·5	16·4	8·7	11·2	35	..	1·5	..	3·3	0	0	29	0	0	0	6	2	15	5	1	2	0
	1730	"	1006·7	994·8	..	32·7	17·8	4·2	8·2	17	..	2·3	..	4·1	0	0	30	1	1	0	0	0	2	17	9	1	0
Gaya	0230	116	1008·7	995.3	..	19·6	13·4	7·5	10·4	46	..	0·5	..	4·5	0	0	22	0	0	1	1	9	6	4	1	9	0
	0530	"	1009·2	995·7	..	17·6	12·6	7·8	10 6	53	..	0·9	..	5·8	0	0	27	0	1	1	2	8	13	2	0	4	0
	0830	"	1011·3	998 0	−0·3	25·8	16 5	8·9	11·4	34	+1	0·9	−0·5	9·4	0	1	28	0	0	0	1	2	19	5	2	2	0
	1130	"	1010·7	997·7	..	32·5	18 3	6·4	9 6	20	..	1·1	..	16·9	0	11	20	1	0	0	0	0	5	13	12	0	0
	1730	"	1006·6	993·8	..	32·9	18·2	5·3	8·9	18	..	1·5	..	14·1	0	5	26	1	1	1	0	0	0	12	16	0	0
	2330	"	1009·6	996·2	..	22·3	14 5	7 4	10·3	39	..	0·7	..	4·9	0	0	24	0	1	2	1	7	3	8	2	7	0
Uttar Pradesh (East) Kheri	0830	147	1010·3	993·1	−1·0	19·0	14·9	11·6	13·7	63	0	1.9	+0·6	1·8	0	0	17	1	0	4	1	0	0	11	0	14	0
	1730	"	1006.6	990·1	..	28·6	19·5	12·9	15·3	39	..	3·1	..	1·0	0	0	19	0	0	1	1	0	1	15	1	12	0
Bahraich	0830	124	1010·5	996·3	−0·3	21·6	15 7	10 9	13·0	52	−4	1·5	+0·7	4·8	0	0	27	1	0	8	1	0	1	14	2	4	0
	1730	"	1007·6	993·7	..	27·9	18·1	9·9	12 2	32	..	3·1	..	3·6	0	0	30	1	1	1	0	0	0	27	0	1	0
Nautanwa	0830	99	1008·6	997·0	..	16·9	14·3	12·1	14·1	73	..	0	..	3·0	0	0	20	0	1	9	1	4	0	3	2	11	0
	1730	"	1005·7	994·7	..	30·6	19·1	10·0	12·3	31	..	0	..	7·3	0	0	30	1	0	3	2	0	9	13	2	1	0
Hardoi	0830	142	1010·7	994·3	−1·0	20·1	15·5	11·8	13·8	59	−1	1·6	−0·1	4·8	0	0	26	1	0	1	0	0	2	14	8	5	0
	1730	"	1007·0	991·1	..	30·0	19·6	12·2	14·2	34	..	2·4	..	6·0	0	0	29	3	0	0	1	0	1	19	5	2	0
Gonda	0830	110	1010·4	997·8	..	22·3	16·6	12·6	14·6	54	+6	1·5	+0·1	(d) 2·1	0	0	10	2	0	0	0	0	0	5	7	17	0
	1730	"	1006·6	994·4	..	29·7	19·3	12·6	14·6	35	..	1·8	..	(e) 1·8	0	0	13	1	0	0	0	0	0	5	12	13	0
Lucknow	0830	..	..	..	..	20·5	14·9	10 1	12 8	51	+3	1·5	+0·1	2.5	0	0	26	0	1	0	3	0	6	10	6	5	0
	1730	..	..	..	..	30·4	18·4	8·9	11.4	26	..	2·1	..	2·7	0	0	28	0	0	0	1	0	1	20	6	3	0
Lucknow (Amausi)	0230	128	1008·4	993·4	..	17·4	13·3	9·6	11·9	61	..	1·1	..	5·8	0	0	25	1	0	1	1	0	3	11	8	6	0
	0530	"	1008·6	993·7	..	15·6	12·4	9·5	11·9	68	..	1·5	..	5·3	0	0	23	1	0	1	0	0	5	12	4	8	0
	0830	"	1010 6	995·9	−0·9	21·3	15·2	9·9	12·2	49	+1·0	..	..	..	0	1	27	2	0	1	0	1	5	12	7	3	0
	1130	"	1010·4	996·1	..	29·7	17·9	7·9	10·7	26	..	1·7	..	(a) 15·2	0	9	19	1	0	1	2	1	2	12	10	2	0
	1730	"	1006·9	992·7	..	30·3	17·9	7·4	10·3	25	..	..	.	..	0	4	26	1	0	0	1	0	1	15	12	1	0
	2330	"	1009·4	994·6	..	19·8	14·5	9·9	12·2	53	..	1·3	..	6·7	0	1	23	0	3	0	0	0	6	9	6	7	0
Faizabad	0830	102	1011·2	999·5	..	21·5	15·6	10 6	12·8	50	..	2·0	..	4·2	0	0	24	1	1	1	2	0	0	12	7	7	0
	1730	"	1006·7	995 3	..	29.6	18·8	10·3	12·5	31	..	3 0	..	4·0	0	0	26	1	0	0	0	0	1	17	7	5	0
Gorakhpur	0830	77	1010·4	1001·5	−0·7	26·2	17.2	9·3	11·7	37	−15	0·3	−0·8	..	0	0	31	1	1	8	0	4	1	14	2	0	0
	1730	"	1006·0	997·1	..	31·5	18·2	6·8	9·9	23	..	0·5	..	..	0	0	31	0	0	0	1	3	6	11	4	0	6
Gorakhpur (P.B.O.)	0230	78	1007 5	998·5	..	21·7	15·7	11·7	13·7	55	..	0·5	..	5·4	0	1	20	1	3	1	0	1	4	8	3	10	0
	0530	"	1007·8	998·7	..	20·7	15·3	12·1	14·1	61	..	1·8	..	5·8	0	1	22	4	4	0	0	0	2	8	5	8	0
	1130	"	1010·0	1001·2	..	29·2	18·6	12·0	14·0	36	..	1·6	..	8·5	0	2	28	0	3	1	1	6	6	8	5	1	0
	2330	"	1008·6	999·6	..	23·8	16·4	11·4	13·5	47	..	1·0	..	4·9	0	0	23	1	3	0	0	1	6	9	3	8	0
Kanpur	0830	126	1011·6	997·0	−0·1	21·0	15·7	11·6	13·8	55	+10	2·4	+1·6	5·7	0	0	31	0	0	2	0	2	7	15	5	0	0
	1730	"	1008·0	994·1	..	31·6	20·2	12·2	14·2	31	..	1·9	..	7·6	0	0	31	2	0	1	0	0	2	19	7	0	0
Kanpur (Aerodrome)	0530	126	1009·2	994·3	..	16·8	13·0	9 3	11·7	63	..	1·9	..	4·1	0	0	18	0	0	1	0	1	1	10	5	13	0
	0830	"	1011·2	996·6	..	21·9	15·5	10·0	12·3	47	..	2·1	..	7·7	0	1	26	0	0	0	1	3	4	14	5	4	0
	1130	"	1010·8	996·7	..	30·1	18·1	8·0	10·7	26	..	1·8	..	13·9	0	5	25	0	0	1	3	1	1	16	8	1	0
	1730	"	1007·3	993·2	..	31·2	18·5	8·0	10·8	25	..	2·8	..	10·8	0	2	28	2	1	1	0	0	1	14	11	1	0
	2330	"	1009·7	995·2	..	21·9	15·4	9·8	12·1	48	..	1·3	..	6·0	0	1	22	2	2	1	0	0	1	11	6	8	0
Sultanpur	0830	97	1010·9	999·8	..	23·5	15·6	8·7	11·2	40	..	1·6	..	3·4	0	0	25	3	1	1	1	0	4	6	9	6	0
	1730	"	1006·6	995·9	..	32·0	18·1	6·2	9·5	20	..	2·3	..	4.6	0	0	30	0	1	0	0	0	0	14	15	1	0

(a) Mean of 30 days. (d) Mean of 27 days. (e) Mean of 26 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Azamgarh	0830	78	1010·1	1001·2	..	22·7	19·0	16·2	18·4	67	..	0·9	..	..	0	0	30	0	0	3	0	0	0	27	0	1	0
	1730	,,	1006·5	997·8	..	31·4	24·7	21·2	25·2	57	..	1·3	..	..	0	0	26	0	1	1	0	0	0	23	1	5	0
Fatehpur	0830	114	1011·3	998·1	..	21·4	15·3	10·4	12·6	50	−2	1·3	0	4·5	0	0	28	1	1	0	1	4	8	9	4	3	0
	1730	,,	1007·4	994·4	..	31·9	18·9	8·4	11·0	24	..	1·5	..	10·6	0	2	29	4	1	0	0	0	0	7	19	0	0
Ballia	0830	64	1011·0	1003·5	..	23 8	16·6	10·8	12·9	45	..	0	..	2·8	0	0	27	0	3	1	0	0	5	15	3	4	0
	1730	,,	1066·6	999·5	..	32·6	20·0	11·2	13·3	29	..	0·3	..	3·4	0	0	26	0	0	0	2	0	2	14	8	5	0
Banda	0830	121	1012·0	998·2	..	25·8	17·5	11·1	13·2	40	..	2·3	..	2 5	0	0	22	0	0	0	2	0	10	5	5	9	0
	1730	,,	1007·2	993·7	..	32·9	20·8	12·6	14·6	30	..	2·0	..	4·0	0	0	6	0	1	0	0	0	5	0	0	25	0
Allahabad (Bamhrauli)	0230	98	1008·7	997·4	..	19·5	13·3	7·2	10.1	45	..	0·5	..	1·5	0	0	13	2	0	0	0	2	0	5	4	18	0
	0530	,,	1009·1	997·7	..	17·7	12.5	7·3	10·2	51	..	1·0	..	1·6	0	0	14	0	0	0	0	1	6	6	1	17	0
	0830	,,	1011·3	1000·1	−0·4	23·6	14·9	6·6	9·7	34	−10	2·1	+0·5	3·9	0	0	23	0	0	1	0	1	8	12	1	8	0
	1130	,,	1010·9	999·9	..	32·0	17 4	4·3	8·3	18	..	2·2	..	7·4	0	0	28	1	0	0	1	1	1	13	11	3	0
	1730	,,	1007·0	996·1	..	32·3	17·7	4·0	8·1	17	..	2·2	..	7·2	0	0	30	3	1	0	0	0	0	10	16	1	0
	2330	,,	1009·5	998·3	..	22·4	14·6	7·6	10·4	39	..	0·9	..	2·4	0	0	16	1	0	0	0	1	2	4	8	15	0
Varanasi (Babatpur)	0530	85	1010·1	1000·0	..	17·2	12·7	8·4	11·0	57	..	0·9	..	6·2	0	0	29	0	1	0	0	3	19	6	0	2	0
	0830	,,	1012·1	1002·2	0	23·6	15·8	8·9	11·4	40	−5	1·7 (a)	+0·1	10·6	0	0	29	0	0	0	1	2	19	6	1	2	0
	1130	,,	1011·6	1002·0	..	31·2	18·7	8·8	11·3	25	..	1·5	.	14·5	0	5	26	0	1	0	2	0	8	9	11	0	0
	1730	,,	1007·8	998·2	..	32·3	18·3	6·0	9·3	20	..	2·2	..	14·8	0	6	25	1	0	1	0	0	0	16	13	0	0
	2330	,,	1010·3	1000·3	..	22·2	14·7	7·7	10·5	40	..	1·0	..	7·9	0	1	28	0	1	3	0	2	7	10	6	2	0
Varanasi	0830	76	1010·7	1002·0	−0·9	24·5	16·8	10·6	12·8	43	−5	1·6	+0·2	4·1	0	0	27	0	0	0	1	3	6	17	0	4	0
	1730	,,	1006·9	998·5	..	32·7	20·3	11·3	13·4	28	..	1·5	..	3·2	0	0	27	0	0	0	0	0	3	20	4	4	0
Uttar Pradesh (West) Dehra Dun	0530	682	1010·4	932·7	..	13·9	10·7	7·7	10·5	66	..	1·9	..	2·3	0	0	19	7	3	0	0	0	1	5	3	12	0
	0830	,,	1010·3	934·2	−0.4	18·9	13·4	8·7	11·2	52	−6	2·8	0	1·3	0	0	13	2	5	0	0	0	1	2	3	18	0
	1130	,,	1010·2	935·0	..	24·2	15·2	7·7	10·5	36	..	2·7	..	3·8	0	0	27	1	0	1	3	2	15	5	0	4	0
	1730	,,	1007·0	932·2	..	24·7	15·7	8·4	11·0	36	..	3·5	..	2·2	0	0	19	1	1	0	0	0	4	11	2	12	0
	2330	,,	1011·0	934·0	..	17·3	12·7	8·6	11·2	58	..	1·5	..	3·7	0	0	25	7	4	1	1	0	1	9	2	6	0
Roorkee	0830	274	1011·6	980·1	..	19·5	14·7	10·3	12·5	57	−4	2·9	+1·0	1·1	0	0	12	0	0	0	2	0	0	0	10	19	0
	1730	,,	1007·8	977·2	..	27·8	17·3	8·0	10·7	30	..	3·7	..	2·0	0	0	21	0	0	0	1	0	0	0	20	10	0
Najibabad	0830	270	1011·2	980·0	..	17·2	13 6	10·1	12·3	65	..	0 9	..	2·4	0	0	17	0	4	1	1	0	2	3	6	14	0
	1730	,,	1008·1	978·1	..	28·4	17·2	7·3	10·2	27	..	1·1	..	5·4	0	0	25	1	0	0	2	0	9	8	5	6	0
Meerut	0830	222	1012·3	966·1	+0·6	20·1	15·1	11·5	13·6	57	0	0·6	−1·2	6·2	0	0	28	1	2	0	2	0	2	5	16	3	0
Bareilly	0830	173	1010·6	990·7	−0·6	20·6	15·3	10·8	12·9	54	−6	2·4	+0·6	4·7	0	0	26	4	1	1	2	1	1	10	6	5	0
	1730	,,	1006·9	987·5	..	28·7	18·0	9·2	11·6	31	..	3·5	..	2·9	0	0	24	0	1	1	0	0	2	18	2	7	0
Bareilly (P.B.O.)	0230	172	1008·2	988·4	..	19·5	13·8	9·7	12·0	54	..	1·4	..	4·9	0	0	23	1	0	2	0	0	0	13	7	8	0
	0530	,,	1008·4	988·5	..	18·0	13·4	9·8	12·1	59	..	2·2	..	4·6	0	0	28	2	2	1	1	0	0	12	10	3	0
	1130	,,	1010 5	991·0	..	26·9	16·9	9·9	12·2	37	..	2·5	..	8·7	0	0	30	0	2	0	4	0	0	17	7	1	0
	2330	,,	1009·3	989·6	..	21·6	14·8	9·8	12·1	47	.	1·1	..	5·4	0	0	24	0	1	2	0	0	0	13	8	7	0
Aligarh	0830	187	1011·5	989·8	..	19·0	14·4	10·5	12·7	58	−11	2·7	+1.3	2·8	0	0	26	3	0	1	0	1	1	15	5	5	0
	1730	,,	1007·8	986·8	..	29 8	19·4	12·0	14·0	34	..	4·0	..	4·8	0	0	27	10	1	1	0	0	0	10	5	4	0
Mainpuri	0830	157	1010·9	992·5	−1·1	19·9	14·9	10·5	12·7	56	+8	1·3	−0·3	2·4	0	0	25	0	0	1	0	0	1	22	1	6	0
	1730	,,	1007·8	990·3	..	30·5	19·3	10·5	12 7	36	..	1·5	..	2·8	0	0	28	1	1	1	0	1	13	10	1	3	0
Agra	0830	169	1011·8	99..·3	−0.4	20·9	15·0	9·9	12·2	48	+5	0·8	−0·9	2·1	0	0	14	0	0	0	1	1	3	1	8	17	0
	1730	,,	1007·9	989·1	..	30·7	18·6	9·0	11·5	26	..	0 7	..	2·6	0	0	18	0	3	0	0	0	2	2	11	13	0
Agra (Aerodrome)	0530	,,	1010·1	990·0	..	14·9	12·2	9·6	11·9	71	..	2·0	..	1·5	0	0	7	1	0	0	0	0	0	2	4	24	0
	0830	,,	1012·0	992·1	..	19·4	14·3	9·5	11·9	54	..	2 6	.	6·2	0	0	23	2	0	0	1	0	5	7	8	8	0
	1130	,,	1011·8	992·8	..	28·5	17·5	8·5	11·1	29	..	2·9	..	10·7	0	3	25	2	0	1	2	0	4	7	12	3	0
	1730	,,	1008·0	988·9	..	30·2	18·1	7·9	10·7	26	..	3·7	..	9·1	0	0	27	5	0	2	0	0	2	4	14	4	0
	2330	,,	1010·5	990·6	..	19·7	14·8	10·5	12·7	57	..	2·3	..	1·7	0	0	7	3	1	1	0	0	0	1	1	24	0
Orai	0830	221	1013·3	997·3	.	26·3	18·6	13·0	15 0	46	..	0·2	..	3·6	0	0	31	0	4	0	0	0	7	0	20	0	0
	1730	,,	1008·0	992·4	..	31·7	21·4	14·4	16·4	35	..	0·5	..	3·6	0	0	31	2	2	0	0	0	1	1	25	0	0
Jhansi	0830	251	1011·7	983·3	−0.6	23·7	14·7	5·9	9·3	32	−5	2·0	+0·9	1·1	0	0	11	0	0	0	0	4	0	4	3	20	0
	1730	,,	1007·3	979·8	..	32·6	17·2	1·9	7·0	15	..	2·6	..	2·7	0	0	24	10	1	2	0	0	0	3	8	7	0
Punjab (India) (Including Delhi) Pathankot	0830	312	1011·8	975·8	0	18·1	12·7	7·2	10·1	51	−5	3·9	+0·2	4·3	0	1	21	3	6	3	1	1	0	2	5	9	1
	1130	,,	1011·8	976·6	..	24·3	15·2	6·5	9·8	33	..	4·1	..	5·3	0	2	26	2	2	1	3	3	7	9	1	3	0
	1730	,,	1009·0	974·0	..	25·9	15·3	5·0	8·7	27	..	4·9	..	8.0	0	1	30	1	2	1	0	0	5	9	3	0	0
Amritsar Rajasansi	0530	234	1010·9	983·1	..	12·4	10·7	8·9	11·4	80	..	2·0	..	6·3	0	0	21	5	3	2	0	0	0	6	5	10	0
	0830	,,	1012·3	984·9	−0·1	15·8	12·8	10·0	12·3	69	4	3·3	+0·1	4.7	0	1	18	5	3	1	0	0	2	3	5	12	0
	1130	,,	1012·3	985·7	..	24·5	16·4	9·6	11·9	40	..	3·0	..	9·4	0	1	26	5	1	3	0	1	1	4	12	4	0
	1730	,,	1009·3	983·0	..	26·1	16·2	7·2	10·1	32	..	3·7	..	10·5	0	1	29	5	2	1	0	1	0	4	16	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(Contd.)																											
Adampur (Aerodrome). (R)	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									
Ludhiana	0830	247	1012·1	983·4	+0·1	17·2	13·4	9·9	12·2	64	+3	3·1	+0·9	4·2	0	0	29	4	2	2	1	0	2	11	7	2	0
	1730	"	1008·6	981·0	..	27·1	17·1	9·3	11·7	34	..	4·5	..	3·8	0	0	30	4	0	1	1	1	1	5	17	1	0
Ferozepur	0830	200	1011·1	987·6	..	15·2	12·3	9·6	11·9	69	..	1·5	..	1·5	0	0	16	0	9	0	0	0	2	0	5	15	0
	1730	"	1008·9	986·2	..	27·1	17·4	9·4	11·8	34	..	1·5	..	2·4	0	0	24	1	7	0	1	0	0	0	15	7	0
Halwara (Aerodrome).	0830	242	1012·4	984·2	..	16·8	13·7	11·1	13·2	69	..	3·3	..	7·2	0	1	28	5	4	0	1	0	2	1	16	2	0
	1730	"	1010·0	982·8	..	25·9	17·6	11·0	13·1	40	..	4·3	..	12·2	0	3	28	5	1	0	0	2	0	5	18	0	0
Chandigarh	0830	347	1009·9	970·5	−1·2	21·3	15·4	10·5	12·7	51	−1	2·2	+0·7	..	0	0	11	0	0	3	6	0	0	0	2	20	0
	1730	"	1008·1	969·4	..	26·3	17·7	10·7	12·9	40	..	3·0	..	..	0	0	25	0	0	2	5	0	4	1	13	6	0
Ambala	0830	272	1011·3	979·9	−0·3	19·0	14·2	9·8	12·3	56	0	2·3	0	1·5	0	0	13	0	1	0	4	0	0	0	8	18	0
	1730	"	1007·9	977·7	..	27·0	16·6	7·4	10·3	30	..	2·1	..	1·4	0	0	12	0	4	0	5	0	0	0	3	19	0
Ambala (P.B.O.)	0230	278	1009·5	977·4	..	18·1	13·5	10·0	12·3	59	..	2·6	..	7·8	0	0	27	5	1	1	1	0	0	3	16	4	0
	0530	"	1009·3	977·0	..	16·7	12·8	9·7	12·0	64	..	2·5	..	7·4	0	0	27	2	4	0	2	0	1	3	15	4	0
	1130	"	1011·0	979·6	..	25·6	16·7	10·6	12·8	40	..	2·8	..	10·2	0	1	26	4	0	1	4	2	2	3	11	4	0
	2330	"	1010·2	978·4	..	20·2	14·4	10·2	12·4	53	..	2·7	..	10·7	0	1	28	5	2	1	0	0	0	3	18	2	0
Ambala Aerodrome	0530	274	1009·7	977.6	..	14·2	11·8	9·4	11·8	73	..	2·8	..	7·5	0	2	19	0	1	2	0	0	0	6	12	10	0
	0830	"	1010·9	979·2	..	17.8	13.4	9·2	11·6	58	..	3·6	..	11·7	0	0	21	0	0	2	3	0	0	3	13	10	0
	1130	"	1010·9	980.0	..	25·9	16·3	8·5	11·1	34	..	3·4	..	15·5	0	10	18	0	1	3	4	0	0	7	13	3	0
	1730	"	1007·9	977·2	..	27·0	16·1	5·6	9·1	28	..	4·3	..	15·4	0	10	18	1	0	1	0	1	0	13	12	3	0
	2330	"	1010·5	978·9	..	18·1	13·6	9·8	12·1	59	..	3·2	..	9·6	0	2	23	0	0	1	0	0	0	10	14	6	0
Patiala	0830	251	1011·6	982·7	..	19·2	14·0	9·0	11·5	53	..	3·2	..	5·6	0	0	26	0	0	0	4	0	0	0	22	5	0
	1730	"	1009·1	981·1	..	26·2	16·7	8·6	11·2	33	..	4·4	..	5·9	0	0	24	0	0	0	1	0	0	0	23	7	0
Bhatinda	0830	211	1012·0	987·6	..	19·9	15·7	12·2	14·2	64	..	1·9 (a)	..	3·9 (a)	0	0	24	2	3	1	2	0	1	1	14	7	0
	1730	"	1008·8	883·9	..	28·2	19·4	13·1	15·1	41	..	2·3	..	4·4	0	0	29	6	5	0	0	1	0	1	16	1	0
Karnal	0830	249	1011·1	982·4	..	19·7	14·4	9·6	11·9	54	..	0·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1008·0	980·2	..	27·0	17·3	9·5	11·9	34	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1010·6	984·7	..	14·5	12·9	11·5	13·6	82	..	2·8	..	5·3	0	0	31	4	7	1	2	1	6	5	5	0	0
	0830	"	1012·3	986·6	−0.1	17·6	14·7	12·3	14·3	72	+21	3·0	+1·3	4·1	0	0	26	1	1	0	3	2	12	5	2	5	0
	1130	"	1012·0	987·1	..	27·1	20·7	16·7	19·0	54	..	2·9	..	5·3	0	0	31	4	2	2	5	0	7	4	7	0	0
	1730	"	1008·8	983·9	..	28·5	21·6	17·8	20·4	53	..	3·7	..	5·8	0	0	27	8	3	1	1	1	2	1	10	4	0
	2330	"	1011·5	985·9	..	18·9	15·8	13·2	15·2	71	..	2·9	..	5·3	0	0	31	4	11	1	0	1	3	3	8	0	0
New Delhi (Safdarjung)	0230	216	1009·8	984·7	..	18·7	13·6	9·0	11·5	54	..	1·6	..	7·4	0	0	26	5	1	0	1	0	2	3	14	5	0
	0530	"	1009·7	984·6	..	16·9	12·7	8·6	11·2	59	..	1·8	..	6·6	0	1	22	3	0	1	0	0	1	7	11	8	0
	0830	"	1011·7	986·5	−0·5	19·5	13·8	8·5	11·9	50	+2	2·5	+0.3	10·1	0	2	27	1	1	0	2	0	4	10	11	2	0
	1130	"	1011·6	987·2	..	27·7	16·8	7·2	10·1	28	..	2·8	..	15·4	0	6	25	2	0	1	2	2	3	6	15	0	0
	1730	"	1008·2	984·0	..	29·0	17·0	6·2	9·5	24	..	3·5	..	13·8	0	4	25	3	0	2	0	0	1	1	22	2	0
	2330	"	1010·5	985·7	..	20·9	14·5	8·7	11·2	46	..	2·3	..	7·0	0	0	23	5	1	1	0	0	1	0	15	8	0
Palam Aerodrome	0230	233	1010·0	983·0	..	17·6	13·7	9·7	12·0	61	..	2·3	..	6·3	0	0	26	7	2	2	0	2	4	2	7	5	0
	0530	"	1010·0	982·6	..	14·6	11·7	8·6	11·5	69	..	2·2	..	7·4	0	1	26	3	1	1	1	4	11	1	5	4	0
	0830	"	1011·9	984·9	..	19·2	13·6	8·8	11·3	53	..	3·2	..	9 2	0	1	28	0	1	1	2	4	11	5	5	2	0
	1130	"	1011·5	985·3	..	27 5	17·1	8·4	11·0	31	..	2·7	..	16·1	0	9	22	2	0	2	3	0	6	9	9	0	0
	1430	"	1009·1	983·3	..	29.9	17·6	6·5	9·7	24	..	4·2	..	17.6	0	9	22	2	0	1	3	1	2	9	13	0	0
	1730	"	1008·3	982·2	..	29·0	17·3	6·7	9·8	25	..	3 5	..	14 7	0	5	26	2	2	1	0	0	2	6	18	0	0
	2030	"	1009·9	983·4	..	23·1	15·8	9·4	11·8	43	..	3·3	..	7·5	0	1	26	7	2	1	2	0	1	7	7	4	0
	2330	"	1010·7	983·9	..	20·0	14·4	9·3	11·7	50	..	2·6	..	6·9	0	0	27	7	2	1	1	2	2	4	8	4	0
Himachal Pradesh																											
Mandi	0830	761	1013·2	926·7	−0.6	13·9	11·0	8·5	11·1	71	−9	2·4	−1.6	0·2	0	0	4	1	0	0	0	1	0	0	2	27	0
	1730	"	1006·7	923·8	..	24·1	14·3	5·9	9·3	30	..	3·8	..	0·9	0	0	6	1	0	0	0	1	0	2	2	25	0
Bilaspur	0830	493	1013·3	956·6	..	15·2	12.6	10·4	12·6	74	..	3·1	..	..	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	"	1008·4	953·9	..	25·4	16·2	9·2	11·6	38	..	5·0	..	..	0	0	2	1	0	0	0	0	1	0	0	29	0
Jammu and Kashmir																											
Misgar (R)	0830	3106																									
(R)	1730	"																									
Gilgit (R)	0830	1491																									
(R)	1730	"																									

(a) Mean of 30 days.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Skardu (R)	0830	2258																									
(R)	1730	,,																									
Leh	0530	3514	3087·3	666·9	..	−4·5	−6·9	−12·0	2·2	55	..	(c) 3·3	..	(a) 5·8	0	0	20	7	12	1	0	0	0	0	0	10	0
	0830	,,	3097·4	664·5	−0·5	−2·2	−5·2	−11·1	2·3	48	−6	4·3	−0·6	5·2	0	0	23	5	4	1	0	6	6	1	0	8	0
	1730	,,	3057·4	662·2	..	3·9	0·1	−5·4	3·9	49	..	5·3	..	9·6	0	0	29	5	2	0	1	1	7	8	5	2	0
Srinagar	0830	1587	1520·8	843·3	+0·4	5·8	4·6	3·2	7·7	84	−1	5·0	+0·1	2·4	0	0	20	2	1	4	8	0	0	3	2	11	0
	1130	,,	1521·9	843·6	..	10·3	6·9	3·5	7·9	63	..	4·7	..	2·6	0	0	19	1	0	0	3	3	3	6	3	12	0
	1730	,,	1493·8	840·8	..	12·8	7·5	1·7	6·9	49	..	5·6	..	4·2	0	0	21	1	2	1	0	1	0	10	6	10	0
Srinagar (Aerodrome)	0530	1565	1499·5	833·8	..	3·8	2·7	1·2	6·7	84	..	4·0	..	5·7	0	1	20	1	4	4	3	1	3	3	2	10	0
	0830	,,	1514·2	835·0	..	5·5	4·0	2·1	7·1	79	..	4·5	..	5·3	0	0	25	2	1	4	3	2	1	4	8	6	0
	1130	,,	1517·3	835·5	..	9·8	6·4	2·8	7·5	63	..	4·8	..	6·7	0	0	29	5	4	6	1	0	1	3	9	2	0
	1730	,,	1490·2	833·0	..	12·1	7·1	1·7	6·4	52	..	5·7	..	8·9	0	2	26	2	1	1	2	2	2	4	14	3	0
	2330	,,	1505·9	834·3	..	6·7	4·6	2·6	7·4	74	..	4·5	..	10·0	0	1	26	0	1	2	4	3	3	5	9	4	0
Gulmarg	0830	2655	Closed during winter months																								
	1730	,,																									
Jammu*	0830	,,	..	..	..	18·1	12·6	2·6	9·8	50	..	4·0	..	10·3	0	1	24	7	16	1	0	0	0	0	1	1	0
Jammu (Aerodrome)	0530	292	1010·5	976·3	..	15·8	11·7	7·4	10·3	59	..	3·2	..	5·5	0	2	13	0	14	0	1	0	0	0	0	16	0
	0830	,,	1011·8	977·9	..	17·9	12·7	7·2	10·1	51	..	3·8	..	7·9	0	1	26	0	24	1	0	0	0	0	2	4	0
	1130	,,	1012·0	978·7	..	24·2	15·3	6·5	9·7	34	..	4·1	..	7·9	0	2	24	3	8	1	2	2	3	3	4	5	0
	1730	,,	1009·2	976·1	..	25·1	15·7	6·9	9·9	33	..	5·1	..	6·8	0	0	23	0	1	1	1	0	5	11	4	8	0
	2330	,,	1011·7	977·7	..	18·0	13·0	7·8	10·6	53	..	4·0	..	4·2	0	1	10	1	8	1	0	1	0	0	0	20	0
Rajasthan (West) Sri Ganganagar	0530	177	1010·6	989·8	..	15·7	11·7	7·8	10·6	61	..	0·9	..	2·6	0	0	20	3	7	5	2	1	0	0	2	11	0
	0830	,,	1012·2	991·5	..	16·9	12·2	7·4	10·3	54	−4	1·7	−0·7	2·3	0	0	21	1	7	4	2	3	1	0	3	10	0
	1130	,,	1012·3	992·4	..	26·5	16·3	6·9	9·9	29	..	3·0	..	3·5	0	0	30	6	5	3	6	3	4	0	3	1	0
	1730	,,	1008·6	988·9	..	29·1	16·9	5·5	9·0	23	..	2·9	..	3·5	0	0	21	6	7	1	0	0	1	1	5	16	0
	2330	,,	1011·3	990·8	.	19·7	13·8	8·3	10.9	49	..	1·4	..	2·7	0	0	21	3	11	4	0	0	1	1	1	10	0
Churu	0830	291	1012·3	978·7	..	18·9	13·1	7·2	10·1	49	..	2·7	..	4·5	0	0	24	1	0	7	5	4	4	3	0	7	0
	1730	,,	1007·8	975·6	..	30·7	18·4	7·5	10·4	26	..	3·8	..	10·2	0	3	25	15	1	1	1	0	1	5	4	3	0
Bikaner	0830	224	1012·0	986·1	0	19·2	15·5	12.4	14·4	66	+23	1·6	−0·2	4·7	0	0	30	0	5	6	11	0	6	2	0	1	0
	1730	,,	1007·9	982·9	..	31·8	23·5	18·6	21·4	49	..	2·9	..	8·6	0	3	28	3	7	1	4	0	4	1	1	0	0
Bikaner (P.B.O.)	0530	224	1010·3	984·0	..	16·6	12·7	8·3	11·3	61	..	1·4	..	1·6	0	0	10	0	4	0	0	4	0	1	1	21	0
	1130	,,	1011·6	986·6	..	29·3	20·8	14·9	16·9	44	..	3·3	..	5·9	0	0	30	2	4	3	7	6	3	4	1	1	0
	2330	,,	1010·4	984·8	..	21·6	16·1	11·4	13·5	53	..	1·1	..	3·0	0	0	20	4	10	2	0	2	9	0	2	11	0
Nagaur	0830	298	1011·1	977·0	..	23·3	12·4	−1·3	5·5	21	..	2.2	..	8.9	0	2	29	1	7	7	5	5	3	2	1	0	0
	1730	,,	1007·0	974·1	..	31·7	15·8	−3·3	4·6	11	..	3·0	..	7·6	0	4	26	6	2	1	0	1	3	8	9	1	0
Phalodi	0830	234	1012·1	985·2	..	20·9	17·1	14·4	16·4	67	..	2·5	..	8.4	0	0	26	2	1	6	6	3	3	5	0	5	0
	1730	,,	1008·4	982·7	..	33·0	25·5	21·7	25·9	54	..	2·8	..	8·7	0	3	21	0	0	1	1	0	4	17	1	7	0
Jaisalmer	0830	242	1011·0	983·5	..	22·7	13·2	3·3	7·7	31	..	2·5	..	8·2	0	0	20	6	5	2	2	3	2	0	2	1	0
	1730	,	1007·1	980·7	.	33·1	17·7	8·3	10·7	16	..	3·5	..	15·6	0	0	28	6	1	0	0	6	6	5	4	3	0
Jodhpur	2330	224	1009·8	934·3	..	22·9	13·5	3·3	7·7	28	..	1·3	..	7·7	0	0	25	5	11	0	0	0	2	5	2	6	0
	0530	,,	1009·9	984·1	..	20·4	12·5	3·5	7·9	34	..	1·6	..	7·7	0	0	27	4	13	0	1	1	3	4	1	4	0
	0830	,,	1011·8	986·1	+0·9	22·3	13·5	3·8	8·0	31	−5	2·7	−0·7	6·4	0	0	22	1	11	1	2	0	5	2	0	9	0
	1130	,,	1011·7	986·7	..	30·7	16·9	3·5	7·9	18	..	3·0	..	9·7	0	2	25	1	1	2	6	5	6	3	2	4	1
	1730	,,	1007·3	982·7	..	33·9	17·9	2·3	7·2	14	..	3·5	..	11·8	0	5	23	3	1	2	1	1	4	11	5	3	0
	2330	,,	1010·2	984·8	..	25·6	14·8	3·6	7·9	52	..	1·6	..	8·9	0	2	25	5	12	2	0	0	2	4	2	4	0
Barmer	0530	194	1008·9	986·7	..	22·3	14·5	6·5	9·7	38	..	0·8	..	6·5	0	0	25	5	0	0	0	1	2	4	13	6	0
	0830	,,	1011·1	988·9	−0·6	23·1	14·6	6·1	9·4	33	−22	2·0	+0·4	5·1	0	0	25	4	0	1	2	1	1	4	12	6	0
	1130	,,	1011·1	989·5	..	31·4	17·5	4·2	8·2	19	..	2·3	..	6·0	0	1	25	4	2	1	6	0	3	2	8	5	0
	1730	,,	1006·6	985·6	..	34·4	18·8	5·0	8·7	17	..	2·1	..	7·6	0	0	27	1	3	0	2	1	5	5	10	4	0
	2330	,,	1009·6	987·7	..	26·9	16·0	6·0	9·3	26	..	0·8	..	5·9	0	0	23	0	0	0	0	0	3	7	13	8	0
Munabao	0830	..	..	..	..	20·7	..	..	..	..	..	2·8	..	..	0	0	21	1	9	0	0	0	11	0	0	10	0
	1730	..	..	..	..	34·3	..	..	..	..	..	2·6	..	..	0	0	27	8	4	0	0	3	12	0	0	4	0
Rajasthan (East) Pilani	0830	301	1012·5	978·2	..	20·0	12·8	5·3	8·9	39	..	1·0	..	7·9	0	0	30	2	0	4	5	7	7	5	0	1	0
	1730	,,	1007·9	974·8	..	29·6	16·4	3·1	7·6	19	..	2·5	..	12·8	0	3	26	10	3	0	1	0	2	5	8	2	0
Sikar	0830	433	1012.2	963·6	..	22·8	16·4	11·1	13·2	50	..	2·0	..	2·7	0	0	26	3	0	9	7	2	1	3	1	5	0
	1730	,,	1007·4	960·2	..	30·3	20·9	14·7	16·7	40	..	3·1	..	2·8	0	0	25	0	2	1	1	0	1	11	4	6	0
Alwar	0830	271	1010·9	979·8	..	20·6	15·5	11·3	13·4	56	..	2.6	..	1·1	0	0	11	1	2	3	3	1	1	0	0	20	0
	1730	,,	1007·4	977·5	..	31·0	20·3	12·8	14·8	34	..	3·8	..	3·7	0	0	28	4	8	2	1	1	2	4	6	3	0

(R) Register not received. (a) Mean of 30 days. (c) Mean of 28 days. *Observations for 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—(*Contd.*)																											
Jaipur	0230	390	1009·5	965·1	..	20·1	12·7	5·1	8·8	39	..	1·6	..	9·0	0	1	28	7	8	9	0	0	0	3	2	2	0
	0530	,,	1010·1	965·4	..	18·3	12·0	5·3	8·9	44	..	1·9	..	6·4	0	0	28	7	6	10	1	0	0	1	3	3	0
	0830		1011·6	967·5	−0·8	22·6	14·4	6·4	9·6	36	−1	2·9	+1·2	7·5	0	0	26	5	3	9	3	0	0	2	4	5	0
	1130	,,	1011·0	967·8	..	28·8	16·6	5·0	8·7	23	..	3·6	..	11·0	0	2	29	2	0	4	5	3	3	4	7	0	3
	1730	,,	1007·1	964·2	..	30·8	16·9	3·4	7·8	19	..	3·8	..	10·7	0	3	26	4	0	0	1	1	1	8	13	2	1
	2330	,,	1009·9	966·0	..	22·2	13·5	4·4	8·4	32	..	1·5	..	8·0	0	0	31	5	3	9	1	0	0	1	7	0	0
Dholpur	0830	176	1011·4	991·0	..	22·5	16·1	10·7	12·9	50	..	2·3	..	0·9	0	0	7	0	0	0	0	0	0	1	5	24	0
	1730	,,	1007·2	987·5	..	30·5	19·3	11·0	13·1	31	..	3·7	..	1·7	0	0	13	5	2	0	0	0	0	1	5	18	0
Ajmer	0830	436	1012·1	957·3	−0·6	21·2	12·6	3·6	7·9	33	−3	3·7	+2·3	5·6	0	0	18	0	2	2	3	1	6	3	1	13	0
	1730	,,	1006·7	953·5	..	31·2	15·2	−5·9	3·7	11	..	4·0	..	10·3	0	1	26	2	2	0	4	2	5	8	4	4	0
Tonk	0830	272	1011·2	980·5	..	21·8	14·1	6·6	9·7	39	..	2·3	..	6·5	0	0	30	1	0	5	3	1	3	5	12	1	0
	1730	,,	1005·9	976·4	..	32·3	18·6	7·2	10·1	23	..	2·9	..	8·8	0	4	26	3	1	3	1	1	6	4	11	1	0
Kota	0530	257	1010·1	980·6	..	20·9	13·4	6·1	9·4	39	..	1·3	..	4·5	0	1	16	1	1	0	0	0	8	6	1	14	0
	0830	,,	1012·0	983·0	−0·2	25·7	15·6	5·9	9·3	29	−5	1·7	+0·2	4·2	0	1	17	0	0	0	0	0	4	14	0	13	0
	1130	,,	1011·5	983·0	..	31·8	18·1	6·0	9·3	20	..	2·6	..	8·4	0	3	22	1	0	1	9	0	2	7	5	6	0
	1730	,,	1007·6	979·4	..	32·8	18·1	4·9	8·7	18	..	2·9	..	4·5	0	1	21	1	0	0	1	0	2	6	12	9	0
	2330	,,	1010·1	981·1	..	25·0	15·4	5·7	9·2	30	..	0·8	..	4·2	0	0	20	0	0	2	5	0	1	11	1	11	0
Erinpura (Jawai Dam)	0830	295	1012·1	978·4	..	21·9	16·9	13·3	15·3	59	..	3·2	..	8·8	0	1	23	0	0	0	5	16	1	2	0	7	0
	1730	,,	1007·6	975·2	..	32·9	23·5	18·4	21·1	43	..	4·4	..	8·5	0	4	22	5	0	0	0	2	5	11	3	5	0
Chambal (Rawat Bhatta Dam)	0830	351	1012·1	972·3	..	22·5	13·0	2·3	7·2	28	..	1·6	..	2·4	0	0	17	2	1	2	3	2	2	2	3	14	0
	1730	,,	1006·8	968·5	..	33·3	17·1	−0·3	6·0	13	..	2·7	..	13·5	0	6	25	2	3	3	0	0	2	5	16	0	0
Udaipur	0230	532	1011·4	945·5	..	18·1	12·0	6·2	9·5	47	..	0·5	..	0·8	0	0	3	0	0	0	0	0	1	2	0	28	0
	0530	,,	1011·6	945·5	..	16·6	11·2	6·1	9·4	51	..	1·0	..	0·6	0	0	3	0	0	0	0	0	1	0	2	28	0
	0830	,,	1012·5	947·3	−0·3	21·3	13·4	6·8	9·9	39	−8	2·3	+1·0	1·5	0	0	10	2	0	0	0	0	0	4	4	21	0
	1130	,,	1010·8	947·6	..	30·4	15·9	2·2	7·2	17	..	2·4	..	6·3	0	1	26	5	1	3	3	1	1	9	4	4	0
	1730	,,	1006·9	914·1	..	31·3	16·4	4·3	8·3	17	..	3·2	..	5·7	0	0	23	4	0	0	1	2	5	3	8	8	0
	2330	,,	1011·9	946·5	..	20·9	13·3	6·2	9·5	40	..	0·4	..	1·4	0	0	8	1	0	0	0	0	2	2	3	23	0
Jhalawar	0830	321	1011·8	975·4	−0·6	22·4	13·6	4·7	8·5	31	−5	1·5	+0·3	1·4	0	0	13	1	3	1	1	1	2	3	1	18	0
	1730	,,	1006·6	971·8	..	34·7	18·0	2·9	7·5	12	..	2·1	..	4·8	0	0	30	4	5	0	3	0	2	8	8	1	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1009·7	985·7	..	17·8	12·3	6·8	9·0	50	..	1·7	..	2·5	0	0	14	1	1	0	4	4	2	0	2	17	0
	0530	,,	1009·8	985·8	..	16·8	11·6	6·2	9·5	51	..	1·9	..	2·2	0	0	17	0	0	0	8	4	3	1	1	14	0
	0830	,,	1011·6	988·0	−0·4	23·6	14·8	6·5	9·8	35	−3	2·7	+1·4	5.4	0	1	19	3	0	0	2	2	3	3	7	11	0
	1130	,,	1011·5	988·3	..	29·7	16·5	3·6	8·1	20	..	2·2	..	10·9	0	5	26	5	5	0	3	0	2	6	10	0	0
	1730	,,	1007·5	984·6	..	31·6	17·1	2·5	7·8	17	..	3·0	..	9·2	0	1	29	18	1	0	0	0	0	2	9	1	0
	2330	,,	1010·3	986·5	..	20·2	13·4	6·5	9·9	43	..	1·4	..	3·3	0	1	19	1	0	0	6	3	6	2	2	11	0
Sheopur	0830	235	1012·0	985·2	+0·1	22·4	14·4	6·9	10·0	38	−4	2·5	+0·6	3·0	0	0	20	1	4	4	5	4	2	2	2	11	0
	1730	,,	1007·0	981·2	..	32·9	17·5	4·5	7·5	15	..	3·0	..	11·3	0	2	28	5	5	1	0	1	1	6	9	1	2
Shivpuri	0830	464	1011·7	959·6	..	23·3	15·6	8·9	12·0	40	..	1·3	..	(c) 6·0	0	0	27	2	4	3	2	5	5	4	2	1	0
	1730	,,	1006·5	955·8	..	31·2	23·2	18·4	22·7	51	..	2·4	..	(c) 9·2	0	1	27	5	0	2	2	1	6	5	7	0	0
Nowgong	0830	229	1012·2	985·6	−0·5	20·4	14·0	8·2	10·8	46	0	1·6	−0·2	3·3	0	0	22	0	1	1	0	6	12	0	2	9	0
	1730	,,	1007·3	982·2	..	32·9	17·8	3·7	8·1	16	..	2·2	..	4·6	0	0	28	1	4	0	0	0	1	2	20	3	0
Guna	0530	478	1010·7	956·0	..	16·8	10·1	2·7	7·5	40	..	0·8	..	4·1	0	0	22	1	1	3	10	4	0	1	2	9	0
	0830	,,	1011·8	958·2	−0·9	23·3	13·1	3·0	7·6	27	−10	1·3	+0·3	4·2	0	0	20	2	0	6	3	4	0	5	0	11	0
	1130	,,	1010·6	958·4	..	31·5	15·9	1·4	6·8	16	..	1·8	..	12·0	0	4	26	2	0	2	7	1	3	6	8	1	1
	1730	,,	1006·5	954·7	..	32·3	16·1	0·2	7·0	13	..	3·4	..	13·4	0	6	25	4	1	0	0	2	0	8	16	0	0
	2330	,,	1010·6	956·7	..	21·2	12·1	2·7	7·4	30	..	0·9	..	4·1	0	0	20	3	1	4	5	2	1	3	1	11	0
Neemuch	0830	496	1012·5	956·8	0	22·5	12·0	0·3	6·5	24	−13	3·2	+1·9	6·1	0	1	24	1	6	5	2	0	3	5	3	6	0
	1730	,,	1007·2	953·6	..	32·8	15·3	−4·3	4·7	10	..	3·5	..	12·3	0	1	29	5	7	0	0	0	4	7	7	1	0
Rajgarh	0830	382	1011·5	968·3	..	22·6	12·3	0	6·0	23	..	1·4	..	6·0	0	0	23	2	0	0	8	5	0	6	2	8	0
	1730	,,	1005·8	964·5	..	34·4	17·5	1·1	6·4	11	..	2·5	..	6·8	0	0	27	6	0	0	11	0	0	9	1	4	0
Sagar	0830	551	1011·5	950·2	−0·1	24·1	16·2	10·2	12·6	42	+11	1·0	−0·3	4·2	0	0	25	0	5	7	2	0	2	6	3	6	0
	1730	,,	1005·9	946·5	..	32·2	..	..	..	..	..	2·1	..	3·2	0	0	19	0	1	2	0	0	0	8	8	12	0
Ratlam	0830	486	1012·0	957·4	−0·2	23·6	15·6	9·0	12·2	41	−1	1·5	−0·4	7·4	0	0	24	3	8	4	1	1	4	2	1	7	0
	1730	,,	1006·6	954·2	..	34·3	21·4	13·4	15·2	30	..	2·5	..	7·5	0	0	28	2	2	1	0	0	7	8	8	3	0
Bhopal (Balragarh)	0230	523	1009·7	920·9	..	20·9	11·4	1·1	6·8	26	..	0·2	..	9·1	0	1	29	4	8	3	2	4	1	4	4	1	0
	0530	,,	1010·6	951·4	..	19·3	10·8	1·2	6·8	31	..	0·3	..	7·9	0	0	28	4	7	4	3	1	4	2	3	3	0
	0830	,,	1011.8	953·6	−0·2	24·6	13·4	1·9	7·4	23	−6	0·9	−0·2	10·5	0	3	26	3	3	7	5	3	3	0	5	2	0
	1130	,,	1010·1	953·3	..	31·6	16·1	1·2	7·4	15	..	1·2	..	15·0	0	11	19	4	4	3	4	2	3	2	8	1	0

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Bhopal (Bairagarh)	1730	523	1005·9	949·6	..	33·2	16·3	−0·5	6·2	12	..	2·5	..	12·9	0	9	22	6	4	0	1	0	2	4	14	0	0
	2330	,,	1010·1	951·9	..	24·0	12·9	1·0	6·8	23	..	0·7	..	10·1	9	3	25	3	8	6	1	2	2	1	5	3	0
Ujjain	0830	..	..	..	..	22·4	12·8	3·0	8·0	30	..	..	..	3·9	0	0	21	2	3	4	2	1	1	3	5	10	0
Hoshangabad	0830	302	1012·2	977 8	−0·5	23·0	14·9	7·2	10·4	38	+4	1·1	−0·1	6·3	0	0	30	4	5	6	4	4	3	1	3	1	0
	1730	,,	1006·0	973·3	..	35·4	20·6	8·8	12·0	22	..	2·5	..	9·3	0	3	28	4	6	1	2	2	5	6	5	0	0
Indore	0530	567	1010·6	946·5	..	18·8	10·3	0·6	5·7	30	..	0·5	..	10·4	0	2	25	2	7	2	0	2	5	6	3	4	0
	0830	,,	1011·8	948·8	−0·3	23·9	13·3	2·2	7·7	26	−6	1·0	−0·1	10·5	0	4	18	2	5	0	1	2	6	4	2	9	0
	1130	,,	1010·3	948·9	..	31·8	15·9	0·4	5·2	14	..	1·5	..	16·2	0	12	14	3	5	3	1	4	2	5	2	5	1
	1730	,,	1005·6	944·9	..	33·7	16·3	−0·9	6·2	11	..	1·6	..	20·7	0	12	18	4	1	0	0	0	4	11	10	1	0
	2330	,,	1010·4	947·4	..	23·8	12·4	−0·4	5·2	21	..	0·9	..	10·7	0	5	20	4	5	1	0	1	3	5	6	6	0
Rajpur	0830	293	1012·7	979·4	..	23·3	15·0	7·2	10·3	38	..	1·6	..	4·0	0	1	18	0	0	3	1	1	0	10	4	12	0
	1730	,,	1006·9	975·1	..	35·3	18·1	1·3	6·8	12	..	1·6	..	11·7	0	6	25	4	1	0	0	1	0	17	8	0	0
Chhindwara	0830	685	1011.3	936·1	0	25·4	15·3	6·5	10·4	31	−9	1·2	−0·4	5·6	0	1	21	2	8	2	1	1	1	0	7	9	0
	1730	,,	1005·1	932·0	..	32·5	17·9	5·8	10·1	20	..	3·3	..	9·3	0	1	30	2	1	2	0	3	3	13	7	0	0
Seoni	0830	619	1012·0	943·7	+0·6	25·1	16·3	9·5	12·1	39	+2	2·4	+1·1	3·1	0	0	24	4	6	2	1	2	3	0	6	7	0
	1730	,,	1005·5	939·3	..	33·0	19·1	8·8	11·9	24	..	2·6	..	3·8	0	0	27	1	3	0	4	0	7	2	9	4	1
Betul	0830	653	1012·0	939·8	+0·1	24·7	13·8	3·1	7·8	26	−9	0·9	−0·9	4·6	0	0	23	1	3	6	7	1	1	2	2	8	0
	1730	,,	1005·4	935·6	..	32·9	16·9	1·8	7·6	16	..	2.5	..	7·4	0	0	31	8	3	0	2	0	0	7	11	0	0
Khandwa	0830	318	1011·9	976·0	−0·1	25·2	15·0	4·8	8·3	28	−5	1·3	+0·4	2·9	0	0	25	0	2	5	1	2	2	6	7	6	0
	1730	,,	1006·0	971·5	..	36·1	19·3	5·0	8·9	15	..	1·7	..	6·4	0	0	30	6	1	1	0	1	2	5	14	1	0
Madhya Pradesh (East)																											
Satna	0530	317	1010·1	973·5	..	17·0	11·4	5·4	9·1	47	..	3·1	..	2·4	0	0	18	1	0	1	0	1	2	12	1	13	0
	0830	,,	1011·6	975·6	−0·3	23·0	14·0	4·8	8·9	31	−9	1·9	+0·4	2·5	0	0	23	0	0	1	5	4	2	10	1	8	0
	1130	,,	1010·7	975·7	..	30·9	16·5	1·8	7·1	16	..	2·5	..	7·6	0	0	30	1	2	4	0	2	4	8	9	1	0
	1730	,,	1006·5	971·9	..	32·6	16·7	−3·2	6·2	13	..	3·1	..	6·2	0	0	31	6	0	0	0	0	0	11	14	0	0
	2330	,,	1010·0	973·9	.	21·9	13·5	4 6	8·7	33	..	2·6	..	3·1	0	1	18	1	1	3	0	0	2	8	4	12	0
Sidhi	0830	272	1011·5	980·6	..	22·6	15·4	9·2	11·6	43	..	0	..	0·3	0	0	3	0	0	0	0	0	2	0	1	28	0
	1730	,,	1005·8	975·9	..	31·9	17·6	4·0	8·4	18	..	0·6	..	2·0	0	0	20	2	1	0	3	1	1	4	8	11	0
Umaria	0830	459	1011·5	960·2	..	24·4	14·8	7·0	9·8	34	−8	1·6	−0·2	3·6	0	0	24	1	4	6	5	0	3	4	1	7	0
	1730	,,	1006·2	956·5	..	32·5	17·5	5·5	9·1	19	..	2·3	..	4·1	0	0	31	8	2	1	0	0	2	10	8	0	0
Jabalpur	0530	393	1010·5	965·3	..	16·8	12·4	8·1	10·9	57	..	1·4	..	1·2	0	0	11	0	0	0	8	1	1	1	0	20	0
	0830	,,	1011·9	967·7	+0·1	23·4	14·6	6·1	9·4	34	−9	1·2	0	2·7	0	0	19	3	1	0	8	2	1	4	0	12	0
	1130	,,	1010·3	967·5	..	32·6	17·8	4·1	8·5	17	..	1·1	..	4·7	0	0	26	4	4	2	3	3	5	4	1	5	0
	1730	,,	1005·8	963·3	..	33·8	18·3	4·5	8·4	16	..	2·1	..	6·3	0	1	28	6	7	1	1	0	3	7	4	2	0
	2330	,,	1010·3	965·9	..	27.7	15·1	9·1	7·0	46	..	1·2	..	3·0	0	0	13	1	7	0	2	1	1	1	0	18	0
Ambikapur	0830	611	1012·0	944·0	−0·3	22·3	14·4	7·8	10·7	40	−8	0·9	−0·3	2·8	0	0	20	2	6	1	0	2	6	3	0	11	0
	1730	,,	1005·6	940·0	..	31·7	16·3	2·4	7·4	16	..	1·5	..	6·5	0	0	30	14	0	0	0	0	1	1	14	1	0
Pendra	0530	625	1010·0	940·2	..	20·4	11·8	2·9	7·6	32	..	1·1	..	5·7	0	0	31	4	1	0	1	1	1	6	17	0	0
	0830	,,	1011·4	942·5	−0.5	24·9	14·1	3·8	8·6	26	−15	1·7	+0·3	4·4	0	0	26	9	1	0	0	2	3	4	7	5	0
	1130	,,	1010·0	942·4	..	30·4	15.8	2.3	7·3	17	..	1·4	..	8·1	0	1	29	12	4	0	1	2	3	3	5	1	0
	1730	,,	1005·8	938·8	..	31·5	15·9	1·6	6·8	15	..	2·9	..	6.5	0	0	31	14	0	1	0	3	2	3	8	0	0
	2330	,,	1010·2	941·2	..	22·9	13·1	3·2	8 0	29	..	1·2	..	5·1	0	0	28	5	0	0	0	0	0	11	12	3	0
Mandla	0830	443	1012·5	962·4	−0·3	20·7	14·4	8·5	11·4	46	−11	1·3	−0·6	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1005·7	957·8	..	32·9	17·6	2·4	7·7	15	..	1·9	..	2·6	0	0	14	7	0	0	0	2	0	0	5	17	0
Champa	0830	245	1011·8	984·0	−0·5	24·7	16·1	8·8	11·4	37	−8	1·5	−0·3	3·2	0	0	18	16	0	1	0	0	0	1	0	13	0
	1730	,,	1006·4	979·7	..	34·8	19·3	6·5	9·8	18	..	2·5	..	6·1	0	1	25	4	0	0	0	0	0	18	4	5	0
Raigarh	0830	220	1011·3	986·4	−0·6	25·7	17·3	11·2	13·0	41	−2	0·8	−1·2	3·3	0	0	26	0	11	5	4	2	1	2	1	5	0
	1730	,,	1005·6	981·5	..	33·6	21·9	12·8	16·9	28	..	1·2	..	2·1	0	0	15	4	4	1	0	1	0	3	2	16	0
Raipur	0530	298	1009·5	975·7	..	22·9	15·7	9·3	11·6	44	..	1·4	..	4·4	0	0	17	1	2	1	0	2	6	3	2	14	0
	0830	,,	1011·7	978·2	0	26·6	17·6	10·3	12·8	38	−2	1·1	−0·2	4·5	0	0	24	6	2	2	1	3	1	6	3	7	0
	1130	,,	1010·5	977·8	..	33·5	19·7	8·8	11·7	23	..	0·6	..	8·3	0	1	26	2	3	3	2	1	2	7	7	4	0
	1730	,,	1006·0	973·7	..	35·2	20·2	8·3	11·4	20	..	2·4	..	5·5	0	0	21	3	1	0	0	1	4	8	4	10	0
	2330	,,	1009·1	975·9	..	28·2	17·6	9·5	11·5	33	..	1·1	..	7·8	0	2	24	5	1	0	2	5	6	3	4	5	0
Kanker	0830	402	1011·5	966·9	+0·2	26·9	20.9	16·9	19·3	56	+3	0·7	−1·0	1·5	0	0	11	0	1	0	0	0	8	0	2	20	0
	1730	,,	1007·0	963·7	..	34·3	24·1	18·3	21·0	40	..	1.0	..	3·2	0	0	29	0	9	0	0	0	11	3	6	2	0
Jagdalpur	0530	553	1009·9	948·2	..	21·4	18·0	15·9	18·2	72	..	1·6	..	0·5	0	0	4	0	0	0	0	1	2	1	0	27	0
	0830	,,	1011·6	950·7	0	25·8	19·7	16·2	18·5	57	0	1·4	+0·1	2·4	0	0	13	1	0	0	1	7	3	1	0	18	0
	1130	,,	1009·8	950·2	..	32·2	20·6	13·5	15·7	33	..	1·2	..	5·2	0	0	29	0	3	1	1	6	9	3	6	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East—*Contd.*																											
Jagdalpur—*contd.*	1730	553	1005·5	946·3	..	33·1	20·4	12·4	14·7	29	..	3·2	..	4·4	0	0	24	0	0	0	0	3	10	10	1	7	0
	2330	,,	1009·9	948·9	..	25·5	19·2	15·5	17·7	55	..	1·2	..	2·9	0	2	12	0	0	1	1	8	4	0	0	17	0
Gujarat Region—																											
Deesa	0830	136	1012·4	996·7	+0·1	21·8	13·7	4·5	8·4	35	..	1·8	..	2·0	0	0	21	5	6	2	4	3	0	1	0	10	0
	1730	,,	1007·8	992·8	..	35·1	18·6	2·4	7·3	15	..	2·3	..	3·2	0	0	28	2	0	1	0	0	2	10	13	3	0
Radhanpur	0830	30	1011·9	1008·5	..	21·6	15·3	9·5	11·9	49	..	1·4	..	3·7	0	0	21	7	2	2	0	0	6	1	3	10	0
	1730	,,	1008·3	1005·0	..	35·4	19·6	5·3	8·9	16	..	1·7	..	8·3	0	1	26	7	0	1	0	0	1	9	9	4	0
Idar	0830	219	1011·7	986·9	..	25·3	14·9	3·2	7·7	29	..	1·8	..	3·9	0	0	19	1	7	1	2	0	1	4	3	12	0
	1730	,,	1007·4	983·4	..	34·4	17·5	−1·1	5·6	12	..	2·8	..	7·9	0	1	29	1	0	0	0	4	1	22	2	1	0
Ahmedabad	0230	55	1009·8	1003·4	..	23·2	14·4	5·1	8·8	33	..	0·9	..	7·5	0	0	23	5	0	0	0	0	1	7	10	8	0
	0530	,,	1010·0	1003·5	..	20·6	13·5	5·9	9·3	41	..	1·1	..	8·1	0	0	24	5	2	0	0	2	1	3	11	7	0
	0830	,,	1012.1	1005·7	−0·5	23·2	15·1	6·8	9·9	39	−8	2·1	+1·0	9·0	0	1	24	3	3	3	1	2	2	4	7	6	0
	1130	,,	1012·3	1006·1	..	32·4	18·4	5·3	8·9	21	..	1·7	..	15·6	0	5	25	3	2	6	5	2	1	5	6	1	0
	1730	,,	1007·9	1001·8	..	36·2	18·4	0·7	6·4	11	..	2·3	..	16·6	0	8	23	3	2	1	0	0	2	8	15	0	0
	2330	,,	1010·5	1004·2	..	26·0	15·6	5·5	9·0	29	..	1·2	..	9·9	0	2	24	4	0	0	0	1	5	2	14	5	0
Dehad	0830	333	1011·9	974·3	−0·3	23·8	13·7	1·5	6·8	26	−14	1·3	+0·2	10.3	0	3	25	0	4	8	2	4	2	6	2	3	0
	1730	,,	1006·5	970·5	..	35·2	17·5	−2·9	4·8	10	..	1·4	..	15·5	0	8	22	2	3	0	0	1	5	12	7	1	0
Baroda Aerodrome	0830	38	1012·1	1007·8	..	23·4	16·1	9·3	11·7	45	..	2·4	..	6·7	0	0	25	4	0	2	3	3	4	2	7	6	0
	1130	,,	1012·2	1008·0	..	32.6	19·7	9·3	11·7	27	..	2·0	..	8·4	0	1	25	5	3	3	2	1	4	3	5	5	0
	1730	,,	1007·6	1003·4	..	36·4	19·9	5·2	8·8	17	..	2·5	..	9·0	0	1	30	1	0	0	0	0	3	11	16	0	0
Baroda	0530	34	1010·1	1006·0	..	20·0	14·9	10·2	12·4	56	..	0·7	..	..	..	..	..	2	1	1	0	3	3	1	2	18	0
	0830	,,	1012·4	1008·4	+0·3	22·2	16·0	10·1	12·3	50	−3	1·5	+0·7	..	..	..	..	0	2	0	1	1	4	2	3	18	0
	1130	,,	1012·5	1008·7	..	33·4	19·5	7·8	10·6	23	..	1·3	..	..	..	..	..	1	5	3	2	1	2	3	8	6	0
	1730	,,	1007·8	1004·0	..	37·2	19·9	4·9	8·7	15	..	1·8	..	..	..	..	..	1	1	0	0	0	3	7	14	5	0
	2330	,,	1010·6	1006·6	..	25·5	16·9	9·7	12·0	38	..	0·6	..	..	..	..	..	3	0	0	0	1	4	8	7	8	0
Broach	0830	17	1011·5	1009·5	−0·4	21·7	16·8	12·7	14·7	59	0	2·4	+1·2	4·9	0	0	30	2	3	0	5	5	5	0	10	1	0
	1730	,,	1007·4	1005·4	..	37·0	19·9	5·4	9·0	16	..	0·6	..	10·1	0	0	31	1	4	0	5	0	8	6	7	0	0
Surat	0530	12	1010·5	1009·1	..	21·5	17·9	15·1	17·1	69	..	0·5	..	4·7	0	0	29	7	6	1	8	2	1	0	4	2	0
	0830	,,	1012·4	1011·0	+0·1	23·3	18·7	15·3	17·4	63	+3	1·6	+0·6	4.8	0	0	30	9	4	1	3	7	1	1	4	1	0
	1130	,,	1012·5	1011·2	..	32·8	20·1	10·0	12·3	28	..	0·9	..	5·1	0	0	30	12	5	0	0	0	4	3	6	1	0
	1730	,,	1008·2	1006·9	..	34·3	20·6	10·1	12·3	26	..	1·0	..	9·2	0	1	30	4	1	0	0	3	4	5	14	0	0
	2330	,,	1011·0	1009·6	..	24·9	19·6	15·8	17·9	62	..	0·5	..	4·1	0	0	31	8	3	0	1	6	6	2	5	0	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1011·6	1006·1	..	22·8	19·8	17·8	20·4	75	..	0·9	..	18·7	0	12	19	4	1	0	0	0	3	9	14	0	0
	1730	,,	1008·5	1003·3	..	35·3	24·4	18·3	21·0	38	..	1·0	..	19·9	0	13	18	4	1	0	1	0	4	10	11	0	0
Naliya	0830	21	1012·5	1010·0	..	19·8	18·0	16·4	18·6	84	..	2·2	..	3·8	0	0	26	4	8	0	2	0	6	2	4	5	0
	1730	,,	1009·5	1007·1	..	30·8	20·7	12·8	14·8	39	..	1·9	..	17·9	0	10	21	2	2	0	0	1	11	5	10	0	0
Bhuj (Rudramata)	0230	80	1010·8	1001·5	..	22·6	19·5	17·6	20·1	74	..	0·2	..	8·1	0	2	22	2	0	0	0	1	5	12	4	7	0
	0530	,,	1010·6	1001·3	..	20·6	18·6	17·2	19·6	81	..	0·4	..	6·1	0	2	18	1	0	0	0	0	7	8	4	11	0
	0830	,,	1012·5	1003·3	+0·2	22·8	19·5	17·5	20·0	73	+1·9	2·1	+0·9	8·6	0	4	19	3	1	0	0	0	9	5	5	8	0
	1130	,,	1012·8	1003·8	..	31·0	22·6	17·6	20·1	47	..	2·0	..	15·7	0	4	27	13	4	1	0	0	0	4	9	0	0
	1730	,,	1008·8	999·9	..	34·7	24·1	18·0	20·6	39	..	2·1	..	16·5	0	13	14	9	2	0	0	0	1	6	9	4	0
	2330	,,	1011·6	1002·4	..	25·3	20·9	18·2	20·9	66	..	0·3	..	9·5	0	5	18	2	0	0	0	0	3	14	4	8	0
Kandla	0830	35	1012·6	1008·6	..	23·8	18.7	15·1	17·1	60	..	2·5	..	12·0	0	3	27	7	0	1	1	0	4	6	11	1	0
	1130	,,	1012·9	1009·1	..	31·8	21·3	14·0	16·0	37	..	1·9	..	12·5	0	2	29	9	3	1	0	1	2	7	8	0	0
	1730	,,	1008·9	1005·1	..	34·8	22·8	15·4	17·5	33	..	2·2	..	20·0	0	13	18	5	1	0	0	6	4	7	8	0	0
New Kandla	0830	14	1013·1	1011·4	..	23·1	17·7	13·5	15·5	57	..	3·4	..	10·1	0	2	25	7	1	1	0	1	5	5	7	4	0
	1730	,,	1009·6	1008·0	..	31·5	20·4	11·6	13·7	35	..	2·6	..	22·2	0	19	12	1	1	1	3	3	15	5	2	0	0
Mandvi	0830	9	1012·6	1011·5	−0·2	21.9	19·1	16·9	19·3	76	−4	3·0	+1·5	13·7	0	4	26	7	5	0	0	0	1	0	14	1	3
	1730	,,	1010·1	1008·9	..	27·2	23·4	21·6	25·8	72	..	2·7	..	34·3	0	27	4	0	0	0	0	1	23	3	3	0	1
Surendranagar	0830	74	1012·4	1003·9	0	24·1	17·6	12.4	14·9	50	−9	1·3	+0·1	14·1	0	6	25	2	1	0	0	0	2	12	14	0	0
	1730	,,	1008·1	1000·0	..	35·9	20·7	8·3	12·0	22	..	1·4	..	11·0	0	3	28	4	0	0	0	0	3	7	17	0	0
Jamnagar Aerodrome	0530	23	1010·5	1007.9	..	20·2	18·3	17·0	19·4	83	..	1·5	..	9·4	0	2	29	0	0	1	0	4	12	13	1	0	0
	0830	,,	1012·7	1010·1	0	22·3	19·5	17·7	20·2	76	+5	2·9	+1·8	10·9	0	3	26	0	0	0	1	3	9	12	4	2	0
	1130	,,	1013·3	1010·7	..	29·9	20·5	13·9	15·9	40	..	1·8	..	18·9	0	14	17	7	8	0	0	0	1	13	2	0	0
	1730	,,	1009·5	1006·9	..	31·2	21·1	13·8	15·8	40	..	1·9	..	28·8	0	24	7	3	3	0	0	0	0	19	6	0	0
	2330	,,	1011·8	1009·2	..	23·5	20·7	19·1	22·1	77	..	0·6	..	15·7	0	8	23	0	0	0	0	0	4	24	3	0	0
Dwarka	0830	11	1013·3	1012·0	+0·3	23·2	22·0	21·4	25·5	90	+14	1·5	−0·3	12·9	0	1	30	13	1	1	0	0	1	8	7	0	0
	1730	,,	1010·5	1009·2	..	26·7	24·3	23·1	28·3	81	..	1·1	..	17·7	0	8	23	3	0	0	0	0	0	15	13	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(*Contd.*)																											
Rajkot	0830	138	1012·8	997.0	+0·1	22·4	18·7	16·0	18·2	69	+3	0·8	−0·5	11·6	0	5	18	3	0	0	0	0	2	16	2	8	0
	1130	,,	1012·7	997·4	..	31·4	21·0	14·0	16·0	37	..	0·7	..	23·6	0	20	11	6	8	0	0	0	0	9	8	0	0
	1730	,,	1008·3	993·2	..	35·1	21·3	10·9	13·0	26	..	0·8	..	22·2	0	19	10	7	5	0	0	0	0	11	6	2	0
Bhavnagar Aerodrome	0830	11	1012·5	1011·3	..	24·3	16·8	10·3	12·5	44	..	1·1	..	13·3	0	2	24	8	0	0	0	1	2	5	10	5	0
	1130	,,	1012·9	1011·7	..	31·4	19.4	9·9	12·2	29	..	1·4	..	18·0	0	7	24	8	13	4	2	0	1	0	3	0	0
	1730	,,	1008·3	1007·1	..	35·1	20·2	8·2	10·9	21	..	1·3	..	20·7	0	11	20	2	4	10	5	6	0	0	4	0	0
Bhavnagar	0830	17	1012·8	1010·9	+0·2	25·0	18·1	12·9	14·9	49	+2	0 9	−0·3	4·0	0	0	30	4	1	0	0	0	3	3	19	1	0
	1730	,,	1008·2	1006·4	..	36·0	22·4	13·1	15·1	28	..	1·8	..	11·8	0	3	27	1	2	8	9	4	0	2	4	1	0
Porbander Aerodrome	0830	7	1012·8	1012·0	..	24·7	20·5	17·9	20·5	68	..	1·3	..	14·1	0	6	25	9	1	1	2	1	1	1	15	0	0
	1130	,,	1013·2	1012·4	..	31·7	22·4	16·3	18·5	44	..	0·9	..	19·1	0	13	16	11	2	0	0	0	3	8	5	2	0
	1730	,,	1009·7	1008·9	..	30·6	23·1	18·7	21·6	53	..	1·0	..	26·8	0	26	5	2	0	0	0	0	0	24	5	0	0
Porbander	0830	7	1012.9	1012 1	+0·4	22·4	19·5	17·1	19·5	73	−1	2.7	+1·6	6·9	0	0	31	12	2	1	0	0	0	1	15	0	0
	1730	,,	1010·1	1009·3	..	29·0	22·3	18.8	21·7	55	..	2·2	..	21.4	0	15	16	1	0	0	0	0	0	16	14	0	0
Keshod	0830	51	1013·1	1007·2	..	22·5	16·9	11·8	13·8	56	..	1·3	..	9·1	0	1	27	5	15	2	0	0	2	1	2	3	0
	1130	,,	1013·1	1007·4	..	32·0	18·4	6·1	9·4	23	..	0·6	..	19·3	0	13	18	13	7	0	0	0	0	5	6	0	0
	1730	,,	1009·2	1003·6	..	34·4	19·4	5·9	9·3	21	..	0·7	..	31·2	0	29	2	5	1	0	0	0	3	19	3	0	0
Mahuva	0830	9	1012·0	1011 0	..	24·1	17.1	11·2	13·3	48	..	1·1	..	8·0	0	0	30	16	0	1	1	2	3	0	7	1	0
	1730	,,	1008.5	1007·5	..	31·5	21·4	14·5	16·5	40	..	1·0	..	11·8	0	2	29	2	0	4	8	12	5	0	0	0	0
Veraval	0230	8	1010·7	1009·8	..	21.3	17 3	13·9	15·9	68	..	0·7	..	10·7	0	3	26	19	1	0	0	0	0	1	8	2	0
	0530	,,	1010·3	1009·4	..	19 9	15.9	12·3	14·3	66	..	0·5	..	9·8	0	0	27	19	2	0	0	0	0	0	6	4	0
	0830	,,	1012.5	1011.6	−0 2	22·3	17·4	13·4	15.4	62	−1	1·9	+0·8	7·5	0	2	25	22	1	0	0	0	0	0	4	4	0
	1130	,,	1013·0	1012·1	..	31.0	21·1	13·0	15·0	44	..	1·1	..	15·1	0	8	23	9	2	0	0	0	2	11	7	0	0
	1730	,,	1009·5	1008·6	..	26 9	23·5	21·8	26·1	74	..	1·1	..	20 2	0	15	16	0	0	0	0	0	4	12	15	0	0
	2330	,,	1011·8	1010·9	..	23·6	19 6	16·6	18·9	69	..	0·5	..	11·4	0	2	27	11	1	0	0	0	0	3	14	2	0
Konkan																											
Dahanu	0830	5	1012·0	1011·5	+0·2	24·3	19·6	16·6	18·9	63	−7	1·9	+0.2	7·8	0	3	20	4	2	4	11	2	0	0	0	8	0
	1730	,,	1008·7	1008·2	..	28·8	22·9	19·8	23·1	59	..	1·4	..	16·8	0	7	24	12	0	0	0	0	0	11	8	0	0
Bombay (Santacruz)	0230	15	1010·2	1008·5	..	22·7	21·0	20·0	23·4	85	..	0·7	..	3·8	0	0	17	6	5	1	0	0	1	1	3	14	0
	0530	,,	1010·0	1008·3	..	21 4	19·8	18·9	21·8	86	..	0·7	..	3·3	0	0	18	3	9	4	0	1	0	0	1	13	0
	0830	,,	1012·1	1010·4	0·3	25·2	21·0	18.4	21·1	67	−3	1·2	−0·1	3 5	0	0	17	4	3	4	4	1	0	0	1	14	0
	1130	,,	1012·3	1010·6	..	31 0	22·3	16·9	19·3	46	..	0·8	..	12·1	0	0	31	4	1	1	1	2	2	9	11	0	0
	1730	,,	1008·9	1007·3	..	29 5	22·4	18·3	21·0	53	..	1·0	..	16·8	0	3	28	1	0	0	0	0	2	6	22	0	0
	2330	,,	1011.5	1009 8	..	23·9	21·2	19·6	22·8	78	..	0·4	..	5·0	0	0	18	6	2	0	0	1	1	0	8	13	0
Bombay	0830	11	1012·2	1011·	−0·1	25 3	22·3	20·6	24·3	76	+3	1·6	+0·3	5 2	0	0	26	8	5	6	6	0	0	0	1	5	0
	1130	,,	1012·5	1011·3	..	30·0	23·7	20·4	24·0	57	..	1·0	..	8·9	0	1	29	3	2	1	3	3	2	3	13	1	0
	1730	,,	1009·0	1007·8	..	29·1	23·9	21·3	25·3	64	..	1·1	..	13 1	0	5	26	2	0	0	0	0	2	9	18	0	0
Alibag	0830	7	1012·1	1011.3	+0·1	24·1	21·1	19·3	22·4	75	+10	0·4	−0·9	3·3	0	0	23	6	4	9	4	0	0	0	0	8	0
Harnai	0830	20	1012·0	1009·7	+0·7	26 1	22·0	19·7	22·9	69	0	2·5	+1·2	7·5	0	3	21	7	6	2	4	2	0	1	2	7	0
	1730	,,	1009·0	1006·7	..	27·6	24 7	23·4	28·8	78	..	2·5	..	25·4	0	18	13	1	0	0	0	1	3	9	17	0	0
Ratnagiri	0830	35	1012·2	1008·2	+0·4	25 4	23·0	21·8	26·1	81	..	2·4	..	..	..	..	..	0	6	21	0	0	0	2	2	0	0
	1730	,,	1009·1	1005·1	..	29·3	24·9	22·8	27·7	68	..	3·2	..	..	..	..	..	0	0	0	0	0	0	29	2	0	0
Devgad	0830	36	1012·1	1008·1	+0·5	25·7	23·8	22·9	27·9	84	+7	2·5	+0·2	7·1	0	0	31	3	6	15	5	1	1	0	0	0	0
	1730	,,	1009·0	1005·0	..	29·5	26·2	24·8	31·3	76	..	2·0	..	20·2	0	13	18	0	0	0	0	0	0	13	18	0	0
Vengurla	0230	9	1010·1	1009·1	..	23·3	22·3	21·7	25·9	91	..	0·5	..	0·4	0	0	3	3	0	0	0	0	0	0	0	28	0
	0530	,,	1010·1	1009·1	..	22·5	21·7	21·3	25·3	93	..	0·6	..	0·6	0	0	4	3	0	1	0	0	0	0	0	27	0
	0830	,,	1012·6	1011·6	+0·6	24 9	22·9	21·9	26·3	84	+9	2·3	+0·5	1·5	0	0	10	1	1	6	2	0	0	0	0	21	0
	1130	,,	1012·7	1011·7	..	30 4	24·7	21·9	26·3	61	..	1·2	..	5·6	0	0	30	0	0	0	1	1	20	7	1	1	0
	1730	,,	1009·1	1008·1	..	29 4	24·9	22·9	27·9	68	..	1·6	..	7·6	0	0	31	1	0	0	0	0	8	15	7	0	0
	2330	,,	1011·6	1010.6	..	24 8	23·1	22·3	26·9	86	..	0·4	..	1·0	0	0	6	5	0	0	0	0	0	0	1	25	0
Madhya Maharashtra																											
Nandurbar	0830	206	1012·0	988·7	.	26·7	17·5	9·4	11·8	38	..	0·2	..	9·1	0	0	25	0	1	7	0	1	5	10	1	6	0
	1730	,,	1006·8	984·3	..	36·9	20·4	7·0	10·0	18	..	0·1	..	9·5	0	0	28	3	0	0	0	2	2	14	7	3	0
Jalgaon	0830	201	1012·1	989·2	+0.5	23.7	13·9	2·6	7·4	27	−11	0·7	−0·4	10 0	0	4	22	1	1	7	1	1	5	9	1	5	0
	1730	,,	1006·1	984·3	..	38·3	18·5	—3.0	4·8	8	..	1·1	..	17·4	0	13	18	1	0	2	1	2	4	14	7	0	0
Malegaon	0830	437	1012·4	963·0	−0·2	22·0	12·5	0·8	6·5	26	−14	0.8	−0.3	4·7	0	0	23	1	0	0	1	0	3	12	6	8	0
	1730	,,	1005·2	958·5	..	37·1	17·9	—3·7	4·5	8	..	1·4	..	13·8	0	4	26	9	6	0	0	1	2	6	6	1	0
Deolali Aerodrome	0830	571	1013·2	949·3	..	22·7	15·6	10·2	12·4	46	..	1·1	..	3·9	0	0	21	3	0	1	1	6	8	1	1	10	0
	1730	,,	1006·7	945·7	..	34·8	19·6	8·6	11·2	21	..	1·1	..	14·1 (g)	0	1	29	1	1	0	1	0	9	7	12	8	0
Ahmadnagar	0830	657	1011·8	939·2	−0·1	23·5	13·9	4.8	8·6	31	+1	1·1	+0·3	4·7 (f)	0	0	20	5	0	1	3	1	0	0	11	10	0
	1730	,,	1004·3	934·9	..	36·0	18·5	4·4	8·4	15	..	1·8	..	5 8	0	0	22	2	2	0	1	1	1	5	14	5	0

(g) Mean of 24 days.

(f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h.): Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra																											
Poona (Aerodrome)	0230	593	1010·5	944·1	..	21·1	14·9	10·0	12·3	50	..	0·6	..	2·6	0	0	16	0	1	0	0	0	0	14	1	15	0
	0530	"	1011·0	944·1	..	19·1	13·6	8·8	11·3	54	..	0·7	..	3·9	0	0	21	0	0	0	0	0	0	14	7	10	0
	0830	"	1012·2	946·2	..	23·4	15·4	8·8	11·3	41	..	1·1	..	5·4	0	0	22	0	1	0	0	0	0	13	8	9	0
	1130	"	1009·9	946·1	..	32·9	17·4	4·0	8·1	17	..	1·0	..	11·5	0	4	26	2	3	11	3	1	0	4	6	1	0
	1730	"	1005·7	942·2	..	34·8	18·2	4·7	8·5	17	..	1·7	..	26·6	0	23	7	0	0	1	1	0	0	12	16	1	0
	2330	"	1011·0	944·5	..	24·0	16·7	11·4	13·5	47	..	0·6	..	7·3	0	0	26	0	0	0	0	0	0	16	10	5	0
Poona	0530	559	1010·7	947·6	..	18·9	14·8	11·7	13·7	64	..	0·2	..	0·4	0	0	2	0	0	0	0	0	1	1	0	29	0
	0830	"	1012·4	949·8	0	22·1	16·1	11·8	13·8	53	−1	0·6	−0·2	0·9	0	0	4	0	0	0	0	0	1	1	2	27	0
	1130	"	1009·8	949·6	..	33·4	18·6	7·7	10·5	21	..	0·7	..	4·2	0	0	18	5	3	1	3	0	1	0	5	13	0
	1730	"	1005·2	945·6	..	35·3	19·9	9·3	11·7	21	..	1·5	..	7·0	0	0	25	3	2	0	0	1	0	6	13	6	0
	2330	"	1010·7	948·8	..	24·7	18·0	13·6	15·6	51	..	0·3	..	1·5	0	0	8	1	0	0	0	1	2	4	0	23	0
Jeur	0830	521	1011·8	953·9	+0·3	24·5	15·7	8·3	10·9	37	−5	1·0	−0·2	4·8	0	0	19	2	0	2	0	2	0	5	8	12	0
	1730	"	1004·3	949·1	..	37·2	20·1	7·5	10·4	18	..	3·1	..	10·0	0	2	28	4	4	2	3	0	4	4	9	1	0
Baramati	0830	551	1011·9	950·7	−0·2	24·1	16·3	10·2	12·4	43	−2	0·2	−0·9	5·2	0	0	25	7	0	0	0	2	2	5	9	6	0
	1730	"	1004·6	946·1	..	36·5	20·8	10·2	12·4	22	..	1·1	..	10·8	0	1	26	6	0	2	1	2	4	4	8	4	0
Sholapur	0530	479	1010·0	956·4	..	23·1	16·8	12·4	14·4	51	..	1·0	..	4·9	0	0	22	6	1	2	1	4	2	0	6	9	0
	0830	"	1011·6	958·6	+0·4	26·5	18·9	14·1	16·1	47	+12	1·0	0	8·7	0	0	30	10	5	0	6	3	1	1	4	1	0
	1130	"	1009·8	958·2	..	34·7	23·8	18·3	21·0	39	..	1·0	..	13·2	0	2	29	8	5	2	1	7	6	0	2	0	0
	1730	"	1004·6	953·7	..	37·4	24·6	18·3	21·0	34	..	2·1	..	8·4	0	0	29	5	4	1	4	3	1	2	9	2	0
	2330	"	1009·4	956·7	..	28·3	19·7	14·5	16·5	44	..	1·9	..	9.5	0	0	30	5	3	3	9	1	2	3	4	1	0
Miraj	0830	554	1012·0	950·5	+0·2	23·3	18·1	14·7	16·7	58	+6	0·9	−0·1	..	..	..	..	0	2	1	1	0	0	3	4	20	0
	1730	"	1004·2	945·7		36·9	21·1	10·6	12·8	22	..	2·8	..	..	..	..	..	3	0	7	4	0	3	10	0	4	0
Kolhapur	0530	570	1010·5	946·5	..	19·9	16·8	14·8	16·8	74	..	0·6	..	3·5	0	0	18	0	1	3	0	0	1	12	1	13	0
	0830	"	1011·9	948·6	+0·1	23·4	18·1	14·6	16·6	60	+4	0·6	−0·3	4·9	0	0	21	0	5	3	0	0	1	10	2	10	0
	1130	"	1009·6	948·4	..	33·3	18·8	8·2	10·9	22	..	0·5	..	10·3	0	1	30	1	10	8	1	5	0	4	2	0	0
	1730	"	1005·2	944·4	..	33·9	21·2	13·3	15·3	31	..	1·5	..	20·2	0	17	14	0	1	1	2	1	3	22	1	0	0
	2330	"	1010·7	947·5	.	23·9	19·7	17·3	19·7	68	..	0·6	.	10·3	0	0	30	1	0	0	0	0	3	23	3	1	0
Marathwada																											
Aurangabad	0830	581	1011·8	947·9	0	26·9	15·6	5·8	9·2	27	−5	1·3	+0·2	4·0	0	0	20	5	2	7	0	1	3	1	1	11	0
	1730	"	1005·4	943·6	..	35·7	19·3	6·8	9·9	18	..	2·1	..	8·3	0	3	25	8	0	2	0	1	0	10	7	3	0
Aurangabad [Chikalthan]	0230	579	1009·7	945·2	..	22·5	14·2	6·8	9·9	37	..	0·2	..	5·2	0	0	16	3	0	2	0	0	0	6	5	15	0
	0530	"	1010·4	945·2	..	19·3	12·2	5·3	8·9	40	..	0·5	..	4·8	0	0	15	2	1	0	0	0	0	5	7	16	0
	0830	"	1011·2	947·4	..	26·5	16·6	9·1	11·5	34	..	0·6	..	5·2	0	0	16	3	2	1	0	0	0	5	5	15	0
	1130	"	1009·8	947.4	..	33·2	19·6	10·3	12·5	26	..	0·6	..	10·5	0	0	27	3	2	4	4	2	2	6	4	4	0
	1730	"	1004·9	943·3	..	35·5	20·4	10·2	12·4	23	..	1·7	..	10·9	0	2	23	8	0	0	1	0	1	2	13	6	0
	2830	"	1010·1	946·0	.	24·8	15·4	7·7	10·5	35	..	0·6	..	8·3	0	1	23	8	0	2	1	0	0	8	5	7	0
Parbhani	0830	423	1012·3	965·2	+0·7	26·9	15·0	2·5	7·3	24	−16	0·7	−0·5	7·2	0	0	30	2	1	3	2	2	3	10	7	1	0
	1730	"	1005·5	960·2	..	36·8	18·9	−0·4	5·9	12	..	2·1	..	11·1	0	1	29	3	0	5	3	2	1	6	10	1	0
Nander	0830	358	1011·7	971·5	..	25·5	18·1	12·2	14·2	45	..	0	.	1·8	0	0	14	1	0	0	3	2	3	5	0	17	0
	1730	"	1005·8	967·5	..	37·9	25·5	18·5	21·3	34	..	0·5	..	1·7	0	0	16	1	3	0	2	0	5	5	0	15	0
Bir (R)	0830	519																									
(R)	1730	"																									
Vidarbha																											
Gondia	0830	313	1012·0	976·9	−0·1	25·5	16·5	7·7	11·5	34	−13	0·8	−07	2·1	0	0	20	3	2	0	6	1	5	0	3	11	0
	1730	"	1006·2	972·3	..	35·5	18·5	2·1	7·9	13	..	2·0	..	1·7	0	0	21	2	3	0	1	0	8	0	3	10	4
Nagpur Sonegaon	0230	310	1008·5	973·5	..	23·4	14·0	3·6	8·4	29	..	0·7	..	5·6	0	1	21	9	3	1	0	0	1	1	7	9	0
	0530	"	1009·5	974·1	..	21·2	13·7	3·2	9·6	36	..	1·2	..	3·8	0	0	16	3	2	2	0	0	1	0	8	15	0
	0830	"	1011·6	976·9	+0·1	26·8	15·6	4·4	8·6	25	−13	0·8	−0·6	4·0	0	0	23	5	6	4	2	1	0	0	5	8	0
	1130	"	1010·2	976·4	..	34·4	18·7	4·2	8·7	16	..	1·3	..	9·7	0	0	29	2	3	7	4	3	4	2	4	2	0
	1730	"	1005·2	971·7		36·4	19·8	3·0	7·9	13	..	2·8	..	6·8	0	2	22	1	2	0	2	1	2	6	10	7	0
	2330	"	1009·3	974·6		26·2	15·3	3·8	8·6	26	..	1·1	..	6·4	0	0	26	4	4	2	1	2	1	4	8	5	0
Amraoti	0830	370	1011·2	970·0	−0·2	26·9	16·6	7·0	10·6	30	−2	0·7	−0·5	10·0	0	4	27	2	5	5	3	4	7	4	1	0	0
	1730	"	1004·8	965·1	..	36·1	19·9	6·2	10·2	18	..	2·2	..	6·5	0	0	31	3	1	1	1	5	5	11	4	0	0
Akola Aerodrome	0530	309	1009·1	974·0	..	22·1	12·5	0·2	6·8	26	..	0·8	..	3·5	0	0	27	0	2	5	1	3	1	15	0	4	0
	2330	"	1009·0	974·4	..	27·3	15·0	0·7	7·1	21	..	0·9	..	5·8	0	1	29	2	1	6	2	5	0	11	3	1	0
Akola	0830	282	1011·6	979·8	−0·2	24·9	14·8	4·2	8·7	28	−4	1·2	−0·1	1·9	0	0	22	0	1	9	1	0	1	7	5	9	0
	1130	"	1010·2	979·4	..	34·3	19·0	5·1	9·6	18	..	1·2	..	4·6	0	0	30	4	1	10	1	0	0	11	3	1	0
	1730	"	1005·2	974·9	.	37·6	19·5	3·9	8·0	14	..	1·7	..	2·7	0	0	19	2	0	0	0	0	0	16	1	12	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*contd.*																											
Bramhapuri	0830	229	1011·8	985·9	..	25·8	17·7	11·5	13·7	42	..	0·6	..	1·8	0	0	15	3	3	1	3	3	1	0	1	16	0
	1730	"	1006·1	981·2	..	36·6	20·9	9·5	12.0	20	..	1·8	..	2·3	0	0	16	2	1	0	2	4	1	3	3	15	0
Buldhana	0830	650	1011·0	939·5	+0.2	25·7	15·0	5·8	9·6	29	−13	0·8	−0.6	3·2	0	0	24	0	0	0	1	0	1	0	22	7	0
	1730	"	1005·1	935·9	..	34·2	17·8	4·0	8·5	16	..	1·6	..	2·5	0	0	21	0	1	0	0	0	0	0	20	10	0
Yeotmal	0830	451	1011·6	961·6	+0.3	27·6	15·6	3·2	7·9	22	−16	0·6	−1.7	10.9	0	4	24	2	4	6	2	2	2	2	8	3	0
	1730	"	1005·4	957·1	..	35·9	18·7	1·3	7·6	14	..	2·0	..	10·2	0	5	25	5	3	1	3	2	2	9	5	1	0
Chanda	0830	193	1011·4	989·7	−0.3	27·7	17·6	9·0	11·9	33	−9	0·6	−0.6	4·2	0	0	30	4	1	6	5	5	4	1	4	1	0
	1730	"	1005·2	984·3	..	37·6	21·4	8·9	12·4	19	..	2·6	..	4.1	0	0	28	2	1	3	4	3	4	2	9	3	0
Pusad	0830	334	1012·3	975·0	..	27.1	17·3	9·3	11·9	33	..	0.2	..	2.2	0	0	17	0	4	0	0	0	5	1	7	14	0
	1730	"	1005.7	969.8	..	37.4	..	..	..	..	..	0.5	..	5.8	0	0	29	0	4	0	4	0	12	0	9	2	0
Sironcha	0830	123	1012·4	998·4	−0.1	27·5	21·9	18·6	21·7	59	+2	0·9	−0.8	1·8	0	0	16	0	1	1	11	3	0	0	0	15	0
	1730	"	1006·7	993·1	..	38·0	22·3	11·8	14·2	21	..	1·2	..	0·7	0	0	7	0	0	0	1	2	1	0	3	24	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1012·6	1011·8	+0·1	27·4	25·5	24·6	30·9	85	+10	2.4	+0·7	13·5	0	9	21	0	0	0	0	1	17	9	3	1	0
	1730	"	1009·3	1008·5	..	28·5	26·9	26·2	34·0	87	..	1·6	..	22·0	0	22	9	0	0	0	0	13	18	0	0	0	0
Visakhapatnam	0230	3	1009·7	1009·3	..	25·4	23·3	22·2	26·7	83	..	1·7	..	3·3	0	0	16	0	2	0	0	1	5	6	2	15	0
	0530	"	1010·3	1009·9	..	24·5	22·8	21·9	26·3	86	..	2·0	..	2·0	0	0	11	0	0	0	0	0	4	4	3	20	0
	0830	"	1012·8	1012·4	+0·3	27·8	23·6	21·5	25·6	69	−4	1·8	−0·5	10·6	0	23	4	0	0	0	0	0	18	9	0	4	0
	1130	"	1012·1	1011·7	..	32·0	24·1	20·0	23·4	50	..	0·9	..	16·5	0	11	20	0	0	0	2	12	17	0	0	0	0
	1730	"	1009·0	1008·6	..	28·9	24·1	21·7	25·9	65	..	1·9	..	16·8	0	21	10	0	0	0	3	10	18	0	0	0	0
	2330	"	1011.2	1010·8	..	26 3	23·7	22·5	27·3	80	..	2·0	..	5·7	0	1	16	0	0	0	1	1	11	4	0	14	0
Kakinada	0830	8	1013.3	1012·4	+0·6	28·1	24·3	22·5	27·3	72	−2	3 7	+1·0	8·8	0	0	31	0	0	0	0	0	31	0	0	0	0
	1730	"	1009·1	1008·2	..	30·9	24·9	21·9	26 3	59	..	0 5	..	13·9	0	0	31	0	0	0	27	0	4	0	0	0	0
Nidadavole	0830	12	1013·1	1011·7	..	26·9	24 2	22.9	27·9	79	..	6·1	..	3·9	0	0	30	0	4	9	4	1	8	3	1	1	0
	1730	"	1008·8	1007·4	..	30·6	24·6	21·6	25·8	59	..	2·3	..	6·4	0	0	31	0	0	6	3	16	10	1	1	0	0
Rentchintala	0830	106	1011·9	999·9	..	27·9	23·3	21·0	24·9	66	+4	1·8	−1·3	3·5	0	0	30	0	0	4	2	20	3	1	0	1	0
	1730	"	1006·5	995·0	..	37.4	22·7	13·4	15·4	25	..	1·3	..	3·4	0	0	30	2	2	7	11	7	1	0		1	0
Gannavaram	0230	24	1010·0	1007·2	..	24·3	23·0	22·4	27·1	89	..	2·3	..	5·8	0	1	19	0	1	1	6	9	3	0	0	11	0
	0530	"	1010·2	1007·5	..	24·0	23·0	22·5	27·3	91	..	3·5	..	4·5	0	0	19	1	0	4	8	5	1	0	0	12	0
	0830	"	1012.8	1010·1	+0.4	27·0	24.3	23·1	28·3	79	+3	4·6	+1.9	8.2	0	0	27	0	0	1	11	12	3	0	0	4	0
	1130	"	1012·4	1009·7	..	32·2	24·6	20·9	24·7	51	..	2·2	..	12·9	0	5	25	0	0	0	11	14	4	1	0	1	0
	1730	"	1008·5	1005·8	..	33·1	24·0	19·3	22·4	45	..	1.1	..	15·8	0	8	23	0	0	0	15	16	0	0	0	0	0
	2330	"	1011·4	1008·7	..	25·1	23 5	22·8	27·7	87	..	1·6	..	4·6	0	0	22	0	0	0	10	9	3	0	0	9	0
Nagarjunakonda	0830	..	..	..	..	29·0	23·9	21·4	25·5	64	..	0.8	..	9·8	0	5	22	2	3	1	8	6	3	0	4	4	0
	1730	..	..	..	..	37·4	24·6	17·7	20.2	32	..	1.8	..	17·2	0	10	21	5	2	1	19	3	0	0	1	0	0
Masulipatam	0830	3	1012·7	1012·4	+0·3	27·9	24·7	23·2	28·4	76	−3	3·5	+1.2	4·3	0	0	30	0	0	0	3	25	2	0	0	1	0
	1730	"	1009·1	1008·8	..	28·2	25·0	23·5	28·9	76	..	1·1	..	4.1	0	0	31	0	0	0	9	22	0	0	0	0	0
Ongole	0830	12	1012·3	1011·0	..	27·7	25·2	24·0	29·8	80	..	3·7	..	4·9	0	0	31	0	1	1	19	8	2	0	0	0	0
	1730	"	1008·3	1007·0	..	29·7	25·9	24·2	30·2	73	..	2.5	..	5·4	0	0	31	0	0	6	23	2	0	0	0	0	0
Nellore	0530	20	1009·6	1007·4	..	23·7	23·1	22·8	27·7	95	..	1·0	..	3·3	0	0	17	0	0	1	10	6	0	0	0	14	0
	0830	"	1012·1	1009·9	+0.2	27·5	24·2	22·6	27.4	75	−3	1·6	−0·5	10·2	0	0	29	0	0	2	17	10	0	0	0	2	0
	1130	"	1011.7	1009·5	..	32·8	24·9	21·2	25.2	51	..	1·5	..	11·2	0	3	28	0	0	4	17	9	1	0	0	0	0
	1730	"	1008·4	1006·2	..	30·3	25·3	23·0	28·1	66	..	1·5	..	13·3	0	2	29	0	1	10	20	0	0	0	0	0	0
	2330	"	1011·0	1008·8	..	25·5	24·2	23·5	28·9	89	..	0·5	..	6·4	0	0	30	0	0	7	19	4	0	0	0	1	0
Telangana																											
Ramgundam	0830	156	1011·5	994·0	+1.5	28·8	21·6	17·2	19·6	51	−2	1·0	−0·9	4·8	0	1	26	1	3	3	11	3	4	2	0	4	0
	1730	"	1005·9	988·9	..	37·8	21·4	9·4	11·8	19	..	1·9	..	5·2	0	0	30	2	1	2	9	11	0	4	1	1	0
Nizamabad	0830	381	1011·4	969·2	0	28·4	17·4	7·5	10·4	29	−15	0·6	−0.6	1·0	0	0	12	2	1	2	0	1	1	2	3	19	0
	1730	"	1005·4	964·5	..	37·1	19·8	5·1	8·8	15	..	1·5	..	1·2	0	0	12	0	3	4	1	0	0	0	4	19	0
Hanamkonda	0830	269	1012·0	981·9	0	26·2	23·1	21·4	25·5	75	+13	1·7	−0.3	2·1	0	0	26	0	0	0	10	14	2	0	0	5	0
	1730	"	1006.8	977·6	..	36·1	23·8	16·8	19·1	33	..	0·8	..	1·7	0	0	19	0	0	0	9	8	1	1	0	12	0
Hakimpet Aerodrome	0530	613	1009·6	941·7	..	23·0	19·3	17·2	19·6	72	..	1·6	..	6·0	0	1	28	2	1	3	12	3	4	1	3	2	0
	0830	"	1010·9	943·6	..	26·0	20·7	17·8	20·4	63	..	1·3	..	7·8	0	0	29	3	0	5	10	1	7	2	1	2	0
	1130	"	1009·7	943·7	..	32·1	21·8	16·0	18·2	40	..	1·1	..	10·8	0	1	30	2	3	3	8	5	7	1	2	0	0
	1730	"	1006·0	940·6	..	33·6	21·8	14·9	16·9	35	..	2·1	..	9·6	0	1	29	4	2	2	15	1	2	1	3	1	0
Bhadrachallam	0830	111	1012·7	1000·1	−0·1	26·8	23·3	21·6	25·8	74	+2	3·9	+1.0	4.4	0	0	30	0	3	5	6	2	5	3	1	1	0
	1730	"	1006·9	994·9	..	35·9	22·8	18·2	20·9	30	..	1·6	..	3·2	0	0	31	4	3	0	10	8	2	0	4	0	0
Hyderabad (Begampet)	0230	545	1009·0	948·6	..	23·7	17·7	13·7	15·7	55	..	1·4	..	3·9	0	0	20	1	2	8	8	1	0	0	0	11	0
	0530	"	1009·7	949·0	..	22·0	17·4	14·3	16·3	62	..	1·2	..	3·2	0	0	15	3	1	5	5	0	0	0	1	16	0
	0830	"	1011.5	951.5	+0·5	26.1	19.5	15.3	17.4	54	−3	1·3	−0.1	7.0	0	17	7	0	3	5	6	3	2	1	4	7	0
	1130	"	1010·0	951·3	..	33·1	19.3	9.4	11.8	26	..	1.0	..	10.0	0	2	29	2	4	3	4	6	5	1	2	0	1

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*contd.* Hyderabad (Begampeth)—*contd.*	1730	545	1005·5	947·5	..	34·5	18·9	6·8	9·9	20	..	2·1	..	13·8	0	23	8	4	0	5	14	2	1	2	3	0	0
	2330	,,	1009·8	949·9	..	26·9	18·2	12·3	14·3	41	..	1·7	..	7·0	0	1	22	0	0	8	14	1	0	0	0	8	0
Khammam	0330	112	1012·4	999·7	..	26·8	24·0	22·8	27·7	79	..	4·2	..	5·4	0	0	29	0	[illegible]	3	17	9	0	0	0	2	0
	1730	,,	1007·2	994·9	..	36·1	23·9	17·2	19·6	33	..	1·9	..	5·1	0	0	30	0	0	5	13	10	1	1	0	1	0
Mahbubnagar	0830	505	1010·9	955·4	..	28·3	19·5	14·0	16·0	43	..	0·7	..	3·9	0	0	27	2	3	11	5	5	0	0	1	4	0
	1730	,,	1005·1	951·2	..	35·7	19·5	7·8	10·6	19	..	1·2	..	6·8	0	2	27	0	1	15	5	5	2	0	1	2	0
Rayalaseema Kurnool	0330	231	1011·6	980·1	+0·3	27·7	20·9	16·6	18·9	52	+3	0·6	—0.4	2·3	0	0	17	1	0	1	6	2	4	3	0	14	0
	1730	,,	1005·2	975·4	..	37·7	22·1	11·5	13·6	22	..	1·2	..	2·5	0	0	21	0	0	7	8	0	2	4	0	10	0
Anantapur	0530	350	1009·5	970·1	..	24·0	18·3	14·3	16·3	56	..	0·2	..	6·0	0	2	20	0	0	3	3	1	9	6	0	9	0
	0830	,,	1011·5	972·5	+0.3	27·1	20·2	15·7	17·8	50	+2	0·5	—0.5	9·9	0	4	23	0	0	1	4	2	14	6	0	4	0
	1130	,,	1010·1	971·9	..	33·6	20·7	11·5	13·6	27	..	0·6	..	10·1	0	2	29	0	0	4	8	4	11	3	1	0	0
	1730	,,	1005·1	967·6	..	37·0	20·2	6·4	9·6	16	..	1·4	..	10·1	0	6	24	0	8	12	7	0	2	1	0	1	0
	2330	,,	1009·4	970·7	..	29·2	18·3	9·5	11·0	0	..	0·5	..	12·8	0	10	20	3	1	11	9	3	1	2	0	1	0
Cuddapah	0830	130	1012·0	997·4	+0.5	29·7	25·0	22·8	27·7	67	+1·0	0·4	—0·8	2·5	0	0	16	0	0	12	4	0	0	0	0	15	0
	1730	,,	1006·6	992·4	..	36·9	27·7	23·7	29·3	48	..	1·4	..	6·5	0	0	25	0	3	21	1	0	0	0	0	6	0
Arogyavaram	0830	701	1012·2	935·0	..	23·7	19·4	16·9	19 3	67	..	2·4	..	4·8	0	0	25	0	2	1	3	15	2	2	0	6	0
	1730	,,	1005·9	931·5	..	32·6	18·9	9·1	11·5	24	..	2·7	..	9·2	0	1	29	4	4	12	6	3	1	0	0	1	0
Madras State Madras	0830	6	1012·8	1012·1	..	26·9	24·4	23·2	28·4	80	..	2·9	..	9·0	0	0	31	0	0	0	0	7	14	6	4	0	0
Madras (Minambakkam)	0230	16	1010·4	1008·6	..	24·7	23·4	22·7	27·6	89	..	1·5	..	4·4	0	0	25	0	0	1	5	12	4	1	2	6	0
	0530	,,	1010·7	1008·9	..	24·2	23·1	22·6	29·1	91	..	1·8	..	0·6	0	0	28	1	0	0	1	11	6	5	4	3	0
	0830	,,	1013·1	1011·3	+0·7	27·3	24·2	22·7	27 6	77	0	3·6	+1.5	10·7	0	1	30	2	0	2	0	11	10	2	4	0	0
	1130	,,	1012·3	1010·6	..	31·8	24·5	21·1	25·0	53	..	2·8	..	12·8	0	4	26	1	0	7	4	10	7	0	1	1	0
	1730	,,	1009·3	1007·6	..	29·7	24·8	22·5	27·3	66	..	1·6	..	15·9	0	8	23	0	0	12	14	3	1	0	0	0	1
	2330	,,	1012·0	1010·2	..	25.7	23·9	23·0	28·1	85	..	0·9	..	7·1	0	0	28	0	0	1	14	12	1	0	0	3	0
Vellore	0530	214	1010·6	986·3	..	23·2	22·1	21·5	25·6	90	..	1·6	..	0·8	0	0	3	0	0	0	0	3	0	0	0	28	0
	0830	,,	1012·4	988·1	+0·3	25·6	22·5	20·8	24·6	75	..	2·0	+0·2	1·2	0	0	12	0	0	1	2	5	4	0	0	19	0
	1130	,,	1011·6	987·9	..	31·1	23·7	19·8	23·1	51	..	1·6	..	5·0	0	0	28	2	2	0	6	10	6	2	0	3	0
	1730	,,	1007·1	983·7	..	33·5	22·4	15·7	17·8	35	..	1·2	..	6·0	0	0	31	0	0	9	18	3	1	0	0	0	0
	2330	,,	1011·3	987·2	..	27·3	24·0	22·4	27·1	75	..	1·4	..	5·5	0	0	25	0	0	3	15	7	0	0	0	6	0
Tambaram Aerodrome	0830	29	1012·5	1009·3	..	27·3	25·4	24·6	30·9	85	..	4·1	..	11·7	0	0	31	1	1	0	1	6	14	2	5	0	1
	1730	,,	1008·8	1005 6	..	30·2	26·9	25·3	32·2	76	..	2·0	..	20·1	0	12	19	0	0	5	15	11	0	0	0	0	0
Tiruppattur	0830	390	1011·3	968·6	..	24·2	21·4	19·9	23·2	77	..	2·8	..	3·9	0	0	30	10	5	3	1	3	0	5	3	1	0
	1730	,,	1006·4	964·2	..	33·8	23·3	15·2	17·3	34	..	3·7	..	8·8	0	0	29	5	4	8	2	2	0	3	5	2	0
Cuddalore	0530	12	1010·5	1009·1	..	24·0	23·2	22·8	27·7	93	..	3·1	..	3·2	0	0	22	0	0	0	4	6	1	4	7	9	0
	0830	,,	1012·8	1011·4	+0·3	27·4	24·5	23·1	28·3	78	—2	4·3	+1·8	6·1	0	0	31	4	0	2	6	8	5	0	6	0	0
	1130	,,	1012·5	1011·1	..	30·2	25·2	22·8	27·7	65	..	4·0	..	9.2	0	1	30	0	4	9	16	1	1	0	0	0	0
	1730	,,	1008·9	1007·6	..	28.8	24·9	23·2	28·4	72	..	2·6	..	10·6	0	1	30	0	3	8	20	0	0	0	0	0	0
	2330	,,	1011·7	1010·3	..	26.7	24·5	23·4	28·8	82	..	2·6	..	6·9	0	0	28	0	1	7	16	4	0	0	0	3	0
Kallakkurichi	0830	127	1012·3	998·3	..	26.8	23·9	22·5	29·7	77	..	2·2	..	3·4	0	0	19	1	0	0	7	9	0	0	2	12	0
	1730	,,	1007.2	993·4	..	34.6	24·9	20·1	23·5	43	..	1·7	..	10·3	0	0	31	0	5	17	9	0	0	0	0	0	0
Salem	0530	273	1010·7	979·2	+0·3	23.8	21·3	19·0	22·0	80	..	1·4	..	3·4	0	0	23	0	10	12	0	1	0	0	0	8	0
	0830	,,	1012·4	981·3	+0.3	27.1	22·3	19·8	23·1	64	—6	1·7	+0.2	3·8	0	0	25	0	5	15	0	5	0	0	0	6	0
	1130	,,	1010·9	980·3	..	32.4	22·7	17·3	19·7	41	..	2·4	..	6·8	0	0	28	1	3	7	0	10	3	4	0	3	0
	1730	,,	1006·0	975·9	..	35.4	22·1	13·7	15·7	28	..	2·8	..	8·4	0	0	28	0	3	21	2	1	0	1	0	3	0
	2330	,,	1010·9	979·9	..	27.6	22·9	20·5	24·1	65	..	1·2	..	10.8	0	3	27	0	8	20	0	2	0	0	0	1	0
Coimbatore (Pilamedu)	0530	399	1011·0	966·0	..	22·4	21·2	20·5	24·1	90	..	2·2	..	7·6	0	0	29	3	8	2	0	5	8	2	0	2	1
	0830	,,	1012·7	968·1	..	25·3	22.6	21·1	25·0	78	..	2·0	..	10·3	0	4	26	4	6	5	0	6	5	4	0	1	0
	1130	,,	1011·2	967·5	..	30·5	23·5	19·8	23·1	53	.	2·4	..	11·4	0	3	27	0	7	9	1	4	3	1	0	1	5
	1730	,,	1006·2	963·2	..	33·9	22·6	15·6	17·7	35	..	2·2	..	17·5	0	12	19	1	7	14	0	3	6	0	0	0	0
	2330	,,	1011·2	966·7	..	25·5	22·4	20·7	24·4	76	..	1.1	..	17·4	0	11	20	1	3	6	2	10	9	0	0	0	0
Coimbatore	0830	409	1012·5	967·0	+0.5	25·5	22·1	20·4	24·0	74	..	2·1	—0·5	10·4	0	0	31	0	8	7	2	7	6	1	0	0	0
	1730	,,	1006·1	962.1	..	34·2	22·2	14·6	16·6	32	..	2·5	..	12·8	0	1	30	0	5	8	2	8	8	0	0	0	0
Nagapattinam	0830	9	1012·8	1011·7	+0·6	28·3	24·7	23·0	28·1	73	—2	3·1	—0·4	10·9	0	2	28	2	5	3	8	5	5	0	2	1	0
	1730	,,	1009.1	1008·0	..	29.1	25.4	23.7	29.3	73	..	2.8	..	21.9	0	22	9	1	7	7	14	2	0	0	0	0	0
Tiruchirappalli	0230	88	1010·5	1000·5	..	25·1	23.2	22·2	26·7	84	..	1·5	..	6·8	0	0	27	0	4	9	5	6	2	0	1	4	0
	0530	,,	1010·8	1000·8	..	24·2	22·8	22·1	26·6	88	..	1·5	..	4·7	0	0	20	1	4	6	3	4	2	0	0	11	0
	0830	,,	1012.9	1003·0	+0.3	27·4	23·8	22·0	26·4	72	—5	1·8	—0·5	9·2	0	0	31	1	9	3	4	6	3	3	2	0	0
	1130	,,	1011·9	1002·1	..	31·9	24·2	20·3	23·8	51	..	2·3	..	9·6	0	0	29	0	8	5	6	1	3	5	1	2	0
	1730	,,	1007·8	998.1	..	34.2	24·0	18.6	21·4	40	..	2·1	..	14.8	0	9	22	0	11	8	11	0	1	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Tiruchirapalli—*contd.*	2330	88	1011·9	1001·9	..	26·4	23·7	22·4	27·1	79	..	1·1	..	13·9	0	3	27	0	2	12	8	7	1	0	0	1	0
Vedaranniyam	0830	4	1012·8	1012·3	..	28·9	25·5	24·0	29·8	75	..	3·8	..	8·4	0	0	31	2	6	2	19	1	1	0	0	0	0
	1730	,,	1009·1	1008·6	..	29.3	25·7	24·2	30·2	74	..	3·1	..	10·2	0	1	30	1	8	13	15	4	0	0	0	0	0
Atirampattinam	0830	6	1012·3	1011·6	..	28·1	24·8	23·3	28·6	75	..	3·3	..	8·6	0	0	31	9	1	2	3	3	4	1	5	0	0
	1730	,,	1008.9	1008.1	..	30·9	25·1	22·9	27·9	66	..	2·1	..	18·7	0	10	21	0	4	8	6	12	1	0	0	0	0
Madurai	0830	133	1012·3	997.3	+0·1	27·5	24·1	22·5	27·3	74	+5	5·5	+2·1	3·7	0	0	26	4	13	0	2	0	1	0	5	5	0
	1730	,,	1007·2	992·6	..	33·9	23·5	17·8	20·4	39	..	5·8	..	8·0	0	0	31	0	11	8	10	1	1	0	0	0	0
Madurai Aerodrome	0530	131	1010·4	995·4	..	23·7	22·8	22·4	27.1	92	..	2·6	..	2·9	0	0	26	1	10	5	3	1	0	0	0	11	0
	0830	,,	1012·4	997·5	..	27·5	24·0	22·3	26·9	73	..	2.6	..	5·6	0	6	24	3	13	6	2	0	0	0	0	7	0
	1130	,,	1011·5	996·9	..	31·3	24·1	20·1	23·5	50	..	3·1	..	5·8	0	1	20	1	11	6	2	1	0	0	0	10	0
	1730	,,	1007·2	992·8	..	34·1	23·2	16·9	19·3	37	..	3·3	..	9.4	0	2	27	0	2	21	6	0	0	0	0	2	0
Tondi	0830	5	1012·7	1012·1	..	28·4	25·7	24·5	30·7	80	..	4·1	..	3.9	0	0	20	2	6	3	6	0	1	1	1	11	0
	1730	,,	1008·9	1008·3		29·3	26·6	25·5	32·6	81	..	3·2	..	13·4	0	4	27	0	6	9	11	5	0	0	0	0	0
Pamban	0830	11	1012·0	1010 7	+0 1	27·9	25 5	24·4	30·5	81	+5	3·1	+0 5	4.8	0	0	26	1	6	3	4	7	5	0	0	5	0
	1730	,,	1009·1	1007·8	..	29·2	26·0	24·7	31·1	77	..	1·7	..	4 3	0	0	25	3	8	1	2	9	1	1	0	6	0
Tuticorin	0830	4	1012·3	1011·9	−0.3	27·1	25·3	24·1	30·0	79	+5	3·0	+0·5	12·7	0	7	24	11	6	2	1	1	2	3	5	0	0
	1730	,,	1008·6	1008 2	..	29·7	26·5	25·2	32·1	77	..	2·7	..	23 4	0	22	9	1	4	3	11	7	0	0	0	0	0
Palayamkottai	0830	51	1012·3	1006·6	+0.3	28·2	24·1	22·2	26·7	71	−2	2·9	−0·4	+1	0	0	27	19	2	0	0	6	0	0	6	4	0
	1730	,,	1008·1	1002·4	..	32·1	24.6	20·9	24·7	52	..	2·8	..	11·9	0	5	26	0	0	13	9	7	0	1	1	0	0
Kanniyakumari	0830	37	1011·7	1007·6	..	28·1	24·6	22·9	27·9	74	..	3·5	..	15·9	0	10	21	4	8	0	1	0	0	7	11	0	0
	1730	,,	1008·5	1004·4	..	29·6	25·6	23·8	29·5	71	..	3·9	..	19·0	0	17	14	0	1	10	2	0	8	8	2	0	0
Coastal Mysore																											
Karwar	0830	4	1012 2	1011·7	+0.3	25·8	23·5	22·5	27·3	82	+1	2·2	+0·4	3 0	0	0	25	2	6	14	0	0	0	0	3	6	0
	1730	,,	1009·2	1008·7	..	28·9	25·3	23·6	29·1	73	..	2·0	..	16 6	0	10	21	0	0	0	0	0	0	4	27	0	0
Honavar	0830	26	1012 4	1009·5	+0·2	25·3	23·1	21·9	26·3	81	+3	4·5	..	4·2	0	0	30	1	5	20	2	0	0	1	1	1	0
	1730	,,	1008·8	1005 9	..	29·8	25·1	22·9	27·9	66	..	3·0	..	8·1	0	1	30	0	0	0	0	0	16	12	3	0	0
Mangalore (Bajpe)	0230	102	1010·4	998 8	..	25·5	23·6	22·7	27·6	85	..	1·9	..	1·2	0	0	8	0	2	6	0	0	0	0	0	23	0
	0530	,,	1010·4	998·8	..	24·7	23·3	22·6	27·4	88	..	2·0	..	1·5	0	0	13	1	1	11	0	0	0	0	0	18	0
	0830	,,	1012·4	1000.9	..	27·2	24·0	22·4	27·1	76	..	2·0	..	4·1	0	0	26	1	3	19	2	1	0	0	0	5	0
	1130	,,	1011·8	1000·5	..	31·8	24·3	20·5	24·1	52	..	2·0	..	7·0	0	0	28	0	0	2	3	3	4	11	5	3	0
	1730	,,	1008·5	997·1	..	29·7	24·6	22·1	26·6	64	..	1·7	..	13·3	0	3	28	0	0	6	0	0	0	22	9	0	0
	2330	,,	1011·7	1000·2	..	26·4	24·0	22·9	27·9	81	..	1·4	..	2·2	0	0	14	2	0	0	0	0	0	2	10	17	0
Mangalore	0830	22	1012·4	1009 9	+0·5	28·5	24·5	22·7	27·6	71	−3	3·2	+1.4	3·2	0	0	31	4	7	16	3	0	0	1	0	0	0
	1730	,,	1008·5	1006.1	..	30·1	25·3	23·1	28·3	67	..	3.4	..	8·3	0	0	31	3	0	0	0	0	2	13	13	0	0
Interior Mysore (North)																											
Bidar	0830	664	1010.6	937·6	..	26·5	17 6	10·9	13·0	41	0	0·9	−0·9	13·9	0	10	21	1	4	0	2	0	13	0	11	0	0
	1730	,,	1004·1	933·9	..	35·0	19·5	8·5	11·1	21	..	3·4	..	13·4	0	7	24	0	5	0	8	1	2	1	14	0	0
Gulbarga	0830	458	1011·1	960 8	+0·4	29·8	17·6	7·7	10·5	28	−13	0·8	+0·1	7 9	0	0	29	6	8	2	7	2	1	2	1	2	0
	1730	,,	1004·5	955·8	..	37·3	19·4	5·6	10·0	15	..	2·8	..	10·7	0	0	30	3	4	3	5	6	1	3	5	1	0
Bijapur	0830	594	1011·7	946·1	+0·4	24·8	18·0	13·6	15·6	51	+4	1·0	+0·1	4·3	0	0	26	11	5	0	2	2	3	3	2	5	0
	1730	,,	1004·3	941·4	..	36·4	22·4	14·9	16·9	31	..	2.3	..	2·4	0	0	22	8	3	2	2	1	2	2	2	9	0
Raichur	0830	400	1011.0	996·5	−0.2	27·6	20·0	14·7	16·7	47	0	3.1	+2.1	8·1	0	1	29	4	2	1	9	1	4	5	4	1	0
	1730	,,	1004·7	962 2	..	37·0	21.6	10·8	12·9	22	..	3·0	..	6·2	0	0	29	0	17	1	9	0	1	0	1	2	0
Belgaum	0830	753	1012·2	929·4	+0·5	23·1	17·4	13·4	15·4	57	−3	0 6	−0·3	1·7	0	0	15	3	1	2	0	1	1	4	2	16	1
	1730	,,	1005·5	925·5	..	31·8	20·7	13·6	15·6	36	..	1·3	..	10·0	0	0	31	0	2	6	0	0	1	13	4	0	0
Belgaum (Samra)	0530	747	1011·1	928·0	..	19·5	15·7	12·9	14·9	68	..	0·9	..	2·7	0	0	15	1	1	4	2	1	0	5	1	16	0
	0830	,,	1011·8	930·0	..	24·4	17·1	11·8	13·8	49	..	0·8	..	2·5	0	0	14	0	6	3	0	0	1	4	0	17	0
	1130	,,	1009·7	929·9	..	31·8	17·3	4·9	8·7	20	..	0·5	..	9·0	0	0	28	4	9	4	2	3	1	2	0	3	3
	1730	,,	1005·4	926·2	..	32·6	19·9	11·1	13.2	30	..	2·1	..	16·4	0	13	16	0	1	6	3	0	1	16	2	2	0
Ga	0530	650	1010·2	938·2	..	22·7	19·2	17·1	19·5	73	..	0·5	..	7·7	0	1	24	1	0	1	4	1	7	11	0	6	0
	0830	,,	1011·7	940·4	+0·6	25·9	20·1	16·7	19·0	59	+2	0·4	−0·5	5·3	0	0	21	0	0	0	3	2	8	7	1	10	0
	1130	,,	1009·6	940·1	..	33·1	21·5	14.7	16·7	34	..	0·4	..	9·4	0	0	30	4	3	2	6	5	4	3	3	1	0
	1730	,,	1004·7	936.1	..	35·6	21·5	12·8	14·8	26	..	2·3	..	4·6	0	0	18	1	5	1	5	0	3	2	1	13	0
	2330	,,	1010·2	939·1	..	26·3	20·7	17·5	20·0	61	..	0·8	..	12·7	0	2	29	1	0	4	5	1	2	18	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1011·1	961·4	+0.2	27·4	22.5	19·8	23·1	64	+18	0·3	0.9	3·9	0	0	21	0	0	0	5	2	7	1	6	10	0
	1730	,,	1004·7	956·8	..	36·5	26·6	21·4	25·5	44	..	1·1	..	4·8	0	0	25	0	1	1	11	1	2	1	8	6	0
Chitradurga	0830	733	1011·0	931·1	+0·1	25·4	19·8	16·3	18·5	60	+10	0·5	−0·8	3·6	0	0	26	0	0	5	1	0	13	7	0	5	0
	1730	,,	1004·3	927.0	..	34·5	20·9	11·8	13·8	26	..	2·0	..	4·0	0	0	26	0	0	12	0	0	2	6	6	5	0

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Varbl.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*contd.*																											
Shimoga	0830	571	1012·2	948·7	+0·2	23·3	20·0	18·2	20·9	73	—4	7·5	+4·9	3.2	0	0	25	0	1	1	2	8	11	2	0	6	0
	1730	,,	1004·3	943·6	..	33·6	21.7	14·0	16·0	34	..	7·3	..	6.5	0	0	27	2	6	4	2	5	6	1	1	4	0
Balehonnur	0830	..	..		..	19·5	17·7	16·3	18.5	84	+5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan.	0830	960	1523·6	907.5	..	21·5	18.5	16.4	18·6	75	+10	1.0	—0·5	2.1	0	0	30	4	0	0	4	2	10	10	0	1	0
	1730	,,	1507·1	903·9	..	32·0	19·1	10·2	12·4	28	..	2·9	..	2·9	0	0	29	1	4	7	6	0	5	6	0	2	0
Bangalore	0230	921	1506·2	909·7	..	21·8	18·2	15·9	18·1	70	..	0·7	..	8·1	0	0	29	0	0	10	12	1	4	2	0	2	0
	0830	,,	1529 5	911·9	+0·5	23·1	19·5	17·4	19·9	71	+7	2·3	+0·9	9·1	0	0	31	0	0	5	7	1	9	9	0	0	0
	1130	,,	1540·7	911·7	..	29·6	19·7	13·6	15·6	39	..	1·9	..	10·0	0	2	27	0	0	9	4	1	6	7	2	2	0
	1730	,,	1509·9	908·1	..	31·6	18·8	9·9	12·0	27	..	3·1	..	9·5	0	0	30	1	3	16	6	1	0	0	3	1	0
Bangalore Aerodrome	0530	897	1503·4	912·4	..	20·1	18·4	17·5	20·0	86	..	1·4	..	6·0	0	0	22	0	0	7	2	6	5	2	0	9	0
	0830	,,	1529·2	914 6	..	23·2	20·4	18·9	21·7	77	..	1.5	..	10·2	0	0	25	0	0	6	6	1	7	5	0	6	0
	1130	,,	1540 9	914·6	..	30·0	21·3	16.4	18·6	45	..	1·8	..	13·6	0	5	23	0	1	10	4	3	3	7	0	3	0
	1730	,,	1511·2	910·6	..	32·2	20·1	12·4	14·4	31	..	3·1	..	12·2	0	8	16	0	3	15	4	1	0	0	0	7	1
	2330	,,	1524·1	913·7	..	24·2	18·9	15·6	17·7	60	..	1·5	..	9 9	0	1	25	0	1	19	4	1	1	0	0	5	0
Mysore	0830	767	1012·3	928·0	+0·4	23·3	19·6	17·2	19·6	70	+3	2·8	+0·8	4·8	0	0	28	0	4	7	1	2	5	8	1	3	0
	1730	,,	1005·0	924·0	..	33·4	19·0	8·3	10·9	22	..	3·0	..	6·3	0	1	28	1	3	12	1	1	5	4	2	2	0
Kerala																											
Calicut	0530	5	1010·4	1009·8	..	26·1	24·2	23·3	28·6	85	..	2·8	..	6·0	0	0	30	2	20	7	0	0	0	1	0	1	0
	0830	,,	1012·4	1011·8	+0·6	28·3	24·6	23·0	28·1	73	—3	2·2	+0·1	5·9	0	1	26	6	7	11	0	0	0	0	3	4	0
	1130	,	1012·2	1011·6	..	31·5	26·0	23 5	28.9	63	..	2·2	..	1·3	0	3	28	0	0	0	0	0	4	20	7	0	0
	1730	,	1008·6	1008·0	..	30·5	26·1	24·1	30·0	69	..	1·7	..	18 5	0	15	16	0	0	0	0	0	0	9	22	0	0
	2330	,,	1011·6	1011·0	..	28·4	25.3	24·0	29·8	77	..	3·2	..	15·2	0	11	20	5	2	0	0	0	1	5	18	0	0
Palghat	0830	97	1012·4	1001·4	..	28·3	24·5	22·7	27·6	72	..	2·7	..	7·7	0	0	29	0	0	12	1	0	0	15	1	2	0
	1730	,,	1006·9	996·3	..	35·0	24·6	19·0	22·0	41	..	2·1	..	11·1	0	0	31	0	4	8	0	0	3	16	0	0	0
Fort Cochin	0830	3	1012·4	1012·1	+0·5	26·9	25·2	24·4	30·5	86	+11	5·3	+3·3	5·8	0	0	31	12	10	0	0	0	0	1	8	0	0
	1730	,,	1008·0	1007·7	..	29·9	25·7	23·8	29·5	71	..	4·7	..	11·5	0	2	29	0	0	0	0	0	2	16	13	0	0
Cochin (Naval Air Station)	0230	3	1010·4	1010·1	..	27·0	24·7	23·7	29·3	82	..	4.2	..	3·9	0	0	20	3	2	6	0	0	1	3	5	11	0
	0530	,,	1010·4	1010·1	..	26·2	24·3	23·4	28·8	86	..	3·5	..	3·6	0	0	23	3	8	10	0	0	0	1	1	8	0
	0830	,,	1012·2	1011·9	..	28·3	24·8	23·2	28·4	73	..	3·1	..	6·5	0	0	30	6	13	7	2	0	0	0	2	1	0
	1130	,,	1012·1	1011 8	..	31·5	25·3	22·4	27·1	59	..	3·5	..	14·6	0	3	28	1	1	0	0	1	3	17	8	0	0
	1730	,,	1008 1	1007·8	..	30·7	25·4	22·9	27·9	64	..	3·6	..	22·1	0	14	17	0	0	0	0	0	3	7	11	0	0
	2330	,,	1011·9	1011·6	..	28·0	25·0	23·6	29·1	77	..	4·3	..	5·5	0	1	21	1	1	4	0	1	0	5	10	9	0
Alleppey	0830	4	1012·0	1011·6	+0·4	29·3	26·1	24·6	30·9	76	—1	4·0	—0·3	5·4	0	0	28	2	10	6	5	0	0	0	5	3	0
	1730	,,	1007·9	1007·5	..	30·9	26·5	24·7	31·1	70	..	2·8	..	18·7	0	15	16	0	0	0	0	0	0	5	26	0	0
Punalur	0830	34	1012·0	1008·1	..	26·7	23·9	22·5	27·3	78	..	3·5	..	0·5	0	0	8	2	2	2	1	0	0	0	1	23	0
	1730	,,	1007·7	1004·0	..	32·9	24·8	20·7	24·4	50	..	4·8	..	4·8	0	0	31	0	5	0	12	1	8	0	5	0	0
Trivandrum	0230	64	1009·9	1002·6	..	26·0	23·9	22·8	27·7	83	..	2·0	..	4·1	0	0	25	15	3	0	0	0	0	0	7	6	0
	0530	,,	1010·1	1002·8	..	25·3	23.4	22·5	27·3	85	..	1·9	..	4·5	0	0	29	10	10	1	0	0	0	0	8	2	0
	0830	,,	1012·0	1004·7	+0·3	27·5	24·2	22·6	27·4	75	..	2·6	+0·4	5·3	0	0	31	11	5	3	0	0	0	1	11	0	0
	1130	,,	1011·4	1004·2	..	31·4	24·9	21·7	25·9	57	..	4·1	..	7·9	0	1	30	1	3	1	1	3	5	8	9	0	0
	1730	,,	1008·4	1001·2	..	29·8	25·1	23·0	28·1	67	..	4·0	..	8.3	0	2	29	0	0	0	0	0	9	15	7	0	0
Trivandrum Aerodrome.	2330	,,	1011·6	1004·3	..	27.1	24·7	23·6	9·1	81	..	3.0	..	5·4	0	0	29	8	1	0	0	0	1	3	16	2	0
Arabian Sea Islands																											
Amini*	0830	8	1012·0	1011·1	..	28·4	24·5	22·7	27·6	72	..	2·7	..	4·5	0	0	27	17	7	0	0	0	0	0	3	4	0
	1730	,,																									
Minicoy*	0530	4																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1451.0	800·2	+0·5	10.7	7.3	3.2	7.7	65	+5	1·0	—1·7	3·7	0	0	16	1	5	5	3	0	2	0	0	15	0
	1730	,,	1442·3	799·9	..	13·1	9·9	6·8	9.9	68	..	0·9	..	3·4	0	0	29	2	5	4	7	3	5	1	2	2	0
Dharmsala	0830	1211	..	..	..	17·1	10·2	2·7	7·4	39	—10	4·1	+0·7	2.3	0	0	22	10	9	1	0	0	1	0	1	9	0
	1730	,,	..	..	..	19·5	12·1	5·1	8·8	40	..	5 4	..	3·2	0	0	31	1	3	0	0	0	24	3	0	0	0
Simla	0830	2202	1924.8	781·6	+0·4	11.0	5·2	—2·4	5·0	41	+5	3.9	+0.7	3.2	0	0	31	2	4	3	11	7	2	1	1	0	0
	1730	,,	1484·1	780·9	..	11·9	7·0	1·5	6·8	49	..	4·9	..	3·0	0	0	31	4	4	0	6	7	8	0	2	0	0
Lokpal	0830	..	..	..	..	—8·6	—10·1	—10·9	2·4	77	..	3·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..	..	..	Closed during winter months																				

*Data given as addenda in December, 1961 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (kms. p.h.): 62 or more	Wind speed (kms. p.h.): 20 to 29	Wind speed (kms. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —(*contd.*)																											
Joshimath	0830	..	..	..	..	11·0	5.3	—2·1	5·1	42	..	3·1	..	8·9	0	0	31	1	2	25	2	0	1	0	0	0	0
	1730	..	..	..	..	14·4	7·3	—0·9	5·7	37	..	6·5	..	5·0	0	0	31	1	1	10	7	6	5	0	1	0	0
Mussoorie	0830	2042	1481·3	795·8	—1·3	12·2	7·0	0·7	6·4	46	—2	3·4	+0·4	2·5	0	0	21	7	1	0	1	4	3	0	5	10	0
	1730	„	1469·7	795·0	..	13·9	8·9	4·1	8·2	53	..	5·0	..	3·0	0	0	26	4	2	0	3	9	6	0	2	5	0
Mukteswar (Kumaun)	0830	2311	3126·1	772·6	0	10·9	5·0	—3·0	4·3	39	..	2·7	+0·1	10·4	0	4	23	0	2	2	2	1	2	9	9	4	0
	1730	„	3116·3	771·2	..	12·9	7·5	1·5	6·8	47	..	4·1	..	22·6	0	9	12	0	0	0	0	0	4	15	12	0	0
Nainital	0830	1938	1486·1	804·8	—0·4	13·9	7·0	—2·3	5·1	35	—10	2·9	+0·3	5·3	0	0	19	5	9	1	2	0	0	1	1	12	0
	1730	„	1463·5	802·9	..	14·3	8·4	2·9	7·5	48	..	3·5	..	8·8	0	0	30	12	2	3	3	2	1	6	1	1	0
Walong (R)	0830	..																									
(R)	1730	„																									
Kalimpong	0830	1209	1485.8	878.2	—1·9	16.8	15·1	13·9	15·9	84	+22	1·5	+0·3	3.1	0	0	31	0	1	1	7	0	0	0	22	0	0
	1730	„	1478·1	877.4	..	17·0	15·2	14·0	16·0	82	..	1·9	..	3·3	0	0	31	0	0	0	24	0	0	0	7	0	0
Darjeeling	830	2128	1521·3	791·4	+3·1	11·7	8·1	4·4	8·5	63	—4	2·6	—0·4	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1492·1	788·9	..	11·9	8·4	4·7	8·8	64	..	4·9	..	3·0	0	0	13	0	0	0	0	0	3	9	0	18	1
Kohima	0830	1406	1537·7	863·3	..	17·1	14·2	12·9	13·8	78	..	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	„	1493·9	858·9	..	17·5	14·0	11·1	13·2	69	..	5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Shillong	0830	1509	1493·0	850·0	—0·6	18·6	12·7	6·9	9·9	50	+5	2·1	+0·2	3·5	0	0	23	0	0	0	0	3	18	2	0	8	0
	1730	..	1477·9	848·0	..	18·0	13·4	9·3	11·6	59	..	4·4	..	2·1	0	0	13	0	0	0	0	2	9	1	1	18	0
Cherrapunji (R)	0830	1313																									
(R)	1730	„																									
Abu	0830	1195	1511·0	882·2	—0·1	20·0	10·5	—1·1	5·6	26	—9	1·2	—0·3	2·2	0	0	8	1	1	0	1	0	2	2	1	23	0
	1730	„	1464·3	831·3	..	25·3	12·7	—1·4	5·4	18	..	1·6	..	4·6	0	2	14	1	0	0	0	2	4	1	6	15	0
Aizal	0830	..	..	..	..	19·7	15.9	13·1	15·0	68	..	3·7	..	5·7	0	0	30	1	0	3	0	7	5	13	1	1	0
	1730	..	..	..	..	22·2	16·1	12·3	13·8	56	..	3·8	..	5·2	0	0	31	2	0	0	0	3	5	21	0	0	0
Pachmarhi	0830	1075	1531·5	895.9	+0·3	23·6	13·5	3·5	8·3	28	—9	1·4	—0·2	3·3	0	0	25	1	5	0	1	6	1	4	7	6	0
	1730	„	1511·6	893·0	..	29·8	15·5	2·6	7·4	18	..	3·1	..	4·8	0	0	31	0	3	0	0	2	1	8	17	0	0
Mahabaleshwar	0830	1382	1529·5	864.7	+0·7	22·1	13·0	3·0	7·6	32	—5	0·5	—0·2	9·6	0	0	31	5	13	9	0	1	0	0	3	0	0
	1730	„	1510·7	862.7	..	26·9	17 5	10·4	12·6	37	..	0·4	..	9·2	0	0	31	4	1	0	0	0	2	4	20	0	0
Mercara	0830	1152	1524.8	837.7	—0·7	20·6	17·2	14·9	16·9	71	+2	0·5	—2·1	3.5	0	0	31	7	6	3	0	1	1	4	3	0	1
	1730	„	1505.4	885·0	..	26·8	19·5	14·3	16·3	52	..	2·5	..	7·2	0	0	31	0	3	5	0	9	0	13	9	0	1
Ootacamund	0830	2249	1525.9	781.6	+0·9	14·9	9·9	5·4	9·0	55	+5	0·8	—0·9	3·0	0	0	22	0	16	5	2	1	0	0	0	9	0
	1730	„	1499·8	780·1	..	19·3	13·3	8·6	11 2	51	..	3·1	..	1.4	0	0	14	0	7	7	0	10	0	0	0	17	0
Coonoor	0830	1747	1528.0	829.2	..	20·7	13·5	7·7	10·5	45	—10	0·3	—1·4	6·8	0	0	31	3	0	5	5	8	0	5	0	0	0
Kodaikanal	0830	2343	3177.4	773.3	+1·2	15·7	8·5	—0·7	3·4	37	—9	1·5	—0·2	17·6	0	12	19	6	13	9	13	0	0	0	0	0	0
	1130	„	3190.9	778.7	..	19·6	11·5	6·0	8·0	37	..	2·2	..	21·9	0	15	16	4	12	9	6	0	0	0	0	0	0
	1730	„	3165·2	772·0	..	16·4	13·4	10·6	12·8	70	..	3·6	..	6·4	0	2	18	1	3	6	8	2	0	0	0	11	0
Nepal																											
Katmandu	0830	1324	1498·7	868·0	..	13·2	10 7	8·6	11·1	74	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1494·7	867·1	..	21·5	13·7	6·8	10·0	40	..	3·0	..	0·3	0	0	2	1	0	0	0	0	0	0	1	29	0
	1730	„	1468·4	864·6	..	19·3	13·1	7·5	10·6	48	..	4·0	..	0·6	0	0	6	1	0	0	0	2	1	2	0	25	0
Sikkim																											
Lachen	0830	..	..	..	..	6·4	4·1	1·4	6·1	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchmen																											
Tilaiya	0830	..	..	..	..	25·7	15·1	4·5	8·8	26	..	1·2	..	..	0	0	28	0	0	1	0	0	5	12	6	3	4
	1730	..	..	..	..	30·5	16·0	0·6	6·6	15	..	1·4	..	..	0	0	27	3	1	0	0	0	0	8	15	4	0
Hazaribagh	0830	615	1010·3	942·5	..	24·9	14·5	4·9	8·8	28	..	0·8	..	6·7	0	0	27	3	0	0	0	1	3	5	15	4	0
	1730	..	1006·0	939·2	..	28·5	45·3	3·0	8·2	20	..	1·2	..	7·2	0	0	26	0	0	0	0	0	1	13	12	5	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	1·1	..	..	0	4	23	0	0	0	0	0	0	24	3	4	0
	1730	..	..	..	..	..	..	..	..	..	..	1·5	..	..	0	11	17	0	0	0	0	0	0	24	4	3	0
Bokaro *	0830	242	1011·3	983·9	..	24·2	17·0	11·8	13·4	46	..	1·4	..	..	0	0	22	0	0	0	0	1	4	10	7	7	0
††	1730	„	1006·8	980·1	..	31·0	18·1	6·9	10 7	23	..	1·1	..	..	0	0	27	1	1	0	0	0	1	1	23	1	0
Maithon †	0830	..																									
	1730	..																									
Rangarh	0830	..	..	..	..	24·3	16·7	10.4	13·2	42	..	1·2	..	2·5	0	0	20	1	4	0	0	0	1	12	2	11	0
	1730	..	..	..	..	31·1	19·2	9·0	10·3	27	..	1·9	..	2·2	0	0	19	0	4	0	0	0	2	2	11	12	0
Panchate Hills	0830	..	..	..	..	25·4	17·0	10·0	12·9	39	..	2·6	..	4·6	0	0	23	0	0	0	0	1	13	8	1	6	0
	1730	..	..	..	..	31·4	18·1	6·5	9·9	22	..	2·9	..	4·4	0	0	21	2	0	0	0	2	2	2	13	10	0

*Wind Observations for 29 days. (R) Register not received. ‡ Wind Observations for 28 days. † Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—contd.																											
Domodar Catchment																											
Durgapur	0830																										
	1730	..	..	..	..	26·1	20·5	16·9	19·7	59	..	2·0	..	5·2	0	0	31	6	2	0	0	6	3	1	13	0	0
Mahanadi Catchment		..	..	..	..	32·5	21·7	14·4	17·1	34	..	1·2	..	5·3	0	0	31	3	0	0	2	1	5	6	14	0	0
Ginataher	0830	..	..	..	..	24·7	15·2	6·3	9·6	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1011·3	993·4	..	27·0	19·9	15·3	18·2	49	..	0·8	..	5·3	0	0	28	3	4	10	4	4	2	0	1	3	0
	1730	,,	1006·3	988·9	..	33·7	21·3	13·0	16·2	29	..	1·7	..	3·0	0	0	17	2	0	2	4	1	1	0	7	14	0
Bhimkund	0830	..	..	..	..	24·9	19·9	17·1	19·3	62	..	1·8	..	0·6	0	0	0	4	3	0	0	0	0	0	1	27	0
	1730	..	..	..	..	32·4	20·3	11·7	13·9	31	..	2·0	..	1·2	0	0	10	1	0	0	1	0	5	0	3	21	0
Sonepur	0830	..	..	..	..	26·5	22·5	20·3	23·5	64	..	..	..	4·7	0	0	25	4	2	4	3	3	6	1	2	6	0
Khijanwan	0830	..	..	..	..	26·5	19·3	14·3	16·5	48	..	0·4	..	2·6	0	0	16	1	1	2	5	1	2	3	1	15	0
	1730	..	..	..	..	34·3	20·6	10·1	13·0	25	..	(b) 1·4	..	(b) 5·4	0	0	27	6	2	0	1	1	1	6	10	2	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	24·7	13·7	0·6	6·8	21	..	0·7	..	8·4	0	0	27	1	8	2	1	1	12	2	0	4	0
	1730	..	..	..	..	34·5	17·5	—0·8	6·3	11	.	1·9	..	8·5	0	0	27	2	3	0	1	2	5	9	5	4	0
Punasa	0830	..	..	..	..	26·8	16·5	6·8	10·5	30	..	..	..	5·9	0	1	23	3	11	2	0	0	2	6	0	7	0
	1730	..	..	..	..	36·5	21·1	9·1	12·3	21	..	..	..	6·2	0	1	25	6	3	0	0	1	2	10	4	5	0
Thikri	0830	..	..	..	..	25·6	16·4	8·1	11·2	36	..	2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jhadol (R)	0830																										
Daroi	0830	..	..	..	..	24·2	17·1	11·4	13·3	46	..	..	..	..	..	..	.	..	..	.	..	..	..	..	..	..	..
	1730	..	..	..	..	34·2	22·1	13·5	15·5	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	12·4	6·9	0·4	6·3	45	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·3	0	1·0	6·6	42	..	4·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	14·3	11·3	8·5	11·0	69	..	2·0	..	1·2	0	0	10	6	2	0	0	0	0	0	1	21	1
	1130	..	..	..	..	22·2	14·0	6·7	9·8	38	..	..	..	2·6	0	0	17	5	6	2	0	2	0	1	1	14	0
	1730	..	..	..	..	25·1	14·9	5·9	9·3	31	..	3·8	..	4·7	..	..	..	..	..	..	..	..	..	..	..	..	..
Jomosom	0830	..	..	..	..	8·9	4·5	—0·3	6·0	53	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·4	6·3	3·5	7·9	66	..	..	..	..	..	.	..	.	..		..	..	..	.	..	..	..
Khudi Bazar	0830	..	..		..	17·9	15·4	10·5	12·7	63	..	..	..	..	..	..	.	..		..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·6	15·3	11·6	13·7	53	..	..	..	..	..	..	.	.	..	.	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	9·4	6·3	3·5	7·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·7	6·5	1·9	7·0	55		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	19·1	14·1	10·0	12·4	57		1·5	.	1·7	0	0	14	2	2	1	1	1	5	0	2	17	0
	1130	..	..	..	..	20·3	15·1	9·4	11·9	47	..	3·6	..	3·9	0	0	25	2	6	0	9	2		0	2	6	1
	1730	..																									
Gorkha †	0830	..																									
	1730	..																									
Nawakot	0830	..	..	..	..	18·9	14·3	10·8	12·9	59	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·7	14·0	6·5	9·7	35	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari	0830	..	..	..	..	11·4	5·8	—1·0	5·6	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·4	5·8	+0·4	6·3	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura	0830	..	..	..	..	13·6	8·2	2·4	7·4	47	..	2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·6	9·7	5·3	8·9	54	..	4·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana	0830	..	..	..	..	17·2	11·6	6·4	9·6	49	..																
	1730	..	..	..	..	19·5	12·6	6·1	9·4	41	..																
Gandak Catchment																											
Butwal	0830	..	..	..	..	24·5	18·6	14·6	16·6	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·8	19·2	12·4	14·4	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu‡	0830	1324																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	15·0	11·5	8·8	11·3	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·5	13·3	8·7	11·2	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. (b) Mean of 29 days. ‡Data included under 'Nepal' † Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*concld.*																											
Koshi Catchment—*contd.*																											
Chepua	0830	..	..	..	..	11·4	8·5	6·6	9·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·4	9·2	7·2	10·1	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	6·0	2·7	—1.2	5·5	60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3·8	2·1	0·1	6·1	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	15.8	10·9	6·3	9·5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·4	11·6	6·2	9·5	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	16·3	11·0	6·6	9·7	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·9	10·9	6·7	9·8	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	14·9	10·2	5·9	9·4	56	..	2·3 (e)		..	..	..	..	0	0	0	0	0	0	0	0	1	0
	1130	..	..	..	..	17·7	11·3	5·6	9·3	47	..	3·7 (e)	..	..	..	..	..	0	0	1	1	3	5	10	2	9	0
	1730	..	..	..	..	15·3	10·3	5·6	9·3	56	..	5·5 (f)	..	..	..	..	..	1	1	0	2	11	0	4	0	12	0
Okhaldhunga	0830	..	..	..	..	15·1	9·8	5·0	3·7	52	..	2·4	..	4·9	0	1	18	1	1	0	2	4	5	6	0	12	0
	1130	..	..	..	..	18·0	11·0	4·9	8·7	42	..	3·0	..	9·4	1	1	27	8	1	2	0	9	0	8	1	2	0
	1730	..	..	..	..	15·1	9·8	5·0	8·7	52	..	4·1	..	13·4	0	9	18	1	0	0	1	4	2	19	0	4	0
Chainpur	0830	..	..	..	..	18·0	12·7	8·1	10.8	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	13·5	7·7	10·5	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	17·2	12·7	8·9	11·4	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·9	14·0	8·3	10·9	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkshetra	0830	146	1011.3	994·5	..	21·7	15·9	10·9	13·0	53	..	2·1	..	6·0	0	0	31	2	2	4	1	2	14	2	4	0	0
	1130	,,	1009·8	993·3	..	28·1	18·5	10·6	12·8	37	..	2·4	..	9·8	0	0	30	1	0	0	0	1	23	3	2	1	0
	1730	,,																									
Tista Catchment																											
Gangtok	0830	1812	1495·7	818·9	..	12·2	9·2	6·5	9·7	70	..	3·5	..	0·2	0	0	2	0	1	0	0	1	0	0	0	29	0
	1130	,,	1486·5	818·5	..	16·9	12·2	8·7	11·2	60	..	4.2	..	2·7	0	0	23	1	1	0	1	8	12	0	0	8	0
	1730	,,	1469·2	816·5	..	13·1	10·2	7·5	10·6	72	..	6·5	..	2·8	0	0	18	2	2	0	3	10	1	0	0	13	0
Geyzing	0830	..	..	..	..	14·8	11·8	9·6	13·7	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·5	12·0	9·4	11·8	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(e) Mean of 26 days. (f) Mean of 25 days.

MONTHLY MEANS OF UPPER WINDS

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1	Agartala	23° 53′	91° 15′	17	28th November 1951	0530	1130	1730	2330
2	Ahmedabad	23° 04′	72° 38′	61	19th May 1928	0530	1730	2330	
3	Amausi	26° 45′	80° 53′	133	20th November 1950	0530	1730	2330	
4	Ambala	30° 23′	76° 46′	279	1st April 1941	0530	1730	2330	
5	Anantapur	14° 41′	77° 37′	365	12th February 1946	0530	1730	2330	
6	Asansol	23° 41′	86° 59′	135	29th May 1942	0530	1130	1730	2330
7	Baghdogra	26° 38′	88° 19′	140	7th June 1953	0530	1130	1730	2330
8	Bairagarh	23° 17′	77° 21′	532	26th February 1943	0530	1730	2330	
9	Bajpe	12° 55′	74° 53′	104	25th May 1959	0530	1730	2330	
10	Bamrauli	25° 27′	81° 44′	103	28th February 1930	0530*	1130	1730*	2330
11	Bangalore	12° 58′	77° 35′	936	19th May 1915	0530	1730	2330	
12	Bareilly	28° 22′	79° 24′	181	12th January 1943	0530	1730		
13	Begumpet	17° 27′	78° 28′	543	1st September 1929	0530	1730	2330	
14	Bhagalpur	25° 14′	86° 57′	61	19th May 1950	0530	1130	1730	
15	Bhubaneshwar	20° 15′	85° 50′	54	5th December 1942	0530	1130	1730	2330
16	Bhuj	23° 15′	69° 48′	90	14th September 1937	0530	1730	2330	
17	Bikaner	28° 00′	73° 18′	229	18th October 1946	0530	1730	2330	
18	Chikalthana	19° 51′	75° 24′	583	7th October 1951	0530	1730	2330	
19	Cochin†	09° 56′	76° 14′	13	16th March 1942	0530	1730	2330	
20	Darjeeling	27° 03′	88° 16′	2115	21st May 1956	0530	1730		
21	Dehra Dun	30° 19′	78° 03′	692	1st October 1958	0530	1730		
22	Dum Dum	22° 39′	88° 27′	13	14th May 1921	0530*	1130	1730*	2330
23	Gadag	15° 25′	75° 38′	650	3rd May 1943	0530	1730	2330	
24	Gannavaram	16° 22′	80° 48′	32	8th April 1942	0530	1730	2330	
25	Gauhati	26° 05′	91° 43′	55	12th March 1955	0530*	1130	1730*	2330
26	Gaya	24° 45′	84° 57′	119	19th March 1937	0530	1130	1730	2330
27	Gopalpur	19° 16′	84° 53′	24	15th February 1946	0530	1730	2330	
28	Gorakhpur	26° 45′	83° 22′	83	5th January 1943	0530	1730		
29	Gwalior	26° 14′	78° 15′	208	7th May 1938	0530	1730	2330	
30	Imphal	24° 51′	93° 58′	805	8th March 1952	0530	1130	1730	2330
31	Jabalpur	23° 10′	79° 57′	402	30th July 1928	0530	1730	2330	
32	Jagdalpur	19° 05′	82° 02′	562	25th March 1948	0530	1730	2330	
33	Jaipur	26° 49′	75° 48′	433	6th June 1953	0530	1730	2330	
34	Jamshedpur	22° 49′	86° 11′	144	23rd July 1942	0530	1730	1730	
35	Jharsuguda	21° 55′	84° 05′	240	1st May 1944	0530	1730	2330	
36	Jodhpur	26° 18′	73° 01′	229	15th October 1934	0530*	1130	1730*	2330
37	Madras	13° 00′	80° 11′	29	8th April 1926	0530*	1130	1730*	2330
38	Minicoy	08° 18′	73° 00′	15	14th April 1941	0530	1730	2330	
39	Mohanbari	27° 29′	95° 01′	112	1st June 1948	0530	1130	1730	2330
40	Nagpur	21° 06′	79° 03′	316	23rd April 1943	0530*	1130	1730*	2330
41	Nawpara	27° 50′	81° 30′	142	23rd April 1957	0530	1730		
42	New Delhi	28° 35′	77° 12′	227	20th October 1936	0530*	1130	1730*	2330
43	Poona	18° 32′	73° 51′	593	5th January 1925	0530	1730	2330	
44	Port Blair	11° 40′	92° 43′	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21° 14′	81° 39′	308	15th July 1944	0530	1730	2330	
46	Raxaul	26° 59′	84° 51′	83	28th October 1957	0530	1130	1730	
47	Santa Cruz	19° 07′	72° 51′	27	14th May 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10° 46′	78° 43′	96	22nd June 1936	0530	1730	2330	
49	Trivandrum	08° 29′	76° 57′	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24° 35′	73° 42′	587	24th June 1947	0530	1730	2330	
51	Vengurla	15° 52′	73° 38′	8	22nd November 1941	0530	1730	2330	
52	Veraval	20° 54′	70° 22′	17	13th October 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17° 43′	83° 14′	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological Office.

5—10 D.D.G. Obs. Poona/65

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I.S.T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.1	2.7	170	31	3.4	3.0	194	31	4.2	2.8	190	31	3.8	3.2	177	31	2.2	1.5	325	31	3.5	2.6	295
0.15 a.g.	26	6.5	5.4	181	31	5.4	5.1	200	29	6.5	5.3	191	28	7.9	7.0	185	30	8.0	5.7	337	31	3.9	2.9	302
0.3 a. m. s. l.	26	7.8	6.2	200	31	5.0	4.7	202	29	7.1	6.1	195	28	8.9	8.2	201	30	8.5	6.2	339	31	4.0	3.2	303
0.6 „	24	8.3	6.7	217	31	5.7	5.3	204	29	7.8	7.0	200	28	9.5	9.0	211	30	7.6	5.5	334	31	4.2	3·5	300
0.9 „	21	7.9	7.0	229	28	6.3	5.7	212	29	8.1	7.7	203	26	8.6	8.0	227	30	6.5	4.5	327	31	4.5	3.6	300
1.5 „	18	6.7	5.9	261	21	6.9	6.4	233	27	8.0	7.7	229	20	7.5	6.9	253	30	6.6	4.7	294	31	5.2	4.2	301
2.1 „	17	8.2	7.7	272	10	10.7	9.5	266	27	9.3	8.9	253	17	7.9	7.3	263	29	7.1	4.7	280	31	7.4	6.3	286
3.0 „	15	10.1	9.2	281	5	12.3	12.2	285	26	13.8	13.1	272	10	8.7	7.4	273	23	8.5	6.9	270	31	10.4	9.0	277
3.6 „	9	11.8	10.1	284					21	15.5	14.6	280	3	9.3	5.5	271					31	12.3	11.0	278
4.5 „	1	10.0	10.0	170					15	16.9	16·3	281									30	14.3	13.0	278
5.4 „	1	11.5	11.5	205					13	20.6	19.0	279									27	15.9	14.6	282
6.0 „	1	7.0	7.0	230					7	17.9	15.7	280									24	16.3	15.1	280
7.2 „	1	7.5	7.5	285					2	20.2	20.0	276									17	19.4	18.2	274
9.0 „									1	26.0	26.0	290												

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.7	1.8	298	31	1.6	1.3	263	31	4.0	3.3	291	31	2.6	1.9	283	31	2.1	1.3	326	31	3.0	2.5	294
0.15 a.g.	31	8.1	5.9	307	31	7.4	5.5	313	31	5.8	5.1	296	31	8.8	7.2	307	31	7.9	5.0	333	31	6.7	5.6	298
0.3 a. m. s. l.	31	8.1	6.2	307	31	7.6	5.8	318	31	6.0	5.3	294	31	8.7	7.2	309	31	3.5	2.3	339	31	4.1	3.4	296
0.6 „	31	7.5	6.1	313	31	7.7	6.1	305	31	6.7	6.0	291	31	8.4	7.1	310	31	8.0	4.4	322	31	7.0	6.1	303
0.9 „	31	6.7	5.7	316	31	8.2	7.2	300	31	6.8	6.2	290	31	8.2	7.1	309	31	7.6	6.4	321	31	7.6	6.6	309
1.5 „	31	6.0	4·5	309	31	10.0	9.6	293	31	8.4	7.9	297	31	8.9	8.1	299	31	6.5	5.7	322	30	7.0	5.8	310
2.1 „	31	7.3	4.9	291	30	11.5	11.2	294	31	10.6	10.2	295	31	10.8	10.2	290	31	7.6	6.4	309	29	6.2	4.8	307
3.0 „	27	8.0	6.0	283	24	11.9	11.5	288	30	13.7	13.3	286	21	11.2	10.6	287	29	10.5	9.1	297	28	7.0	4.8	293
3.6 „	1	4.0	4.0	255	15	12.9	12.7	286	26	16.2	15.7	285	9	14.4	14.0	271	25	11.7	10.3	295	26	8.8	6.3	292
4.5 „					5	12.1	11.5	283	20	17.0	16.4	280	3	20.0	20.0	282	20	11.9	10.2	292	21	9·9	8·5	283
5.4 „					3	17.7	16.4	268	14	18.3	17.4	279					13	14.0	12.8	281	18	14·8	13·1	275
6.0 „					1	11.0	11.0	280	9	22.6	22.2	285					10	14.7	12.6	281	16	17.3	15·2	283
7.2 „									6	23.7	23.4	285					5	22.2	20.0	278	7	18.9	17.3	281
9.0 „									3	23.2	23.1	280					1	22.5	22.5	280	3	22.1	20.6	280

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.9	2.5	325	31	3.1	1.7	208	31	3.6	3.5	081	31	4.1	3.1	112	31	0.8	0.6	297	31	2.3	1.8	272
0.15 a.g.	31	10.6	9.4	337	31	5.2	2.9	216	31	4.7	4.0	085	31	7.0	6.0	114	30	4.4	3.3	287	31	4.2	3.0	276
0.3 a.m.s.l.	31	4.5	3.9	331													30	4.6	3.3	292	31	4.4	3.3	266
0.6 ,,	31	10.0	8.9	336	31	5.6	3.0	223	31	4.7	4.2	083	31	7.1	6.0	116	30	6.3	4.4	308	31	4.6	3.6	283
0.9 ,,	31	8.7	7.8	332	31	6.4	2.1	210	31	4.4	3.7	083	31	7.0	5.8	119	30	7.2	5.6	298	31	6.0	5.1	286
1.5 ,,	31	6.7	5.3	322	31	6.9	2.7	162	31	4.5	3.2	091	31	5.4	4.0	105	30	8.0	7.4	280	30	7.8	7.2	277
2.1 ,,	31	6.8	5.4	299	31	6.4	3.9	100	31	4.7	3.2	087	31	4.9	3.3	072	30	11.5	10.5	273	29	11.4	10.0	275
3.0 ,,	27	7.2	5.9	267	31	6.4	5.3	056	31	4.8	3.4	061	31	5.6	4.0	030	21	16.2	15.6	271	14	15.7	14.6	277
3.6 ,,	13	8.9	8.1	270	31	6.6	5.7	036	31	5.0	3.5	048	30	5.5	3.8	022	12	18.7	16.6	276				
4.5 ,,	5	11.1	10.2	286	31	6.8	5.0	037	31	5.9	3.1	045	29	5.1	3.2	023	3	16.8	16.8	315				
5.4 ,,	1	8.0	8.0	210	31	6.9	3.7	048	30	6.2	3.3	026	27	5.8	3.4	028								
6.0 ,,	1	10.5	10.5	335	31	7.0	3.4	005	30	6.2	3.1	355	22	5.5	1.5	002								
7.2 ,,					26	8.2	5.0	310	28	7.2	4.6	318	14	6.6	3.5	300								
9.0 ,,					19	10.6	7.1	285	26	11.9	9.0	299	1	4.0	4.0	295								

Station	ASANSOL								BAGHDOGRA															
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.3	0.9	277	31	9.0	0.4	259	31	2.6	2.1	064	31	3.8	2.1	103	31	2.6	1.2	256	31	2.3	1.6	351
0.15 a.g.	31	5.2	3.8	288	31	6.4	2.8	296	28	5.7	5.3	068	31	4.5	2·9	110	31	4.4	2.1	248	30	4.7	2.7	023
0.3 a.m.s.l.	31	5.3	3.8	287	31	6.4	3.1	300	28	5.7	5.3	075	31	4.8	3.0	104	31	4.5	2.2	249	30	4.7	2.2	055
0.6 ,,	31	5.7	4.9	284	31	7.6	4.5	297	28	6.5	5.6	082	30	4.6	4.5	100	31	5.3	3.5	249	30	5.5	0.6	056
0.9 ,,	31	6.0	5.3	282	31	7.5	5.6	294	27	5.6	4.3	090	30	4.3	3.5	099	29	4.4	2.9	240	29	5.8	1.4	288
1.5 ,,	31	6.8	6.5	277	31	7.6	7.0	274	25	3.8	0.7	317	23	4.9	1.0	144	27	5.3	4.3	244	27	5.5	4.5	268
2.1 ,,	31	8.9	8.5	279	31	10.2	9.5	273	22	5.8	4.7	282	17	6.0	5.1	271	25	7.1	6.9	259	25	8.4	7.9	268
3.0 ,,	29	15.7	14.9	283	24	13.9	13.0	273	13	8.9	8.6	272	9	8.5	8.3	281	18	8.3	8.1	278	12	7.4	7.1	280
3.6 ,,	26	19.0	18.1	285	11	13.6	13.2	284	10	12.1	11.9	278	1	14.0	14.0	280	13	13.0	12.5	285	5	7.4	7.2	285
4.5 ,,	19	20.8	19.5	298	7	14.1	13.8	295	5	14.8	14.0	276					7	18.1	18.0	284	1	19.5	19.5	280
5.4 ,,	8	20.9	20.4	297	1	2.5	2.5	315	2	5.0	3.8	291					3	22.5	22·5	285				
6.0 ,,	6	16.1	15.7	303					1	6.0	6.0	275					3	22·0	21.9	278				
7.2 ,,	2	18.3	18.2	278																				
9.0 ,,	1	16.0	16.0	280																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.9	0.6	017	31	3.6	2.8	304	31	3.1	1.5	028	31	0.8	0.6	072	31	4.2	4.0	280	31	0.8	0.7	327
0.15 a.g.	31	7.7	1.9	046	31	5.3	4.1	295	31	8.5	4.5	011	29	2.5	1.7	026	31	5.2	5.0	282	31	4.3	4.1	325
0.3 a.m.s.l.													29	2.3	1.4	018	31	5.5	5.4	281	31	4.5	4.3	323
0.6 ,,	31	6.9	1.3	035	31	4.9	3.8	295	31	8.0	4.2	011	29	2.3	0.4	044	31	4.8	4.1	295	31	4.1	3.8	322
0.9 ,,	31	8.3	2.0	345	31	5.8	4.5	292	31	7.9	3.4	357	28	3.0	0.9	095	30	3.6	2.8	322	31	2.8	1.9	328
1.5 ,,	31	6.7	4.4	300	31	5.3	4.4	288	31	6.7	3.4	292	27	5.7	2.7	054	30	3.8	2.7	040	30	4.1	1.9	016
2.1 ,,	31	8.2	7.3	278	31	5.7	5.0	280	30	6.3	5.0	267	26	6.2	5.1	071	29	6.8	6.3	073	28	7.6	5.8	074
3.0 ,,	29	10.6	9.8	271	31	9.9	9.1	272	25	9.1	8.2	266	22	8.8	7.8	069	28	9.4	9.0	076	26	9.3	8.8	076
3.6 ,,	29	12.5	10.7	275	30	13.4	12.7	275	8	10.1	9.4	254	22	8.0	6.8	068	24	8.7	7.9	069	24	8.8	8.5	076
4.5 ,,	24	14.8	13.9	273	26	15.0	13.5	282	3	9.2	8.8	270	20	6.7	4.2	068	19	5.7	3.9	070	16	6.8	4.6	062
5.4 ,,	22	16.3	15.7	282	24	17.4	16.6	282					17	6.2	2.2	067	17	5.9	2.8	057	8	4.8	4.0	030
6.0 ,,	20	18.1	16.8	281	22	18.2	17.4	278					16	6.2	1.0	348	16	6.2	2.2	027	5	4.6	4.1	016
7.2 ,,	12	17.9	16.6	280	10	19.1	18.5	281					12	7.8	3.9	262	16	9.5	4.7	322				
9.0 ,,	2	19·0	18·3	260	7	25.8	24.7	280					9	10.8	7.5	276	16	11.9	9.7	268				

Station	BAMRAULI																BANGALORE							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.7	0.7	276	31	2.2	1.6	272	31	2.5	2.1	312	31	0.8	0.6	295	31	2.6	0.9	156	31	3.0	2.4	092
0.15 a.g.	31	6.1	4.4	312	30	3.9	3.3	280	31	6.3	5.6	296	31	8.2	6.3	322	29	6.1	3.2	166	31	5.5	4.9	089
0.3 a m.s.l.	31	6.1	4.3	313	30	3·9	3.4	279	31	6.3	5·6	296	31	8.5	6.4	323								
0.6 ,,	31	6.7	5.4	315	30	5.2	4·7	283	31	5.9	5.4	293	31	8.1	6.5	312								
0.9 ,,	31	6.4	5·7	306	31	6·7	6.4	285	31	6·1	5·8	291	31	7.7	5.2	312								
1.5 ,,	31	8.6	8.0	292	31	9.5	9.0	290	31	8.0	7.6	286	30	8.6	8.0	287	29	6.5	4.4	130	31	6.3	5.7	087
2.1 ,,	31	11.6	10.2	285	29	11.5	11.0	290	31	10.0	9.3	284	24	10.1	9.3	287	29	7.2	6.1	080	30	6.1	5.4	078
3.0 ,,	31	13.8	13.5	280	29	14.1	13.3	287	31	12.9	12.4	279	15	10.6	9.8	282	29	8.2	7.6	056	30	5.5	5.0	066
3.6 ,,	30	16.0	15.1	279	28	15.4	14.6	284	31	19.6	15.3	278	1	11.5	11.5	295	26	7.8	7.2	068	30	5.9	5.3	059
4.5 ,,	30	18·3	17.6	281	25	18.7	18.0	278	31	18.7	18.2	280					24	6.6	4.6	066	28	5.9	4.5	061
5.4 ,,	30	21.8	21.0	278	21	20.5	19.7	279	31	20·8	20.3	280					18	6.3	1.5	048	23	6.0	3.6	050
6.0 ,,	29	24.2	21.5	279	15	21.1	19.8	278	31	22.8	22.2	280					15	6.5	1.6	320	23	6.1	3.2	026
7.2 ,,	28	26·2	25.5	274	3	19.3	19.3	272	31	25.9	25.1	277					12	8.5	5.7	267	22	8.0	4.8	330
9.0 ,,	24	30.1	29.1	273					28	30.2	28.6	276					11	12·7	9·7	262	17	13.0	10.5	292

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level.

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.2	2.9	113	31	1.9	1.3	291	31	2.1	1·8	292	31	1.1	0.2	173	31	3.2	1.7	116	31	2.5	2.2	119
0.15 a.g.	31	8.6	8.1	123	31	7.3	4.3	321	31	5.6	5.0	290	30	5.0	1.8	167	31	4.3	2.0	111	31	6.5	6.0	126
0.3 a.m.s.l.					31	6.9	3.9	316	31	5.3	4.8	291												
0.6 ,,					31	8.6	5.9	308	31	7.0	6.5	292	30	3.5	0.7	140	31	4.4	2.0	105	31	4.5	4.1	120
0.9 ,,					31	8.2	5.9	307	31	7.1	6.9	290	30	6.2	3.2	186	31	4.5	2.2	108	31	7.0	6.4	135
1.5 ,,	31	7.9	7.1	113	31	7.9	5.6	303	31	7.9	4.8	312	30	5.3	1.8	154	31	4.2	1.7	117	31	4.7	2.7	122
2.1 ,,	31	5.8	4.5	082	30	8.9	6.5	303	31	9.4	8.6	297	30	5.0	0.8	004	31	4.2	0.7	133	31	4.8	0.9	022
3.0 ,,	31	5.6	4.8	049	28	11.4	9.0	291	31	11.4	10.8	296	30	5.4	2.8	340	31	5.4	2.0	328	30	5.9	3.6	328
3.6 ,,	25	6.1	5.3	061	18	11.1	9.8	283	30	12.6	12.3	291	30	6.1	3.7	338	31	6.1	3.0	324	19	7.4	4.5	327
4.5 ,,	18	6.7	5.4	065	12	13.5	13.1	277	27	15.2	14.6	288	20	6.7	4.7	348	29	7.2	4.8	326	5	6.7	4.0	337
5.4 ,,	13	7.4	4.2	057	8	13.5	13.2	284	20	17.5	16.7	282	17	6.9	4.9	338	27	8.1	5.9	327	1	8.0	8.0	360
6.0 ,,	9	7.1	2.7	091	6	15.3	15.2	286	16	20.7	19.6	277	15	7.8	5.1	320	26	8.5	6.1	312	1	10.5	10.5	340
7.2 ,,	3	7.5	7.0	061	1	5.0	5.0	255	6	20.5	18.4	282	9	11.0	10.3	306	23	9.9	7.6	305				
9.0 ,,					1	15.0	15.0	255	2	26.3	26.3	289	4	17.0	16.0	294	11	11.0	10.1	314				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I.S.T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.3	1.1	207	31	2.1	1.6	272	31	2.7	2.6	276	31	4.1	3.8	217	31	5.1	4.3	223	31	6.3	5.7	200
0.15 a.g	31	5.5	2.8	236	31	3.6	2.6	285	31	5.7	5.3	284	22	8.3	8.0	216	31	5.9	4.8	213	31	6.7	6.5	193
0.3 a.m.s.l.	31	5.6	3.2	255	31	4.1	2.9	282	31	6.2	5.8	284	22	9.7	9.4	227	31	6.0	4.6	216	31	7.4	6.9	197
0.6 ,,	31	6.3	4.4	292	31	5.5	4.3	275	31	7.0	6.7	278	21	8.4	8.0	230	31	5.9	4.3	230	31	5.1	4.0	218
0.9 ,,	31	7.0	5.8	292	30	6.4	5.2	273	31	8.0	7.7	276	19	7.0	6.1	238	30	5.7	3.6	260	31	4.2	2.5	260
1.5 ,,	31	9.4	9.0	284	26	8.3	8.2	278	28	9.5	9.1	270	19	5.3	4.4	278	29	5.4	3.9	283	30	5.3	4.7	300
2.1 ,,	31	12.0	11.7	280	23	10.6	10.3	278	27	11.5	11.2	272	18	6.0	5.3	295	22	6.2	4.9	290	30	7.6	6.9	299
3.0 ,,	22	15.1	14.9	284	11	11.6	10.9	279	26	15.3	14.7	282	16	9.3	7.8	305	15	9.9	8.5	314	28	10.9	9.5	301
3.6 ,,	13	14.9	14.8	285					24	16.5	16.2	282	13	9.0	6.9	310					23	11.8	10.6	307
4.5 ,,	3	12.3	12.1	297					21	19.2	18·9	285	6	8.3	7.8	331					19	12.7	11.7	306
5.4 ,,	3	9.0	8.9	275					17	19.0	18.7	287	4	8.4	7.9	331					17	14.1	13.5	301
6.0 ,,	2	10.0	10.0	267					15	19.1	18.8	285	3	7.2	6.5	323					12	12.4	12.0	295
7.2 ,,	1	16.0	16.0	280					7	19.9	19.1	281	2	11.5	7.1	015					1	10.0	10.0	315
9.0 ,,									3	20.2	19.8	295	1	12.5	12.5	285					1	12.0	12.0	285

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·1	5·7	215	31	1.7	1.4	269	31	3.9	2.8	303	31	2.6	2.2	275	31	0.8	0.3	136	31	1.4	0.8	320
0.15 a.g.	31	10.3	10·2	205	31	6.9	6.0	306	31	4.9	3.7	302	31	7.2	5 6	288	31	8.0	4.7	109	31	4.9	2.2	308
0.3 a.m.s.l.	31	11.1	11·1	210	31	7.8	6.8	309	31	5.0	3.8	299	31	7.4	6.2	291	31	6.0	3.5	115	31	4.3	1.8	325
0.6 ,,	29	9.0	8·1	212	31	7.7	6.7	316	31	5·3	4·3	303	31	7.1	5.9	303	31	7.4	2.3	106	31	5.1	2.2	308
0.9 ,,	25	5.1	4·2	224	31	6.0	4.9	310	31	5.5	4 6	306	31	6.0	4.5	313	31	6.3	0.5	330	31	5.5	2.4	302
1.5 ,,	25	4.4	3.8	287	31	6.6	5.1	292	31	5 8	5.1	297	31	5.4	4.0	310	31	7·0	4.7	278	30	5.3	2.6	265
2.1 ,,	24	6.9	6.1	294	31	8.7	6.7	295	31	6 5	5·8	286	31	7.5	5.8	286	29	7.9	6.8	276	29	6.0	4.5	256
3.0 ,,	22	9.8	8.7	302	26	9.0	7.2	277	31	9.4	8.2	287	26	9.7	7.9	280	25	8.4	7.3	282	26	8.4	7.2	275
3.6 ,,	7	9.4	7.5	300	10	10.6	9.8	288	31	11.1	8.9	278	8	10.4	9.7	287	18	8.1	7.2	290	24	11.0	9.3	280
4.5 ,,	1	7.0	7.0	045					31	14.2	11.8	279	2	7.5	6.2	247	8	10.4	8.2	287	20	15.2	14.3	285
5.4 ,,	1	8.0	8.0	350					28	16.3	14.6	283					4	13.6	12.3	274	15	17.5	17.3	279
6.0 ,,	1	10.5	10.5	340					24	16.8	15.2	279									10	17.9	17.8	280
									4	18.3	17.9	280												
7.2 ,,																					1	11·5	11·5	275
9.0 ,,																					1	14·5	14·5	280

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.0	0.7	015	31	1.5	1.1	314	31	2.8	2 2	302	31	2.9	1.7	340	31	1.1	0.8	045	31	3.9	3.4	277
0.15 a.g.	31	7.4	4.8	042	31	5 6	2.5	348	31	4.9	3·8	307	31	7.1	4.0	352	31	3·1	2.4	030	30	5.7	5.3	278
0.3 a.m.s.l.	31	6.1	4.3	044													31	3.2	2.5	350	30	5.5	5.1	277
0.6 ,,	31	6.8	3.8	045													31	3.2	2.4	328	30	4.5	3.9	280
0.9 ,,	31	5.3	1.3	022	31	6.9	3.2	351	31	5·0	3·7	303	31	7.5	4.5	353	31	2.6	1·3	325	30	3 2	1.7	300
1.5 ,,	31	5.7	3.3	252	31	6.5	2.6	314	31	4·7	3·6	303	31	5.4	4.3	320	31	3.1	1.1	050	30	4.8	3.8	062
2.1 ,,	30	7.2	5.6	260	31	6.0	3.2	276	31	4·8	3.6	297	31	4.5	3·1	296	29	5.2	4.6	066	27	7.2	7.0	071
3.0 ,,	27	9.8	8·3	272	31	6.9	4.5	252	29	5.9	4.3	281	30	6.0	4.2	265	22	9.1	8.5	071	21	9.3	9.3	072
3.6 ,,	6	8.2	7.3	268	10	7.2	4.3	251	27	6·5	4.9	289	17	7.1	3.9	266	18	7.8	7.3	073	15	9.4	9.0	074
4.5 ,,									23	9.0	7.5	293	2	3.5	2.9	272	7	7.1	6.6	073	5	5.6	5.3	089
5.4 ,,									22	10.7	9.1	301					1	7.0	7.0	080	1	5.5	5.5	085
6.0 ,,									20	12.0	10.5	298									1	10.5	10.5	110
7.2 ,,									9	13.4	12.2	285												
9.0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	COCHIN				DARJEELING								DEHRADUN								DUM DUM			
Time in I. S. T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.6	1.1	318	31	0.9	0.2	204	31	2.7	2.4	236	31	1.0	0.5	004	31	2.1	1.8	263	31	1.7	1.6	198
0.15 a. g.	29	2.7	1.8	320	23	2.0	1.1	232	10	4.9	4.8	234	31	1.9	1.0	007	31	3.6	3.0	260	31	4.9	4.9	220
0.3 a. m. s. l.	29	2.8	2.1	310																	31	5.7	4.9	229
0.6 ,,	29	3.1	2.2	302																	31	5.7	4.1	230
0.9 ,,	28	2.8	1.2	292									31	2.0	0.8	347	31	3.8	3.3	262	31	5.4	3.0	257
1.5 ,,	24	4.1	2.7	103									31	3.5	2.1	308	31	3.8	3.2	270	31	5.8	5.7	262
2.1 ,,	20	6.1	5.7	081									31	5.3	4.1	306	31	4.4	3.4	287	31	7.9	7.4	266
3.0 ,,	15	8.2	8.0	067	23	6.4	6.3	274	10	8.5	8.5	268	30	7.0	6.0	303	31	5.4	3.7	296	31	12.2	10.8	278
3.6 ,,	10	8.9	8.7	068	21	11.5	10.8	277	8	10.3	9.9	281	28	8.7	7.8	290	31	7.1	5.1	295	31	13.6	12.7	282
4.5 ,,	3	9.8	9.8	085	7	16.2	14.8	281	5	14.0	13.6	280	21	10.6	8.8	281	28	9.2	7.9	294	31	16.1	15.4	286
5.4 ,,					1	4.5	4.5	280	4	22.9	22.8	278	15	13·2	11.9	279	24	14.7	13.4	288	31	17.5	16·4	284
6.0 ,,					1	6.0	6.0	260	4	26.7	26.7	280	10	14.6	13.8	276	23	17.6	16.6	283	31	18.7	17.7	285
7.2 ,,					1	8.0	8.0	275	3	30·7	30·4	280	5	12·2	11.6	282	9	18.3	17.5	284	29	18.5	17.4	277
9.0 ,,									1	34·0	34·0	290	3	18.3	17.7	264	2	19.3	19·3	292	20	22·3	21.5	269

Station	DUM DUM												GADAG											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.5	1.9	216	31	2.7	2.5	198	31	3.0	2.7	190	31	3.8	2·3	201	31	2.6	1.5	086	31	4.9	1.6	239
0.15 a. g.	31	4.2	2.7	230	31	6.8	5.7	197	31	7.4	6.9	200	31	6.2	2.2	230	31	3.8	1.7	085	31	8.8	2.4	235
0.3 a. m. s. l.	31	4.2	2.5	207	31	6.3	5.2	200	31	7.7	7.1	207												
0.6 ,,	31	4.6	3.5	241	31	5.6	4.6	211	27	6.6	5.7	219												
0.9 ,,	31	5.2	4.3	249	31	4.7	3.6	244	21	4.8	3.6	252	31	7.1	1.5	024	31	4.1	2.3	081	31	9.3	1.4	265
1.5 ,,	27	7.5	7.1	265	31	5.6	5.2	285	19	5.3	4.9	281	31	7.2	3.1	053	31	4.0	2.3	059	31	6.4	2.2	077
2.1 ,,	25	10.3	10.0	268	31	8.7	8.3	290	19	8.9	7.8	280	31	4.7	2.7	067	31	4.6	2.7	057	31	5.3	3.5	077
3.0 ,,	23	14.0	13.4	282	31	13.0	9.2	287	11	12.2	9.7	290	31	5.1	3.7	060	30	4.6	3.0	049	30	6.3	5.1	063
3.6 ,,	20	16.5	15.7	283	30	15.4	14.2	290	2	8.0	4.8	175	31	6.9	5.0	050	30	5.1	3.3	043	30	6.3	5.4	047
4.5 ,,	12	17.8	17.3	292	30	16.2	15.5	286					31	6.4	3.5	033	28	6.1	3.6	040	22	6.2	3.7	050
5.4 ,,	6	16.5	15.9	295	29	17.7	17.0	285					30	6.6	2.7	353	25	6.6	2.9	014	17	6.8	2.9	343
6.0 ,,	6	17.4	16.8	289	29	18.5	17.6	283					30	7.1	3.7	330	24	7.0	3.4	359	11	7.3	4.9	297
7.2 ,,	2	15.0	14.2	288	29	19.8	18.5	277					28	9.2	6.9	302	22	7.6	4.5	304	2	8.7	6.9	245
9.0 ,,	1	17.5	17.5	325	25	25.3	23.0	280					20	11.9	8.8	294	20	11.1	9.1	285	1	4·0	4·0	320

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.5	1.1	134	31	3.4	3.0	155	31	2.1	1.9	160	31	0.7	0.2	350	31	2.8	1.5	028	31	0.6	0.1	296
0.15 a. g. .	31	4.2	3.9	178	31	4.0	3.9	161	31	5.8	5.7	165	31	3.8	1.4	077	31	3.8	1.9	032	31	3.4	0.9	349
0.3 a.m.s. l. .	31	5.3	5.1	188	31	4.2	4.1	160	31	6.0	5.9	168	31	3.6	1.0	080	31	3.3	1.7	021	31	3.4	0.9	341
0.6 „ .	27	6.2	5.9	188	31	3.5	3.4	167	30	5.1	4.9	168	31	4.6	1.0	269	31	3.3	1.4	336	31	3.7	1.4	281
0.9 „ .	21	6.0	5.6	182	31	3.2	2.4	178	29	4.2	3.6	162	31	5.2	3.2	265	31	4·7	3·7	264	31	4.8	3.7	256
1.5 „ .	15	5.9	3.9	139	31	3.9	0.9	135	28	4.7	2.0	124	31	7.8	7.2	256	30	10.2	6.7	230	31	7.7	7.3	254
2.1 „ .	15	6.3	3.4	094	30	5.3	2.1	045	26	5.7	2.5	057	31	11.0	10.7	266	30	13.6	13.5	251	31	10.7	10.4	252
3·0 „ .	14	5.7	3.2	041	30	7.0	4.7	023	26	5.8	3.1	034	31	15.7	14.9	266	26	17.4	17.1	257	31	15.3	14.5	256
3·6 „ .	14	6.1	4.3	001	30	6.1	4.1	014	15	5.3	2.9	011	31	17.6	16.9	270	24	20.2	20.2	262	31	17.[illegible]	17.4	264
4·5 „ .	13	6.4	3.1	001	30	6.0	3·0	344	14	6.3	4.0	344	31	21.7	20.9	271	22	23.3	19.5	270	31	21.0	0.5	269
5.4 „ .	13	7.6	4.4	329	30	6·7	4.1	324	12	6.7	3.9	335	30	23.7	23.1	269	19	22.9	21.5	274	31	22.9	22.7	271
6·0 „ .	11	7.0	4.2	307	30	7.6	5.4	309	9	6·5	4.0	332	29	26.1	25.0	276	13	19.3	17.8	278	28	25.9	24.	275
7.2 „ .	8	9.9	7.9	303	19	9.4	7.7	297	3	6.5	6.2	310	25	26.8	26.2	277	7	21.0	20.9	284	27	29.5	29.1	273
9.0 „	4	17.5	11.5	293	15	13.1	11.2	280					19	28.6	27.2	277	4	25.6	25.5	283	20	31.5	30.7	274

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2.4	1.3	042	31	1.6	1.4	208	31	4.6	4.2	273	31	4 6	4 0	285	31	1.4	0.7	240	31	4 0	3.9	210
0.15 a. g. .	31	4.0	2.1	078	31	6.1	5.3	253	31	5.4	5.4	272	31	6.5	5.5	294	31	7.7	6.3	301	31	8.6	8.4	214
0.3 a. m.s. l. .	31	4.0	1.0	106	31	6.2	5.4	271	31	5.6	5.4	274	31	6.8	6.0	292	31	8.2	6.7	306	31	8.9	8.5	223
0.6 „ .	31	3.9	0.8	220	31	7.8	7.4	302	31	6.1	5.8	280	31	7.7	7.0	291	31	9.4	8.1	305	31	6.7	6.2	227
0.9 „ .	30	5.0	3 9	256	31	8.6	8.2	298	31	6.0	5.7	282	31	8.2	7.6	283	31	9.7	8.9	295	31	5.6	4.7	239
1.5 „ .	27	8.2	7 9	258	31	11.0	10.7	290	20	8.3	8.2	285	28	9.6	9.0	273	28	10.3	9.6	281	30	5.1	3 6	267
2.1 „	23	10.7	10.7	259	26	13.0	12.6	284	8	11.1	10.7	286	26	11.5	10.6	271	16	11.4	10.4	279	30	6.1	4.2	289
3.0 „ .	16	12.2	11.4	263	9	15.4	14.8	280	2	12.5	12.1	263	11	12.6	11.9	277	3	9.2	7.3	275	23	7.2	4·6	308
3.6 „ .	8	10.4	9.9	270	1	6.0	6.0	305	1	20.0	20.0	260	4	14.3	13.9	264					15	8.0	5.6	331
4.5 „ .	3	12.3	11.7	270	1	9.5	9.5	310					2	10.7	10.6	283					8	7.9	6.8	331
5·4 „ .					1	12 5	12.5	310													4	7.4	4.8	335
6.0 „ .																					2	5.7	4.9	346
7.2 „ .																					1	4.5	4.5	325
9.0 „ .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	8·5	8.4	203	31	7.5	7.4	205	31	1.8	0.6	275	31	2.2	1.8	273	31	0.7	0.6	284	31	1.7	1.4	302
0.15 a. g.	30	12.0	11.8	199	31	11.5	11.3	209	31	7.5	4.1	298	31	5.7	5.0	281	31	4.9	1.8	318	31	4.6	4.0	332
0.3 a. m. s. l.	30	11.8	11.5	201	31	9.8	9.7	213	31	8·4	5.1	298	31	6.2	5.6	280	31	3.8	1.6	295	31	3.9	3.4	331
0·6 "	30	6.1	5.5	196	30	6.5	5.8	214	31	8·8	5.9	300	31	7.4	6.8	280	31	6.1	2.7	325	31	5.1	4.4	322
0.9 "	30	3.4	1.9	206	30	4.1	2.9	212	31	9.1	7.6	298	31	8.0	7.4	280	31	6.1	4.1	310	31	5.2	4.3	309
1·5 "	30	3.8	2.2	275	30	3.4	1.9	270	31	10.3	9.5	293	31	9.2	8.7	282	31	7.5	6.7	297	31	5.9	4.9	292
2.1 "	30	6.1	4.8	295	30	4.9	4.1	291	31	12.7	12.0	291	31	11.5	11.0	288	31	9.9	9·0	292	31	7.8	6.3	284
3.0 "	26	9.1	7.9	313	29	7.8	6.8	302	27	14.3	13.9	292	31	15·1	14.5	287	30	11.9	11.3	283	30	10.6	9.9	277
3·6 "	23	10.9	9.6	314	10	7.8	6.7	322	17	13.8	13.0	283	31	16.6	16.2	287	27	13.2	13.1	283	29	13.5	12.6	276
4.5 "	19	11.4	10.3	308	1	6.0	6.0	260	11	15.3	14.9	287	26	17.5	16.7	291	26	16.7	16.2	278	29	17.6	16.9	278
5.4 "	17	12.2	11.2	306					7	14.7	14.3	287	22	19.1	18.2	300	24	19.6	19.2	277	24	20.6	19.9	281
6.0 "	14	11.7	10.7	299					4	16.3	15.9	275	18	20.0	19.5	286	21	20.9	20.4	282	22	22.1	21.5	278
7.2 "	3	10.3	10.3	320					1	30.0	30.0	270	11	21.1	20.2	283	14	21.9	21.8	282	17	27.6	26.7	276
9.0 "	2	11.7	11.7	303									6	26.6	26.3	283	8	25.6	25.1	274	6	23.0	21.6	284

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0.6	0.2	288	31	1.0	0.5	207	31	3.2	1.8	220	31	2.9	2.2	245	31	1.9	0.7	177	31	0.6	0.4	210
0.15 a. g.	31	4.5	3.1	013	26	1.9	0.6	220	30	4.1	3.0	227	29	4.4	3·9	248	25	2.3	0.8	247	31	4.7	0.8	149
0.3 a. m. s. l.	31	3.5	2.2	017																				
0.6 "	31	5.1	3.5	348																	31	6.1	0.6	120
0.9 "	31	5.4	3.7	319	26	1.8	0.7	232	30	4·3	3.2	222	29	4.2	3.4	246	25	2.2	0.6	249	31	6.8	2.0	344
1.5 "	31	6.4	5.4	282	26	5.4	4.8	255	29	6.2	5·6	255	29	7.1	6.7	254	25	5.1	4.5	260	31	7.6	5.2	297
2.1 "	29	8.0	7.2	272	24	9.9	9.5	260	26	9.5	9.2	262	28	10.0	9.5	254	25	9.8	8.3	263	31	9.4	8.6	288
3.0 "	24	9.5	9.0	279	17	12.6	12.1	278	15	11.4	10.7	271	23	14.3	13.7	260	21	13.5	12.6	263	28	12.2	10.9	277
3.6 "	11	11.3	10.8	268	6	11.8	11.1	273	3	12.0	11·6	275	20	13.2	12.5	267	9	12.1	11·0	271	22	13.5	12.6	283
4.5 "	1	4·5	4.5	290	2	14.3	13.7	246					15	16.9	15.2	273	3	9.5	9.0	243	16	14.7	12.8	280
5.4 "													9	20.0	17.6	288	1	8.0	8.0	270	7	13.8	13.0	293
6.0 "													6	17.5	15.9	284					5	10.8	10.5	301
7.2 "													3	21.8	21.8	275					3	11.0	10.5	289
9·0 "													1	7.5	7.5	260								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

March 1961 (Phalguna 10,1882—Chaitra 10, 1883 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.9	1.4	290	31	1 8	0.4	040	31	0.1	0 0	186	31	1.4	1.1	237	31	0.9	0.3	169	31	2.0	1.2	037
0·15 a. g. . .	31	5.1	3.4	297	31	7.4	3.5	019	31	5·0	4.0	218	31	4.4	3·1	250	31	6.3	4.7	217	31	5.2	1.7	045
0·3 a. m. s. l. .																								
0·6 „ .	31	5.3	3.6	298	31	7·9	4.2	019	31	2.4	1.7	214	31	3.0	2.1	254	31	4.9	3.5	211	31	5.4	1.3	028
0·9 „ .	31	5.6	4·0	297	31	7.5	3.9	001	31	6.7	5.7	233	31	4.9	3.4	247	31	6.2	4.6	229	31	5.9	1.8	319
1·5 „ .	31	5.0	3·9	292	31	6.3	3.7	302	31	5.1	3.8	258	30	4.7	3·4	263	31	4.7	3.3	270	31	7.9	6.0	289
2·1 „ .	31	5.4	4.6	283	30	7.0	5.9	277	29	6.0	4.5	307	30	4.8	3.7	259	31	4.8	3.4	300	26	8.3	7.1	293
3·0 „ .	31	8.8	8.3	275	29	11.2	10.2	264	27	7.7	6.1	315	28	6.0	4.4	303	27	6.6	5.7	307	16	8.2	7.9	281
3·6 „ .	31	12.6	12.2	274	20	11.9	10.9	275	26	9.4	7.5	308	28	7.5	6.0	312	9	9.3	8.7	313	11	9.7	9·1	278
4·5 „ .	29	17·2	16·5	281	3	15.8	15.5	281	20	8.9	6.3	324	26	9.0	7·8	321	1	4·5	4·5	330	6	11·3	10.7	274
5·4 „ .	27	20·2	19·2	284					17	8·5	7·2	320	20	11·7	10·0	303					1	8·5	8·5	265
6·0 „ .	23	20·9	20·4	289					13	7·6	8·1	322	17	13·1	11·4	293								
7·2 „ .	11	19·1	17·8	289					2	14·5	13·7	295	10	16·5	14·8	282								
9·0 „ .													1	21 0	21·0	325								

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I. S. T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3.5	3.2	300	31	2.6	1.6	040	31	1.4	1.2	290	31	1·7	1.1	271	31	1.8	1.7	293	31	1.6	0.9	032
0.15 a. g. . .	31	4.8	3.9	283	31	6.6	2.7	005	31	3.4	2.9	283	31	3·0	1.9	274	31	3.2	1.9	281	30	4.5	1.7	045
0.3 a. m. s. l. .									31	3.5	2.5	276	31	3·0	2.0	273	31	3.3	2·0	279	30	3.9	1.6	040
0.6 „ .	31	5.0	3.9	280	31	6.5	2·5	360	31	4.5	2.6	289	31	3.6	2.7	270	31	3.5	2.6	272	30	5.7	1.1	205
0.9 „ .	31	5.4	3·7	281	31	6.0	2.6	335	31	5.4	3.4	295	31	4.3	2.9	279	31	6.1	2.9	273	30	5.9	1.9	319
1.5 „ .	31	5.6	4.7	284	31	5.9	4.1	280	31	6.7	5.5	276	31	6.4	5.5	276	31	4.7	4.2	270	30	5.5	4.2	286
2.1 „ .	29	5.4	4.7	291	31	7.4	6.3	277	31	9.4	9.1	272	26	8.6	7.7	287	30	6 2	5.9	273	29	8.8	8.2	285
3.0 „	26	8.0	4.9	276	21	8.8	7.6	272	27	14.9	14·3	281	7	10.0	9.0	280	29	11.1	10.2	283	28	13.3	12.4	286
3.6 „ .	23	6.3	5.3	275	12	10·6	7.9	250	20	16.7	15·7	285					29	15.5	14.4	288	17	14.5	12.7	294
4.5 „ .	22	17.4	16.1	275	4	13·0	12.3	261	6	13.7	13·0	287					26	18.1	17.3	292	6	10.8	9.5	306
5.4 „ .	17	17·5	17.2	280	1	14·5	14·5	280									19	17.2	16.1	285				
6.0 „ .	14	19.5	18.8	282													11	24.2	23.4	282				
7.2 „ .	6	19.2	18·9	281													2	23.0	22.7	283				
9.0 „ .	2	18·8	18·8	272																				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·3	234	31	1·7	0·2	096	30	2·3	0·6	355	31	2·5	0·7	245	31	3·8	2·8	280	31	2·7	1.1	340
0·15 a.g.	31	3·5	2·2	233	31	4·9	1·8	232	30	7·1	1·6	358	31	3·5	1·3	224	31	5·9	3·6	300	31	7·1	2·4	337
0·3 a. m. s. l.	31	3·5	2·2	230	31	4·1	1·0	206	30	5·7	1·7	019	31	3·2	1·2	237	31	5.0	3·2	289	31	5·8	2·2	359
0·6 ,,	31	3·7	2·6	250	31	5 5	2·8	256	30	6·4	0·9	329	31	4·4	1·8	232	31	4.7	3·2	283	31	7·1	3·0	321
0·9 ,,	31	3·8	2·9	265	31	4 9	3·2	272	30	6·1	2·8	274	31	5·2	2·5	253	31	4·4	3·0	262	31	7·0	4·0	287
1.5 ,,	31	5·2	4·7	286	31	4 9	4·4	297	30	6·2	4·2	261	31	6·9	4·6	271	31	5·3	4·0	259	30	6·5	4·9	263
2·1 ,,	31	6 5	6·0	292	31	6·9	5·9	280	30	7·9	6·1	269	30	7·4	5·3	276	31	6·1	4·3	268	27	6·6	5·2	259
3·0 ,,	27	10·3	9·6	296	21	9·3	8·9	292	30	9·5	8·4	272	29	9·1	7·8	272	31	8·2	7·1	273	25	8·2	6·7	267
3·6 ,,	26	13·2	12·3	297	10	11·5	10·5	306	30	11·2	9·9	273	27	11·8	10·0	271	31	11·3	10·1	270	15	9·2	7·2	272
4·5 ,,	22	15·3	14·6	298					29	14·6	13·6	273	24	14·5	13·4	272	31	14·6	13·5	273	8	12·6	11·4	269
5·4 ,,	16	16·4	15·1	297					29	17·4	16·5	274	21	15·7	14·5	278	31	17·3	16·1	273	4	16·4	15·1	280
6·0 ,,	12	15·2	14·0	296					29	19·7	18·8	270	18	16·9	15·9	275	28	18.7	18.0	272	3	18·5	17·3	297
7·2 ,,	5	13.4	13.0	295					29	23·3	22·1	271	10	21·7	20·6	276	27	21.1	20.0	272	2	23·3	21·7	279
9·0 ,,	2	12.5	12.2	278					22	28·0	26·5	275	2	27.0	26·2	294	24	23.0	22.3	271	1	37·0	37·0	295

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·5	190	31	3·2	1·8	170	31	4·8	4·2	125	31	2·3	2·0	324	31	1·7	1·2	278	31	2·9	2·2	347
0·15 a.g.	31	4·9	4·0	190	30	5·1	3·7	170	31	5·8	5·1	138	31	6·3	5·9	150	31	3·8	2·7	344	31	4.4	3·6	321
0·3 a. m. s. l.	31	5·2	4·4	187	30	5·1	4·1	179	31	5·4	4·5	146	31	6·3	5·7	153	31	3·5	2·4	189	31	4·5	3·5	017
0·6 ,,	31	5·6	4·9	180	30	4·7	3·5	183	31	4·3	3·4	155	31	4·9	4·3	156	31	3·5	2·1	002	31	4·3	3·0	351
0·9 ,,	31	5·1	4·4	178	31	4·5	2·8	172	31	3·6	2·5	145	31	4·0	3·4	142	31	4·0	1·9	064	31	4·5	2·1	037
1·5 ,,	31	6·7	4·8	127	31	6·9	4.9	100	31	5·5	4·5	095	31	6·4	5·5	100	30	6·3	5.7	076	30	5·8	4·6	076
2·1 ,,	31	7·6	6·0	080	26	8·9	7·8	073	31	7·9	6·7	076	31	7·4	6·4	085	26	8·3	8·2	082	29	8·5	8·1	072
3·0 ,,	31	8·2	7·3	058	22	8·0	6·9	065	31	7·5	6·8	062	28	6·5	6·0	059	25	8·3	8·2	091	26	9·3	9·1	087
3·6 ,,	31	7·3	6·5	060	18	7·2	6·6	060	31	6·6	5·9	055	28	5·9	5·3	060	25	6·1	6·0	085	24	7·8	7·5	076
4·5 ,,	30	7·0	5.9	060	18	7·2	5·2	072	30	6·3	4·8	062	26	5·7	3·3	062	20	6·4	6·0	080	22	7·6	7·1	080
5·4 ,,	29	6·1	4·8	053	17	7·6	4·2	075	30	5·5	2·6	039	16	6·0	2·2	041	18	7·3	6·5	075	15	6·8	6·4	074
6·0 ,,	29	5·6	3·6	044	14	7·1	3·5	070	30	5·5	2·7	020	10	6·1	2·1	006	16	6·7	5·9	072	15	7·7	6·9	066
7·2 ,,	31	6·7	3·2	336	13	7·1	2·6	001	30	6·4	3·3	350	1	2·0	2·0	355	9	6·3	2·3	054	10	6·6	5·1	068
9·0 ,,	29	9·3	5·9	285	11	9·1	3·1	289	30	9·4	6·5	300					3	6·5	6·0	265	3	6·0	3·7	348

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	1·6	338	31	1·6	1·4	044	31	2·0	1·8	041	31	1·6	1·3	047	31	1·3	1·0	060	31	1·4	1·2	333
0·15 a.g.	31	3·4	2·5	337	28	6·3	5·9	050	26	3·8	3·4	058	28	5·0	4·7	054	23	5·6	5·0	048	31	6·0	3·0	025
0·3 a. m. s. l.	31	3·3	2·2	343	28	6·6	6·3	050	26	3·9	3·5	055	28	5·1	4·8	058	23	5·9	4·9	050				
0·6 ,,	31	3·4	1·5	181	28	5·5	4·5	065	26	4·0	3·6	062	28	5·4	5·2	073	23	5·4	3·8	065	31	6·2	2·9	015
0·9 ,,	31	4·1	1·3	072	27	4·2	2·3	081	26	3·6	1·8	075	26	3·9	2·9	083	23	3·8	2·3	096	31	6·7	2·0	332
1·5 ,,	30	5·8	4·9	084	24	5·3	3·1	226	25	5·3	3·4	220	25	4·7	3·7	234	21	3·7	1·6	209	31	5·6	3·2	270
2·1 ,,	28	8·0	7·5	082	17	7·5	6·7	233	20	7·6	7·3	232	22	7·8	7·6	233	18	5·0	4·1	234	31	6·7	5·5	261
3·0 ,,	23	8·0	7·8	083	11	6·8	5·8	240	13	9·3	8·5	247	14	11·0	10·6	238	13	9·8	8·9	249	31	9·0	8·0	270
3·6 ,,	15	7·6	7·3	079	5	5·9	4·0	277					10	10·4	8·6	247	2	4·0	3·1	309	31	10·7	10·1	278
4·5 ,,	5	6·2	5·7	077	2	8·0	5·8	294					7	16·4	12·4	267	1	7·5	7·5	350	31	11·9	10·7	290
5·4 ,,					2	12·7	10·1	300					4	15·5	10·5	307	1	12·5	12·5	350	31	13·6	12·6	291
6·0 ,,					2	14·0	13·0	321					3	14·5	12·3	329					31	14·4	13·3	290
7·2 ,,													1	14·5	14·5	290					31	16·8	15·3	283
9·0 ,,																					30	19·5	17·7	280

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I.S.T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·9	247	31	1·9	1·5	282	31	2·2	0·6	304	31	0·7	0·6	289	31	1·7	1·2	298	31	2·3	1·9	326
0·15 a.g.	31	3·2	0·9	259	31	3·8	2·4	288	31	7·2	1·1	341	31	6·2	3·5	313	31	5·2	4·2	289	31	7·2	6·0	331
0·3 a. m. s. l.													31	6·3	3·6	311	31	5·3	4·4	290	31	3·8	3·1	332
0·6 ,,	31	3·5	0·5	234	31	4·1	2·6	284	31	7·3	1·1	346	31	7·3	5·4	313	31	6·6	5·7	287	31	6·6	5·7	328
0·9 ,,	31	3·6	1·0	252	31	4·2	2·6	279	31	6·1	1·8	320	31	8·0	6·6	309	31	7·3	6·5	288	31	6·3	5·3	320
1.5 ,,	31	4·4	3·0	266	31	4·6	3·3	269	31	4·5	2·7	261	31	8·3	7·6	303	31	8·5	7·8	291	31	7·3	6·3	301
2·1 ,,	31	6·3	5·5	272	31	5·1	4·0	264	30	4·9	4·3	261	31	9·5	8·9	300	31	9·7	9·2	295	31	9·0	7·8	294
3·0 ,,	31	8·9	7·8	275	31	6·9	5·9	270	29	7·4	6·3	269	28	12·6	12·3	296	30	12·0	11·4	296	31	10·0	9·4	290
3·6 ,,	31	9·9	9·1	280	31	9·3	8·4	280	14	8·3	7·3	293	21	11·7	11·3	293	30	13·8	13·1	294	30	11·4	10·8	285
4·5 ,,	30	12·0	10·5	287	31	12·3	11·5	285	1	1·5	1·5	295	12	13·7	13·0	289	29	15·7	15·1	292	30	14·2	13·3	282
5·4 ,,	29	13·7	13·0	290	31	13·3	12·6	290					9	14·2	13·5	284	26	19·2	18·6	291	30	16·8	16·5	279
6·0 ,,	27	15·0	13·8	285	31	18·1	13·8	287					4	14·7	14·4	266	18	20·3	19·7	284	30	19·3	18·8	278
7·2 ,,	17	16·7	15·2	280	31	16·9	15·4	284					1	8·5	8·5	295	13	24·0	23·3	286	30	23·7	21·7	280
9·0 ,,	5	16·9	15·2	294	31	20·9	19·7	279									4	30·6	29·6	278	28	28·5	27·4	278

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·6	3·0	309	31	2·2	2·1	279	31	2·2	1·6	327	31	0·4	0·4	225	31	2·2	1·5	306	31	1·2	1·0	249
0·15 a. g.	31	4·9	3·7	307	31	5·5	4·5	314	31	7·5	5·2	335	31	2·8	2·1	291	31	4·0	3·1	287	31	4·7	4·5	280
0·3 a. m.s. l.	31	4·5	3·2	311	31	3·3	2·8	308	31	5·8	4·4	338												
0·6 „	31	5·2	3·7	306	31	5·3	4·6	310	31	7·4	5·6	333	31	2·0	1·7	236	31	3·2	2·4	295	31	2·7	2·5	257
0·9 „	31	6·3	5·1	309	31	5·1	4·2	305	31	6·8	4·9	320	31	4·1	2·7	330	31	4·4	3·3	290	31	5·7	5·5	298
1·5 „	31	7·4	6·8	315	31	5·6	4·7	298	31	6·9	5·3	304	31	6·0	3·5	008	31	4·9	3·7	302	31	5·8	4·7	308
2·1 „	31	7·8	6·8	308	31	7·0	5·8	291	30	8·6	6·6	290	31	5·7	1·5	294	31	4·8	3·3	301	31	4·8	1·3	292
3·0 „	30	10·1	9·0	292	31	8·9	7·7	284	23	9·4	6·9	292	31	5·0	2·1	224	30	5·5	2·2	304	30	5·1	1·5	151
3·6 „	30	12·8	11·9	282	31	11·1	10·5	285	5	8·8	8·0	309	24	5·0	1·1	278	29	5·7	1·8	320	26	5·8	0·7	129
4·5 „	29	16·3	16·3	282	31	14.9	14·2	284	3	12.8	7·7	284	11	7·2	3·7	320	28	7·2	3·0	320	15	6·6	2·4	336
5.4 „	25	20·1	19·5	281	31	19.1	17·7	280	1	28.5	28·5	295					27	9·0	5·0	308	5	5·5	4·1	327
6·0 „	21	19·9	19·1	282	31	20·3	19·7	278	1	30·5	30·5	290					26	8·6	6·1	295	2	3·0	2·3	290
7·2 „	11	19·9	18·7	288	31	24·0	22·9	279	1	32·5	32·5	295					16	12·6	11·0	283				
9·0 „	5	25·6	24·2	266	25	28·4	27·6	281	1	42·0	42·0	300					5	16·0	15·2	285				

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·8	045	31	2·6	2·0	062	31	1·5	1·1	054	31	1·7	1·1	034	31	1·8	0·5	279	31	1·8	1·0	258
0·15 a. g.	31	4·1	2·6	036	31	3·6	3·0	070	31	4·0	3·3	070	31	3·7	2·6	049	31	7·1	1·1	352	31	4·0	3·1	276
0·3 a. m. s. l.	31	4·0	2·5	038	31	3·8	3·1	065	31	4·1	3·4	067	31	3·6	2·7	055								
0·6 „	31	4·4	2·8	069	30	4·2	3·0	069	31	4·4	3·4	060	31	4·0	3·3	073	31	7·7	1·3	337	31	4·1	3·3	270
0·9 „	30	5·0	3·5	095	28	4·4	3·2	086	31	4·8	3·6	066	31	4·1	3·6	093	31	6·7	5·5	318	31	4·3	3·5	271
1·5 „	29	5.8	4·8	096	25	5·2	4·5	089	31	5·2	4·5	082	27	5·0	4·4	094	31	5·3	2·3	294	31	4·7	4·1	271
2·1 „	29	5·9	4·9	092	23	5·6	4·4	085	29	6·0	4·9	081	24	4·7	4·0	089	31	6·0	4·8	285	31	5·8	5·2	272
3·0 „	29	5·1	4·5	088	20	4·5	3·4	087	27	5·8	4·1	074	17	3·9	2·6	086	26	8·8	7·8	280	31	9·5	8·8	281
3·6 „	28	5·3	3·6	082	18	4·1	3·0	077	25	5·6	3·7	069	12	3·1	2·2	081	16	10·9	8·4	275	31	11·5	10·7	284
4·5 „	29	4·9	3·0	060	17	4·3	3·5	067	26	4·7	2·3	037	5	3·6	1·6	151	4	13·5	11·5	280	27	13·7	12·5	286
5·4 „	27	5·0	2·3	042	16	4·6	3·5	075	24	5·0	1·3	018	4	4·4	3·9	127	1	10·0	10·0	330	22	16·2	14·6	288
6·0 „	27	5·6	1·3	011	16	4·6	1·7	066	19	5·3	0·5	290	3	3·3	2·8	091					18	17·8	15·7	288
7·2 „	27	7·7	1·9	285	8	6·2	0·7	135	19	10·0	4·5	235									11	18·6	17·0	278
9·0 „	20	12·4	8·3	229	1	16·0	16·0	230	16	12·3	9·2	242									1	17·0	17·0	280

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·4	0·6	271	31	0·5	0·1	098	31	1·5	0·3	134	31	1·3	0·8	270	31	1·0	0·7	061	31	1·5	0·8	291
0·15 a. g. .	31	6·9	1·6	288	31	5·6	0·6	112	31	4·6	1·0	167	31	5·0	3·8	272	31	5·2	4·3	011	31	2·6	1·4	330
0·3 a. m. s. l. .					31	6·3	1·1	149	31	4·4	1·0	166	31	5·0	4·0	271	31	5·3	3·8	007	31	3·1	2·1	011
0·6 ,, .	31	6·8	2·3	288	31	6·3	1·2	257	31	5·0	1·0	206	31	5·5	4·6	265	31	5·6	4·5	009	31	4·4	3·1	026
0·9 ,, .	31	5·6	2·7	278	31	6·0	2·7	281	31	4·9	1·7	243	31	6·0	5·1	265	31	6·5	5·6	007	31	5·6	3·8	026
1·5 ,, .	31	5·2	4·0	275	30	6·4	4·9	287	29	6·1	4·4	286	31	8·1	7·0	272	31	6·5	4·9	348	30	6·2	2·8	345
2·1 ,, .	31	6·8	5·9	277	28	9·0	8·2	287	27	8·0	6·9	280	26	7·5	7·1	278	31	6·2	3·3	305	30	6·1	3·0	302
3·0 ,, .	27	9·0	7·7	281	20	10·7	10·3	284	16	9·8	9·4	286	21	11·6	11·4	289	31	7·0	3·3	237	29	6·1	3·0	245
3·6 ,, .	12	10·3	8·7	280	13	11·9	11·0	280					16	13·4	13·3	289	31	7·4	3·2	239	29	6·8	3·1	245
4·5 ,, .					9	11·2	10·8	281					13	13·4	13·2	288	31	7·4	4·6	293	28	7·6	3·5	280
5·4 ,, .					6	14·8	13·7	286					6	17·5	17·1	282	31	9·4	7·2	300	28	9·1	5·8	293
6·0 ,, .					2	14·7	14·3	302					3	19·6	19·3	281	31	10·3	8·4	294	27	10·1	7·6	288
7·2 ,, .					1	12·0	12·0	275					2	20·0	20·0	295	31	12·7	11·1	291	23	12·7	11·0	281
9·0 ,, .																	27	19·0	17·1	288	8	19·2	17·3	277

Station	SANTA CRUZ								TIRUCHIRAPALLI												TRIVANDRUM			
Time in I. S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·0	3·4	313	31	1·6	0·8	305	31	1·9	0·2	047	31	4·2	3·4	096	31	3·8	2·9	120	31	1·9	1·4	356
0.15 a. g. .	31	7·3	6·6	313	31	4·8	3·1	329	31	4·9	1·2	127	31	5·7	4·9	096	31	7·5	5·2	130	31	4·2	3·6	345
0.3 a. m. s. l. .	31	6·7	6·1	320	31	5·5	4·3	339	31	4·9	1·3	134	31	5·6	4·7	099	31	7·8	5·6	131	31	4·1	3·6	347
0·6 ,, .	31	4·8	3·9	329	31	6·5	5·3	341	31	5·2	2·0	145	31	5·2	4·3	103	31	8·1	6·3	131	31	4·0	2·8	346
0·9 ,, .	31	5·0	3·7	334	30	6·2	5·0	347	30	5·2	2·6	149	31	4·7	4·0	102	31	6·2	5·0	120	31	3·5	2·0	357
1·5 ,, .	31	5·5	3·2	320	30	5·6	4·2	340	30	4·5	2·8	098	31	5·4	4·4	079	31	5·4	4·4	078	31	4·4	3·4	057
2·1 ,, .	31	6·2	3·4	302	29	5·2	2·8	304	30	8·3	7·5	068	31	7·3	6·2	063	31	7·5	6·9	071	31	7·7	7·1	073
3·0 ,, .	30	6·7	2·7	267	29	6·6	2·0	235	28	9·4	8·8	064	31	8·9	8·3	055	31	9·4	8·5	062	31	8·0	7·6	073
3·6 ,, .	30	6·8	2·6	274	21	6·8	2·4	223	28	8·6	8·1	071	30	8·4	8·0	064	25	8.6	8·1	067	31	7·0	6·9	081
4·5 ,, .	30	7·7	3·6	305	11	5·9	1·9	295	27	7·4	6·6	079	27	6·5	5·9	065	16	7·7	7·3	075	31	6·6	6·2	082
5·4 ,, .	30	9·9	7·0	302	3	7·8	5·7	282	24	7·3	6·2	069	26	5·9	4·7	069	6	7.8	6·0	063	31	6·8	6·1	078
6·0 ,, .	30	10·4	8·2	300	2	8·3	4·5	255	18	5·8	3.9	061	26	6·4	4·8	049	1	5.0	5·0	295	31	7·5	6·3	059
7·2 ,, .	31	12·2	10·6	288					8	4·4	1·9	265	21	7·9	4·6	030					31	7·1	3·8	058
9·0 ,, .	30	18·3	16·7	282					2	9·0	7·5	286	9	8·6	0·4	333					31	9·7	2·2	324

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	TRIVANDRUM												UDAIPUR											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	1·3	289	31	3·8	3·2	267	31	1·8	1·6	313	31	0·5	0·4	300	31	1·4	1·0	284	31	0·6	0·5	283
0·15 a.g.	31	3·5	2·4	280	31	5·2	4·4	279	31	3·7	3·0	308	31	3·0	1·7	315	31	4·4	2·5	299	31	3·6	2·3	305
0·3 a.m.s.l.	31	3·6	2·5	287	31	5·2	4·2	280	31	3·8	3·0	308												
0·6 ,,	31	3·1	2·2	320	31	4·4	2·5	275	31	4·0	2·7	323												
0·9 ,,	28	3·2	2·2	002	31	3·6	0·7	013	30	4·3	2·4	013	31	4·6	1·6	303	31	4·7	2·9	297	31	5·1	3·1	310
1·5 ,,	20	4·2	3·3	060	31	6·8	6·4	058	28	5·9	5.0	054	31	7·5	4·2	290	31	4·9	3·4	285	31	6·0	4·1	297
2·1 ,,	13	7·5	7·2	080	31	8·6	8·2	062	26	8·4	8·0	114	31	8·4	6·7	278	31	5·4	4·5	283	31	5·8	4·0	279
3·0 ,,	9	8·4	8·2	086	31	8·7	8·2	072	24	9·6	9·3	074	29	8·6	7·5	274	31	8·7	7·8	280	29	8·1	7·0	278
3·6 ,,	8	8·8	8·4	089	31	7·0	6·7	083	18	5·9	5·7	077	26	9·6	8·3	278	31	11·8	11·1	277	15	9·7	7·8	262
4·5 ,,	6	9·7	8·9	077	31	6·5	5·8	080	10	5·7	5·1	058	20	13·2	12·4	278	29	16·1	14·9	276	4	8·6	8·3	241
5·4 ,,	6	9·2	7·7	067	31	7·1	6·1	073	2	4·7	2·0	005	13	15·3	14·5	285	29	19·9	18·6	278				
6·0 ,,	4	7·1	6·8	059	31	7·2	5·8	059	2	4·5	3·8	347	7	11·8	11·4	279	26	20·7	19·3	281				
7·2 ,,	3	5·5	3·3	025	31	7·9	5·0	040	1	4·0	4·0	015					21	21·1	16·7	275				
9·0 ,,	1	11·0	11·0	320	30	9·0	2·4	312									5	21·3	20·6	279				

Station.	VENGURLA												VERAVAL											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·2	0·1	077	31	2·5	2·2	284	31	0·3	0·3	339	31	3.0	2·8	356	31	4·3	2·8	333	30	5·5	4·8	288
0·15 a.g.	31	3·7	1·5	015	31	4·2	3·9	279	31	4·1	3·9	340	31	6·6	5·7	355	31	5·1	4·1	348	30	7·2	6·8	293
0·3 a.m.s.l.	31	4·3	2·1	358	31	4·7	4·2	280	31	4·9	4·7	343	31	6·3	5·4	355	31	5·0	4·1	355	30	6·5	6·0	303
0·6 ,,	31	5·2	3·1	354	31	4·0	3·0	285	31	4·8	4·6	338	31	5·2	4·5	354	31	5·3	4·3	352	30	5·1	4·2	318
0·9 ,,	30	6·6	4·7	352	31	3·6	2·2	310	31	4·7	4·4	327	31	5·0	4·0	343	31	5·7	4·3	347	30	4·8	3·8	343
1·5 ,,	27	5·4	2·8	355	31	3·6	2·5	352	31	5·1	3·4	336	31	4.4	3·0	323	31	5·6	3·7	316	30	5·3	3·9	355
2·1 ,,	25	4.1	2·0	095	30	4·6	2·8	056	30	4·9	3·5	088	31	4·4	2·7	310	31	6·4	4·1	294	30	5·9	3·8	353
3·0 ,,	24	5·5	4·0	097	29	6·5	4.4	071	30	6·9	5·8	091	31	6·5	4·2	296	31	7·5	5·3	277	30	6·0	4·3	300
3·6 ,,	9	6·4	4·5	084	29	8·3	5·4	061	15	7·0	5·2	088	31	7·3	4·5	288	30	8·4	6.0	275	30	6·5	4·9	295
4·5 ,,	2	2·5	2·3	055	28	6·9	2·9	051					31	7·9	6·0	285	31	9·4	7·3	281	30	8·1	6·5	295
5·4 ,,					27	7·4	3·4	016					31	9·8	8·6	290	31	12·4	11·1	279	30	9·3	7·9	294
6·0 ,,					26	7·7	2·8	349					31	10·7	9·7	295	30	13·3	12·2	278	30	10·0	9·2	293
7·2 ,,					18	8·6	4·9	297					31	13·2	12·1	288	22	17·7	16·7	277	30	11·4	10·7	288
9·0 ,,					3	11·0	10·5	304					28	17·0	16·1	287	12	20·7	19·7	278	26	15·4	14·7	287

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Station	VERAVAL				VISAKHAPATNAM															
Time in I.S.T.	2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·5	3·1	322	31	2·0	1·1	285	31	4·1	3·8	215	31	2·0	1·7	239	31	2·0	2·0	223
0·15 a. g. .	31	8·9	7·9	323	31	6·6	5·9	291	31	4·7	4·6	217	31	6·0	5·1	243	31	4·8	4·7	220
0·3 a. m. s. l. .	31	9·7	8·9	326	31	6·6	6·1	269	31	4·3	4·2	217	31	6·2	5·5	236	31	5·9	5·9	225
0.6 ,, .	31	8·8	8·0	330	31	6·8	6·5	233	31	4·7	4·5	235	31	6·8	6·5	230	30	6·9	6·7	235
0·9 ,, .	30	7·7	6·4	336	31	6·6	5·7	237	31	5·1	4·9	236	31	6·6	6·1	234	28	6·1	5·6	240
1·5 ,, .	30	5·9	3·9	341	31	5·4	3·2	252	31	4·7	2·9	253	31	4·9	2·3	247	25	4·9	2·3	232
2·1 ,, .	30	6·3	3·7	315	31	5·1	2·6	317	31	4·9	1·7	314	31	5·5	3·3	327	25	4·1	1·2	359
3·0 ,, .	30	7·5	5·1	285	31	7·4	5·5	346	30	7·4	4·3	333	31	8·1	6·3	329	24	5·7	3·8	352
3·6 ,, .	25	8·1	5·4	277	31	7·8	5·7	326	28	7·4	5·0	343	31	8·5	7·1	330	23	6·6	4·8	343
4.5 ,, .	18	7·6	4.9	265	31	8·6	6·5	312	28	7·0	4·8	316	31	8·1	6·1	314	21	5·6	3·9	320
5·4 ,, .	10	7·3	5·5	265	31	9·9	7·6	307	28	7·1	5·2	308	31	9·5	6·9	300	17	6·3	4·4	303
6·0 ,, .	5	9·1	8·9	262	31	10·2	8·1	295	27	8·8	6·8	300	31	10·4	8·2	295	10	6·7	4·7	295
7·2 ,, .	1	5·5	5·5	245	31	12·0	9·9	252	26	11·2	9·4	252	31	12·5	11·2	283	2	6·3	5·9	305
9·0 ,, .	1	11·5	11·5	270	30	15·9	14·2	281	25	15·4	14·1	278	29	15·8	14·5	278				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	1730 hr.			
10.5	1	27·0	27·0	300
12.0	1	18.0	18.0	290
	AMAUSI			
	1730 hr.			
10.5	2	37.0	37.0	283
	AMBALA			
	0530 hr.			
10.5	1	33.5	33.5	279
12·0	1	42·5	42·5	273
14.1	1	41.0	41.0	270
16·2	1	28.5	28.5	265
	ANANTAPUR			
	0530 hr.			
10.5	17	11.8	8.5	293
12.0	10	9.7	8.5	274
14·1	6	10·3	8·0	247
16.2	3	11.7	11.3	245
18.0	2	4.7	3.8	307
21.0	2	7.5	6.5	245
	1730 hr.			
10.5	24	15.6	11.3	296
12.0	18	18.7	13.7	276
14.1	11	17.1	15.7	272
16.2	6	8.9	7.5	250
18.0	4	8.0	4.9	253
21·0	1	14.0	14.0	065
24.0	1	15.0	15.0	110
	ASANSOL			
	1730 hr.			
10.5	1	16.5	16.5	275
	BAIRAGARH			
	0530 hr.			
10·5	2	24.5	23.9	265
12.0	1	25.0	25.0	270
	1730 hr.			
10.5	3	26.8	25.7	294
12.0	1	17.5	17.5	290
14.1	1	21.0	21.0	275
	BAJPE			
	0530 hr.			
10·5	4	14.1	13.5	275

Ht. in Km.	n	V	v	D
	BAJPE			
	1730 hr.			
12.0	14	15.5	12.3	276
14.1	8	13.7	13.5	257
16.2	3	10.7	8.8	260
	2	8.3	3.9	331
	BAMRAULI			
	0530 hr.*			
12.0	17	32.0	30.9	273
	7	38.1	37·0	264
	1730 hr.*			
12.0	20	32.7	31.7	278
14.1	10	30.5	29.7	275
16.2	2	34.5	33.6	253
	1	31.5	31.5	295
	BANGALORE			
	0530 hr.			
10.5	10	15.7	10.7	267
12·0	9	16.6	12.1	251
14.1	8	14.7	13.7	247
16.2	5	10.7	9.4	274
18.0	3	5.7	5.1	086
21.0	2	5.5	5.0	107
24.0	1	14.5	14.5	080
27.0	1	4.5	4.5	110
	1730 hr.			
10.5	16	16.5	11.7	283
12.0	13	17.7	15.3	257
14.1	12	15.2	13.1	263
16.2	10	9.3	6.1	251
18.0	8	6.3	3.1	134
21.0	4	12.1	12.1	091
24.0	1	17.0	17.0	080
	BEGUMPET			
	0530 hr.			
10.5	3	20.3	18.6	306
12.0	1	23.5	23.5	315
10.5	**1730 hr.**			
12.0	4	20.1	19.3	322
14.1	2	28.5	27.5	324
	1	24.5	24 5	290
	BHAGALPUR			
	1730 hr.			
10.5	3	22.8	22.2	294
12.0	2	22.0	21.9	303

Ht. in Km.	n	V	v	D
	BHUBANESHWAR			
	0530 hr.			
10.5	1	8.0	8.0	270
	DUM DUM			
	0530 hr.*			
10.5	17	25.1	23.9	267
12.0	12	28.0	26.2	266
14.1	3	24.6	24.3	257
16.2	1	28.5	28.5	270
	1730 hr.*			
10.5	20	27.5	24.4	262
12.0	11	25.4	24.6	256
14.1	7	28.6	22.6	258
16.2	7	42.0	40.6	258
	GADAG			
	0530 hr.			
10.5	11	17.4	14.5	317
12.0	4	21 4	16.7	301
	1730 hr.			
10.5	16	15.7	12.2	279
12.0	13	18.0	14.5	278
14.1	6	19.2	17.3	275
16.2	3	13.5	13.0	260
18.0	3	11.2	5.9	250
21.0	2	15.7	13.2	098
	GANNAVARAM			
	1730 hr.			
10.5	11	15.9	14.4	289
12.0	9	16.6	14.8	266
14·1	4	16.0	15.8	243
16.2	3	14.8	14.3	233
18.0	3	8.2	7.6	244
21.0	2	8.3	6.9	279
	GAUHATI			
	0530 hr.*			
10.5	13	32.7	30.8	279
12.0	11	37.2	33.6	281
14.1	4	44.1	43.8	266
16.2	1	43.0	43.0	280
18.0	1	46.5	46.5	270
	1130 hr.			
10.5	2	28.0	27.5	289
12.0	1	28.0	28.0	295

Ht. in Km.	n	V	v	D
	GAUHATI			
	1730 hr.*			
10·5	13	34·2	32·6	271
12·0	9	32·6	30·7	271
14·1	8	37·6	37.0	269
16·2	1	28·0	28·0	260
	GOPALPUR			
	1730 hr.			
10·5	1	15·0	15 0	280
	GORAKHPUR			
	1730 hr.			
10·5	3	24·2	23·0	275
12.0	2	27·0	26·0	263
14·1	1	16·5	16·5	260
	GWALIOR			
	0530 hr.			
10·5	1	14.5	14.5	240
	1730 hr.			
10·5	2	23.3	23.3	270
12·0	2	33.7	33.3	268
14.1	1	36.0	36.0	255
	IMPHAL			
	1730 hr.			
10.5	1	15·0	15.0	280
12.0	1	18 0	18.0	275
	JAIPUR			
	1730 hr.			
10.5	2	24·5	24·3	268
	JHARSUGUDA			
	1730 hr.			
10·5	1	12·5	12·5	291
	JODHPUR			
	0530 hr.*			
10·5	17	28·8	27·8	272
12·0	9	26·3	25·7	271
14·1	4	24·1	24·0	276
16 2	1	24·5	24·5	270
	1130 hr.			
10·5	1	28·0	28·0	270
	1730 hr.*			
10 5	17	30 5	29·1	271
12·0	7	36·8	33·4	290
14·1	3	33·8	31·7	291
16 2	1	27·5	27·5	270
	2330 hr.			
10 5	1	48·5	48·5	295
12·0	1	35·0	35·0	280

Ht. in Km.	n	V	v	D
	MADRAS			
	0530 hr.*			
10·5	28	12·5	9·8	282
12·0	27	15·5	11·5	265
14·1	25	13·3	11·2	260
16·2	12	7·1	5·3	274
18·0	2	5·7	5·5	015
	1130 hr.			
10·5	8	10 6	6·7	268
12·0	8	10·9	7·8	276
14·1	7	10·2	7·3	258
16·2	1	4.5	4·5	260
18·0	1	11·5	11·5	185
21·0	1	10·5	10·5	060
	1730* hr.			
10·5	28	13·1	9·8	276
12·0	27	14·8	12·7	263
14·1	25	16·4	15·0	255
16·2	19	12·2	8·8	259
18·0	7	8·1	5.0	293
21·0	2	11·5	9·9	054
24·0	1	4·0	4·0	100
	MINICOY			
	0530 hr.			
10.5	1	18·0	18·0	260
	NAGPUR			
	0530 hr.*			
10.5	28	23.5	21·6	277
12·0	28	26·3	23·6	274
14.1	28	25.0	24.1	272
16.2	22	16.1	15.4	264
18.0	17	11.6	8.1	265
21.0	7	11.2	8.6	275
24.0	1	15.0	15.0	300
	1130 hr.			
10.5	3	24.0	19.9	281
	1730* hr.			
10.5	31	25.3	23.8	279
12.0	30	28.1	25.9	277
14.1	26	25.3	24.7	270
16.2	18	17.8	17.0	272
18·0	10	9·2	2·0	276
21.0	3	6·3	6·3	285
24.0	1	9·0	9·0	290

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Ht. in Km.	n	V	v	D
	NANPARA			
	1730 hr.			
10·5	1	31·5	31·5	275
12.0	1	25.5	25.5	275
	NEW DELHI			
	0530 hr.*			
10.5	23	30.7	30.0	278
12.0	20	29.1	28.1	278
14.1	15	26.5	23.7	275
16.2	7	25.0	24.6	278
18.0	2	16.2	16.0	260
	1130 hr.			
10·5	1	23·5	23·5	250
	1730 hr.*			
10·5	23	31·8	30·4	278
12.0	20	32·9	32 0	275
14·1	16	29.2	28.4	273
16.2	11	26.3	25.3	270
18.0	5	26.5	26.4	279
	2330 hr.			
10.5	1	38.5	38.5	290
	POONA			
	1730 hr.			
10·5	1	22·0	22·0	260
	PORT BLAIR			
	0530 hr.*			
10.5	12	15·6	14·3	233
12.0	8	23·0	21·6	235
14.1	2	31·5	31·2	245
	1130 hr.			
10.5	1	29·0	29·0	245
12.0	1	35·0	35·0	235
	1730 hr.			
10.5	11	20·7	19·5	233
12.0	6	24.7	23 3	233
14.1	5	27.2	26.2	238
16.2	2	15.7	15.7	257
	SANTA CRUZ			
	0530* hr.			
10.5	25	23.6	21.4	284
12.0	19	27.8	24.0	287
14.1	8	18·6	17·8	267
16.2	4	16·2	15·7	261
	1130 hr.			
10·5	3	20·5	19·0	269
12·0	1	10·5	10·5	285

Ht. in Km.	n	V	v	D
	SANTA CRUZ			
	1130 hr.			
14·1	1	12·0	12·0	270
	1730* hr.			
10·5	30	22·1	20·0	283
12 0	29	25·6	22·0	286
14.1	18	23·6	20·6	274
16.2	11	15·3	14·7	277
18·0	3	10·5	5·2	284
21·0	1	4·5	4·5	035
24.0	1	6·5	6·5	035
	TIRUCHIRAPALLI			
	1730 hr.			
10.5	7	11·8	4·1	261
12.0	3	15·0	14·0	228
14·1	1	20·5	20·5	270
16·2	1	5·5	5 5	070
	TRIVANDRUM			
	0530 hr.*			
10·5	17	13·1	8·1	226
12 0	14	13·9	8 8	222
14·1	11	15·0	7·1	201
16·2	5	12·0	5·0	277
18.0	1	22·5	22.5	225
	1730 hr.*			
10·5	30	10·5	4·2	267
12·0	29	11·1	8·0	260
14·1	23	13 5	11·7	276
16 2	14	10·3	7·9	273
18·0	6	8 2	3·0	273
21.0	1	5·5	5·5	035
	UDAIPUR			
	1730 hr.			
10.5	1	19.5	19.5	265
	VERAVAL			
	0530 hr.*			
10·5	23	19.7	18.7	296
12·0	18	21·9	20·7	303
14 1	13	21.7	20 6	298
16·2	5	20 6	17·8	284
18·0	3	12 3	6 5	317
21.0	1	6·5	6·5	330
	1130 hr			
10·5	3	22·7	21·3	307
12·0	1	17.5	17.5	285

Ht. in Km.	n	V	v	D
	VERAVAL			
	1730 hr.*			
10·5	21	18·2	17·1	293
12·0	20	19·9	18·8	300
14·1	15	17·8	16·7	294
16·2	8	13·3	12·8	296
18 0	5	14·1	12·0	302
21 0	1	14·5	14·5	335
	VISAKHAPATNAM			
	0530 hr.*			
10·5	28	20·0	18·4	273
12 0	28	22·8	21·6	269
14·1	24	22 3	21·3	254
16·2	16	16 2	15·1	270
18·0	4	8 6	6·1	281
21·0	1	1·0	1·0	270
	VISAKHAPATNAM			
	1130 hr.			
10·5	20	19·4	17·8	267
12·0	15	19·4	17·4	268
14·1	12	20·2	20·2	264
16·2	11	20·8	19·1	253
18·0	7	15·1	11·1	276
21·0	6	10·0	3·8	300
	1730 hr.			
10·5	28	20·6	18.9	273
12·0	27	25·2	24·0	260
14·1	19	23·4	21·9	262
16·2	14	18·8	17·7	261
18·0	8	13·5	12·3	291

RADIOSONDE DATA

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bangalore	Fan type	10th March, 1961	00	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1946	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (998 mb.)						BANGALORE (948 mb.)						BOMBAY (1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	98	290·7	296	288	281·5	21	921	294·2	297	290	290·3	31	13	294·3	297	290	292·6
1000	31	78	..	..	..	..	21	100	..	..	..	..	31	86	..	..	..	..
900	31	992	295·0	300	290	270·4	21	1017	294·6	298	291	287·1	31	1006	296·4	303	292	278·5
850	31	1484	291·6	295	286	266·1	21	1510	292·9	297	288	282·5	31	1503	293·9	299	287	272·9
800	31	2000	287·7	291	282	264·6	21	2030	288·8	293	279	276·3	31	2025	290·8	294	286	271·6
700	31	3111	279·6	287	276	260·9	21	3155	282·3	286	274	268·3	31	3151	282·5	286	279	266·2
600	31	4357	271·4	279	267	251·0	20	4414	274·1	278	270	264·9	31	4412	274·0	278	272	256·9
500	31	5782	262·4	267	258	..	20	5856	265·8	269	261	..	31	5832	264·3	270	261	..
400	30	7461	251·1	257	247	..	19	7556	254·4	259	250	..	31	7544	252·9	258	248	..
300	28	9515	235·9	244	223	..	18	9625	238·4	244	235	..	29	9620	237·9	243	235	..
250	26	10751	227·4	242	220	..	15	10866	228·1	231	224	..	29	10866	227·8	237	221	..
200	26	12206	218·3	224	211	..	13	12325	216·5	220	208	..	28	12326	281·4	224	212	..
175	25	13056	214·5	220	208	..	12	13152	211·2	219	201	..	24	13160	213·5	218	207	..
150	23	14010	211·3	218	205	..	11	14097	204·5	211	196	..	24	14118	208·0	213	202	..
125	18	15111	207·7	213	201	..	10	15189	197·5	207	191	..	18	15207	203·2	207	195	..
100	15	16443	204·1	209	196	..	7	16522	195·4	202	191	..	14	16551	198·8	204	190	..
80	10	17815	202·9	208	193	..	7	17831	195·3	199	192	..	..	..	..	..	..	..
70	9	18591	202·6	207	194	..	6	18602	196·3	203	193	..	..	..	..	..	..	..
60	6	19527	206·5	209	202	..	6	19513	199·0	206	193	..	..	..	..	..	..	..
50	5	20640	210·8	215	205	..	6	20572	203·7	210	197	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	CALCUTTA (1008 mb.)						GAUHATI (1004 mb.)						JODHPUR (985 mb.)					
Surface	30	6	297·0	301	292	295·1	31	49	291·6	297	288	289·5	30	218	293·6	298	289	276·9
1000	30	79	..	..	..	..	31	86	..	..	..	..	30	83	..	..	..	..
900	30	907	294·7	299	290	284·1	31	990	290·7	295	286	282·5	30	1001	296·4	301	289	275·0
850	30	1489	291·5	295	287	279·1	31	1477	287·7	291	283	278·0	30	1495	292·8	299	284	270·2
800	30	2006	287·8	292	282	275·5	31	1987	284·0	288	279	274·8	30	2013	288·9	295	280	268·5
700	30	3119	279·6	285	276	268·7	31	3085	276·6	279	273	265·5	30	3129	280·8	285	273	262·2
600	30	4366	271·6	279	267	258·6	31	4319	269·3	273	263	..	29	4378	272·5	277	267	255·0
500	30	5798	263·8	271	259	..	31	5739	261·5	267	258	..	29	5813	262·8	269	256	..
400	30	7488	252·6	260	246	..	31	7415	251·1	259	247	..	29	7499	250·8	257	244	..
300	24	9554	238·0	244	233	..	27	9466	235·6	241	225	..	24	9556	235·1	243	229	..
250	17	10814	229·4	237	225	..	27	10302	227·3	234	217	..	22	10793	226·9	237	218	..
200	11	12295	219·5	224	215	..	26	12165	220·0	229	207	..	17	12242	218·0	225	205	..
175	7	13152	215·3	221	212	..	19	13006	215·4	221	208	..	15	13082	215·0	224	201	..
150	6	14124	212·2	217	207	..	17	13976	212·6	218	204	..	12	14006	211·7	217	201	..
125	..	..	..	..	..	..	13	15126	209·1	215	201	..	7	15133	211·3	219	208	..
100	..	..	..	..	..	..	11	16471	204·8	211	193	..	..	..	..	..	..	..
80	..	..	..	..	..	..	6	17728	202·5	209	183	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1009 mb.)						NAGPUR (974 mb.)						NEW DELHI (986 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	15	297·6	299	291	295·7	31	311	294·3	299	288	280·4	31	210	289·7	295	285	281·0
1000	31	92	..	..	..	..	31	83	..	..	..	..	31	82	..	..	..	..
900	31	1009	295·1	299	289	281·3	31	1007	298·5	304	294	273·2	31	991	293·9	298	290	272·6
850	31	1505	293·7	298	290	275·0	31	1505	295·0	298	291	270·7	31	1481	296·7	295	286	269·1
800	31	2025	290·5	297	285	271·2	31	2027	291·0	294	287	220·1	31	1999	286·9	291	292	267·7
700	31	3149	282·8	287	280	263·3	31	3153	282·2	286	277	265·1	31	3105	278·5	283	273	261·9
600	31	4410	275·3	279	272	254·7	31	4409	271·0	280	267	255·5	31	4344	269·5	274	264	..
500	30	5859	266·1	273	263	..	31	5845	264·2	269	259	..	31	5761	260·8	266	257	..
400	30	7562	254·2	263	247	..	31	7577	252·1	258	247	..	31	7429	249·1	255	244	..
300	29	9642	238·5	246	227	..	30	9591	235·0	241	229	..	30	9465	234·3	241	229	..
250	28	10885	228·9	237	219	..	30	10828	225·3	233	219	..	29	10691	224·7	231	220	..
200	27	12348	217·6	227	204	..	29	12269	215·3	223	208	..	27	12134	216·7	224	209	..
175	26	13815	211·7	219	197	..	29	13094	210·9	219	201	..	25	12979	214·5	223	204	..
150	24	14125	205·9	215	195	..	29	14049	206·3	215	199	..	25	13938	212·0	219	205	..
125	20	15187	200·5	209	193	..	27	15338	202·5	209	195	..	15	15066	211·1	216	206	..
100	15	16469	195·4	199	191	..	27	16161	198·7	205	191	..	12	16430	207·3	211	201	..
80	14	17742	199·0	209	191	..	25	17806	199·4	207	193	..	..	..	..	..	..	..
70	11	18511	202·1	208	193	..	21	18584	202·2	212	192	..	..	..	..	..	..	..
60	5	19514	203·3	211	207	..	17	19517	203·2	212	195	..	..	..	..	..	..	..
50	..	..	..	..	..	..	10	20597	205·9	215	197	..	..	..	..	..	..	..
40	..	..	..	..	..	..	7	21930	208·1	218	199	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	PORT BLAIR (1002 mb.)						TRIVANDRUM (1003 mb.)						VERAVAL (1009 mb.)					
Surface	31	79	296·9	300	291	296·0	31	61	299·0	300	293	295·3	31	8	293·2	298	288	296·0
1000	31	99	..	..	..	..	31	86	..	..	..	..	31	90	..	..	..	..
900	31	1014	293·4	298	288	287·4	31	1007	293·0	296	291	287·3	31	1015	297·2	302	291	269·5
850	31	1507	291·2	298	286	281·6	31	1499	290·3	293	288	283·3	31	1512	294·2	298	287	266·4
800	31	2024	288·8	293	287	276·7	31	2015	287·5	291	283	276·9	31	2034	209·3	294	287	264·7
700	31	3145	282·2	285	279	260·6	31	3135	282·4	285	279	269·5	31	3159	281·5	286	279	257·2
600	31	4409	275·6	281	271	259·2	31	4394	274·8	279	271	258·0	31	4420	274·4	278	272	256·0
500	30	5859	266·6	273	261	..	31	5844	266·4	270	261	..	31	5856	265·6	269	260	..
400	30	7566	255·2	262	249	..	31	7549	255·0	260	250	..	30	7554	252·6	259	242	..
300	28	9649	240·0	249	233	..	31	9632	240·7	245	231	..	29	9632	238·1	249	229	..
250	24	10899	230·2	237	224	..	28	10886	229·1	238	221	..	24	10088	288·9	237	220	..
200	23	12371	219·0	229	210	..	27	12342	217·3	230	209	..	19	12374	219·1	229	211	..
175	19	13216	215·2	225	208	..	25	13146	210·7	217	197	..	17	13237	214·1	222	205	..
150	14	14170	208·7	218	204	..	23	14117	205·6	213	199	..	16	14195	209·3	219	205	..
125	10	15280	203·0	207	198	..	20	15200	200·5	206	194	..	14	15281	206·2	217	201	..
100	8	16583	199·4	202	197	..	17	16545	194·6	201	189	..	12	16642	203·5	213	196	..
80	6	17909	199·0	207	196	..	9	17820	192·1	194	186	..	12	17956	202·9	211	193	..
70	5	18658	197·4	202	194	..	8	18571	194·5	202	186	..	11	18770	202·8	216	192	..
60	5	19540	198·0	205	193	..	..	..	..	..	..	..	9	16963	202·2	211	196	..
50	..	..	..	..	..	..	..	..	..	..	..	..	5	20776	206·2	212	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March 1961 ((Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1005 mb.)I					
	No.1 of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	41	298·6	300	297	295·0
1000	31	89	..	..	..	..
900	31	1014	297·6	302	294	281·0
850	31	1513	295·5	300	291	276·2
800	31	2035	291·8	297	289	274·5
700	31	3166	282·9	287	279	270·3
600	31	4427	274·7	280	271	258·5
500	31	5877	265·6	273	261	..
400	30	7577	254·3	263	249	..
300	30	9666	237·9	253	230	..
250	29	10905	228·4	245	223	..
200	28	12371	218·4	234	209	..
175	25	13196	212·9	217	208	..
150	25	14152	207·7	217	199	..
125	24	15246	203·4	215	194	..
100	23	15653	198·3	203	190	..
80	15	17791	198·6	207	190	..
70	13	18615	200·8	211	192	..
60	11	19468	204·1	213	192	..
50	11	20633	206·8	216	195	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Standard pressure Surface mb.	ALLAHABAD Surf. Pr. (997 mb.)						BOMBAY (1007 mb.)						CALCUTTA (1007 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A Mean	Max.	Min.	Dew point	No. of Obs.	Ht. gpm.	Temperature °A Mean	Max.	Min.	Dew point	No. of Obs.	Ht. gpm.	Temperature °A Mean	Max.	Min.	Dew point
Surface	31	98	305·9	309	302	280·7	31	13	303·1	308	299	292·5	31	6	303·5	308	298	293·6
1000	31	62	..	..	..	..	31	77	..	..	..	..	31	63	..	..	..	..
900	31	996	298·2	303	294	273·7	31	1013	299·5	303	294	280·3	31	996	297·7	304	293	285·5
850	31	1494	294·0	298	289	269·7	31	1514	296·4	299	293	275·5	31	1493	293·0	300	286	280·7
800	31	2103	289·7	294	284	266·5	31	2040	293·0	297	289	273·1	31	2013	289·6	296	285	276·5
700	31	3132	281·3	286	276	258·3	31	3173	284·4	289	281	269·0	31	1334	281·4	287	277	267·0
600	31	4384	272·9	276	268	253·0	31	4440	276·0	281	271	259·1	31	4389	273·8	280	270	255·3
500	31	5819	263·8	269	259	..	31	5892	266·4	272	261	..	30	5829	265·3	273	258	..
400	31	7509	252·6	258	247	..	31	7600	255·1	259	249	..	30	7531	254·3	265	245	..
300	31	9573	237·1	243	232	..	31	9594	240·6	246	235	..	22	9590	238·3	247	229	..
250	31	10816	228·6	236	220	..	31	10957	232·0	237	225	..	17	10851	230·2	237	223	..
200	29	12280	220·4	228	209	..	31	12443	222·3	229	214	..	14	12335	221·1	227	210	..
175	25	13120	215·7	225	207	..	28	13313	217·7	224	210	..	13	13189	216·8	221	205	..
150	20	14081	213·1	221	206	..	26	14290	212·9	218	207	..	12	14167	212·4	217	199	..
125	14	15207	209·8	216	205	..	22	15412	209·0	214	201	..	10	15282	208·3	213	194	..
100	12	16521	207·3	214	199	..	18	16757	204·6	212	194	..	9	16629	203·1	211	192	..
80	9	17871	204·3	213	197	..	8	18182	204·8	209	199	..	..	..	..	..	..	..
70	8	18655	205·1	214	199	..	6	18983	204·8	208	200	..	..	..	..	..	..	..
60	6	19665	208·2	214	200	..	5	19943	204·2	213	196	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard pressure Surface mb.	GAUHATTI (1001 mb.)						JODHPUR (983 mb.)						MADRAS (1007 mb.)					
Surface	31	49	300·3	305	294	292·2	31	218	306·2	310	302	277·1	31	15	302·7	304	301	296·1
1000	31	60	..	..	..	..	31	67	..	..	..	..	31	81	..	..	..	
900	31	982	294·4	299	288	284·9	31	1008	299·2	304	294	274·4	31	1010	297·1	301	291	281·6
850	31	1475	291·0	301	284	282·2	31	1508	295·4	300	290	272·0	31	1508	294·9	299	290	275·2
800	31	1989	286·7	291	281	278·7	31	2030	290·5	295	285	269·5	31	2031	291·4	297	287	272·5
700	31	3099	278·5	284	275	270·8	31	3151	280·8	285	275	264·0	31	4160	283·8	289	279	265·6
600	31	4342	271·0	277	266	242·4	31	4403	272·7	278	268	262·2	31	4425	275·9	281	271	256·3
500	31	5770	262·9	269	257	..	31	5838	263·9	270	257	..	31	5789	267·2	273	262	..
400	31	7456	252·3	258	246	..	31	7529	251·9	261	246	..	31	7591	255·5	263	251	..
300	25	9541	238·0	245	232	..	27	9607	237·1	246	228	..	31	9681	239·5	247	231	..
250	20	10806	229·9	236	223	..	23	10845	227·6	239	217	..	31	10933	229·4	239	220	..
200	19	12287	221·7	228	215	..	19	12310	219·2	228	210	..	28	12390	218·0	225	206	..
175	16	13139	217·1	222	207	..	15	13230	215·1	222	..	..	28	13226	212·7	221	204	..
150	15	14105	213·9	219	208	..	13	14143	214·1	222	206	..	27	14187	207·7	217	199	..
125	11	15215	210·3	217	204	..	11	15297	213·3	220	207	..	24	15263	202·2	211	191	..
100	11	16568	206·2	213	199	..	8	16642	209·3	216	204	..	19	16619	199·2	209	188	..
80	9	17908	204·5	211	195	..	..	..	..	..	..	..	13	17888	196·7	201	189	..
70	6	18680	205·1	210	193	..	..	..	..	..	..	..	11	18655	196·3	202	190	..
60	..	..	..	..	..	..	..	..	..	..	..	..	9	19600	195·7	200	191	..
50	..	..	..	..	..	..	..	..	..	..	..	..	6	20634	198·3	202	191	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

March 1961 (Phalguna 10, 1882—Chaitra 10, 1883 Saka)

Standard Pressure Surface mb.	NAGPUR Surf. Pr. Pr. (972 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	NEW DELHI (985 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	PORT BLAIR (100 lmb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point
Surface	31	311	308·8	311	306	280·7	31	210	301·9	306	299	281·5	31	79	301·0	303	299	297·6
1000	31	51	..	..	..	..	31	76	..	..	..	..	31	91	..	..	..	.
900	31	1001	303·3	306	299	272·7	31	1002	295·9	301	293	275·0	31	1013	293·6	297	290	288·8
850	31	1506	298·3	302	295	270·8	31	1496	291·8	296	288	271·0	31	1506	291·1	295	285	282·8
800	31	2033	293·0	297	288	270·1	31	2009	287·6	292	282	267·8	31	2024	289·0	292	287	277·8
700	31	3163	282·7	287	279	266·1	31	3121	278·7	283	274	261·5	31	3146	282·9	289	279	270·6
600	31	4422	272·8	277	270	256·2	31	4361	270·1	274	266	..	30	4412	275·9	284	271	260·6
500	31	5860	264·2	268	259	..	31	5781	261·4	266	258	..	30	5863	267·0	271	257	..
400	31	7550	251·6	257	247	..	31	7454	249·7	255	243	..	29	7573	255·3	260	249	..
30	31	9607	235·3	242	226	..	29	9497	235·1	241	227	..	29	9665	240·6	245	236	..
250	31	10847	225·3	232	214	..	27	10729	225·7	235	220	..	27	10929	230·9	243	222	..
200	31	12290	215·9	223	206	..	27	12176	217·9	227	210	..	27	12395	218·6	227	207	..
175	30	13119	211·5	218	205	..	26	13019	215·4	224	203	..	20	13244	212·7	221	199	..
150	29	14080	205·3	215	198	..	24	13991	214·1	222	203	..	19	14192	206·2	215	193	..
125	25	15178	207·2	212	191	..	20	15137	212·5	218	205	..	15	15281	201·5	210	190	..
100	21	16519	200·5	211	194	..	20	16515	209·3	215	203	..	12	16640	199·9	206	189	..
80	17	17860	200·9	210	192	..	17	17882	208·6	214	204	..	8	17895	198·0	205	191	..
70	11	18655	202·7	243	193	..	9	18694	208·1	214	204	..	6	18741	202·0	208	196	..
60	8	19569	204·3	216	196	..	9	19658	210·8	215	208	..	5	19617	199·8	271	198	..
50	6	20588	205·5	213	198	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	TRIVANDRUM (100 lmb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	VERAVAL (1009 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	VISAKHAPATNAM (104 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point
Surface	31	64	303·3	306	301	296·4	31	8	300·3	303	297	295·2	31	41	301·8	303	300	296·0
1000	31	71	..	..	..	..	31	85	..	..	..	..	31	80	..	..	..	..
900	31	1002	295·3	300	293	289·6	31	1016	298·4	303	293	273·3	31	1009	298·1	303	293	279·2
850	31	1498	292·3	297	289	287·4	31	1515	294·8	300	290	270·0	31	1508	296·3	299	289	277·3
800	31	2017	289·2	295	287	283·2	31	2038	290·7	294	286	269·0	31	2031	291·7	295	286	275·5
700	31	3145	284·1	291	281	266·9	31	3164	283·3	287	280	263·2	31	3158	282·3	285	278	272·0
600	31	4413	276·4	281	273	260·3	31	4426	271·1	279	269	258·9	31	4419	274·7	281	271	259·3
500	31	5869	268·1	274	264	..	31	5868	264·6	270	259	..	31	5867	266·1	273	261	..
400	31	7585	256·4	262	251	..	31	7562	252·3	261	246	..	31	7571	253·6	261	246	..
300	30	9683	240·1	247	234	..	28	9626	236·9	245	229	..	30	9648	238·2	244	233	..
250	30	10942	229·8	237	219	..	23	10872	227·2	240	217	..	29	10896	228·8	239	215	..
200	30	12407	217·9	227	207	..	22	12266	227·1	231	204	..	29	12362	219·1	226	206	..
175	28	13280	219·5	222	201	..	22	13163	211·9	225	202	..	26	13196	214·4	220	208	..
150	28	14193	206·5	214	193	..	20	14079	208·3	221	199	..	26	14169	209·0	219	199	..
125	28	15275	201·1	210	194	..	20	15222	204·7	215	199	..	26	15258	204·4	215	191	..
100	22	16638	197·2	211	187	..	16	16545	203·7	212	194	..	25	16601	199·1	209	192	..
80	14	17928	195·6	201	188	..	12	17874	204·2	217	198	..	18	17899	198·3	208	187	..
70	12	18720	198·0	207	185	..	9	18702	205·8	219	195	..	13	18701	199·6	206	194	..
60	7	19595	199·3	207	189	..	5	19514	205·0	221	193	..	9	19477	200·1	212	195	..
50	5	20757	203·2	212	189	..	..	..	..	..	..	..	9	20649	202·2	212	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

NOTE : Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 100mb. surface and for dew point for standard pressure surfaces with temperatures le sthan 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

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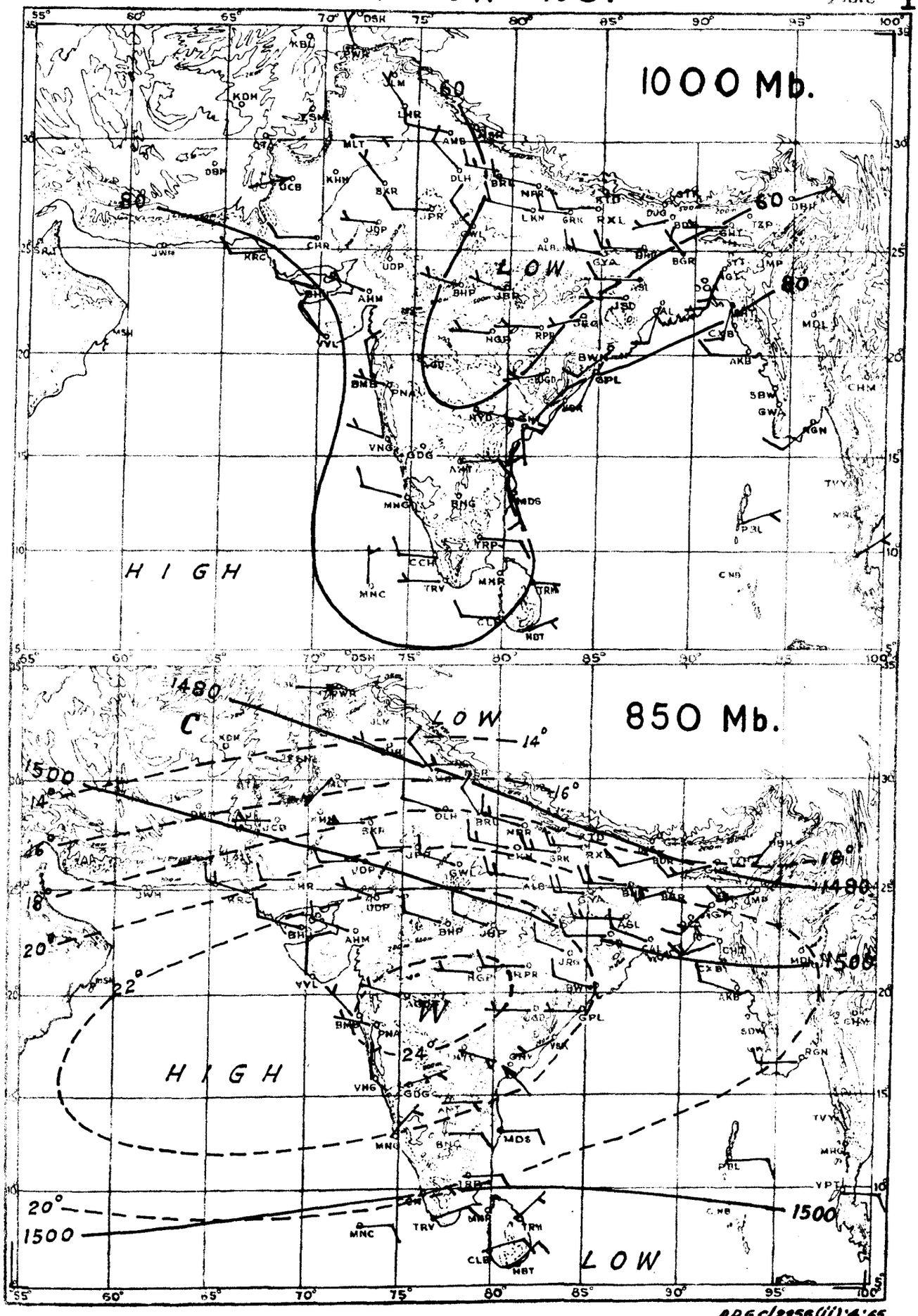
MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

MARCH 1961

Plate I



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

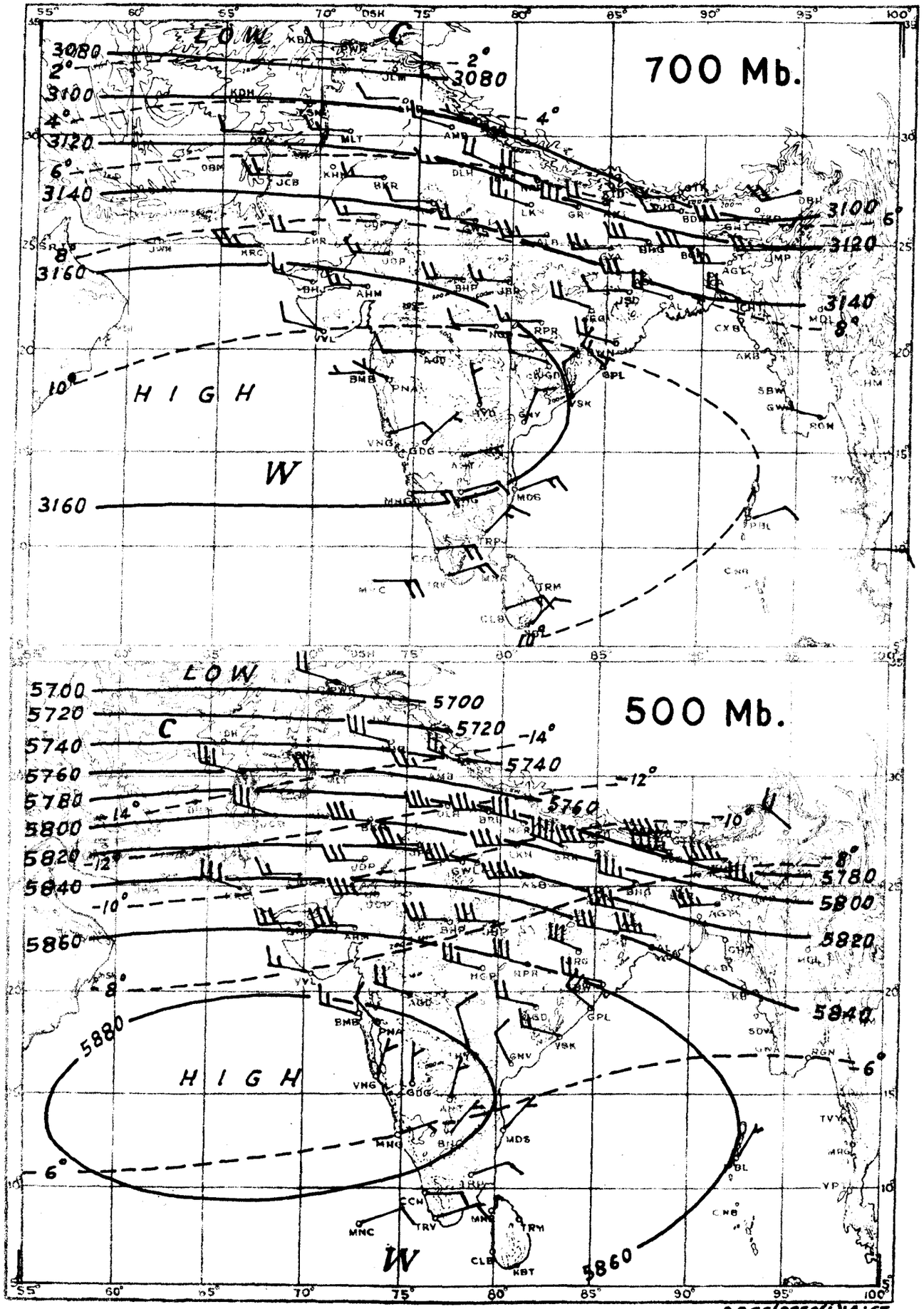
- - - - - - - - Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z. P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MARCH 1961

I. Met D. Plate II



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

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

G.P.Z.P. POONA, 1963

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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

April

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Chief feature :

Good thundershower activity over Jammu and Kashmir, the south Peninsula and Assam.

Four western disturbances moved across the northern parts of the country during the month. They were generally of moderate intensity and gave good rainfall over Jammu and Kashmir. The movement and activity of each of these western disturbances is given in the following tabular statement.

Statement showing the movement and activity of Western disturbances during the month of April 1961

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	1st—5th	Baluchistan—Punjabs—Western Himalayas	Punjab (I) Jammu and Kashmir	Scattered thundershowers Local thundershowers	2nd—5th 4th	
2	7th—12th	Baluchistan—Punjab—	Rajasthan	Scattered thundershowers	10th	
		Western Himalayas	Punjab (I) Himachal Pradesh Jammu and Kashmir	Local or scattered thundershowers	10th—12th	Sirinagar reportted 5 cm. of rain on 11th.
3	12th—15th	Baluchistan—Punjabs—	West Rajasthan	Scattered thundershowers	13th	
		Western Himalayas	Punjab (I) Himachal Pradesh Jammu and Kashmir	Local thundershowers	13th—15th	
4	19th—23rd	Afghanistan—N.W.F.P.—Jammu and Kashmir	Punjab (I) Himachal Pradesh Jammu and Kashmir	Scattered thundershowers Local thundershowers Local or scattered thundershowers	20th, 21st 21st 20th—23rd	

In association with marked incursion of moist air from the Bay of Bengal into the Peninsula there was considerable thunderstorm activity over this region, particularly over the south Peninsula during the first week of the month. Tuticorin reported 13 cm of rain on 2nd and Bangalore 5 cm on 3rd. Incursion of moist air from the Bay of Bengal also took place over Assam during the last ten days of the month. During this period, fairly widespread or local thundershowers occurred in Assam on three days and scattered thundershowers on other days. Haflong and Dhubri reported 5 cm of rain each on 22nd, Sibsagar 5 cm on 23rd, North Lakhimpur 9 cm and Pasighat 6 cm on 24th and Cherrapunji 16 cm on 25th.

Day temperatures were generally below normal in northwest India during the first fortnight of the month, being appreciably so in west Rajasthan from 10th to 12th April. They were above normal in Andhra Pradesh, Orissa and east Madhya Pradesh from 13th to 24th April and in West Bengal, Bihar and Uttar Pradesh from 13th to 30th. They were appreciably above normal in east Uttar Pradesh, east Madhya Pradesh, Bihar Plateau and adjoining West Bengal from 22nd to 24th.

The rainfall during the month was in large excess in the Bay Islands and south Interior Mysore, in moderate excess in west Rajasthan, in slight excess in Jammu and Kashmir and east Madhya Pradesh and normal in the Punjab (I), Madhya Maharashtra and coastal and north Interior Mysore. It was in slight defect in Marathwada and Kerala, in moderate defect in Assam, east Rajasthan, west Madhya Pradesh, Vidarbha, coastal Andhra Pradesh, Telengana and the Arabian Sea Islands and in large defect in West Bengal, Orissa, Bihar State, Uttar Pradesh, Saurashtra and Kutch, Rayalaseema and the Madras state. There was no rain elsewhere over the country outside Himachal Pradesh.

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1—11 D.D.G. Obs. Poona/65

The mean maximum temperature was above normal in Assam, Bihar Plateau, Madhya Maharashtra, Marathwada and Telangana, below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, Assam, Gangetic West Bengal, Marathwada and Telangana and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Punjab (I), west Rajasthan and south Interior Mysore below normal in Gangetic West Bengal, east Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was below normal in the Bay Islands, West Bengal, Bihar Plateau, Vidarbha and coastal Andhra Pradesh, normal in Assam, Orissa, Bihar Plains, the Punjab (I), east Rajasthan, east Madhya Pradesh, the Konkan, Marathwada, Telangana and Rayalaseema and above normal over the rest of the country outside Himachal Pradesh.

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

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

Poona-5,

The 18th August, 1961.

R. ANANTHAKRISHNAN,

for DIRECTOR GENERAL OF OBSERVATORIES.

Errata to M.W.R. for April 1961 (Chaitra 11 - Vaisakha 10, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
176	Port Blair		19	-.13	-3.1
176	Dibrugarh		15	13	12
176	Dibrugarh		17	3.1	4.1
176	Gauhati		23	4	14
176	Lumding		4	37.7	37.6
176	Haflong		24	11	0
176	Silchar (Kumbhirgram)		28	0	2
176	Silchar		12	242.8	-242.8
176	Imphal (Tulihal)		2	30.1	30.1(0)
176	Imphal (Tulihal)		10,11	7.7, 22.2	7.7(o), 22.2(o)
176	Kailashahar		24	4	0
176	Suri		24	1	0
176	Krishnanagar		3	-2.6	+2.6
176	Calcutta (Dum Dum)		24	0	2
176	Midnapore		19	-0.8	+0.8
177	Hardoi		19	1.2	-1.2
177	Lucknow		7	+0.1	-0.1
178	Dehra Dun		20(a)	9	0
178	Agra		16	-0.4	+0.4
178	Pathankot		20(a)	9	1
178	Ambala		11	14.8	15.8
178	Karnal		19	+1.3	..
178	Hissar		7	0.8	-0.8
178	Barmer		3	+0.6	-0.6
178	Pilani		17	15.2	15.7
179	Kota		19	-2.1	+2.1
179	Umaria		16	-1.1	+1.1
179	Raigarh		3	+1.3	-1.3
179	Raipur		7	+2.1	+0.6
179	Jagdalpur		7	-1.2	+1.2
180	(Heading)		-	Vaisakha 9, etc.	Vaisakha 10, etc.
180	Madhya Maharashtra		1	Maharashtra	Madhya Maharashtra
180	Poona		14	3.0	30
180	Sholapur		28	(Blank)	0
180	Nidadavole		1	Idadavole	Nidadavole
181	Nagarjunkonda		15	(Blank)	0
181	Nellore		7	-0.7	+0.7
181	Nizamabad		19	+11.6	+1.6
181	Hanamkonda		19	+11.3	+1.3
181	Cuddapah		19	+3.1	-3.1
181	Vellore		19	-3.5	+3.5
181	Pamban		12	+3.8	-3.8
182	(Sub-heading)		4	Height	Highest
182	Hassan		9	21,28	20,28
182	Hassan		16	.8	+5.8
182	Hassan		20(b)	1	10
182	Mukteswar (Kumaon)		9	5	15
182	Shillong		17	8.5(c)	8.5(e)
182	Coonoor		12	+15.2	+151.2
182	Coonoor		28	1	0
182	Kodaikanal		16	(Not clear)	+1.3
182	Kodaikanal		17	(Not clear)	12.3
182	Katmandu		22	(Blank)	1
182	Katmandu		28	(Blank)	0
183	Hirakud		25	0	1
183	Hirakud		28	0	1
183	Pokhara		13	0	21.2
183	Gorkha		1	Gorkha	Gorkha*
183	Butwal		2	37.5(b)	37.5
183	Angbung		6	17.0	17.0(e)
183	Barahakshetra		6	21.0(e)	21.0
183	Foot Note		-	(b)Mean of 29 days	*Data not reliable.

...2

Page No.	Station	Hour	Column	For	Read
Table III					
184	Nancowry	1730	22	(Blank)	0
184	Sibsagar	1730	15	2.4(b)	2.4
184	Gohpur	1730	15	4.4	4.4(b)
184	Rangia	0830	1	Rangiya	Rangia
185	Goalpara	1730	4	1004.8	1004.7
185	Gauhati	0830	14	1.2	-1.2
185	Silchar (Kumbhirgram)	1730	6	-0.7	..
185	Silchar	0830	6	..	-0.7
185	Agartala	0830	24	(Blank)	4
185	Jalpaiguri	1730	5	998.9	993.9
186	Cooch Behar	0830	9	.0	19.0
186	Suri	1730	9	7.	7.7
186	Asansol	0830	14	(Not clear)	-0.8
186	Burdwan	1730	9	7.	17.9
186	Barrackpore	0830	12	5-	-5
186	Calcutta (Dum Dum)	1730	28	(Blank)	0
186	Baripada	1730	10	20.	20.6
187	Gopalpur	0530	11	9.	91
187	Gopalpur	0830	12	(Blank)	-1
187	Daltonganj	0830	12	(Blank)	0
187	Ranchi Aerodrome	0830	22	1	0
188	Bhagalpur	1730	9	(Not clear)	12.5
188	Sabour	0830	9	(Not clear)	18.7
188	Jamui	0830	9	17.	17.2
188	Faizabad	1730	10	2.7	12.7
189	Gorakhpur	2330	4	1005.7	1004.7
189	Kanpur Aerodrome	0530	15	0.1	..
189	Balia	0830	26	2	3
189	Banda	0830	17	1	0
189	Varanasi	0830	5	998.6	998.9
189	Bareilly	1730	7	34.9	34.0
189	Agra Aerodrome	1130	21,22	0,0	2,2
190	Agra Aerodrome	1730	3	16	169
190	Chandigarh	0830	15	1.5	..
190	Chandigarh	1730	15	2.4	..
190	New Delhi (Safdar-jung)	0530	10	2.0	12.0
190	New Delhi (Safdar-jung)	0830	26	2	6
191	Palam Aerodrome	0830	3	216	233
191	Palam Aerodrome	0830	5	981.1	981.8
191	Palam Aerodrome	1130	11	2	29
191	Palam Aerodrome	1430	19	(Not clear)	0
191	Palam Aerodrome	1730	19	(Not clear)	3
191	Leh	0830	24	4	5
191	Leh	1730	9	5.5	-5.5
191	Srinagar	0830	14	+10	+1.0
191	Srinagar (Aerodrome)	0830	4	1511.1	1511.7
191	Srinagar (Aerodrome)	2330	21	5	0
191	Jammu (Aerodrome)	0830	27	10	5
192	Jaipur (Sanganer)	0530	8	19.2	14.2
192	Ajmer	1730	25	1	13
193	Rajpur	0830	2	0530	0830
194	Jagdalpur	1730	7	43.6	33.6
194	Baroda	1130	5	1006.8	1005.8
194	Naliya	0830	28	1	0
195	Kandla Aerodrome	1730	2	1730	*1730
195	Veraval	0830	12	..	-6
195	Foot note	-	-	(Not given)	*Observations for 23 days.
196	Vengurla	2330	7	2.71	27.1
196	Kolhapur	2330	11	62	61

Page No.	Station	Hour	Column	For	Read
196	Aurangabad (Chikalthan)	0830	2	1830	0830
197	Nagpur (Sonegaon)	1730	28	1	0
197	Rentachintala	1730	19	0	1
199	Cuddalore	0830	12	+.1	+1
199	Salem	1130	24	0	6
199	Tuticorin	0830	3	14	4
200	Belgaum (Samra)	0830	4	1009.2	1009.4
201	Punalur	1730	6	+0.5	..
201	Trivandrum (Aerodrome)	0830	23	6	0
201	Dalhousie	0830	8	-8.9	8.9
201	Dalhousie	1730	4	1537.0	1437.0
201	Darjeeling	1730	5	778.6	788.6
201	Aijal	0830	8	17.6	17.9
202	Hazaribagh	1730	27	0	3
203	Foot note	-	-	‡ Observations for 17 days	‡ Observations for 27 days.

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
208	Bajpe	0530	9.0	n	5	6.
208	Bajpe	1730	3.6	D	068	078
210	Bhuj	1730	2.1	D	560	260
214	Jaipur	0530	Surface	V	2.1	2.0
215	Minicoy	1730	9.0	D	210	290
219	Udaipur	0530	-	Time in IST	0530 hr*	0530hr.
221	Dum Dum	1130 and 2330	-	Time in IST	1130 hr,2330 hr.	1130hr*,2330hr*
221	Madras	-	-	Time in IST	0530hr,1130 hr. 1730hr and 2330 hr.	0530hr*,1130hr* 1730hr*, and 2330hr*.
222	Nagpur	-	-	Time in IST	1130hr*	1130hr.
222	Poona	-	-	Time in IST	1730hr*	1730hr.
222	Port Blair	-	-	Time in IST	0530hr.	0530hr*.
RADIOSONDE DATA						
224	Gauhati	00 GMT	800 mb.	Ht. gpm.	1995	1985
225	Port Blair	00 GMT	250 mb.	Max.	226	236
228	New Delhi	12 GMT	50 mb.	Mean	208.7	200.7

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	122·5 −79·0	61	31·0 +1·1	21·1 +1·4	75 −1	68	4·1 −0·4	3·7
2. West Bengal	13·4 −39·5	25	35·8 +0·8	24·6 +1·1	59 −6	40	1·7 −1·3	1·4
3. Orissa	10·3 −15·7	40	36·5 +0·5	25·4 +0·5	67 −1	55	2·4 −0·3	3·7
4. Bihar	1·8 −14·0	11	38·1 +0·8	22·2 +0·3	42 −1	29	1·3 −0·3	1·3
5. Uttar Pradesh	2·7 −5·1	35	37·5 +0·2	21·0 +0·4	39 +2	24	1·6 +0·3	1·7
6. Punjab (India) (Including Delhi)*	11·2 +1·0	110	35·3 −0·8	18·9 −0·8	46 +7	26	1·9 +0·3	2·7
7. Jammu and Kashmir	53·0 +9·2	121	20·2 −1·3	2·9 −0·1	55 −3	41	4·6 +1·0	5·5
Sub-division								
1. Bay Islands	109·0 +49·1	182	32·2 +0·5	24·8 +1·1	75 +2	85	4·8 +1·1	5·7
2. Assam (Including Manipur, Tripura)	122·5 −79·0	61	31·0 +1·1	21·1 +1·4	75 −1	68	4·1 −0.4	3·7
3. Sub-Himalayan West Bengal	42·7 −46·3	48	34·4 +0·3	26·7 +0·7	59 −1	39	2·3 −0·8	1·0
4. Gangetic West Bengal	2·4 −37·0	6	37·7 +0·9	25·4 +1·2	59 −7	40	1·5 −1·4	1·6
5. Orissa	10·3 −15·7	40	36·5 +0·5	25·4 +0·5	67 −1	55	2·4 −0·3	3·7
6. Bihar Plateau	1·9 −17·7	10	38·7 +1·1	22·6 +0·1	38 −3	24	1·3 −0·4	1·9
7. Bihar Plains	1·7 −11·8	13	37·4 +0·6	21·7 +0·4	47 +2	33	1·3 −0·2	0·7
8. Uttar Pradesh (East)	1·7 −5·2	25	38·4 +0·3	21·7 +0·5	38 +1	23	1·5 +0·3	1·3
9. Uttar Pradesh (West)	3·9 −5·0	44	36·5 0	20·2 +0·3	40 +3	25	1·8 +0·3	2·3
10. Punjab (India) (Including Delhi)	11·2 +1·0	110	35·3 −0·8	18·9 −0·8	46 +7	26	1·9 +0·3	2·7
11. Himachal Pradesh.	32·5 ..	..	31·0 ..	13·5 ..	61 ..	34	2·9 ..	3·9
12. Jammu and Kashmir.	53·0 +9·2	121	20·2 −1·3	2·9 −0·1	55 −3	41	4·6 +1·0	5·5
13. Rajasthan (East)	3·1 −1·5	67	36·7 −0·5	21·5 −0·4	29 −6	15	1·7 +0·4	2·5
14. Rajasthan (West)	7·0 +2·3	149	36·7 −0·3	20·7 −0·1	47 +8	26	1·3 −0·2	2·0
15. Madhya Pradesh (West)	3·9 −1·7	70	38·6 +0·5	21·8 0	32 +1	19	1·8 +0·3	2·6

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity %		Cloud	
					0830 hrs. I.S.T.	1730 hrs. I.S.T.	0830 hrs. I.S.T.	1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
8. Rajasthan	5·1 +0.6	113	36·7 −0·4	21·1 −0·3	37 0	20	1·5 +0·1	2·2
9. Madhya Pradesh	10·5 +0·1	101	38·5 +0·5	22·1 +0·3	34 +1	21	1·8 +0·1	2·9
10. Gujarat State	0·1 −0·7	13	37.4 +0·1	22·5 +0·2	59 −1	39	1·8 +0·4	1·8
11. Maharashtra State	9·1 −3·1	75	37·6 +0·7	24·2 +0·5	49 −1	35	1·9 0	3·0
12. Andhra Pradesh	5·2 −14·7	26	38·0 +0·9	26·2 +0·8	59 −3	45	2·3 −0·7	2·9
13. Madras State	16·8 −22.6	43	36·0 +0·5	26·0 +0·8	71 −1	53	4·5 +1·4	4·5
14. Mysore	52·9 +18·0	152	36·5 +0·1	23·5 +0·6	63 +3	37	3·4 +0·4	4·6
15. Kerala	87·1 −23·6	79	32·9 +0·7	25·9 +0·3	77 0	73	5·0 +1·1	5·6
Sub-division—*Contd.*								
16. Madhya Pradesh (East).	18·9 +2·3	114	38·5 +0·6	22·4 +0·3	38 +1	23	1·7 −0·1	3·2
17. Gujarat Region	0 −0·7	0	39·2 +0·1	22·9 +0·5	45 −4	19	1·5 +0·4	1·7
18. Saurashtra and Kutch	0·2 −0·7	22	35·6 −0·1	22·1 −0·2	70 +2	55	2·0 +0·4	1·8
19. Konkan	0 −7·0	0	31·6 +0·1	24·3 −0·1	73 −1	71	2·1 −0·5	2·1
20. Madhya Maharashtra	17·5 +0·6	104	39·4 +1·1	22·4 +0·9	47 −1	27	2·3 +0·9	3·3
21. Marathwada	6·6 −1·8	79	39·6 +1·1	25·0 +1·8	30 −1	20	1·5 +0·1	3·4
22. Vidarbha	9·3 −3·6	72	40·6 +0·9	25·2 +0·4	35 −1	20	1·6 −0·4	3·1
23. Coastal Andhra Pradesh	1·1 −17·8	58	36·7 +0·8	26·2 +0·6	66 −4	57	3·0 −1·2	3·3
24. Telangana	16·7 −8·1	67	39·6 +1·2	25·7 +1·2	49 −3	25	2·1 −0.1	3·4
25. Rayalaseema	0·1 −15·3	1	40·8 +0·4	27·7 +0·5	56 +1	41	1·8 −0·4	2·6
26. Madras State	16·8 −22·6	43	36·0 +0·5	26·0 +0·8	71 −1	53	4·5 +1·4	4·5
27. Coastal Mysore	16·7 +1·1	107	32·5 −0·2	24·8 −0·5	77 +1	67	5·3 +1·1	4·2
28. Interior Mysore (North)	26·1 −0·1	100	38·5 +0·4	20·3 +0·6	52 0	31	3·0 +1·3	4·5
29. Interior Mysore (South)	87·3 +38·8	180	35·3 −0·2	22·6 +0·7	72 +6	36	3·4 +0·7	4·9
30. Kerala	87·1 −23·6	79	32·9 +0·7	25·9 +0·3	77 0	73	5·0 +1·1	5·6
31. Arabian Sea Islands	31·3 −12·5	71	32·3 +0·3	26·7 +0·2	75 +3	70	4·7 +1·3	4·6

NOTE :—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	33·4	..	34·7	22,23	25·0	..	21·6	1	56·5	56·5	..	14.4	19	5	..	8·1	7·0	..	0	5	0	0	3	0	0	0	0	0	0
Long Island	32·7	..	33·9	4	25·2	..	23·8	9	50·6	50·6	..	18·2	3	3	..	2·9	1·2	..	0	5	0	0	3	0	0	0	0	0	0
Port Blair	32·2	+0·5	33·5	2	24·8	+1·1	22·8	7	66·8	109·0	+49·1	47·2	19	5	−0·1	8·2	6.4	−·13	1	7	0	0	10	2	0	0	0	2	0
Car Nicobar	31·7	..	33·0	21	23·7	..	21·7	8	116·7	131·0	..	49·4	24	7	..	4·4	2·1	..	0	10	0	0	4	0	0	0	0	0	0
Nancowry	32·6	..	35·0	11	25·7	..	23·3	17	89·7	113·9	..	82·7	17	5	..	2·7	1·8	..	0	9	0	0	7	0	0	0	0	0	0
Kondul	30·2	..	31·6	13	25·2	..	23·2	16	52·2	102·0	..	24·6	27	10	..	..	..	..	0	14	0	0	13	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	28·4	..	33·7	14,17	19·4	..	15·2	3,4	66·0	181·0	..	57·0	24	13	..	7·7	10.5	..	0	13	0	0	3	0	0	0	0	0	0
Dibrugarh (Mohanbari)	28·5	+1·6	33·3	15	19·1	+0·8	16·2	4,5	51.3	305·0	+63·9	102·6	24	13	−0·6	3·8	3·5	−1·8	1	16	0	0	5	0	0	0	0	0	0
Dibrugarh	29·0	+2·1	34·2	15	19·7	+1·4	16·7	1,4	40·8	280·8	+39·7	95·0	24	13	−1·6	3·1	3·0	−2·3	0	16	0	0	8	0	0	0	0	0	0
Digboi (R)																													
Nordh Lakhimpur	29·0	+0·2	33·0	27	19·2	−0·2	14·8	1	26·1	214·1	+68·3	91·0	24	14	+3·6	..	..	..	0	15	0	0	10	0	0	0	0	0	0
Sibsagar	29·2	+1·6	33·9	15	20·2	+1·3	16·5	1	41·6	163·8	+93·3	47·7	23	13	−1·1	5·1 (b)	3·6 (c)	−0·7	0	16	0	0	0	0	0	0	0	0	0
Golpur	29·5	..	33·8	15,17	19·3	..	14·4	2	67·3	159·3	..	32·4	23	8	..	6·0	4·7	..	0	8	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	17·7	67·8	..	18·8	7	7	..	12.1	7·0	..	0	9	0	0	3	0	0	0	0	0	0
Jorhat Aerodrome	28·9	..	33·6	15	20·0	..	16·1	1	30·7	128·3	..	42·9	23	11	..	..	..	..	0	17	0	0	17	0	0	0	0	0	0
Tangla	30·1	..	35·7	18	16·5	..	15·4	6	14·0	37·7	..	10·5	6	4	..	3·2	2·1	..	0	8	0	0	0	0	0	0	0	0	0
Tezpur	30·7	+1·2	36·1	17,18	21·3	+1.4	18·9	3	29·4 (i)	86·7 (b)	−6·0	22·8	22	8	−2·7	8·9	8·6	+1·8	1	9	0	0	0	0	0	0	0	0	0
Golaghat	30·2	..	34·4	15	19·9	..	15·5	5	0	81·0	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..
Rangiya (R) Chaparmukh	32·9	..	38·3	17	20.8	..	15.5	3	4·0	62·4	..	25·4	11	5	..	6·7	5·1	..	0	8	0	0	0	0	0	0	0	0	0
Goalpara	32·5	..	39·5	18	19·9	..	14·9	9	106.4	153·0	..	108.8	30	6	..	8·4	5·7	..	0	7	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	31·9	+1·0	37·8	17	21·8	+1·9	17·8	3	2·9	99·4	−46·6	39·2	30	6	−4·0	0	1·0	−2.2	0	9	0	1	1	0	1	0	0	0	0
Gauhati	32·2	..	38·6	17	20·7	..	16·1	3	1·8	113·6	..	46·3	30	6	..	6·5	3·8	..	3	8	0	1	4	0	0	0	0	2	0
Dhubri (Rupsi)	33·5	..	39·8	16	21·3	..	16·2	9	9·0	57·8	..	28·4	22	5	..	8·8	5·8	..	0	7	0	0	8	0	0	0	0	0	0
Dhubri	32·4	+1·2	39·4	17	22·9	+1·7	17·4	9	0	48·2	−89·5	22·4	30	4	−4·1	5·7	5·0	−5·1	0	4	0	0	1	0	0	0	0	0	0
Lumding	33·2	+1·1	37·7	26	20·0	+0·9	12·1	3	8·0	36·2	−55·5	11·0	9	5	−2·2	7·5	4·7	..	0	8	0	0	0	0	0	0	0	0	0
Umroi	28·0	..	32·5	24	15·8	..	8·3	3	119·7	113·5	..	32·0	30	8	..	10·0	4·7	..	0	11	0	1	10	4	0	0	1	1	0
Tura	32·6	..	37·2	16	20·9	..	14·6	3	10·4	91·3	..	30·2	29	5	..	10·8	8·8	..	0	6	0	0	1	0	0	0	0	0	0
Haflong	27·7	..	29·8	15,27	18·7	..	14·2	4	12·4	176·1	..	53·9	22	11	..	..	..	..	1	15	0	0	12	11	0	0	0	0	0
Silchar (Kumbhirgram)	31·7	..	34·3	15	21·2	..	16·7	3	15·4	144·8	..	59·4	22	10	..	6.1	7.4	..	0	12	0	2	18	0	0	0	0	0	0
Silchar	30·3	−0·3	34·5	17	21·9	+1·5	17·4	6	7·6	142·5	242·8	49·4	22	7	−7·3	3·3	2.0	−1·5	0	13	0	0	16	0	0	0	0	0	0
Imphal (Tulihal)	30·1	+0·7	..	..	(0) 17 7	+2·2	..	..	7·7	22·2	..	..	..	..	..	(0) 11·7	(0) 8·3	−0.7	..	..	..	..	..	..	..	..	..	..	..
Kailashahar	33·9	..	37·7	16	21·9	..	15·2	3	49·3	142·2	..	44·1	18	6	..	6·9	4·4	..	0	7	0	3	12	4	0	0	0	0	0
Agartala	35·6	+0·5	40·2	15	23·5	+0·6	17·3	3	25·7	73·6	−47·7	33·2	30	4	−1·9	14·1	10.6	−0.3	1	6	0	1	8	0	0	0	0	1	0
Sub-Himalayan West Bengal																													
Bagdogra	32·7	−0·5	37·8	16	19·2	−0·4	15·3	17	0·4	71·3	+11·3	29·5	3	5	+1.2	15.8	12.1	+3·1	0	6	0	0	5	0	0	0	0	0	0
Jalpaiguri	31·4	−0·5	37·3	16	20·9	+0·8	17·8	3	14·8	23·4	−70·3	14·6	3	2	−3·5	12·8	9·2	+5·3	0	4	0	0	4	1	0	0	0	0	0
Cooch Behar	32·6	..	37·9	16	20·5	..	16·2	9	28·4	87·6	−55·9	31·3	22	7	−0·3	7·3	6·3	..	0	9	0	1	7	2	0	0	0	0	0
Balurghat	37·1	..	42·2	24	21·1	..	15.6	9	0	10·8	..	6·9	30	2	..	8·0	6·6	..	0	3	0	0	3	0	0	0	0	0	0
Malda	37·4	+1·0	42·8	24	22·5	+0·7	17·8	9	0·2	17·2	−12·8	9·0	2	2	0	11·1	8·1	+0·1	1	2	0	0	3	0	0	0	0	0	0
Gangetic West Bengal.																													
Berhampore	39·0	+1·8	43·4	23	23·9	+0·6	19· 1	9	0	0	−37·6	0	..	0	−2·7	5·5	4·7	−0·9	0	0	0	0	0	0	0	0	0	0	0
Suri	39·5	..	44·7	23	24·6	..	20·2	3	20·6	0	..	0	..	0	..	14·3	9·5	..	0	0	0	1	2	1	0	0	1	0	0
Asansol	39·5	+0·7	44·4	23	24·7	+1·3	20·1	3	8·0	0	−21·1	0	..	0	−1·8	12·9	7·9	0	0	0	0	0	2	0	0	0	0	0	0
Shanti Niketan	39·4	..	44·3	23	23·9	..	19·6	3	17·5	0	..	0	..	0	..	11.1	9·7	..	0	0	0	0	3	0	0	0	0	1	0
Krishnanagar	39·8	−2·6	43·9	23	25·0	+1·6	20·3	3	0	1·2	−56·7	0·6	29	0	−3·7	8·0	7.4	−0.8	1	2	0	0	1	0	2	0	0	0	0
Purulia	38.8	−0·2	43·7	23	25·5	+0·8	20·6	3, 10	3·3	2·1	−21·3	2·1	10	0	−2.5	8·8	5·5	+0·1	0	1	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	0	0	−31·7	0	..	0	−2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Burdwan	36·3	−1·3	40·6	23	25·3	+1.4	21·1	10	0	0	−49·3	0	..	0	−3·2	11 3	7·4	+2·6	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	37·4	..	40·5	15	25·0	..	19·6	1	0	20·6	..	20·3	10	1	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Calcutta Dum Dum	37·3	+1.4	41·2	15	24·6	+0·3	19·8	1	0	11·9	−41·9	11·9	10	1	−1·8	11·5	9·1	−4.1	0	1	0	0	5	0	1	0	0	2	0
Calcutta	37·5	+1·5	41·7	14	26·0	+1·8	21·7	10	0·8	4·6	−39·9	3·5	10	1	−2·0	14·9	8·7	+0·8	1	2	0	0	5	0	1	0	0	3	0
Midnapore	40·0	+1·7	44·6	22	25·4	+0·8	21·1	1,2	9·0	9·0	−34·2	9·0	10	1	−2·1	8·1	6·8	−0·8	0	1	0	0	1	0	1	0	0	0	0
Contai	34·5	+0·7	41·2	15	25·7	0	21·3	2	0	5·1	−20·6	5·1	10	1	−0·9	18·7	14·5	−1.8	0	1	0	0	0	0	0	0	0	0	0
Sagour Island	31·7	−0·4	36·1	15	27·3	+1·0	22·3	1	0·1	4·5	−25·2	4·4	10	1	−1·1	29·4	28.7	+6·7	1	1	0	0	2	0	0	0	0	0	0
Sandheads	30·9	..	33 5	9	27·5	..	26·1	10	0	0	−14·7	0	..	0	−1·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	39·8	..	45·1	22	24·2	..	18·2	1	2·2	23·6	..	20.8	10	1	..	4·0	2·7	..	0	3	0	1	7	1	0	0	0	0	0

(c) Mean of 28 days. (R) Register not received. (i) Total for 22 days (o) Total or Mean of 16 days. (b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																													
Jharsuguda	40·0	−0·1	44·8	22	23·7	−0.5	18·3	2	0·5	7·0	−2·8	2·7	7	1	−0·2	9·3	7·7	−0·1	0	4	0	0	6	0	0	0	0	2	0
Keonjhargarh	37·2	..	42.1	23	23·2	..	18·3	1,2	22·7	49·7	..	16·4	11	4	..	8·5	5·6	..	0	8	0	0	3	0	0	0	0	0	0
Balasore	37·0	+0·9	40·6	15	25·0	+0·6	18·6	2	4·7	42·7	−1·8	36·0	10	2	−1·5	13·8	8·3	−0·4	0	3	0	0	9	0	0	0	0	0	0
Sambalpur	39·3	−0·1	43·9	22,23	25·5	+1·7	17·7	1	0	12.4	−2·6	9·0	8	2	+0·4	6·2	4.6	−0·1	0	2	0	0	1	0	0	0	0	0	0
Angul	39·0	+0·1	43·3	22	24·8	+0·7	18·6	2	8·6	14·6	−11·6	6·0	8	3	+0·8	8·8	8.0	+0·4	0	3	0	0	2	0	0	0	0	0	0
Cuttack	39·6	+1·2	43·1	14	25·7	+0·4	19·9	2	0	0	−27·2	0	..	0	−1·7	10·6	8·4	+2·6	0	0	0	0	0	0	0	0	0	0	0
Chandbali	38·0	+1·0	41·4	14	24·4	−0·4	18·9	2	0	1·9	−34·7	1·9	28	0	−2·9	15·5	13·4	−0·6	0	1	0	0	0	0	0	0	0	0	0
Bolangir	38·5	..	43·7	23	24·8	..	17·9	1	0	62·2	..	33·2	3	3	..	8·3	7·1	..	0	4	0	0	8	0	0	0	0	0	0
Phulbani	37·6	..	41·8	23	21·2	..	17 2	1	10·0	17·2	..	10·0	2	2	..	5·2	3·0	..	0	5	0	0	2	0	0	0	0	0	0
Titlagarh	40·4	..	44·8	23	24·6	..	19·0	1	0	11·2	..	6·7	16	2	..	3·6	3·0	..	0	2	0	0	3	0	0	0	0	0	0
Bhubaneswar	38·1	+0·1	42·3	14,15	25·6	−0·1	19·9	2	0	0	−12·4	0	..	0	−1·1	25·5	23·3	−1·4	0	0	0	0	5	0	0	0	0	0	0
Puri	31·3	+0·4	35·6	1	27·0	+0·8	20·6	2	0	0	−14·7	0	..	0	−1·0	26·5	23·4	+3·3	0	0	0	0	1	0	0	0	0	0	0
Gopalpur	31·4	+0·2	33·7	16	25·1	0	20·3	2	0	0·4	−17·4	0·2	11, 16	0	−1·4	23·3	21·5	+1·5	2	0	0	0	8	0	0	0	0	0	0
Koraput	33·9	+0·3	38·3	22	21·2	+0·5	17·2	1	11·1	11·1	−37·1	7·5	26	2	−1·6	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	39·3	+1·6	43·6	23,24	23·7	+0·5	20·4	3	0	0	−21·3	0	..	0	−1·9	9·1	6·5	+2·3	0	0	0	0	1	0	1	0	0	0	0
Daltonganj	39·0	+0·4	43·6	23	21·1	0	17·5	2	0	0	−10·4	0	..	0	−0·8	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	36·4	+0·2	40·7	23,30	21·7	−0·4	17·4	3	2·4	10·3	−3·7	7·3	15	1	−0·5	14·8	9·9	−0·6	0	3	0	0	3	0	0	0	0	0	0
Dhanbad	39·2	..	43.7	23	25·2	..	20·1	3	12·6	2.3	..	1·6	10	0	..	9.9	6·9	..	0	2	0	0	3	0	0	0	0	0	0
Ranchi	37·6	+2·2	41·3	25	20·2	−1·6	15·4	1	0	0	−22·6	0	..	0	−2·4	4·4	3·9	−4·0	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	36·2	..	41·0	23	22·6	..	18·8	10	0	1·0	..	1·0	10	0	..	(j) 15·5	10·8	..	0	1	0	0	3	0	1	0	0	0	0
Jamshedpur	40.0	+1.1	44·4	22,23, 24	23·8	+0·6	17·3	4	0·4	0·8	−22·1	0.4	10	0	−2·1	9·6	5·6	+0·3	2	1	0	0	2	0	1	0	0	0	0
Jamshedpur (P.B.O)	39·4	..	43·9	22,23	24·0	..	18·9	2	1·4	2·2	..	0·8	7	0	..	..	..	..	0	3	0	0	2	0	0	0	0	1	0
Chaibasa	39·9	+1.0	44.4	23,24	25·3	+1·6	19·4	2	0	0·5	−26·4	0·5	8	0	−2·2	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari	33·9	−2·2	39·9	23	19·3	−0.5	12·7	8	0	0	−20·8	0	..	0	−1·4	6·6	2·8	−3·5	0	0	0	0	0	0	0	0	0	0	0
Forbesganj	36 9	..	40·6	16	21·1	..	17·3	18	1·8	11·6	..	9·0	30	1	..	13·5	9·7	..	0	3	0	0	2	0	0	0	0	0	0
Darbhanga	37·1	+1·0	40.6	23	22·2	+1·2	18·9	10	0	10·2	−7·1	10·2	8	1	−0·3	8·6	6·1	0	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−12·2	0	..	0	−0·9	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Chapra	39·0	..	43·9	23	24·6	..	17·2	8	0	0·1	−8·0	0·1	8	0	−0·7	6·5	4·2	..	1	0	0	0	0	0	0	0	0	0	0
Purnea	37·3	+1·6	41·7	24	21·2	+0·5	16·4	9	0·5	0·5	−32·0	0·5	9	0	−1·8	9·2	6·0	+0·5	0	1	0	0	2	0	0	0	0	0	0
Patna	38.6	+1·4	42·7	23	24·0	+0·9	20·8	3	0	0·5	−6·4	0·5	1	0	−0·6	7·7	7·6	+0·7	1	0	0	0	0	0	0	0	0	0	0
Patna Aerodrome	38·5	..	43·1	23	22·3	..	18·8	9	0	0	..	0	..	0	0	14·2	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−6·3	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bhagalpur	37·6	−0·3	41·6	24	23·1	−0·5	19·2	3	0	1·8	−6·9	1·8	30	0	−1·2	13·4	9·0	−1·4	0	1	0	0	1	0	1	0	0	0	0
Sabaur	37·9	+0·6	41·9	24	21·0	+0·1	17.2	26	0·8	5·2	−13·1	4·4	30	1	−0.3	12·1	6·9	−2·8	0	2	0	1	2	0	0	0	0	1	0
Jamui	39·5	..	43·3	23	22·9	..	16·7	3	1·8	1·8	..	1·8	9	0	..	12·5	7·5	..	0	1	0	0	2	0	2	0	0	0	0
Dehri	39·7	..	43·9	22,23, 30	24·5	..	19·3	2	0	0	−5·8	0	..	0	−0·6	12·5	8·1	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	39·8	+1·0	44·0	22	22·7	+0·1	16·2	3	0	0	−6·1	0	..	0	−0·6	15·1	9·8	+0·5	0	0	0	0	1	0	0	0	0	1	0
Uttar Pradesh (East)																													
Kheri	37·8	+0·2	47·6	29	21·0	+0·1	15·6	2	0	0	−1·7	0	..	0	−0·4	4·1	3·7	−1·2	0	0	0	1	0	0	0	0	0	1	0
Bahraich	38·0	+0·8	42·6	22	20·6	−0·1	16·6	2	0	0	−8·1	0	..	0	−0·6	11·5	7·1	+1·6	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	38·3	..	43·2	23	19·6	..	14·8	10,	0	0	..	0	..	0	..	11.2	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	37·4	−0·5	43·9	30	20·6	0	16·2	2	0	0	−1·0	0	..	0	−0·2	11·2	6·1	1·2	0	0	0	0	1	0	0	0	0	0	0
Gonda	38·3	+0·6	42·3	22,23	21·3	+1·0	17·2	2	2·6	2·6	−6·3	2·6	2	1	+0·9	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Lucknow	37·2	−1·4	42·0	30	21·5	+0·1	16·3	2	0	7·6	+1·3	7·6	1	1	+0·4	7·3	4·3	+0.4	0	1	0	0	1	0	0	0	0	0	0
Lucknow (Amausi)	38·0	−0·3	42·7	30	20·0	−0·3	15·3	2	0	0·1	−6·2	0·1	1	0	−0·6	12·9	6·4	..	1	0	0	0	1	0	0	0	0	0	0
Faizabad	37·3	..	41·2	22,23	18·8	..	15·7	3	2·0	2·0	..	2·0	2	0	..	8·7	5·1	..	0	1	0	0	1	0	0	0	0	0	0
Gorakhpur	38·9	+1·5	43·3	23	23·2	+1·4	18·9	2	0	5·0	−4·4	5·0	2	1	+0·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Kanpur	38·6	+1·2	44·5	30	22·1	+0·7	16·9	2	0	0	−5·6	0	..	0	−0·6	18·8	12·3	+0·6	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	38·5	..	44·6	30	22·0	..	16·7	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	2	0	0	0	0
Sultanpur	38·9	..	43·4	22,30	22.8	..	17·8	2	0	0	..	0	..	0	..	10·5	5·7	..	0	0	0	0	1	0	0	0	0	0	0
Azamgarh	39·3	..	44·4	23	19·7	..	16.4	3	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	39·1	+0·8	45·0	30	21·5	+0·4	16·8	2	0	0	−8·4	0	..	0	−0·6	11·7	6.2	+0·6	0	0	0	0	1	0	0	0	0	0	0
Ballia	40·0	..	44·5	24	22·5	..	19·0	3	0	0·5	..	0·5	8	0	..	9·7	4·9	..	0	1	0	0	0	0	0	0	0	0	0
Banda	39·5	..	45·0	30	22·2	..	17·0	2	0	9·8	..	9·4	2	1	..	7·6	4·2	..	0	2	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	39·7	+0·5	45·0	30	23·1	+1·1	17·3	2	0	0	−4·3	0	..	0	−0·4	9·3	5·3	−1·3	0	0	0	0	2	0	0	0	0	2	0
Varanasi (Babatpur)	39·6	+0·6	43·9	21	21·9	−0·3	17·8	2	0	0	−1·2	0	..	0	−0·2	16·2	12·8	+0·3	0	0	0	0	1	0	1	0	0	0	0
Varanasi	39·1	+0·3	43·5	22	22·7	+0·7	17·8	2	0	0	−5·1	0	..	0	−0·4	9·1	6·0	+0·7	0	0	0	0	0	0	0	0	0	0	0

(j) Mean of 21 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days w/h: Precipitation 0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																													
Dehra Dun	32·4	+0·2	37·6	30	15·9	−1·0	10·4	7	4.4	8.9	−7.6	6.0	15	1	−0.7	5·8	4·9	+1.0	9	4	0	0	3	0	0	0	0	1	0
Roorkee	35.5	+0·1	40·8	30	18·3	0	13·6	8	0	2.0	−9·4	2.0	14	0	−1·1	7·9	5·7	+1·2	0	0	0	0	3	0	0	0	0	0	0
Najibabad	35·9	..	40·9	30	..	..	..	..	0	0.2	..	0.2	15	0	..	7·6	4·5	..	1	0	0	0	1	0	1	0	0	0	0
Meerut	35·3	−1·2	40·0	21, 28	19·6	0	16.6	2,8,15	..	1.7	−7·7	1.6	15	0	−0·8	..	7·8	..	1	1	0	0	0	0	0	0	0	0	0
Bareilly	37·4	+0·8	42·6	21	21·3	+0.9	17·3	8	0	0	−6·9	0	..	0	−0·6	5·9	3·7	−0·5	0	0	0	0	0	0	0	0	0	0	0
Aligarh	37·0	+1.1	43·9	30	20·0	−0·1	16·5	8	6.2	7.4	−5.1	6.2	2	1	0	11.3	7.9	−0.1	0	2	0	0	2	0	0	0	0	0	0
Mainpuri	38·0	−0·4	44·7	29	20·7	0	13·9	3	0	0.1	−5·7	0.1	1	0	−0·7	6.6	4·7	+1·0	1	0	0	0	1	0	0	0	0	0	0
Agra	37·4	−0·4	43·6	29, 30	20·7	−0·2	14·6	1	4.0	4.0	−1.3	4.0	14	1	−0.4	6·4	4·6	−1.7	0	1	0	0	0	0	3	0	0	0	0
Agra (Aerodrome)	37·7	..	43·1	29, 30	20·5	..	16·5	8	0	0	..	0	..	0	..	..	..	..	0	0	0	0	4	0	3	0	0	0	0
Orai	37·6	..	43·3	29, 30	22·0	..	15.7	2	0.8	1.0	..	0.8	2	0	..	13·1	8.4	..	1	1	0	0	0	0	0	0	0	0	0
Jhansi	38·9	−0·3	44·2	29	25·1	+2.8	19·3	2	2.0	7.0	+3·4	7.0	14	1	+0·5	9.7	6·6	+0.8	0	1	0	0	2	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	31.9	−1·6	38·9	29	17·1	−0·8	12.4	7	10.6	23.6	+4·6	4.5	11	6	+4·2	14·3	11·1	+1·2	9	9	0	0	7	0	3	0	0	3	0
Amritsar	32.7	−1.6	39·5	28	16·7	+0·5	11.9	8	8.1	32.2	+24·5	9.5	10	5	+4·0	13·5	10·1	+0·5	0	8	0	0	5	0	1	0	0	0	0
Adampur Aerodrome)(R)																													
Ludhiana	35·1	−0·3	41.6	28	17·3	−1.9	12.4	14	0	14.6	−1.9	5.8	10	2	+0.7	8.7	5.3	+2.1	0	4	0	0	1	0	2	0	0	0	0
Ferozepur	33·3	..	40·3	29	17·4	..	12·6	8	6·4	21.4	..	5.5	13	5	..	5.9	3.7	..	0	5	0	0	1	0	0	0	0	0	0
Halwara(Aerodrome)	33·9	..	40·0	29, 30	16·1	..	9·7	8	0	14.4	..	6.8	13	3	..	..	..	..	0	4	0	0	5	0	1	0	0	0	0
Chandigarh	34·5	+0·1	40·0	29	19·9	+0.6	15·6	8	0	16.1	+5.7	12.8	14	1	+0·3	..	..	..	0	3	0	1	1	0	0	0	0	0	0
Ambala	35·2	−0.4	40·3	29	19·3	+0·2	15·6	3,7,8	0	14.8	−0·5	10.0	4	2	+0·4	(e) 11·9	(e) 9·1	..	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	34·6	..	40·0	30	17·6	..	13.3	3	0	10.0	..	7.5	4	2	..	..	..	..	0	2	0	0	3	0	1	0	0	0	0
Patiala	35·2	..	41·3	30	18·7	..	13·5	8	1.0	1.0	−2.1	1.0	15	0	−0.3	10.9	10.3	..	0	1	0	0	2	0	0	0	0	0	0
Bhatinda	34·6	..	41·8	28,29	18.7	..	12·8	8	0	28.2	..	8.3	13	4	..	9.4	7.3	..	0	5	0	0	2	0	0	0	0	0	0
Karnal	35·2	..	42·0	29	15·9	..	13.0	23	0	11.0	..	11.0	14	1	..	..	..	+1·3	0	1	0	0	0	0	0	0	0	0	0
Hissar	35·4	−1.2	42·2	29	18·5	0·8	13·2	8	0	21.2	+14.6	16.0	14	2	+1.1	9.6	8·2	+1.3	0	2	0	0	2	0	0	0	0	0	0
New Delhi	35.7	−1.4	41·9	29	20·6	−0·8	16·4	8	0	3.4	−5.0	3.4	15	1	+0.1	17.0	11.0	+0·4	0	1	0	0	1	0	2	0	0	3	0
Palam (Aerodrome)	36·6	..	43·4	29	18.7	..	13·5	8	0	1.3	..	1.3	15	0	..	..	..	..	0	1	0	0	1	0	2	0	0	0	0
Himachal Pradesh																													
Mandi	29.7	−0.7	35.1	28	13.2	0	10.1	1	30.2	55.0	+17.5	22.0	13	5	+1·0	4.2	3·7	+0.2	0	10	0	0	7	0	0	0	0	0	0
Bilaspur	32·3	..	37.7	29	13.7	..	10.3	8	2.8	10.1	..	3.0	13	2	..	..	..	..	0	5	0	0	7	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar. (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	120·0	+16·3	47.0	21	9	+1.0	..	..	..	0	11	4	0	0	0	0	0	0	0	0
Sonamarg (R)																													
Leh	11.1	−1.9	15.7	28	−1.7	−0.8	−5·4	8	0.1	9·1	+3.3	5.2	16	2	+1.2	8.8	7.5	+3.2	0	2	4	2	0	0	0	0	0	0	0
Srinagar	17·5	−1.8	24.5	28	7.5	+0.5	4·4	1	29.5	114.5	+21·8	52.2	11	8	+0.2	7·6	6.6	+1·5	0	15	0	0	3	0	0	0	0	0	0
Srinagar (Aerodrome)	17·1	..	23.9	28	6.7	..	2.2	11, 12	25.8	101.1	..	48.2	11	8	..	..	..	..	0	13	1	0	4	0	0	0	0	2	0
Gulmarg	Closed during winter Months																												
Jammu	32.1	−0·1	39·1	30	..	..	..	..	..	35.3	+2·5	14.8	11	4	+1·4	..	8·8	..	0	8	0	0	3	0	4	0	0	0	0
Jammu (Aerodrome)	32.1	..	38·9	30	18·6	..	13.7	14	7.2	28.5	..	14.5	11	3	..	..	..	..	0	8	0	0	6	0	1	0	0	0	0
Rajasthan (West)																													
Ganganagar	35·4	+0·2	42·7	28,29	18·7	+2.0	13.9	8	2.6	9.8	+2.2	6·2	13	1	+0.1	5.9	4.5	−4.4	0	4	0	0	2	0	0	0	0	0	0
Churu	35·9	..	42.6	29	18·8	..	13·9	8	0	2.1	..	2.1	13	0	..	12·8	8.8	..	0	1	0	0	2	0	0	0	0	0	0
Bikaner	36·8	−1.1	43.2	28	19·1	−2.2	14.7	8	0	2.3	−2·5	2.3	13	0	−0.5	7·5	5.8	−1·8	0	1	0	0	1	0	0	0	0	0	0
Nagaur	36·4	..	41·9	29,30	20·3	..	17·3	7	0	1.3	..	1.3	10	0	..	10·9	6·8	..	0	1	0	0	0	0	1	0	0	0	0
Phalodi	36.4	..	42·2	28,29	21·5	..	17.5	14	0	7.1	+4·0	3.7	13	2	+1·7	15.4	12.6	..	0	2	0	0	1	0	0	0	0	0	0
Jaisalmer	36·1	..	42·5	28	21·4	..	17·1	15	0	20.8	..	20.8	10	1	..	13·8	9·9	..	0	1	0	0	0	0	0	0	0	0	0
Jodhpur	37·5	+0·1	43·9	28	21·9	+0·3	16.3	23	0.6	7.6	+4·3	7.0	10	1	+0.5	10·6	8.6	−2.3	0	2	0	0	3	0	0	0	0	1	0
Barmer	37·3	+0·6	43·0	27	23·2	−0·3	18·9	13	0	8.3	+3·5	5.8	10	1	+0·6	8·8	8·5	−0·8	0	3	0	0	2	0	0	0	0	0	0
Munabao	37.5	..	46·0	27	..	..	..	..	16.2	33.0	..	27.8	10	2	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	36·3	..	43·1	29	18.5	..	14.1	8	0	0	..	0	..	0	..	15·2	11.1	..	0	0	0	0	0	0	2	0	0	0	0

(R) Register not received.

(e) Mean of 26 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(Contd).																														
Sikar	35·5	..	40·6	28	17.5	..	12·0	8	0	0	..	0	..	0	..	11.2	7.6	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	37·2	..	43·5	29,30	21.4	..	17·5	8	0	2·4	..	2·4	1	0	..	7·0	4.5	..	0	1	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer)	36.5	−0·1	42·0	29	20·5	+0·1	16·3	1	0	0	−4·3	0	..	0	−0·5	..	..	..	0	0	0	0	2	0	5	0	0	0	0
Dholpur	38·5	..	44·5	30	21·5	..	16·6	8	2·0	6·6	..	3·7	3	1	..	5·6	2·9	..	0	3	0	0	0	0	1	0	0	0	0
Ajmer	35·6	−0·7	41·6	28	21.4	−0·5	16·2	23	0	10·6	+6·8	10·6	10	1	+0·6	11·8	8·5	+1·3	0	1	0	0	1	0	1	0	0	0	0
Tonk	38·3	..	43·3	29	20·9	..	16·3	24,	0	0	..	0	..	0	..	10·4	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Kotah	36·8	−1.9	42·6	28	23·8	−0·5	20·4	25 2,5,	3·8	4·6	−0·7	4·6	5	1	+0·5	8·6	6·4	−2·1	0	1	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	37·1	..	42.6	28	21·8	..	17·8	24 7	0	0	..	0	..	0	..	8·0	5·5	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat BhattaDam)	38·4	..	43.4	29	22·8	..	19·1	5	0	0	..	0	..	0	..	11·7	7·9	..	0	0	0	0	1	0	0	0	0	0	0
Udaipur	35·9	−0·6	41·0	28	19·4	−2 4	13·7	23	0	0	−2·8	0	..	0	−0·2	5·9	4·0	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	38·9	+0·8	43·7	29	22·3	+1·1	18.1	23	0	0·2	−6·7	0.2	5	0	−0·5	8·7	6·0	+0·4	1	0	0	0	2	0	0	0	0	0	0
Madhya Pradesh (West)																														
Gwalior	38·7	−0·4	44·4	29	21·6	−1·7	16·9	25	0	0	−5·1	0	..	0	−0·6	11.6	7·0	..	0	0	0	0	4	0	0	0	0	1	0
Sheopur	38·5	−0·3	43·3	29	21·0	−0·3	17·3	24	0	2·6	+1·0	1·6	5	0	−0·2	10·5	7·1	−0·1	0	2	0	0	2	0	1	0	1	1	0
Shivpuri	36·6	..	42·6	29	..	..	..	..	0	4·0	..	2·0	5	0	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Nowgong	38·7	−0·1	44·0	29	19·3	−1·9	15 1	2	3·8	11·8	+7·5	6·4	14	2	+1·7	8·4	5·0	+1·3	0	3	0	0	3	0	0	0	0	0	0
Guna	38·4	+0·8	43·2	29	20·0	+0·6	15·1	16	1·2	3·7	−3·7	2·9	14	1	+0·5	14·7	9·4	..	0	3	0	0	4	0	0	0	0	2	0
Nimach	37·2	−0·1	42·1	28	21·7	+0·1	17·5	9	0	0	−3·1	0	..	0	−0·3	10·7	8·1	−1·4	0	0	0	0	1	0	2	0	0	0	0
Rajgarh	39·6	..	44·8	29	21·7	..	17·3	16	0·4	4·3	..	1·8	4	0	..	11·5	8·1	..	0	4	0	0	0	0	0	0	0	0	0
Sagar	37 6	−0·1	42·8	29	22·7	−0·1	16·7	2	3·0	4·0	−1·3	2·0	4	0	−0·5	6·8	4·6	..	0	3	0	0	3	0	0	0	0	0	0
Ratlam	38·5	+0·7	42·9	28	22·2	−0·5	18·6	16	0	0	−1·6	0	..	0	−0·2	6·6	4·4	−4·1	0	0	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	38·6	+1·3	42·6	28	21·5	−0.1	17·9	2	0	1·4	−4·2	1·4	1	0	−0·7	14·3	11·5	+0·6	0	1	0	0	1	0	0	0	0	3	0
Ujjain	38 7	..	42·8	28	20·9	..	14·6	23	..	0	..	0	..	0	..	..	9·2	..	0	0	0	0	0	0	0	0	0	0	0
Hoshangabad	40.4	+1·6	44·0	29	24·9	+1·8	18·3	10	0	0	−3.3	0	..	0	−0·3	8·0	6·3	+2·3	0	0	0	0	0	0	0	0	0	0	0
Indore	38·2	−0·1	42·5	28	20·9	+0·9	16·6	1	0	1·0	−2·3	1·0	14	0	−0·3	14·9	13·9	..	0	1	0	0	2	0	0	0	0	0	0
Rajpur (Jhabua).	38·9	..	43·0	27	22·2	..	17·4	16	0	0	..	0	..	0	..	9·3	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	37·4	+0·9	41·9	22	22.1	+0·3	16 5	2	1·5	15·7	+4·7	13·2	1	1	−0·2	9·4	6·5	−0.1	1	3	0	0	4	0	0	0	0	0	0
Seoni	38·4	+0·9	43·0	24	22·1	+0·7	17·1	2	0	6·8	−8·4	4·6	1	1	−0.7	8.5	6·6	+1·1	0	2	0	0	4	0	0	0	0	0	0
Betul	38·2	+1·1	41·4	29	20·8	−0·1	17·5	3	0	6·6	−2·2	6·6	1	1	+0·1	8·6	5·7	0	0	1	0	0	1	0	0	0	0	0	0
Khandwa	40·9	+0·7	44·4	27	24·3	+0·6	20·1	16	1·0	1·0	−1·8	1·0	13	0	−0·3	11·7	8·9	+0·5	0	1	0	0	1	0	4	0	0	0	0
Madhya Pradesh (East)																														
Sutna	38·4	+0·3	44·1	30	21.6	−0.3	16·9	2	24·8	28·8	+21·7	28·8	2	1	+0.3	8·4	6.0	0	0	1	0	0	3	0	0	0	0	0	0
Sidhi	38·9	..	43·7	22	20·9	..	15.5	2	0	0	..	0	..	0	..	11·0	5·6	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	38·8	+1·6	43·5	30	20·7	+0·3	15·7	2	0	14·0	+2·3	7·2	2	2	−1·1	8·6	5·0	−0·6	0	2	0	0	2	0	0	0	0	0	0
Jabalpur	39·7	+1·6	44·1	30	21·0	+0·8	17·4	2	0	0·6	−7·5	0·6	2	0	−0·8	8·3	5·4	+1·5	0	1	0	0	1	0	0	0	0	0	0
Ambikapur	36·9	+0·3	41·9	23	19·8	−0·5	14·8	2	3·2	6·2	−2·3	3·2	10	2	+1·0	12·9	8·9	+0·1	0	2	0	0	5	0	0	0	0	0	0
Pendra	36.1	+0·9	41·6	23	22.5	+0 8	12·4	2	7·4	30·9	+6·3	20·9	2	2	−0·1	11·2	7·9	..	0	6	0	1	8	0	0	0	0	0	0
Mandla	38·2	+0·3	42·6	23,30	19·6	+0·5	16·2	6	0	8·0	−5·9	4·2	1	1	−0·8	7·2	4·3	+0·5	0	3	0	0	5	0	0	0	0	0	9
Champa	40·2	+0·4	44·8	23	23·8	−0·9	18·1	1,2	0	16·6	+6·8	5·4	1	4	+2·6	9·1	6·6	0	0	5	0	0	5	0	0	0	0	0	0
Raigarh	39·0	+1·3	45·0	22,23,	24·0	−1·4	18·5	2	0	16·8	+9·3	10·2	8	2	+1·3	7·6	5·8	+0·5	0	4	0	0	1	0	0	0	0	0	0
Raipur	40·2	+0·9	44·4	24, 21	25·2	+2.1	18·4	2	0	4.7	−11·6	2.2	1	0	−1·7	8·8	8·1	−0.1	1	3	0	0	1	0	0	0	0	0	0
Kanker	38·6	+0·1	42·7	22	25.0	+2·1	17·8	1	0	32·1	+2·4	16·4	29	2	−0·3	8·8	6·8	+1·2	0	5	0	0	5	0	0	0	0	0	0
Jagdalpur	37·3	+0·2	41·0	22	23·3	−1·2	19·4	5	22·2	49.3	+4·1	16·7	12	6	+2·5	6.5	4·5	..	2	6	0	0	16	0	0	0	0	1	0
Gujarat Region																														
Deesa	38.1	..	43.6	27	21·0	..	17·7	23	0	0	..	0	..	0	..	10·6	7·5	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	37·9	..	43·5	27	21·5	..	17·3	1	0	0	..	0	..	0	..	9·3	6·7	..	0	0	0	0	0	0	0	0	0	0	0
Idar	38·3	..	43·0	28	23·7	..	18·2	1	0	0	..	0	..	0	..	9·6	8·8	..	0	0	0	0	0	0	0	0	0	0	0
Ahmedabad	39·4	−1.4	44·5	27	22·7	0	18·4	24	0	0	−1·3	0	..	0	−0·1	8·8	7·0	−0·9	0	0	0	0	0	0	0	0	0	0	0
Dohad	38·9	+0·4	43·0	27	23·6	−0.2	18·6	1	0	0	−1·5	0	..	0	−0·1	12·8	13·5	−4·5	0	0	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	39·6	..	44·5	27	22·0	..	16.1	23	0	0	..	0	..	0	..	8·5	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Baroda	40·5	+0·7	45·2	27	22.7	+1·0	17·6	23	0	0	0	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Broach	40·2	+0·2	45·2	25	23·3	−0·4	20·0	16,	0	0	−1·8	0	..	0	−0.1	8·9	8·0	−0·1	0	0	0	0	0	0	0	0	0	0	0
Surat	37·9	+0·6	41·6	27	22.7	−0·5	20.0	23 1	0	0	−0·8	0	..	0	−0·1	9·5	8·1	+1·3	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Bhutakia Bhimasar	37·8	..	43·3	27	22·8	..	20·8	1	0	0	..	0	..	0	..	18·0 (b)	18·2 (b)	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	34·0	..	42·0	26	19·4	..	13·5	23	0	0	..	0	..	0	..	17.9	12·8	..	0	0	0	0	0	2	0	0	0	0	0
Bhuj (Rudramata)	37.1	−0·6	42·8	27	21·4	−0·8	18·1	23	0	0	−1·8	0	..	0	−0·1	15·3 (h)	12·7	..	0	0	0	0	0	0	0	0	0	0	0
Kandla (Aerodrome)	37·6	..	42.7	26	21·7	..	18.5	27	..	0	..	0	..	0	..	14·6	13·0	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	33.7	..	41·4	26	22·7	..	21·1	4	0	0	..	0	..	0	..	17·9	17·8	..	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 29 days.

(b) Mean of 23 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																													
mandvi	31·9	−0·4	39·0	23	21·4	−0·9	18·5	25	0	0	0	0	..	0	0	23·8	21·1	−2·7	0	0	0	0	0	0	0	0	0	0	0
Surendranagar (R)																													
Jamnagar (Aerodrome)	35·5	+0·2	41·1	26	21·5	+0·8	17.8	23	0	0	−0.5	0	..	0	0	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	29.5	0	31·4	25	24·0	−0·7	22.2	15	0	1·2	+0·4	1·2	13	0	0	17·4	16·6	+1·2	0	1	0	0	0	0	0	0	0	0	0
Rajkot	37·8	−1·1	42.9	26,27	20·6	−0·4	16·5	24	0	0	−1·0	0	..	0	−0·1	17.3	18·2	+1·5	0	0	0	0	0	1	0	0	1	0	0
Bhavnagar (Aerodrome)	37·9	..	42·4	28	23·8	..	20.4	5,23	0	0	..	0	..	0	..	20·5	17·0	..	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar	39·5	+0·6	44·2	27	22·5	−0·6	19.4	15	0	0	−2·5	0	..	0	−0·3	11·1	9·6	+0·4	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	33·4	..	41·8	26	21·5	..	18·6	2,5	0	0	..	0	..	0	..	20·4	14·7	..	0	0	0	0	0	1	0	0	0	0	0
Porbander	31·6	−0·7	40·2	26	22·7	−0·6	20.6	5	0	0	−0·4	0	..	0	0	19·0	14·4	−1·8	0	0	0	0	0	0	0	0	0	0	0
Keshod	38·1	..	44.0	27	20·3	..	17.6	22	0	0	..	0	..	0	..	19·6	16·4	..	0	0	0	0	0	3	0	0	0	0	0
Mahuva	35·8	..	39·8	23,25	22·7	..	16.6	1	0	0	..	0	..	0	..	14·2	11·0	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	32.3	..	39·8	25	21.0	..	18.4	17,22	0	0	0	0	..	0	0	22.5	18·5	..	0	0	0	0	1	1	0	0	0	0	0
Konkan																													
Dahanu	31·9	0	35·6	15	23·5	−0·3	21·3	17	0	0	−7·2	0	..	0	−0·3	20·2	13·6	−1·0	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	32·9	+0·8	36·0	27	23·0	+0·6	20·5	2	0	0	−0·3	0	..	0	0	17·1	10·6	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	32·4	+0·7	35·1	27	24·6	+0·1	22·8	2	0	0.3	−0·5	0·3	4	0	0	13·8	9.7	−1·7	0	1	0	0	0	0	0	0	0	0	0
Alibag	31·0	+0·1	34·5	27,28	23·5	−0·6	20·9	1	..	0	−0·3	0	..	0	0	..	11·2	+0·3	0	0	0	0	0	0	0	0	0	0	0
Harnai	29·7	−0·1	32·5	27	25·7	0	22·3	2	0	0	−10·2	0	..	0	−0·6	21·4	17·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31·7	..	33·6	6	25·6	..	23·0	1	0	0	−2·5	0	..	0	−0.3	..	..	..	0	0	0	0	2	0	0	0	0	0	0
Devgarh	31·6	−0·3	33·5	6,30	25·8	+0·5	22·9	2	0	0	−7·6	0	..	0	−0·8	20·2	16·4	+0·1	0	0	0	0	1	0	0	0	0	0	0
Vengurla	32·7	+0·1	35·7	6	24·0	−0·7	20·5	2	1·8	5·0	−3·7	3.0	6	1	+0·2	12.7	7·4	..	0	2	0	0	7	0	0	0	0	0	0
Maharashtra																													
Nandurbar	40.4	..	44.6	27	24·8	..	20·6	1	10·8	15.6	..	15·6	5	1	..	9.8	9·7	..	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	42·3	+1·2	45·9	27	24·6	+0·3	20.2	2	0	0	−2·1	0	..	0	−0·2	14·5	14·2	+1·1	0	0	0	0	0	0	0	0	0	0	0
Malegaon	40·4	+0·8	43·8	27,28	22·1	+0·5	19·1	2	0	0	−3·1	0	..	0	−0·3	10·7	10.0	−0·1	0	0	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	38·7	..	42·5	27	20·1	..	16·2	2	0·5	1·5	..	1.0	4	0	..	10·6	6·5	..	0	2	0	0	4	0	0	0	0	0	0
Ahmednagar	39·6	+1·7	42·6	21	22·9	+1·9	..	..	7·8	13.0	+2.8	7·8	5	2	+0·9	11·6	9·6	−0·2	1	2	0	0	6	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	0	−7·9	0	..	0	−0·7	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	38·8	..	42·2	27	21.1	..	16·4	2	0.8	4·6	..	3·3	5	1	..	..	..	..	0	2	0	0	6	0	1	0	0	0	0
Poona	39·3	+1·0	42·8	27	20 5	+0·3	15·8	2	24·8	29·9	+14·9	18·0	3·0	2	+0·7	5·0	3·7	−6·6	0	4	0	0	6	0	0	0	0	3	0
Jeur	40·0	+1·1	43·0	22	23·1	+0·3	18·9	2	2·2	14·4	−1·1	5·2	13	2	+0·5	9·2	8·9	−0·7	0	5	0	0	4	0	0	0	0	0	0
Baramati	38·6	−0·2	42·0	21	22·8	+0·5	19·3	5	0	4·2	−3·0	4·2	1	1	+0·4	8·6	9·7	−0·7	0	1	0	0	6	0	0	0	0	0	0
Sholapur	39·8	+0·1	43·1	22	25·0	+0·9	20·0	2	0	4·8	−8·7	1·3	30	0	−1·2	10·9	10·1	−0·2	1	6	0	0	5	0	0	0	0		0
Miraj	38.6	+1·3	41·0	21,22	22·1	+1·0	17·5	13	68·0	76·4	+25·9	68·0	13	2	−1·1	..	..	..	0	5	0	1	8	0	0	0	0	0	0
Kolhapur	38·6	+1·8	41·4	25	22 0	+0·7	19·8	2	4·2	15·9	−17·4	6·6	26	3	+0·2	12·5	11.7	−1·4	1	4	0	0	6	0	1	0	0	0	0
Marathwada																													
Aurangabad	39·6	+1·1	43·0	27	25·0	+1.8	19·2	2,5	0·2	3·2	−2·9	3·2	5	1	+0.4	10.8	11·1	−1·0	0	1	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthana)	39·1	..	42·4	28	23·2	..	17·6	2	3·5	4·9	..	4·9	5	1	..	12·6	11·3	..	0	1	0	0	1	0	0	0	0	0	0
Parbhani	40·4	+0·6	44·2	22	23·8	−0·2	17·5	5	0	10·0	−0·3	4·8	5	2	+0.7	10·1	8·1	−0·8	0	3	0	0	4	0	0	0	0	0	0
Nander	41·0	..	45·0	22	..	..	..	..	0	13·7	..	5·8	5	2	..	7·9	5·5	..	0	4	0	0	1	0	0	0	0	0	0
Bir	40·3	..	43·6	21	24·0	..	18·6	5	0	5·8	..	3·6	5	1	..	(d) 9·8	(e) 7·7	..	0	3	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	40·4	+1·2	44·6	23	25·1	+0·6	19·4	2	0	8·3	−4·2	6·1	2	1	−0·4	7·7	5·0	+0·2	0	2	0	0	1	0	0	0	0	0	0
Nagpur (sonegaon)	40·8	+0·6	45·1	22	23.9	−0·2	18·5	1,2	0.7	1·9	−13·3	0·9	1	0	−1·3	10·6	8·3	..	0	3	0	0	4	0	0	0	0	3	0
Amravati	41·2	+1·0	45·1	23	25·0	+0·3	19·9	17	0	0	−8·6	0	..	0	−0.8	13·1	10·4	+3·0	0	0	0	0	0	0	1	0	0	0	0
Akola Aerodrome	41·2	+0·4	45·0	22	24·9	+1 1	19·9	1	0	7·6	+2·5	6·9	1	1	+0·5	9·2	7·0	−0·2	0	2	0	0	0	0	0	0	0	0	0
Bramha-puri	41·1	..	44·7	22	25·9	..	20·1	1	0	2·4	..	2·4	1	0	..	9·1	6·1	..	0	1	0	0	2	0	0	0	0	0	0
Buldhana	38·0	+0·9	41·5	25	24·4	−0.7	17·4	8	0	3·0	−5·9	3·0	1	1	+0·1	10·7	10·7	−0·1	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	40·4	+1·0	43·7	22,23	25·3	+0·1	18·4	2	8·8	11·9	−4·3	8·8	2	1	−0·4	13.9	12·0	+0·4	0	3	0	0	1	0	0	0	0	0	0
Chanda	41·4	+0·6	45·2	22	26·2	+1·8	20·5	2	22.8	30·6	+10·8	21·8	2	2	+0·2	8·8	6.7	+2·0	0	3	0	0	11	0	0	0	0	0	0
Pusad	41·2	..	46·0	4 days	24.5	..	18·2	2	0	0	..	0	..	0	..	10·2	7·8	..	0	0	0	0	0	0	0	0	0	0	0
Sironcha	41.1	+1·2	44·6	23	26·9	+0·2	22·4	24	0	10.8	−6·0	10·8	24	1	−0·3	6·9	5·2	−1·2	0	1	0	0	6	0	0	0	0	0	0
Costal Andhra Pradesh																													
Kalingapatm	33·9	+0·3	36·4	16	25·8	−0·1	21·8	3	0	0	−19·3	0	..	0	−1·5	22.9	16·5	+3·1	0	0	0	0	4	0	0	0	0	0	0
Vishakapatnam	35·8	−0·1	39·6	23	26·2	+0·9	21·6	1	0	0	−18·0	0	..	0	−1·3	24.4	15·2	+1·5	0	0	0	0	0	0	0	0	0	0	0
Kakinada	36·7	+1·1	39·6	27	26·3	+0·5	24·6	2,13	0	0	−16·3	0	..	0	−1·0	13·9	10·0	+1·8	0	0	0	0	0	0	0	0	0	0	0
Idadavole	37·0	..	40·2	16	25·1	..	22·7	1	0	0	..	0	..	0	..	9·4	6·6	..	0	0	0	0	1	0	0	0	0	0	0

(d) Mean of 27 days. (e) Mean of 26 days. (R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Rentachintala	41·1	+2·5	44·2	22	27·4	+1·2	25·0	5	6·8	6·8	−23·4	6·8	22	1	−1·7	7·8	9·1	−1·5	0	1	0	0	1	0	0	0	0	0	0
Gannavaram	38·4	+0·6	41·5	15	26·0	+0·4	23·4	4	0	0	−14·8	0	..	0	−0·7	16·6	13·6	+0·6	0	0	0	0	0	0	0	0	0	0	0
Nagarjuna konda	41·5	..	44·1	22,24	28·7	..	25·6	3	1·0	1·4	..	1·4	24		..	13·2	18·4	..	0	3	0	0	5	0	0	0	0	0	0
Masulipatam	35·0	+0·4	38·1	15	25·4	0	23·1	6	0	0	−17·5	0	..	0	−0·9	8·5	5·7	−3·6	0	0	0	0	0	0	0	0	0	0	0
Ongole	36·1	..	39·9	23	26·5	..	23·9	6	0	0	..	0	..	0	..	13·7	10·5	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	37·8	+0·4	42·0	24	25·9	−0·7	24·2	6	0	0	−12·2	0	..	0	−0·6	13·8	10·8	+1·8	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	41·4	+1·1	44·7	22,23	27·3	+0·6	21·1	24	0	64·6	+54·7	62·0	24	1	+0·3	9·7	8·6	+0·7	0	3	0	0	4	0	2	0	0	0	0
Nizamabad	40·3	+0·5	44·0	23	25·3	+0·7	19·0	5	0	27·0	+5·4	23·0	5	2	0	8·8	6·7	+11·6	0	2	0	0	5	0	0	0	0	0	0
Hanamkonda	40·6	+2·4	44·7	23	26·9	+1·8	24·3	3	0	0·2	−22·9	0·2	15	0	−1·6	9·8	10·8	+11·3	1	0	0	0	3	0	0	0	0	0	0
Hakimpet (Aerodrome)	37·1	..	40·4	22,23	24·8	..	21·0	1	0·2	17·9	..	6·0	24	3	..	..	..	..	1	4	0	0	13	0	0	0	0	2	0
Bhadrachalam	40·4	+1·1	43·4	25	26·1	+1·0	22·6	5	0	5·0	−17·9	4·0	5	1	−0·6	8·0	8·5	−1·1	0	2	0	0	4	0	0	0	0	0	0
Hyderabad (Begumpet)	37·8	+0·7	41·2	22	24·9	+1·2	21·4	2,5	5·5	22·8	−6·9	9·0	1	4	+2·1	10·0	8·7	−1·3	0	6	0	0	10	0	0	0	0	5	0
Khammam	40·4	..	43·8	23	26·7	..	24·8	1,2	0	0	..	0	..	0	..	6·3	6·8	..	0	0	0	0	2	0	1	0	0	0	0
Mahbubnagar	38·8	..	41·0	19,20	25·7	..	21·7	2	2·0	6·5	..	4·2	1	1	..	9·6	8·2	..	0	3	0	0	4	0	1	0	0	0	0
Rayalseema																													
Kurnool	40·8	+1·0	43·0	4 days	27·7	+1·6	25	2	0·2	0·2	−16·8	0·2	2	0	−1·5	..	..	..	1	0	0	0	0	0	0	0	0	0	0
Anantapur	39·4	+0·9	41·2	15	26·7	+1·1	22·2	2	0	0·2	−15·9	0·2	9	0	−1·2	10·0	11·0	+0·7	1	0	0	0	7	0	0	0	0	0	0
Cuddapah	40·8	+0·4	43·0	20	27·7	+0·5	24·5	6	0	0	−14·5	0	..	0	−1·1	10·8	8·2	+3·1	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	36·0	..	38·4	24	22·9	..	20·3	1	0	0	..	0	..	0	..	9·4	9·2	..	0	0	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	34·0	..	36·3	14	25·7	..	23·8	12	..	0	..	0	..	0	..	..	9·4	..	0	0	0	0	0	0	0	0	0	0	0
Madras (Minambakkam)	35·8	+0·5	38·7	24	26·1	+0·5	24·6	11	2·5	2·5	−13·0	2·5	28	1	+0·1	15·4	11·5	+0·1	0	3	0	0	0	0	0	0	0	0	0
Vellore	37·9	+0·8	40·5	16,24	25·0	+0·4	22·5	7	0	0	−25·4	0	..	0	−1·5	6·8	9·5	−3·5	0	0	0	0	0	0	0	0	0	0	0
Tambaram (Aerodrome)	37·1	..	40·0	16	25·7	..	23·8	11	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Tiruppattur	37·5	..	39·8	16,24	22·9	..	20·0	7	29·1	33·7	..	13·2	18	4	..	5·7	5·1	..	0	4	0	0	8	0	0	0	0	0	0
Cuddalore	33·6	+0·2	37·1	16	25·8	+0·4	23·8	7	0	1·6	−23·3	1·6	3	0	−1·1	16·0	11·6	+3·4	0	1	0	0	0	0	0	0	0	0	0
Kallakkurichchi	38·5	..	41·0	21,24	25·5	..	23·0	6	0·4	0·4	..	0·4	27	0	..	8·0	6·6	..	0	1	0	0	1	0	0	0	0	0	0
Salem	38·0	+0·1	39·7	16	25·9	+1·2	24·2	6	19·0	19·0	−30·0	10·4	20	2	−1·6	9·9	9·9	+3·6	0	5	0	0	10	0	0	0	0	0	0
Coimbatore (Pilamedu)	36·5	..	39·7	25	23·9	..	22·4	27	5·9	18·5	..	5·2	26	3	..	13·4	14·7	..	0	8	0	0	11	0	0	0	0	2	0
Coimbatore	36·7	+0·9	39·1	25	24·2	+1·1	22·1	27	5·8	12·8	−27·3	5·8	27	2	−1·2	8·7	7·0	+2·8	0	4	0	0	6	0	0	0	0	0	0
Nagapattinam	33·7	+0·4	37·8	16	27·2	+0·7	24·7	11	0	0	−28·2	0	..	0	−1·3	18·3	15·3	+5·2	0	0	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	37·7	−0·1	39·7	24	26·5	+0·9	24·8	6,7	0	0	−45·7	0	..	0	−2·0	11·0	10·6	+1·7	0	0	0	0	1	0	0	0	0	0	0
Vedaranniyam	34·3	..	36·5	25	25·9	..	22·8	11	0	0·4	..	0	1	0	..	10·7	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Atirampattinam	33·7	..	35·6	24	26·7	..	24·3	7	13·0	44·0	..	26·4	1	2	..	17·7	13·8	..	0	5	0	0	5	0	0	0	0	0	0
Madurai	37·3	+0·7	39·9	21	26·6	+1·8	24·6	1	20·8	9·8	−45·1	9·8	1	1	−2·1	6·2	5·2	+0·5	0	1	0	0	1	0	0	0	0	0	0
Madurai (Aerodrome)	36·9	..	39·5	24	25·9	..	23·8	2	11·6	11·6	..	11·6	3	1	..	9·9	9·3	..	0	1	0	0	9	0	0	0	0	0	0
Tondi	32·4	..	33·6	20	26·7	..	22·5	1	7·8	30·4	..	18·3	1	3	..	17·0	17·0	..	0	4	0	0	6	0	0	0	0	0	0
Pamban	33·5	+0·7	34·9	25	27·0	+0·5	24·8	4	14·0	42·9	+3·8	38·0	27	2	−1·2	13·4	11·3	+1·5	0	4	0	0	0	0	0	0	0	0	0
Tuticorin	32·1	+0·2	35·0	18	25·8	−0·7	22·2	2	9·0	157·0	+91·6	126·0	2	3	−0·8	16·8	13·0	−0·6	0	3	0	0	2	0	0	0	0	0	0
Palayankottai	36·5	+1·1	39·4	18,25	25·4	−0·5	22·3	2	49·4	79·0	+3·2	24·2	27	6	+2·1	5·2	4·1	−3·0	0	7	0	0	5	0	0	0	0	0	0
Kanniyakumari	32·4	..	34·6	13	26·1	..	21·6	2	0	38·0	..	22·0	3	2	..	16·8	15·5	..	0	2	0	0	2	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·1	+0·5	34·0	6	25·1	−0·2	23·0	1,3	0	1·8	−15·0	1·8	28	0	−1·0	18·4	11·8	..	0	1	0	0	0	0	0	0	0	0	0
Honavar	32·5	−0·2	34·2	29	24·8	−0·5	22·4	4	0	31·5	+14·7	31·3	30	1	−0·2	11·3	9·1	+3·8	0	1	0	0	3	0	0	0	0	0	0
Mangalore (Bajpe)	33·8	..	35·0	27	25·1	..	21·6	27	0	53·5	..	36·9	27	3	..	11·4	7·4	..	0	5	0	0	7	0	0	0	0	0	0
Mangalore	33·0	+0·1	34·1	27	25·9	+0·1	22·0	22	0	73·8	+34·9	35.6	27	3	+0·7	11·9	9·3	+1·3	0	4	0	0	5	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	37·9	+0·8	41·6	22	24·6	+0·2	18·0	4	44·8	42·2	+15·0	29·2	4	4	+1·5	11·4	10·4	+0.1	0	6	0	0	1	0	0	0	0	0	0
Gulbarga	39·6	−0·1	42·8	21,22	24·9	+0·3	19·4	2	0	11·6	−9·5	5·1	25	1	−1·1	13·9	12·4	+2·1	0	6	0	0	9	0	0	0	0	0	0
Bijapur	38·7	+0·5	41·3	23	24·2	+0·6	20·6	4	16·4	32·0	+10·4	9·4	12	5	+3·2	7·0	6·7	−0·7	1	6	0	0	9	0	0	0	0	0	0
Raichur	39·7	+0·5	42·0	20	26·6	+0·6	21·0	2	2.4	14·6	−1·7	4·8	1	3	+1·6	8·5	11.2	+1·5	0	5	0	0	4	0	0	0	0	0	0
Belgaum	36·7	+0·4	38·6	20,27	21·1	+1·5	18·3	8	19·6	29·8	−14·7	10·0	28	4	+0·7	10·4	8·1	+0·3	0	6	0	0	8	0	0	0	0	0	0
Belgaum (Samra)	36·5	..	38·4	19,25	21·5	..	18·5	2	1·3	43·5	..	19·0	29	3	..	..	..	..	1	5	0	0	13	0	0	0	0	0	0
Gadag	38·4	+1·3	40·7	19	22·8	+0·4	20·4	3	0·1	38·3	+1·2	10·7	25	3	+0·2	10·4	10·1	+0·3	0	6	0	0	13	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	38·9	−0·4	41·0	19,20	26·1	+0·9	22·5	2	4.0	20·0	−1·3	16·0	28	1	−0·9	7·5	7·4	+1·1	0	3	0	0	2	0	0	0	0	0	0
Chitradurga	36·5	+0·2	37·8	22	23·4	+0·7	20·0	30	1·4	51·6	+27·0	31·8	30	3	+1·0	9·7	7·8	+0·9	1	4	0	0	6	0	0	0	0	0	0
Shimoga	36·3	+0·6	38·1	18	21·5	−0·7	19·3	2	28·2	67·6	+14·6	28·2	12	5	+1·1	6·3	5·5	+0·2	0	7	0	0	1	0	0	0	0	0	0
Balehonnur	31·7	..	34·2	16	19·2	..	16.7	3	..	129·0	+38·8	28.5	27	11	+4·5	..	..	..	0	12	0	0	8	0	0	0	0	0	0

Division and station	Air temperature in °C.								Rain fall millimeters						No. of days (2.5 mm. or more)		Wind speed, kms. per hour.			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal.	Height	Date	Mean minimum	Departure from normal.	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall 24 in hours	Date	Total in the month	Departure from normal	Mean between 0830.1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost.	Gale	Squall	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore South—*Contd.*																													
Hassan	32·8	−0·8	35·5	16,17	19·9	+0·3	17·1	21,28	7·6	175·4	+19·5	47·8	28	10	·8	7·1	7·0	+0·7	0	1	0	0	15	2	0	0	0	0	0
Bangalore	34·0	+0·4	36·1	18	21·8	+1·2	18·7	3	10·8	65·2	+24·3	45·6	3	4	+1·4	8·9	8·8	+1·9	0	5	0	0	9	0	0	0	0	6	0
Bangalore Aerodrome	35·0	..	37·4	16	21·4	..	19·6	3	7·1	22·9	..	11·4	3	3	..	..	..	..	0	6	0	0	9	0	0	0	0	2	0
Mysore	34·5	−0·3	36·8	18	21·6	+0.3	20·3	5days	6·4	82·9	+24.5	21·5	3	7	+2·4	8·5	7·6	−0·1	0	9	0	1	9	0	0	0	0	0	0
Keraia																													
Calicut	33·4	+0·6	34·0	11,13	26·5	+0·7	22·9	27	2·0	64·0	−26·9	49.2	27	2	−2·2	16·9	13·5	+2·7	0	5	0	0	9	0	0	0	0	0	0
Palghat	37·1	..	40·1	26	25·7	..	23.4	2	42·1	62·8	..	28·6	27	5	..	12·4	10·3	..	0	6	0	0	11	0	0	0	0	0	0
Fort Cochin	32·2	+0·8	33·6	18	25·9	0	22·5	4	0·6	159·5	+34·0	74·4	26	6	−0·1	17·0	12·3	+3·8	0	9	0	0	12	0	0	0	0	0	0
Cochin Naval (Air-station)	33·2	..	34·7	2	25·8	..	22·3	4	0·4	87·7	..	38·1	4	6	..	14·1	10·3	..	0	7	0	0	23	0	0	0	0	1	0
Alleppey	33·1	+0·5	36·0	1	25·9	+0·2	22·4	4	4·2	139·2	−23·5	37·0	4	7	−1·5	17·0	13·3	+1·2	0	9	0	0	11	0	0	0	0	0	0
Punalur	35·7	..	38·3	11	24·5	..	22·7	4	43·0	128·7	..	27·6	30	9	..	6·0	4·3	..	0	11	0	0	2	0	0	0	0	0	0
Trivandrum	33·1	+0·8	34·3	13,14	25·3	+0·2	22·5	30	23·8	37·7	−77·9	15·1	30	5	−1·9	13·5	8·9	+2·0	1	8	0	0	19	0	0	0	0	0	0
Trivandrum Aerodrome	33·3	..	34·1	..	25·4	..	22·9	2	..	40·6	..	10·1	30	6	..	..	6·2	..	1	9	0	0	10	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	20·4	−2·4	27·0	28	10·5	−1·4	4·4	11	69·3	139·6	+60·8	28·6	14	12	+7·1	6·7	7·5	+1·2	0	13	0	0	11	0	0	0	0	0	0
Dharmsala	25·0	−1·1	30·6	28	15·9	−0·9	10·1	11	25 6	75·8	+28·8	23·8	14	7	+3·7	7·4	5·9	−0·4	0	9	0	0	14	0	0	0	0	0	0
Simla	18·5	−0·3	23·9	28	10·3	0	5·6	15	34·0	54·7	+8·7	13·4	13,14	8	+3·9	6.7	5·1	+2·3	0	9	0	2	6	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	43·6	+8·5	15·2	14	5	+2·3	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Lokpol	0·7	..	3·4	29	−6·2	..	−8·8	1	..	68·3	..	12·2	7,11,13	6	..	..	..	..	1	17	7	18	0	27	0	26	0	0	0
Badrinath			Closed	during	winter	month																							
Joshimath	23·1	..	27·8	27	10·4	..	5·6	7	10·5	34·7	..	17·4	15	3	..	10·1	9·8	..	0	6	0	0	0	0	0	0	0	0	0
Mussoorie	21·1	+0·4	26·6	21	11·7	+0·1	4·7	2	13 8	23·4	−10·4	12·6	2	3	−0·8	10 0	6·9	−1·5	0	4	0	0	4	0	2	0	0	0	0
Mukteswar (Kumaun)	21·7	+1·8	25·9	20	11·2	+1·0	5·8	5	0	26·8	−9·0	26·8	15	1	−2·3	15·6	14·2	+3·4	0	1	0	2	4	0	0	0	0	0	0
Nainital	20·7	−0·5	25·1	4days	11·4	−0·7	5.0	3	6·0	22·0	−2·7	16·0	16	2	0	10·5	7·9	−0·2	0	2	0	0	0	0	0	0	0	0	0
Walong (R)																													
Kalimpong	26·4	+3·0	30.3	18	16·9	+1·6	11·2	3	27·9	27·9	−41·4	27·9	30	1	−4·8	5·8	4·5	−8 2	0	1	0	0	0	0	0	0	0	0	0
Darjeeling	18·6	+1·3	24.8	25	11·3	+1·0	7.4	3	9·8	25 0	−80 2	13·0	2	3	−4·5	1·4	1·7	−1·8	0	3	0	1	1	9	0	0	0	0	0
Kohima	24·0	..	28·4	17,25	18·5	..	13 8	4,6	27·9	68 9	..	26·7	11	6	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Shillong	24·1	+0·7	29.5	16	14.6	+0·7	7·7	3	58·9	75·6	−53·9	20·8	2	7	−2 2	(c) 8·5	(e) 6·7	−1·7	0	8	0	0	1	0	0	0	0	0	0
Cherrapunji (R)																													
Abu	29·9	+0·8	34·6	28,29	17·9	−2·3	13·6	15	0	0	−2·8	0	..	0	−0·3	13·0	7·9	−1·6	0	0	0	0	0	0	0	0	0	0	0
Aijal	27·8	..	31·6	16	19·3	..	13·1	19	3·3	62 8	..	35·0	18	5	..	11·9	13·1	..	0	7	0	0	0	3	0	0	0	0	0
Pachmarhi	34·2	+0·9	38·2	29	18·3	−2·1	14·2	1	2·0	7·8	−1·6	5·8	1	1	+0·1	6.8	5·4	−1·4	0	3	0	0	1	0	0	0	0	0	0
Mahabaleshwar	31·6	+1·9	34·6	25	19·7	+0·8	16·6	1	0 2	0·2	−29·8	0·2	30	0	−1·5	11·2	11·5	+0 2	1	0	0	0	3	0	0	0	0	0	0
Mercara	28·7	0	30·9	1	18 0	+0·3	16·6	22	45·2	142·8	+77·8	28·0	20	9	+3·9	9·8	7·5	+2·4	0	13	0	0	13	0	0	0	0	0	0
Ootacamund	23·6	+1·7	24·9	23	11·3	+0·5	9·0	6,7	28·6	64·8	−12·4	37·2	20	3	−3·5	5 6	2·2	−3·1	0	8	0	0	10	0	0	0	0	0	0
Coonoor	24·8	+1·1	26·4	4days	14·4	+0·8	12·3	6	..	300·3	+15·2	97·2	26	7	+0·1	..	7·2	+2·1	0	7	0	0	6	0	0	0	0	1	0
Kodaikanal	20·7	+0·6	22·4	17	11·6	−0·1	9·7	13	92·2	160·8	+38·4	41·1	1	9	+1·[illegible]	[illegible]	12·4	+0·3	0	15	0	2	16	1	0	0	0	0	0
Nepal																													
Katmandu	29·1	..	33·3	24	10.5	..	6·7	10	4.2	21	..	8 2	2	3	..	3·1	1·6	..	0	4	0		4	1	0	0	0		0
Sikkem																													
Lachen	15·7	..	19·4	25	5·7	..	1·1	9	..	104·4	..	29·0	17	9	..	..	..	..	1	14	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilatya	37·1	..	41·2	22,23	23·3	..	18·6	9	0·8	0.8	..	0·8	9	0	..	..	..	..	0	1	0	0	0	0	1	0	0	0	0
Hazaribagh	35·6	..	40·2	23	21·1	..	16·3	3	0	2·7	..	1·3	2,15	0	..	..	..	..	1	2	0	0	2	0	0	0	0	0	0
Konar									0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Bokaro	39·0	..	43·4	23	21·4	..	17·2	3	3.6	3·6	..	3·6	10	1	..	..	..	..	0	1	0	0	2	0	0	0	0	0	0

*Data given as addenda in December 1961 issue. (R) Register not received. (b) Tota for 29 days. (e) Mean of 26 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.																													
Damodar Catchment.																													
Maithon	36·7	..	40·5	22,23	22·7	..	19·4	1,3	5·0	5·0	..	5·0	30	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Ramgarh	38·4	..	43·3	25	21·8	..	17·8	3	24·0	24·0	..	24·0	10	1	..	5·9	3.4	..	0	1	0	0	0	0	0	0	0	0	0
Panchet Hills	40·3	..	48·8	21	23·0	..	16·7	28	0.4	0·4	..	0·4	10	0	..	12·2	8·2	..	0	1	0	0	1	0	0	0	0	0	0
Durgapur	40·2	..	45·0	24	23·7	..	18·9	1	0	0	..	0	30	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Mahnaadi Catchment.																													
Ginabahar	38·7	..	43·5	23	21·6	..	15·4	2	..	23·3	..	20·3	10	1	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..
Hirakud	39·1	..	44·0	22	25·1	..	19·8	2	0	13·2	..	11 6	8	1	..	5·6	4·9	..	2	4	0	0	6	0	0	0	0	0	0
Bhimkund	38·0	..	42·8	23	21·7	..	15·8	1	0·8	23·7	..	12·5	30	3	..	3·1	1·6	..	0	5	0	0	4	0	0	0	0	0	0
Sonepur	39·4	..	44·7	23	..	..	..	..	..	25·2	..	9·2	1	4	..	..	5·1	..	0	7	..	..	..	..	..	..	..	..	..
Khijrawan	39·1	.	42·8	22	23·7	..	17·3	1	2·6	22·1	..	7·8	1	3	..	11·4	7·2	..	0	5	0	0	4	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	40·6	..	44·5	29	23·1	..	19·1	3	0	1·3	..	1·3	13	0	..	7·4	4·1	..	0	1	0	0	0	0	0	0	0	0	0
Punasa	41·6	..	46·4	16,25	24·2	..	19·8	16,17	0	0	..	0	..	0	..	5·7	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Thiki	41·6		44·8	21	24·2	..	20·1	16	..	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment.																													
Daroi	38·5		42·2	20	24·1	..	19·6	5	0	0	..	0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment.																													
Mukhim	22·3	..	27·3	30	12·3	..	7.1	2	6·4	20·2	..	12·7	15	2	..	..	..	..	1	5	0	1	6	0	0	0	0	0	0
Tehri	32·7	..	38·5	30	15·4	..	11·3	3	4·6	20·8	..	12·6	2	2	..	5·2	3·3	..	0	2	0	0	3	1	0	0	0	0	0
Gandak Catchment																													
Jomosom	20·9	..	24·9	27	4·7	..	1·4	3	0	5·0		5·0	2	1	..	..		..	0	1	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	16·4	45·2	..	13·0	2	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Timure (R)																													
Pokhara	30·7	..	36·2	23	17·4	..	12·3	2	63·2	57·6	..	0	6	5	..	8·1	6·6	..	0	7	0	0	0	0	0	0	0	0	0
Gorkha																													
Nuwakot	32·3	..	36·4	23,24	18·2	..	13·0	2	0·8	9·6	..	7·8	30	1	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment.																													
Mansiari (R)																													
Dadeldhura	23·7	..	27·9	21	13·7	..	6·7	18	0·8	3·2	..	2·4	15	0	..	..	..	..	0	2	0	0	6	0	0	0	0	0	0
Sallayana	28·2	..	32·5	22	17·9	..	13·1	2	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	(b) 37·5	..	42·4	22,23	23·4	..	19·9	2,16	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Chautara	28·6	..	33·6	24	15·6	..	9·5	2	16·6	33·5	..	22·5	30	2	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	42·6	115·4	..	41·0	15	10	..	..	..	..	1	14	..	..	..	..	..	..	..	..	..
WalungchungGola	13·4	..	18·6	25	6·9	..	–1·1	3	18·6	53·4	..	14·0	6	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Taplethok	26·3	..	32·3	25	18·4	..	11·3	9	4·8	46·8	..	13·2	30	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Taplejung	23·3	..	28·9	24	12·7	..	8·0	3	9·7	80·7	..	47·4	29	6	..	..	..	..	1	10	0	0	4	1	0	0	0	0	0
Okhaldunga	23·7	..	27·9	24	13·3	..	7·6	3	9·7	42·5	..	25.4	2	3	..	7·9	5·8	..	1	7	0	2	10	0	0	0	4	2	1
Chainpur	29·0	..	34·0	24	17·4	..	12·0	2	9·6	30·6	..	15·0	30	4	..	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Angbung	(f) 28·2	..	33·6	25	17·0	..	12·6	3	8·0	10·0	..	28·0	29	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Barahakshetra	35·1	..	40·0	16	(e) 21·0	..	17·2	7	7.5	10·2	..	3·0	9	2	..	12·5	7·6	..	0	7	0	0	1	8	0	0	0	2	0
Tista Catchment.																													
Gangtok	21·9	..	25·6	25	12·4	..	7·4	6	25·1	159·2	..	53·6	6	12	..	3·9	3·3	..	0	15	0	1	11	7	0	0	0	0	0
Gezing	25·6	..	30·9	25	13·6	..	9·4	3	0	91·1	..	14·5	1	12	..	..	..	..	0	13	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. †Data included under 'Nepal'. (R) Register not received. (e) Mean of 26 days. (f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1010·4	1007·3	..	30·4	26·6	25·0	31·7	74	..	3·6	..	2·4	0	0	16	1	5	0	1	0	2	1	6	14	0
	1730	,,	1007·6	1004·5	..	29·3	26·0	24·5	30·7	76	..	3·9		2·3	0	0	13	0	5	0	1	1	1	1	4	17	0
Long Island	0830	25	1010·0	1007·2	..	29·5	26·2	24·8	31·3	75	..	4·3	..	0·6	0	0	4	0	0	0	0	1	0	1	0	26	2
	1730	,,	1007·1	1004·3	..	29·5	25·5	23·7	29·3	72	..	5·6	..	0.6	0	0	3	0	0	0	1	0	0	1	0	27	1
Port Blair	0530	79	1008·9	999.9	..	25·2	24·9	24·9	31·5	97	..	5·0	..	3·1	0	0	14	0	3	2	0	0	2	1	6	16	0
	0830	,,	1010·7	1001.9	0	30·0	26·5	25·2	32·1	75	+2	4·8	+1·1	5·2	0	0	23	2	8	3	2	0	1	3	4	7	0
	1130	,,	1009·5	1000·8	..	31·2	27·5	26·2	34·0	75	..	5·2	..	7·9	0	0	29	1	6	13	1	2	2	4	0	1	0
	1730	,,	1007·8	998·9	..	28·3	26·4	25·6	32·8	85	..	5·7	..	4 2	0	0	18	1	3	1	2	1	1	5	4	12	0
	2330	,,	1009·3	1000·4	..	25·9	25·3	25·1	31·9	96	..	3·7	..	3 1	0	0	12	0	3	2	0	1	0	2	4	18	0
Car Nicobar	0830	10	1010·7	1009·5	..	29·6	26·0	24·5	30·7	73	..	5·3	..	3·5	0	0	22	1	13	0	1	0	3	0	4	6	0
	1730	,,	1007·8	1006·6	..	28·4	25·7	24·4	30·5	79	..	5·0	..	0·8	0	0	6	1	2	1	1	0	0	1	0	24	0
Nancowry	0830	26	1010·6	1007·7	..	30·0	26·3	24·9	31·5	76	..	4·9	..	1·2	0	0	6	0	0	0	1	0	3	1	1	24	0
	1730	,,	1007·8	1004·9	..	28·5	25·6	24·4	30·5	78	..	4·6	..	0·5	0	0	3	0	0	0		0	1	1	1	27	0
Kondul	0330	8	1010·3	1009·4	..	29·0	26·2	25·0	31·7	79	..	5·3	..	1·1	0	0	9	0	8	0	0	0	1	0	0	21	0
	1730	,,	1007·7	1006·8	..	27·8	25·8	24·9	31·5	84	..	5·2	..	1·2	0	0	10	0	4	2	3	1	0	0	0	20	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1010.2	992·3	..	23·4	19·8	17·6	20·1	71	..	4·9	..	12·1	0	7	17	2	1	0	0	1	0	1	19	6	0
	1730	,,	1006·3	988·6	..	24·5	21·6	20·1	23·5	78	..	5·8	..	4·4	0	2	14	2	1	0	0	0	0	1	12	14	0
Dibrugarh (Mohanbari)	0230	111	1007·3	994.5	..	20·2	19·1	18·5	21·3	90	..	5.5	..	2·1	0	0	8	0	8	0	0	0	0	0	0	22	0
	0530	,,	1008.3	995.4	..	19·8	18·6	17·4	23·2	89	..	5.6	..	1·9	0	0	10	1	6	2	0	0	0	0	1	20	0
	0830	,,	1009·9	997·2	−1·0	24·0	20·4	18·2	21·0	71	−7	4·9	−0·2	6·6	0	1	19	1	15	4	0	0	0	0	0	10	0
	1130	,,	1008·8	996·3	..	26·4	21·5	19·0	21·6	65	..	5·2	..	5·1	0	0	19	0	10	6	1	1	0	0	1	11	0
	1730	,,	1006·3	994·1	..	25·1	21·6	19·9	22·9	73	..	6·0	..	2·2	0	0	9	0	6	2	0	1	0	0	0	21	0
	2330	,,	1008·0	995·2	..	21·2	19·9	19·1	22·1	88	..	5·6	..	2·2	0	0	8	0	6	1	1	0	0	0	0	22	0
Dibrugarh	0830	106	1009·8	997·5	−0.7	24·5	20·7	18·4	21·3	70	−8	4·7	−0.4	2·8	0	0	27	5	10	7	2	0	1	0	2	3	0
	1730	,,	1005·1	993·6	..	25·7	21·8	19·7	22.9	71	..	5·7	..	0·9	0	0	9	0	4	5	0	0	0	0	0	21	0
Digboi (R)	0830	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1010·1	998·4	−0.4	24·0	21·0	19·2	22·4	76	0	4·6	−0·7	..	0	0	28	8	10	4	4	1	0	1	0	2	0
	1130	,,	1009·2	997·7	..	26·7	21·8	19·1	22·1	64	..	4 7	..	..	0	0	30	2	6	5	9	3	3	1	1	0	0
	1730	,,	1006·7	995·1	..	25·0	22·2	20·8	24·4	79	..	4·9	..	..	0	0	24	3	13	4	0	1	2	1	0	6	0
Sibsagar	0830	97	1010·1	999·3	−0·1	24·3	21·4	19·7	23·2	77	−4	6·1	+0·1	3·5	0	0	23	2	8	4	4	1	4	0	0	7	0
	1730	,,	1006·2	995·5	..	26·3	22·5	20·5	24·1	72	..	5·2	..	(b) 2·4	0	0	14	3	6	4	1	0	0	0	0	16	0
Golpur	0830	..	..	..	..	24·1	21·3	19·3	22·9	78	..	(b) 2·1	..	(b) 3·0	0	0	29	0	1	27	1	0	0	0	0	0	0
	1730	..	..	..	..	26·1	22·8	20·9	25·0	74	..	(b) 1·8	..	4·4	0	0	29	0	1	26	1	1	0	0	0	0	0
Majbat	0830	..	..	..	..	..	..	..	..	..	..	3·7	..	5·8	0	0	30	2	9	11	4	1	2	1	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	2·8		4·0	0	0	19	5	5	0	4	0	4	0	1	11	0
Jorhat (Aerodrome)	0530	90	1007·4	997·1	..	20·5	20·0	19·7	22·9	95	..	4·8	.	3·9	0	0	14	3	11	0	0	0	0	0	0	16	0
	0830	,,	1009.5	999·3	..	23·7	21·3	20·1	23·4	81	..	5·1	..	6·9	0	0	25	6	15	0	0	1	2	0	1	5	0
	1130	,,	1008·5	998·4	..	26·5	22·4	20·2	23·8	70	..	4·8	..	10·1	0	1	26	3	19	3	0	0	1	0	1	3	0
	1730	,,	1005·3	995·1	..	25·8	22·2	21·2	23·8	76	..	4·7	..	7·2	0	0	24	1	20	1	0	0	1	0	1	6	0
	2330	,,	1007·4	997·1	..	21·7	20·8	20·2	23·8	92	..	3·8	..	3.9	0	0	18	2	15	0	0	0	0	0	1	12	0
Tangla	0830	78	1009.2	1000.3	..	25.8	21·7	19·5	22·7	69	..	2·3	..	1·6	0	0	8	0	1	5	0	0	1	1	0	22	0
	1730	..	1004.3	995.7	..	27.6	23·1	20·9	24·6	68	..	2·3	..	0.7	0	0	5	0	0	3	0	0	2	0	0	25	0
Tezpur	0830	79	1008·9	1000·2	−1.5	24·3	23·4	22·9	27·9	91	+17	4·3	+0·2	3·1	0	0	28	0	19	6	2	0	1	0	0	2	0
	1730	,,	1005·3	996·5	..	27·7	26·5	25·7	33·6	90	..	4·6	..	5·3	0	0	23	0	16	5	0	0	1	0	0	7	1
Golaghat	0830	..	..	..	..	24.1	21.3	19.6	23.1	77	..	(c) 4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	28	0
	1730	..	..	..	..	26.5	23.0	21.2	25.3	74	..	(p) 3·3	..	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Rangiya (R)	0830	..																									
(R)	1730	..																									
Chaparmukh	0830	66	1009·5	1002·1	..	26·3	22·1	19·9	23·2	69	+1	3·3	..	4·0	0	0	30	4	0	14	4	3	1	4	0	0	0
	1730	,,	1004·9	997·5	..	30·0	22·8	18·9	21·8	54	..	4·1	..	3·6	0	0	30	11	1	3	2	4	2	6	1	0	0

(c) Mean of 28 days. (p) Mean of 15 days. (b) Mean of 29 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Goalpara	0830	38	1008·9	1004·5	..	23·9	21·0	19·0	22·4	76	..	(b) 3·4	..	(b) 4·4	0	0	29	2	19	3	3	0	2	0	0	0	0
	1730	"	1004·8	1000.5	..	29·4	23·1	19·2	23 1	57	..	2·3	..	4·7	0	0	26	0	19	1	2	0	1	3	0	4	0
Gauhati	0830	55	1009.2	1002.9	−0.6	25·9	21·8	19·5	22·7	69	−4	2·6	1·2	0·2	0	0	2	0	0	2	0	0	0	0	0	28	0
	1730	"	1004·9	998·7	..	29·5	22·6	18·8	21·8	55	..	2·7	..	1·2	0	0	12	0	5	3	1	0	2	0	1	18	0
Gauhati (Bhorjor)	0230	54	1005·7	999·6	..	21·7	20·1	19·1	22 2	86	..	3·1	..	4·8	0	0	23	2	10	4	0	2	4	0	1	7	0
	0530	"	1007·2	1001·0	..	21·1	20·0	19·3	22·4	90	..	4·1	..	1·4	0	0	10	2	5	2	0	0	1	0	0	20	0
	0830	"	1009·0	1002·9	..	25·5	21·9	20·0	23·2	73	..	4 0	.	6·0	0	0	26	7	12	2	0	0	2	2	1	4	0
	1130	"	1007·5	1001·4	..	29·2	23·2	20·1	23·5	59	..	3·4	..	9·5	0	0	30	5	12	5	0	1	2	3	2	0	0
	1730	"	1004·1	998·1	..	29·3	23·0	19·3	22·9	58	..	3·8	..	5·2	0	0	21	5	9	1	1	0	3	1	1	9	0
	2330	"	1006·6	1000·3	..	23·2	20·8	19·4	22·7	81	..	3·1	..	7·1	0	0	23	2	13	3	0	2	3	0	0	7	0
Dhubri (Rupsi)	0530	36	1006·1	1002·0	..	21·9	19·8	18·5	21·3	80	..	3·6	..	2·7	0	0	17	0	5	7	1	1	2	0	1	13	0
	0830	"	1008.0	1003·9	..	26·7	21 6	18·7	21·6	63	..	3·1	..	7·2	0	0	29	1	4	15	5	1	3	0	0	1	0
	1130	"	1007·0	1002·9	..	30·7	22·7	18·0	21·1	50	..	3·2	..	8·6	0	3	26	0	3	9	8	1	7	0	1	1	0
	1730	"	1003.0	999·0	..	30·3	22·6	17·8	21·0	51	..	1·6	..	1·9	0	0	14	1	2	7	0	0	1	3	0	16	0
Dhubri	0830	35	1009·2	1005·2	−0·2	26·4	22·2	20·0	23·4	6)	−2	2·7	−1·1	5·3	0	0	18	0	13	2	0	0	3	0	0	12	0
	1730	"	1004·4	1000·5	..	29·5	23·6	21·1	24·4	61	..	1·3	..	4·3	0	0	19	3	8	2	1	0	3	0	2	11	0
Lumding	0830	149	1008·5	991·7	..	26·1	21·9	19·7	22·9	68	−3	3·2	..	4·5	0	0	19	1	2	5	7	1	3	0	0	11	0
	1730	"	1004·7	988·1	..	28·3	22·6	19·4	22·7	60	..	5·3	..	3·9	0	0	20	0	1	3	5	5	4	0	2	10	0
Umroi	0830	..	..	..	..	22·9	17·7	14·5	16 5	63	..	3·2	..	4·1	0	0	27	2	5	6	4	1	3	3	3	3	0
	1130	..	..	..	..	26·2	18·6	13·9	15·9	48	..	5·1	..	6·4	0	0	30	5	5	3	5	4	1	2	5	0	0
	1730	..	..	..	..	22·7	18·4	15·6	17·7	67	..	4·9	..	4·4	0	0	28	6	7	2	1	3	4	3	2	2	0
Tura	0830	370	1008·8	967·7	..	26·7	22·2	19·7	22·9	67	..	4·8	..	5·4	0	0	23	0	0	4	2	9	6	2	0	7	0
	1730	"	1004·4	964·0	..	30·9	27·6	26·2	34 2	77	..	4·6	..	4·5	0	0	27	1	1	2	4	8	9	1	1	3	0
Haflong	0830	682	1009·0	934·0	..	22·5	19·0	16·9	19·1	72	..	3·4	..	..	0	1	29	3	0	0	1	9	17	0	0	0	0
	1730	"	1004·2	929·8	..	24·9	20·5	18·1	20·5	66	..	4·7	..	..	0	0	30	0	0	0	0	1	29	0	0	0	0
Silchar (Kumbhigram)	0530	97	1007·0	995 8	..	21·7	20·3	19·5	22 7	88	..	4·5	..	7·6	0	0	29	0	6	19	0	0	0	4	0	1	0
	0830	"	1008·7	997·7	..	25·4	22·2	20·5	24·1	74	..	4·1	..	7.4	0	0	30	0	0	21	6	0	1	1	1	0	0
	1130	"	1007·4	996·6	..	29·5	23·1	19·6	22·9	57	..	3·3	..	7·0	0	0	27	3	1	6	1	2	4	7	3	3	0
	1730	"	1003·9	993·0	−0·7	29·0	24·0	21·5	25·8	69	..	3·9	..	2·9	0	0	25	1	1	7	0	0	2	10	4	5	0
Silchar	0830	29	1010 2	1006·8	..	26·5	23·1	21·2	25·5	73	−2	4·0	−0·2	2·2	0	0	22	2	7	6	2	0	2	2	1	8	0
	1730	"	1005·4	1002·1	..	29·9	24·5	22·1	26·3	65	..	3·0	..	1·1	0	0	11	2	4	1	1	1	0	1	1	19	0
Imphal (Tulihal)	*0530	801	1009·1	922·3	..	18·7	17·2	16·3	18·5	87	..	3·6	..	2·7	0	0	7	1	1	0	1	3	0	1	0	9	0
	*0830	"	1009·7	923·9	−1·3	24·5	19·8	17·3	19·7	64	+1	4·0	+0·7	4·9	0	0	11	0	0	0	1	3	2	4	1	5	0
	*1130	"	1007·0	922·3	..	27·7	20·9	17·0	19·7	54	..	4·6	..	8·7	0	0	13	0	0	0	0	2	0	4	6	3	1
	*1730	"	1004·4	920·1	..	25·9	20·8	18·0	20·8	61	..	4·4	..	7·5	0	0	15	0	2	0	0	0	1	2	10	1	0
	†2330	"	1007·8	921·8	..	20·9	18·7	17·3	20·0	81	..	3·5	..	4·6	0	1	9	1	0	0	0	0	3	3	3	7	0
Kailasahar	0530	29	1008·4	1004·9	..	22·7	21·6	20·9	25·1	92	..	5·4	..	2·2	0	0	9	1	1	1	1	4	0	1	0	21	0
	0830	"	1010·2	1006·9	..	27·5	24·1	22·6	22·3	75	..	3·9	..	9·3	0	1	28	0	3	2	5	16	1	0	2	1	0
	1130	"	1008 5	1005·6	..	31·5	25·3	22·5	27·3	55	..	4·1	..	8·6	0	0	30	2	2	1	2	17	3	2	1	0	0
	1730	"	1005·6	1002·3	..	29·9	24·8	22·3	27·3	65	..	4·9	..	5·2	0	0	19	0	3	2	3	7	1	2	1	11	0
Agartala	0230	16	1005·7	1003·9	..	24·6	23·4	22 7	27·7	89	..	2·2	..	7·1	0	0	26	1	2	2	5	15	1	0	0	4	0
	0530	"	1006·7	1004.9	..	24·1	23·0	22·4	27·3	91	..	4·6	..	7·4	0	1	27	1	1	6	6	12	2	0	0	2	0
	0830	"	1008·6	1006·8	−0·4	29·2	24·9	22·6	27·9	69	−2	4·1	+0·2	9·2	0	0	30	2	2	1	3	18		0	0	0	0
	1130	"	1007·4	1005·7	..	33·3	25·6	21·9	26·6	53	..	3·7	..	14·4	0	4	26	2	0	0	5	13	7	3	0	0	0
	1730	"	1004·0	1002·3	..	30·5	23·9	20·9	24·3	60	..	4·0	..	15·3	0	6	24	2	1	2	3	16	5	1	0	0	0
	2330	"	1006·4	1004·5	..	25·4	23·5	22·7	28·9	84	..	2·4	..	8·0	0	0	25	1	1	1	4	17	1	0	0	5	0
Sub-Himalayan West Bengal																											
Bagdogra	0230	131	1005·2	990·3	..	(l) 22·4	(l) 19·1	(l) 16·9	(l) 19·3	(l) 72	..	2·5	..	6·0	0	0	30	9	9	8	0	1	0	1	2	0	0
	0530	"	1006·6	991·5	..	20·6	19·2	18·3	21·0	87	..	3·4	..	5.6	0	0	27	6	8	9	2	0	1	0	1	3	0
	0830	"	1008·3	993·6	−0·2	27·2	21·9	18·9	21·8	62	+4	3·3	+0·5	11·3	0	1	28	1	1	20	6	0	0	1	0	1	0
	1130	"	1007·1	992·5	..	30·6	23·3	19·5	22·7	53	..	2·9	..	12·2	0	2	28	1	1	16	8	2	1	1	0	0	0
	1730	"	1003·0	988·5	..	29·7	22·9	19·2	22·2	54	..	2·9	..	7·4	0	1	27	0	11	12	1	1	1	2	0	2	0
	2330	"	1006·0	991·1	..	(m) 23·7	(m) 19·7	(m) 17·2	(m) 19·6	(m) 67	..	3·1	..	8·1	0	0	30	10	10	6	3	0	0	1	0	0	0
Jalpaiguri	0830	83	1008·4	999·0	−0·6	24·8	20·6	18·2	20·9	68	−2	1·8	−0·8	10·9	0	3	25	5	12	7	2	0	0	0	2	2	0
	1730	"	1003·1	998·9	..	31·1	22·6	17·5	20·0	47	..	1·0	..	7·2	0	0	27	3	9	7	0	1	2	1	4	3	0

(b) Mean of 29 days. †Observations for 17 days. *Observations for 16 days. (m) Mean of 18 days. (l) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West Bengal)—*Contd.*																											
Cooch Behar	0830	43	1008·7	1003.9	..	26·8	21·8	·0	22·0	64		3·4	..	11·8	0	5	2[illegible]	0	8	16	1	2	0	1	0	1	1
	1130	,,	1007·5	1002·7	..	30·1	22·9	19·3	22·4	54	..	2·9	..	12·3	0	4	26	0	3	17	3	3	1	1	0	6	2
	1730	,,	1003·6	998·8	..	29·8	23·1	19·8	23·1	56	..	1·9	.	3·4	0	0	18	3	9	4	0	0	1	0	0	12	1
Balurghat	0830	—	—	—	..	29·0	22·3	18·6	21·4	56	..	2·5	..	8·3	0	0	28	2	6	5	3	1	6	3	2	2	0
	1730	—	—	—	..	33·9	22·8	16·4	18·6	38	..	1·2	..	3·3	0	0	23	2	5	1	2	1	4	4	4	7	0
Malda	0830	31	1007·9	1004·4	0	29·6	21·6	16·9	19·3	49	−1	2·7	+0.8	9·6	0	0	30	1	2	8	2	3	6	2	6	0	0
	1730	,,	1002·8	999 3	..	34·4	23·3	15·0	17·0	32	..	1·0	..	6·9	0	0	29	2	4	2	1	1	2	7	10	1	0
Gangetic West Bengal																											
Berhampore	0830	19	1007·3	1005·1	−1.0	29·2	23·6	20 8	24·6	63	−1	0·4	−2·8	4·7	0	0	23	2	0	2	0	13	2	4	0	7	0
	1730	,,	1002·4	1000·3	..	35·8	22·8	15·1	17·1	30	..	0·8	..	2·7	0	0	16	1	0	1	0	7	0	6	1	14	0
Suri	0830	77	1008·2	999·6	..	30·4	21·3	15·8	17·9	41	..	2·3	..	8·1	0	0	30	1	1	1	3	9	9	4	2	0	0
	1730	,,	1003·1	994·7	..	37·2	20·5	7·	19·5	17	..	3·5	..	11·3	0	3	25	1	1	2	1	1	4	13	5	2	0
Asansol	0230	126	1004·9	990 7	..	27·2	20·6	16·6	18 9	51	..	1·5	..	2·9	0	0	12	0	0	0	4	1	1	3	3	18	0
	0530	,,	1005·9	991·7	..	25·1	19·5	16·1	18·3	57	..	1·7	..	2·4	0	0	11	0	0	0	3	2	1	2	3	19	0
	0830	,,	1007·7	993·7	+0·1	31·5	21·4	15·3	17·4	39	−11	1·4	-0·8	8·6	0	2	24	0	2	1	2	1	4	8	8	4	0
	1130	,,	1006·6	992·8	..	37·1	22·1	12·5	14·5	24	..	1·4	..	11·7	0	3	27	1	0	0	2	2	5	9	11	0	0
	1730	,,	1002 5	988·8	..	36·8	21·6	11·3	14·3	23	..	1·6	..	9·5	0	3	22	0	0	0	2	2	1	10	10	5	0
	2330	,,	1005·5	991·4	..	28·9	20·6	15·3	17·4	45	..	0·8	..	6·1	0	0	19	1	0	0	5	4	3	3	3	11	0
Shanti Niketan	0830	59	1007·8	1001·2	..	31·5	23·3	18·4	21·1	49	..	1·4	..	8·3	0	1	29	3	0	0	0	9	10	4	4	0	0
	1130	,,	1006·8	1000·4	..	36·1	22·9	15·0	17·0	30	..	1·6	..	8·1	0	1	27	4	0	0	1	2	10	5	6	2	0
	1730	,,	1003 0	996·5	..	35·5	21·9	12·6	14·6	28	..	1·6	..	9·1	0	3	27	4	0	0	1	2	5	9	8	0	0
Krishnanagar	0830	15	1007·9	1006·3	−0·2	31.0	25·0	22·2	26·7	62	−3	1·3	−1·5	3·0	0	0	22	0	0	1	0	17	0	4	0	8	0
	1730	,,	1003·2	1001·6	..	36·0	22·9	15.1	17·1	31	..	1·3	..	3.1	0	0	30	0	0	0	1	24	0	5	0	0	0
Purulia	0830	255	1007·8	980·0	0	31·3	19·3	10·5	12·7	29	−8	1·9	+0.3	3·2	0	0	26	0	0	0	3	1	4	1	17	4	0
	1730	,,	1002.1	975·0	..	36·9	20·2	9·1	10·1	18	..	2·2	..	3·6	0	0	25	3	0	0	2	0	2	2	16	5	0
Burdwan	0830	32	1008·0	1004·3	−0.1	31·2	21·[illegible]	20·[illegible]	24·7	55	−13	1·3	−1.6	7·2	0	0	24	0	1	0	0	2	11	8	2	6	0
	1730	,,	1002·2	998·7	..	35·4	24.0	7·.	20.5	37	..	1·0	..	2·5	0	0	7	0	1	0	3	2	0	0	1	23	0
Barrackpore Aerodrome	0530	7	1006·2	1005·4	..	25·6	24·1	23·4	28·8	87	..	2·4	..	6·7	0	0	25	0	0	0	3	7	11	2	2	5	0
	0830	,,	1008 1	1007·4	−0·3	30·5	25·3	22·9	27·9	63	5	1·4	−0.9	12·9	0	4	24	1	0	0	2	5	12	5	3	2	0
	1130	,,	1007·2	1006·4	..	35 2	25·2	20·3	23.8	42	..	1·5	..	11.3	0	2	25	2	2	0	0	6	19	4	3	3	0
	1730	,,	1003·4	1002·7	..	33.7	25·3	21·6	25·8	47	..	2·2	..	10·2	0	2	25	0	1	2	2	12	8	2	0	3	0
	2330	,,	1006·1	1005·4	..	27·7	24·8	23·4	28·8	78	..	1·2	..	9·4	0	1	26	0	0	0	4	9	14	0	0	3	0
Calcutta Dum Dum	0230	6	1005·1	1004 4	..	26·1	24·7	24·0	29·8	89	..	2·0	..	5·6	0	0	26	1	0	0	7	9	7	1	1	4	0
	0530	,,	1005·9	1005·2	..	25·2	24·2	23·7	29·3	91	..	2·8	..	4.8	0	0	24	0	1	1	4	12	5	1	0	6	0
	0830	,,	1007·8	1007·1	−1.1	30·5	26·0	23·9	29·7	69	−1	1·6	−1·5	8·7	0	1	29	0	1	0	0	10	12	5	2	0	0
	1130	,,	1007·0	1006·3	..	34·9	26·0	21·7	25·9	48	..	1·5	..	10.0	0	2	28	4	0	0	2	6	8	5	4	0	1
	1730	,,	1003·3	1002·6	..	33·4	25·9	22·4	27·1	54	..	2·0	..	8·8	0	0	26	2	1	0	1	16	4	2	0	4	
	2330	,,	1005·9	1005·2	..	26·9	24·9	24·1	30·0	84	..	1·8	..	8·0	0	1	28	0	0	0	6	15	6	2	0	1	0
Calcutta	0830	6	1007·7	1007·0	−0.7	30·9	25·5	23·2	28·4	63	−10	1·5	−1.5	11·0	0	1	27	0	0	1	0	7	12	5	3	2	0
	1130	,,	1006·8	1006·1	..	35·6	25·2	20·1	23·5	43	..	1·3	..	11.5	0	2	28	2	0	0	2	7	8	6	5	0	0
	1730	,,	1003·3	1002·6	..	33·8	25·3	21·4	25·5	49	..	1·8	..	9·4	0	0	27	1	0	0	1	16	6	3	0	3	0
Midnapore	0830	45	1007 7	1002·6	−0·5	31·1	23·2	19·0	22·0	50	−14	1·0	−1.1	4·1	0	0	20	3	0	0	0	9	4	4	0	10	0
	1730	,,	1003·0	998·0	..	36·4	23·1	15·3	17·4	31	..	2·2	..	7.8	0	3	16	2	1	1	0	12	1	2	0	11	0
Contai	0830	11	1008·2	1007·0	−0.1	30·4	26·5	24·9	31·5	74	+3	1·2	−1.8	10 5	0	3	26	1	0	0	2	6	15	3	2	1	0
	1730	,,	1004·1	1002·9	..	30·3	26·9	25·4	32·4	76	..	0·9	..	13·3	0	4	25	0	0	1	10	7	11	0	0	1	0
Sagar Island	0830	3	1007·9	1007·6	−0.7	29·6	26·5	25·2	32·1	78	+4	3·7	−0.7	23·8	0	16	13	0	0	0	0	13	15	1	0	1	0
	1730	,,	1004·1	1003·8	..	29·7	26·8	25·7	33·0	80	..	2·3	..	27·5	0	22	7	0	0	0	9	14	5	1	0	1	·0
Sandheads	0530	10	1006·4	1005·3	..	27·9	26·1	25·4	32·4	86	..	3·2	..	18.3	0	13	17	0	0	0	0	5	24	1	0	0	0
	0830	,,	1008·5	1007·4	−1·0	28·8	26·5	25·6	32·8	82	+4	2·7	−0·4	16·5	0	8	21	0	0	0	0	2	25	2	0	1	0
	1130	,,	1008·2	1007·1	..	29.0	26·6	25·6	32·8	82	..	2·9	..	18.0	0	10	20	0	0	0	0	2	24	4	0	0	0
	1730	,,	1004·7	1003·6	..	28·7	26·6	25·8	33·2	84	..	2·7	..	19.3	0	15	15	0	1	0	0	7	21	1	0	0	0
	2330	,,	1006·5	1005.4	..	28·0	26·3	25·6	32·8	86	..	2·0	..	20·0	0	13	16	0	3	0	0	4	21	1	0	1	0
Orissa																											
Baripada	0830	54	1008·9	1002·8	..	30·2	23·0	19·2	22·2	53	..	1·4	..	1·4	0	0	13	1	1	0	3	4	4	0	0	17	0
	1730	,,	1003·5	997·6	..	35·6	24·1	18·0	20·	35	..	2·3	..	4·3	0	0	26	1	0	0	18	3	2	1	1	4	0
Jharsuguda	0230	230	1005.3	979·6	..	25·9	19·5	15·2	17·3	54	..	2·3	..	4·9	0	0	24	6	7	3	2	3	2	1	0	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Kms per hour	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Jharsuguda—contd.	0530	230	1006·3	980·5	..	24·2	19·3	16·2	18·4	60	..	2·6	..	3·5	0	0	20	2	8	2	3	1	1	1	2	10	0
	0830	,,	1008·2	982·8	0	30·8	21·1	14·9	16·9	40	0	1·9	0	4·5	0	0	25	6	5	3	2	3	5	0	1	5	0
	1130	,,	1006·8	981·9	..	36·5	22·6	14·1	16·1	28	..	1·8	..	8·1	0	0	28	1	3	1	2	3	8	6	4	2	0
	1730	,,	1002·2	977·5	..	37·2	22·2	12·5	15·5	23	..	4·0	..	8·3	0	0	28	1	2	0	4	8	5	5	3	2	0
	2330	,,	1005·6	980·1	..	28·8	20·4	15·1	17·1	44	..	2·7	..	5·7	0	1	21	2	4	3	3	3	4	0	3	8	0
Keonjharghar	0830	463	1005·3	954·9	..	29·2	21·6	17·7	20·2	51	..	1·7	..	2·8	0	0	17	4	0	3	1	0	2	3	4	13	0
	1730	,,	1000·5	950·9	..	34·4	22·8	16·9	19·3	37	..	2·6	..	3·0	0	0	27	2	0	2	2	3	3	8	7	3	0
Bolangir	0830	20	1007·9	1005·6	−0·5	29·7	25·0	22·9	27·9	67	−2	1·7	−0·9	10·5	0	6	15	1	1	0	0	8	11	0	0	9	0
	1730	,,	1003·5	1001·3	..	31·7	26·0	23·3	28·6	64	..	3·8	..	12·2	0	8	17	1	0	0	7	16	1	0	0	5	0
Sambalpur	0830	148	1003·3	991·9	+0·1	31·7	22·6	17·4	19·9	43	−5	1·5	−0·4	1·4	0	0	10	0	1	0	0	4	2	1	2	20	0
	1730	,,	1002·9	986·8	..	36·9	23·9	16·5	18·8	32	..	2·2	..	0·8	0	0	6	0	0	0	0	3	1	1	1	24	0
Angul	0830	139	1008·8	993·2	+0·2	29·2	23·0	19·8	23·1	59	−2	2·3	−0·5	4·2	0	0	28	3	4	3	6	2	1	2	7	2	0
	1730	,,	1003·1	988·1	..	37·1	23·1	14·9	16·9	27	..	3·5	..	4·9	0	9	28	0	0	3	3	10	2	1	9	2	0
Cuttack	0830	27	1008·7	1005·7	−0·3	29·5	25·9	24·1	30·0	73	+3	2·1	−1·0	2·5	0	0	7	0	0	0	0	0	5	2	0	23	0
	1730	,,	1004·0	1001·0	..	35·1	26·0	21·8	26·1	47	..	3·3	..	8·1	0	0	21	0	0	0	0	4	17	0	0	9	0
Chandbali	0830	6	1008·8	1008·1	−0·2	29·7	25·6	23·8	29·5	71	−1	2·6	−0·6	7·8	0	1	28	1	0	0	0	4	19	4	1	1	0
	1730	,,	1004·3	1003·6	..	33·6	25·9	22·4	27·1	53	..	1·7	..	12·4	0	2	28	0	0	4	22	3	0	0	1	0	0
Bolangir	0830	190	1008·5	987·4	..	31·0	24·6	21·5	25·6	56	..	2·6	..	7·9	0	1	28	2	1	2	4	11	7	1	1	1	0
	1730	,,	1002·7	981·9	..	37·6	26·3	21·2	25·2	39	..	2·6	..	5·1	0	1	19	5	6	1	1	2	1	0	2	10	2
Phulbani	0830	464	1006·8	955·7	..	26·4	21·5	19·0	22·0	64	..	1·1	..	0·7	0	0	3	0	0	0	0	0	1	2	0	27	0
	1730	,,	1001·4	951·8	..	34·2	23·6	18·5	21·3	39	..	1·0	..	1·6	0	0	10	0	0	1	2	0	0	7	0	20	0
Titlagarh	0830	211	1008·4	985·2	..	31·6	23·7	19·6	22·8	49	..	0·8	..	2·9	0	0	29	0	21	0	6	0	1	0	1	1	0
	1730	,,	1003·6	980·9	..	37·6	24·4	17·3	19·7	32	..	1·0	..	2·8	0	0	28	0	18	0	5	0	2	0	3	2	0
Bhubaneswar	0230	46	1005·8	1000·6	..	26·6	24·9	24·0	29·8	86	..	2·6	..	18.3	0	11	17	0	0	0	1	2	23	1	1	2	0
	0530	,,	1006·5	1001.3	..	26·0	24·5	24·0	29·8	88	..	3·9	..	13·7	0	7	20	0	1	2	0	3	20	0	1	3	0
	0830	,,	1008·7	1003·5	−0·3	30·0	25·4	23·3	28·6	67	−1	2·8	−0·2	17·4	0	12	18	0	0	0	0	4	19	4	3	0	0
	1130	,,	1008.0	1002·9	..	35·0	25·1	20·4	24·0	44	..	1·5	..	15·8	0	9	20	1	2	1	0	2	18	3	2	1	0
	1730	,,	1004·6	999·4	..	32·4	25·4	22·2	26·7	57	..	3·8	..	26·8	0	19	11	0	0	0	2	11	16	0	1	0	0
	2330	,,	1006·9	1001·7	..	27·7	25·4	24·3	30·4	82	..	1·9	..	20·1	0	12	18	0	0	0	2	4	22	1	1	0	0
Puri	0830	6	1009·0	1008·3	0	28·9	26·5	25·5	32·6	81	+1	3·7	+0·5	21·0	0	16	14	3	0	0	0	0	26	0	1	0	0
	1730	,,	1005·3	1004·6	..	29·3	26·7	25·6	32·8	81	..	6·3	..	26·5	0	22	8	0	0	0	0	1	28	0	1	0	0
Gopalpur	0530	17	1005·6	1004·7	..	25·5	24·5	24·0	29·8	9	.	3·9	..	16·2	0	11	15	2	0	0	1	7	14	0	2	4	0
	0830	,,	1008·8	1006·9	0	28·3	25·2	23·8	29·5	77		2·6	+1·0	15·0	0	11	15	4	0	0	0	9	10	0	3	4	0
	1130	,,	1008·4	1006·5	..	30·1	26·2	24·4	30·5	72	..	2·3	..	23·5	0	19	11	1	0	0	2	14	12	0	1	0	0
	1730	,,	1005·3	1003·4	..	28·3	25·8	24·7	31·1	81	..	5·3	..	25·5	0	22	7	2	0	0	0	12	15	0	0	1	0
	2330	,,	1006·9	1005·0	..	26·9	25·5	24·8	31·3	89	..	1·9	..	24·2	0	22	8	1	0	0	0	11	17	0	1	0	0
Koraput	0830	913	1516·9	910·5	−0·2	26·3	20·0	16·5	18·6	55	−8	1·9	−0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1509·6	908·9	..	30·6	18·6	10·5	13·0	30	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1007·2	990·7	−0·4	31·3	21·0	14·5	16·5	37	−10	1·3	−0·3	4·4	0	0	23	0	0	4	4	1	5	7	2	7	0
	1730	,,	1002·0	985·5	..	36·8	21·0	9·7	12·0	21	..	0·9	..	7·7	0	0	26	0	0	1	1	1	8	9	6	4	0
Daltonganj	0830	221	1008·0	983·5	+0·3	30·0	20·2	13·7	15·7	39		1·5	+0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1003·0	979·0	..	35·6	21·7	12·6	14·6	27	..	1·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1007·1	941·0	0	29·2	17·7	9·2	11·6	29	+1	1·3	−0·5	7·5	0	1	21	2	0	0	0	1	4	5	10	8	0
	1730	,,	1002·0	937·0	..	33·7	18·7	8·3	10·9	21	..	1·5	..	11·4	0	0	27	3	0	0	0	1	0	3	20	3	0
Dhanbad	0830	257	1007·4	979·1	..	31·4	21·0	14·4	16·4	37	..	1·4	..	5·8	0	0	29	1	0	0	0	3	6	15	4	1	0
	1730	,,	1002·2	974·4	..	36·4	22·4	13·7	15·7	27	..	1·1	..	4·7	0	0	24	0	1	1	1	1	0	17	3	6	0
Ranchi	0830	655	1005·8	935·3	−0·7	30·1	22·2	18·3	21·0	48	+12	0·8	−1·0	0·3	0	0	3	2	1	0	0	0	0	0	0	27	0
	1730	,,	1003·1	933.4	..	33·3	22·2	16·4	18·6	38	..	1·8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Ranchi Aerodrome	0530	652	1007·1	935·2	..	23·1	14·3	7·2	10·9	36	..	2·3	..	3·9	0	0	22	1	0	0	0	0	8	2	11	8	0
	0830	,,	1006·9	936·6	..	29·9	16·4	5·0	8·7	22	..	2.0	..	7·9	0	0	29	4	1	0	1	2	8	3	11	1	0
	1130	,,	1005·5	936·1	..	33·7	17·2	3·2	7·7	15	..	2·3	..	12·0	0	0	30	4	1	0	0	2	4	6	13	0	0
	1730	,,	1002·3	933·1	..	33·2	18·7	8·1	10·8	23	..	(j) 3·0	..	(j) 11·0	0	0	21	1	0	0	1	1	2	0	16	0	0
Jamshedpur	0830	129	1007·8	993·5	−0·3	30·3	20·8	14·5	16·5	40	−6	1·3	−0·5	5·8	0	0	28	0	0	1	1	0	4	16	6	2	0
	1730	,,	1002·0	988·1	..	38·0	21·5	9·6	11·9	20	..	2·7	..	6.2	0	1	23	3	1	1	1	0	3	7	8	6	0
Jamshedpur (P.B.O.)	0530	142	1006·1	990·0	..	24·7	18·7	14·9	16·9	56	..	1·7	..	1·5	0	0	8	0	2	0	0	1	3	0	2	22	0
	0830	,,	1007·9	992·1	..	30·3	20·5	14·3	16·3	37	..	1·5	..	5·3	0	0	23	0	1	0	1	2	9	6	4	7	0
	1130	,,	1006·5	991·1	..	36·7	20·9	9·7	12·0	20	..	1·5	..	8·3	0	1	26	1	2	0	0	3	7	3	11	3	0
	1730	,,	1001·9	986·6	..	38·1	20·3	6·4	9·6	16	..	3·2	..	7·9	0	2	21	2	2	1	0	1	1	7	9	7	0
	2330	,,	1005.4	989·6	..	29·5	20·3	14·5	16·5	41	..	1·5	..	3·1	0	0	14	1	4	0	0	5	2	0	2	16	0

(j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Chaibasa	0830	226	1007·6	982·6	−0·1	31·4	20·5	13·5	15·5	35	−18	1·4	−0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plains	1730	"	1002·3	977·9	..	37·2	20·3	7·4	10·3	18	..	3·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Motihari	0830	66	1006.7	999.3	−0·3	26·7	20·6	17·0	19·4	53	+9	0·2	−0·9	3·2	0	0	14	0	0	10	1	0	0	2	1	16	0
	1730	"	1002.3	995.0	..	33·6	24·0	19·0	22·0	42	..	0·1	..	2·5	0	0	13	0	0	1	0	0	0	10	2	17	0
Forbesganj	0830	61	1007·7	1000·9	..	27·9	20·9	16·4	18·6	52	..	1·8	..	9·5	0	0	29	0	1	18	4	0	0	3	3	1	0
	1730	"	1002·3	995·6	..	34·6	21·5	12·2	14·2	28	..	1·1	..	5·2	0	0	26	0	0	8	0	0	1	14	3	4	0
Darbhanga	0830	49	1008·0	1002·5	+0.4	29·4	21·4	16·7	19·0	47	−9	0·8	−0.6	5·4	0	0	29	2	2	4	2	0	3	0	16	1	0
	1730	"	1002 8	997·4	..	34·8	24·5	19·2	22·2	40	..	0·7	..	4·3	0	0	26	2	3	2	0	0	1	8	10	4	0
Chapra	0830	..	..	..	..	30·1	19·9	12·7	14·7	34	..	0·8	..	3·3	0	0	19	0	3	4	1	0	8	2	1	11	0
	1730	..	..	..	..	34·3	20·9	11·6	13·7	21	..	0.7	..	1·8	0	0	10	0	0	1	0	0	0	4	5	20	0
Purnea	0830	38	1008·0	1003·7	−0·1	28·3	21·3	16·8	19 1	53	−7	1·9	−0·3	5 6	0	0	29	0	6	12	1	0	2	8	0	1	0
	1730	"	1002·8	998.6	..	33·8	21·7	13·3	15·3	33	..	0·6	..	3·7	0	0	18	0	1	4	0	0	1	11	1	12	0
Patna	0830	53	1007·3	1001·4	−0.1	29·2	19·9	13·7	15·7	41	−3	1·4	+0.1	6·7	0	0	27	0	5	6	1	1	4	10	0	3	0
	1730	"	1002·5	996·7	..	36·6	21·1	10·1	12·3	21	..	0·8	..	6·0	0	0	27	1	0	2	0	0	0	23	1	3	0
Patna (Aerodrome)	0530	60	1005·0	998·2	..	23·1	17·1	12·7	14·7	52	..	1·1	..	3·4	0	1	12	0	2	4	2	0	2	2	1	17	0
	0830	"	1006·8	1000·1	..	29·3	19·8	13·4	15·3	40	..	1·1	..	9·8	0	0	27	0	4	6	2	1	4	6	4	3	0
	1130	"	1006 1	999·5	..	35·5	21·0	10·9	13·0	24	..	1·0	..	11·5	0	3	23	0	1	5	0	1	3	3	12	4	1
	1730	"	1002 0	995·4	..	37·4	20·5	7·0	10·0	17	..	0·5	..	12·6	0	1	28	3	1	2	0	0	1	3	19	1	0
	2330	52	1005.1	999·2	..	28·1	18·1	11·2	13·3	37	..	0·3	..	5·4	0	2	12	0	2	2	1	0	0	4	5	16	0
Bhagalpur	0530	49	1006 0	1000·4	..	24·0	18·4	14·6	16·6	58	..	1·7	..	6·6	0	0	26	0	0	14	1	1	2	7	1	4	0
	0830	"	1008·0	1002·5	+0·1	29·4	21·1	15·3	17·4	46	−1	2·0	+0.5	7·9	0	1	22	2	0	11	1	0	1	5	3	7	0
	1130	"	1007·1	1001·7	..	33·7	22·2	15·3	17·4	33	..	1·9	..	12·7	0	7	20	0	2	8	0	1	3	10	3	3	0
	1730	"	1 02·7	997·4	..	35·3	21·8	5	14·5	28	..	0·9	..	11·0	0	5	23	1	1	4	0	0	0	14	8	2	0
	2330	"	1005·6	1000·1	..	28·1	20·1	14·4	16·4	47	..	0·4	..	7·3	0	0	24	0	1	7	3	2	2	8	1	6	0
Sabaur	0830	37	1007·6	1003·3	−0 2	28·9	22·3	1 ·7	21·6	53	+9	2·1	+0.2	7·7	0	1	23	0	5	8	1	0	2	6	2	6	0
	1730	"	1002·3	998·2	..	35·2	25·2	20·3	23·8	41	..	0·8	..	6·9	0	0	24	1	1	3	0	0	0	3	16	6	0
Jamui	0830	82	1006·8	997·3	..	29·7	21·8	17·-	19·6	47	..	1·0	..	3·6	0	0	23	1	0	11	0	1	0	10	0	7	0
	1730	"	1001·9	992·8	..	37·2	23·3	15·1	17·1	28	..	0·5	..	5·6	0	0	27	0	0	3	0	0	0	20	4	3	0
Dehri	0830	107	1007·6	995·7	..	31·7	19·3	10·0	12·3	27	..	1·2	..	3 7	0	0	29	0	0	2	0	8	8	6	5	1	0
	1730	"	1004·3	992·7	..	37.7	20·1	5·7	9·1	15	..	1·1	..	4·8	0	0	30	5	0	1	2	0	1	16	5	0	0
Gaya	0230	116	1005·2	992·1	..	25·2	17·3	11·5	13·6	42	..	0.8	..	2.4	0	0	15	1	0	1	2	3	5	3	0	15	0
	0530	"	1006·0	992·7	..	23.4	16·6	11·3	13·4	47	..	1·3	..	3·7	0	0	22	0	1	2	2	4	10	3	0	8	0
	0830	"	1007·9	994·9	+0 6	31·9	20·6	13·2	15·2	33	+11	1.4	+0·1	10·3	0	3	24	1	1	1	1	1	6	12	4	3	0
	1130	"	1007·0	994·5	..	37 4	22·1	12·3	14·3	23	..	1.4	..	17.5	0	12	17	2	1	2	1	0	2	9	12	1	0
	1730	"	1002·7	990·1	..	38·1	22·2	11·6	13·7	21	..	1·2	..	19·1	0	13	16	4	1	0	0	0	1	5	18	1	0
	2330	"	1005·7	992·7	..	28·1	18·6	11·6	13·7	37	..	0 6	..	7·5	0	3	17	0	1	3	0	3	5	5	3	10	0
Uttar Pradesh (East)																											
Khari	0830	147	1006·7	990·0	−0.7	25·4	18·7	13·9	16·1	51	+7	1 4	+0.6	2·5	0	0	24	0	0	3	0	0	0	19	2	6	0
	1730	"	1003·2	987·1	..	33·8	22·6	15·5	18·3	33	..	1·1	..	3·5	0	0	28	0	0	1	1	0	0	24	2	2	0
Bahraich	0830	124	1007·0	993·1	+0.1	27·7	18·9	11·7	13·7	39	−6	1·8	+0.8	5.4	0	0	27	1	0	9	0	0	0	17	0	3	0
	1730	"	1003·9	990·3	..	33·4	20·6	11·4	13·5	27	..	1·8	..	4.9	0	0	29	1	1	2	0	0	0	25	0	1	0
Nautanwa	0830	99	1006·9	995·7	..	27·3	18·5	11·8	13·8	39	..	0·3	..	6·4	0	0	22	1	0	6	9	3	1	1	1	8	0
	1730	"	1002·2	991·3	..	35·2	19·8	6·8	9 9	18	..	0·6	..	10·1	0	2	26	1	0	0	1	0	2	22	2	2	0
Hardoi	0830	142	1007·3	991·3	−0.1	26·6	20·2	15·7	17·8	52	+12	1·5	+0 1	6.3	0	0	24	2	0	0	3	1	1	14	3	6	0
	1730	"	1003·3	987·8	..	35·6	24·0	17·0	19·4	36	..	1·2	..	7.4	0	0	28	5	0	1	0	0	1	18	3	2	0
Gonda	0830	110	1006·1	993·8	..	28·7	20·8	15·8	17·9	47	+15	1·5	+0.1	..	..	..	..	1	1	3	0	0	0	7	14	4	0
	1730	"	1002·9	990·9	..	35·5	22·4	14·5	16·5	29	..	0·4	..	..	..	..	..	1	0	1	0	0	0	5	14	9	0
Lucknow	0830	111	..	..	..	27·2	18·6	12·3	14·3	41	+5	1·2	0	2·9	0	0	27	0	1	0	2	1	3	16	4	3	0
	1730	"	..	..	..	35·5	20·6	9 4	11·8	22	..	1·1	..	4·4	0	0	30	1	1	0	0	0	3	21	4	0	0
Lucknow (Amausi)	0230	128	1004·9	990·7	..	23·2	15·6	9·1	11·5	42	..	1·5	..	6·4	0	0	25	2	0	3	2	0	2	9	7	5	0
	0530	"	1005·4	990·8	..	20·9	15·1	10·2	12·4	51	..	1·6	..	4·1	0	0	20	1	1	1	2	0	5	8	2	10	0
	0830	"	1007·2	992·9	+0.1	28·5	18·3	10·2	12·4	33	+8	1·4	+0·2	12·6	0	4	25	1	1	2	2	1	1	12	9	1	0
	1130	"	1006·8	992·8	..	35·2	20·1	8·4	11·0	20	..	1·5	..	18·9	0	12	17	4	0	2	1	1	2	9	10	1	0
	1730	"	1003·2	989·3	..	36·0	20·2	7·5	10·4	19	..	1·7	..	16·5	0	5	25	0	2	0	0	1	0	6	21	0	0
	2330	"	1005·5	991·1	..	25·3	17·0	10·3	12·5	40	..	1·4	..	5·5	0	1	19	2	0	1	1	1	0	11	4	10	0
Faizabad	0830	102	1007·6	996·1	..	27·6	18·8	12·3	14·3	40	..	1·5	..	4·7	0	0	26	2	1	4	0	0	2	13	4	4	0
	1730	"	1002·9	991·7	..	34·3	20·3	10·5	2·7	24	..	1·6		5·5	0	0	28	1	1	1	0	0	1	17	7	2	0
Gorakhpur	0830	77	1007.4	998·4	−0.2	31·7	20.0	11.1	13.2	30	−16	0·4	−0.7	0	0	0	30	1	1	6	3	1	2	14	1	0	1
	1730	"	1002·6	993.9	..	35.9	20·5	10·1	12·3	23	..	0.7		0	0	0	30	4	1	1	0	0	4	9	5	0	6
Gorakhpur (PBO)	0230	78	1004.2	995·3	..	26.5	18.8	14.4	16.4	50	..	1.0	..	6.5	0	1	20	1	1	1	1	1	3	13	0	9	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.s.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur (P.B.O.). —*Contd.*	0530	78	1004·9	996·0	..	24·5	18·5	15·0	17·0	57	..	1·4	..	4·9	0	0	24	3	5	0	1	0	5	7	3	6	0
	1130	"	1006·5	997·9	..	33·9	21·5	14·9	16·9	34	..	1·3	..	9·4	0	1	29	0	3	1	2	5	4	13	2	0	0
	2330	"	1005·7	995·9	..	28·5	19·6	14·6	16·6	44	..	0·7	..	6·7	0	0	22	0	2	1	0	1	3	13	2	8	0
Kanpur	0830	126	1008·3	994·1	+1·0	27·8	19·0	12·8	14·8	41	+8	2·6	+2·0	6·3	0	0	30	1	0	2	2	3	2	18	2	0	0
	1730	"	1004·2	990·3	..	37·2	22·4	12·7	14·7	24	..	1·9	..	8·3	0	0	30	1	2	1	0	1	0	14	11	0	0
Kanpur Aerodrome	0530	126	1005·9	991·3	..	22·7	16·1	10·4	12·6	48	..	1·6	..	0·1	0	1	18	0	0	2	1	1	2	10	3	11	0
	0830	"	1007·6	993·4	..	29·2	19·2	11·5	13·6	36	..	1·6	..	..	0	1	26	1	1	2	2	1	2	12	6	3	0
	1130	"	1007·2	993·4	..	36·1	21·0	10·6	12·8	24	..	1·7	..	..	0	6	23	2	1	2	2	1	2	7	12	1	0
	1730	"	1003·6	989·7	..	36·9	21·5	9·7	12·0	22	..	1·9	..	..	0	3	26	1	1	1	0	0	0	11	15	1	0
	2330	"	1005·9	991·6	..	27·9	18·2	10·2	12·2	35	..	1·5	..	..	0	0	15	0	1	0	0	0	1	6	7	15	0
Sultanpur	0830	97	1007·6	996·7	..	29·8	19·0	11·1	13·2	32	..	1·4	..	3·4	0	0	25	2	2	2	0	1	4	4	10	5	0
	1730	"	1003·3	992·7	..	36·7	20·9	8·7	11·2	20	..	1·2	..	5·2	0	0	27	1	2	0	0	0	1	9	14	3	0
Azamgarh	0830	78	1006·7	997·9	..	29·1	20·9	15·6	17·7	45	..	1·5	..	..	0	0	30	0	1	5	0	0	0	24	0	0	0
	1730		1002·4	994·1	..	36·6	24·1	17·1	19·5	32	..	0·6	..	..	0	0	26	1	1	1	0	0	0	23	0	4	0
Fatehpur	0830	114	1007·5	994·7	..	28·7	18·9	11·4	13·5	36	−1	1·1	−0·2	5·8	0	0	28	3	1	1	4	1	8	5	5	2	0
	1730	"	1003·1	990·7	..	37·4	20·0	7·0	10·0	17	..	1·1	..	14·7	0	0	30	2	1	1	0	0	1	3	22	0	0
Ballia	0830	64	1007·8	1000·5	..	28·3	20·7	16·7	19·0	48	..	0·8	..	2·5	0	0	23	0	0	3	4	0	5	8	2	7	0
	1730	"	1002·8	996·2	..	37·3	24·5	17·5	20·0	33	..	0·8	..	4·1	0	0	29	3	1	1	2	0	1	10	11	1	0
Banda	0830	121	1008·2	994·8	..	31·9	24·8	21·3	25·3	54	..	1·6	..	3·6	0	1	24	1	2	0	4	1	11	3	2	6	0
	1730	"	1003·7	990·6	..	37·9	27·4	22·7	27·6	44	..	1·4	..	5·5	0	0	30	0	0	0	2	0	15	0	13	0	0
Allahabad (Bamrauli)	0230	98	1005·1	994·0	..	24·8	16·3	8·9	11·4	38	..	1·0	..	1·7	0	0	10	1	0	1	0	1	1	4	2	20	0
	0530	"	1005·7	994·5	..	23·3	15·8	9·7	12·0	43	..	1·8	..	1·8	0	0	13	0	1	0	0	0	0	8	4	17	0
	0830	"	1007·7	996·8	+0·3	30·2	18·2	8·1	10·8	27	−5	1·8	+0·4	5·9	0	0	26	0	1	1	2	3	5	11	3	4	0
	1130	"	1007·3	996·6	..	37·2	19·9	4·8	8·6	15	..	1·4	..	12·2	0	4	25	1	2	1	4	0	1	11	9	1	0
	1730	"	1003·1	992·5	..	37·6	19·4	2·5	7·3	13	.	1·6	..	11·6	0	0	29	3	0	0	0	0	0	4	22	1	0
	2330	"	1005·7	994·6	..	27·7	17·4	8·8	11·3	32	..	0·8	..	2·9	0	0	14	2	0	2	0	0	1	3	6	16	0
Varanasi (Babatpur)	0530	85	1006·6	996·6	..	22·6	16·1	10·7	12·9	48	..	1·3	..	4·8	0	0	23	0	0	2	1	0	13	6	1	7	0
	0830	"	1008·3	998·7	+0·3	30·4	19·5	11·4	13·5	32	+1	1·7	+0·7	12·2	0	2	28	0	0	1	2	5	8	8	4	0	2
	1130	"	1007·7	998·3	..	36·8	21·3	10·5	12·7	22	..	1·2	..	17·5	0	11	19	0	2	0	2	1	3	10	9	0	3
	1730	"	1002·8	994·3	..	37·7	20·9	8·2	10·8	17	..	1·4	..	21·0	0	17	13	1	1	1	0	0	0	6	20	0	1
	2330	"	1006·4	996·6	..	27·3	17·9	10·1	12·3	35	..	0·9	..	8·9	0	3	24	1	0	3	2	0	4	7	10	3	0
Varanasi	0830	76	1007·4	998·6	+0·1	30·5	21·7	15·7	17·8	44	+5	1·5	+0·2	4·1	0	0	29	0	1	0	3	0	5	19	1	1	0
	1730	"	1003·2	994·9	..	37·4	23·9	15·8	17·9	31	..	1·6	..	4·0	0	0	28	0	0	0	0	1	1	21	5	2	0
Uttar Pradesh (West) Dehra Dun	0530	682	1007·2	930·9	..	18·5	13·2	8·7	11·2	55	..	2·7	..	3·2	0	1	15	7	6	0	0	0	0	2	1	14	0
	0830	"	1007·3	932·7	+0·7	24·5	16·6	10·9	13·0	43	−1	2·4	+0·1	0·9	0	0	6	3	1	0	0	0	1	0	1	24	0
	1130	"	1006·4	932·9	..	30·1	17·7	8·6	11·2	27	..	2·3	..	4·1	0	0	24	1	1	0	4	4	8	5	1	6	0
	1730	"	1003·5	930·1	..	29·9	17·5	8·3	10·9	27	..	2·9	..	3·2	0	0	21	2	0	0	0	1	8	8	2	9	0
	2330	"	1007·4	931·8	..	21·8	14·5	8·5	11·1	44	..	1·1	..	4·5	0	0	25	9	9	0	0	0	3	2	2	5	0
Roorkee	0830	274	1007·3	976·5	0	26·0	17·4	10·8	12·9	41	0	2·8	+1·3	1·2	0	0	12	0	0	0	4	0	0	0	8	18	0
	1730	"	1003·6	973·8	..	34·0	20·0	9·3	11·7	23	..	3·3	..	2·1	0	0	21	0	0	0	2	0	1	0	18	9	0
Najibabad	0830	270	1007·9	977·5	..	24·5	17·1	10·9	13·0	44	..	1·0	..	2·9	0	0	19	0	2	3	3	1	1	4	5	11	0
	1730	"	1004·0	974·7	..	34·6	18·9	5·9	9·3	17	..	1·1	..	6·2	0	2	20	0	3	0	0	0	11	6	2	8	0
Meerut	0830	222	1008·6	983·6	+1·6	27·5	18·6	11·8	13·8	39	−2	0·8	−0·7	6·9	0	0	26	1	1	1	0	0	6	11	6	4	0
Bareilly	0830	173	1007·1	987·7	+0·2	28·2	19·3	13·2	15·2	40	−4	1·9	+0·3	3·8	0	0	22	1	0	3	2	0	2	11	3	8	0
	1730	"	1003·3	984·3	..	34·9	21·0	12·2	14·2	27	..	1·9	..	2·2	0	0	12	0	0	1	0	0	0	10	1	18	0
Bareilly (P.B.O.)	0230	172	1004·9	985·5	..	24·7	16·3	10·4	12·6	42	..	1·7	..	3·5	0	0	19	1	0	3	0	0	0	9	6	11	0
	0530	"	1005·3	985·7	..	23·0	15·7	10·4	12·6	46	..	2·3	..	4·1	0	0	24	0	1	4	0	0	0	13	6	6	0
	1130	"	1006·9	987·9	..	33·1	19·0	9·6	11·9	25	..	2·0	..	9·6	0	1	29	0	0	3	2	0	0	15	10	0	0
	2330	"	1005·6	986·3	..	26·8	17·0	10·1	12·3	36	..	0·8	..	5·0	0	1	22	2	0	3	0	0	1	11	6	7	0
Aligarh	0830	187	1007·8	986·5	..	26·9	19·1	13·7	15·7	45	+16	2·3	+1·3	3·0	0	0	26	1	0	2	0	3	0	10	10	4	0
	1730	"	1004·0	983·5	..	35·2	22·8	15·1	17·1	31	..	3·6	..	5·6	0	0	28	8	0	3	0	0	0	13	4	2	0
Mainpuri	0830	157	1007·2	989·7	0	27·9	19·0	12·1	14·1	40	+4	1·4	0	1·5	0	0	16	0	0	1	0	0	0	11	4	14	0
	1730	"	1003·9	986·8	..	36·1	21·3	11·2	13·3	24	..	0·9	..	2·8	0	0	27	0	1	1	0	0	8	16	1	3	0
Agra	0830	169	1008·2	989·2	+0·5	28·0	19·4	13·5	15·5	42	+14	1·4	+0·1	1·6	0	0	12	0	1	0	0	1	2	2	6	18	0
	1730	"	1003·9	985·6	..	36·0	25·9	14·2	16·2	28	..	1·0	..	3·1	0	0	15	0	0	1	0	0	2	0	12	15	0
Agra Aerodrome	0530	169	1006·6	987·0	..	21·4	15·6	10·4	12·6	52	..	1·9	..	3·8	0	0	17	2	0	1	0	0	3	8	3	13	0
	0830	"	1008·1	988·9	..	27·4	18·2	11·1	13·2	38	..	2·1	..	9·0	0	0	27	2	1	1	2	0	1	12	8	3	0
	1130	"	1007·9	989·1	..	34·2	20·3	10·2	12·4	24	..	1·9	..	12·0	0	3	26	2	0	0	0	0	4	4	15	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind velouty in Km. per hour.	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh —(West) (*Contd.*)																											
Agra Aerodrome —(*Contd.*)	1730	16	1003·9	985·3	..	35·7	20·3	8·3	10·9	22	..	2·8	..	12·6	0	3	24	0	1	2	1	1	0	3	19	3	0
	2330	"	1006·5	987·2	..	25·6	17·5	11·2	13·3	42	..	1·3	..	4·7	0	0	16	4	2	1	2	0	0	4	3	14	0
Orai . . .	0830	141	1009·4	993·7	..	30·1	22·0	17·2	19·5	47	..	0·9	..	3·6	0	0	30	0	4	2	0	1	9	1	13	0	0
	1730	"	1004·1	988·8	..	37·2	25·6	19·2	22·2	37	..	0 9	..	3·8	0	0	30	1	3	0	0	0	1	2	23	0	0
Jhansi . . .	0830	251	1008·3	980·4	+0·2	28·7	17·5	8 0	10·7	29	0	1·3	+0.2	1·7	0	0	16	3	0	2	0	2	0	9	0	14	0
	1730	"	1003·3	976·2	..	37·3	19·8	4·9	8·7	15	..	2·3	..	2·9	0	0	25	5	0	4	1	0	0	7	8	5	0
Punjab (India) including Delhi																											
Pathankot	0830	312	1008·4	973·3	+0·3	23·7	15·8	9·1	11·5	42	+8	4.1	+1·2	7.1	0	2	24	5	14	0	4	0	1	1	1	4	0
	1130	"	1008·3	973·7	..	28·7	17·4	7·4	10·3	29	..	4.1	..	8·0	0	2	27	3	7	3	1	3	5	3	4	1	0
	1730	"	1005·5	971·1	..	30·1	17·1	4·2	8·2	24	..	4·5	..	14·1	0	8	21	3	8	0	1	0	2	8	7	1	0
Amritsar (Rajasansi)	0530	234	1007·6	980·5	..	17·8	14·8	12·7	14·7	73	..	3·5	..	7·2	0	1	23	7	3	2	1	1	0	4	6	6	0
	0830	"	1008·7	982·1	+0·7	22·8	17·0	12·5	14·5	56	+7	3·0	+0·9	11·2	0	4	22	8	4	4	1	0	1	1	7	4	0
	1130	"	1008·6	982·5	..	29·3	18·9	10·7	12·9	35	..	2 8	..	16·6	0	10	20	3	5	4	1	1	1	3	12	0	0
	1730	"	1005·5	979·6	..	31·2	18·9	8·5	11·1	29	..	3·0	..	13·6	0	5	24	2	2	5	0	2	1	4	13	1	0
Adampur (R) Aerodrome	0530	238																									
(R)	0830	"																									
(R)	1130	"																									
(R)	1730	"																									
(R)	2330	"																									
Ludhiana . .	0830	247	1008·5	980·5	+1.0	23.9	17·2	12·2	14·2	50	+4	2·7	+0·9	5·6	0	1	25	2	5	1	1	0	1	8	8	4	0
	1730	"	1004·6	977·5	..	32·8	19·8	9.6	11·9	28	..	3·4	.	4·5	0	0	28	5	4	1	2	0	1	5	10	2	0
Ferozepur . .	0830	200	1008·2	985·3	..	22·9	18·4	15·5	17·6	66	..	2·3	..	0·8	0	0	8	0	4	0	0	1	0	0	3	22	0
	1730	"	1004·6	982·7	..	32·5	22·5	16·6	18·9	40	..	2·0	..	2·4	0	0	23	0	4	0	0	0	0	0	19	7	0
Halwara Aerodrome	0830	242	1008·7	981·4	..	24·4	17·9	13·1	15·1	51	..	3·1	..	9·9	0	1	27	8	1	2	2	0	1	4	10	2	0
	1730	"	1006·3	979·8	..	32.7	20·4	11·6	13·7	28	..	3·0	..	15·8	0	11	17	3	3	2	1	1	0	2	16	2	0
Chandigarh . .	0830	347	1006·9	968·4	+0.1	27.2	18·1	11·1	13·2	38	0	1·4	+0·3	1·5	0	0	15	0	1	2	3	0	1	0	8	15	0
	1730	"	1003·7	965·7	..	32·0	19·2	9.0	11·9	26	..	2·3	..	2.4	0	0	23	1	0	0	4	1	5	0	12	7	0
Ambala . . .	0830	272	1007·5	976·9	+0·4	25·7	18·0	11·9	13·9	44	+7	1·1	−0.7	1·7	0	0	14	0	0	0	12	0	0	0	2	16	0
	1730	"	1004·3	974.6	..	32·6	19·1	8.7	11·2	24	..	1.3	..	2·9	0	0	20	0	7	0	7	0	0	0	6	10	0
Ambala (P.B.O.) .	0230	278	1005.8	974.4	..	23·2	15.9	10·9	13.0	48	..	2.5	..	6·8	0	0	24	8	3	2	3	1	0	0	7	6	0
	0530	"	1005·9	974·3	..	21·1	15.0	10.5	12.7	53	..	2·6	..	5.4	0	0	23	7	3	3	1	1	0	2	6	7	0
	1130	"	1007·0	976·4	..	31.6	18·3	9·4	11·8	27	..	2·4	..	10·5	0	1	27	2	0	1	6	3	4	2	10	2	0
	2330		1006·5	975.3	..	25.3	16·6	10.6	12·8	42	..	1·6	..	8·0	0	1	24	10	1	3	2	0	0	3	6	5	0
Ambala (Aerodrome)	0530	274	1006·3	974·6	..	19·0	14·3	9·9	12·2	57	..	2·6	..	4·6	0	1	9	0	0	0	1	0	0	3	6	20	0
	0830	"	1007·2	976·3	..	24·9	17.4	11·5	13·6	45	..	2·3	..	7·5	0	0	19	1	1	2	1	0	1	3	10	11	0
	1130	.	1007·0	976.8	..	32·1	19·6	10·0	12·3	27	..	3·0	..	15·5	0	11	15	2	1	2	5	1	0	7	8	4	0
	1730	"	1003·8	973·9	..	32·8	19·5	9·1	11·5	25	..	3·1	..	15·1	0	9	14	2	0	2	1	0	0	6	12	7	0
	2330	"	1006·7	975·6	..	22·9	16·4	11·2	13·2	50	..	1·7	..	7.4	0	1	14	0	1	1	0	0	0	3	10	15	0
Patiala . . .	0830	251	1007·8	979.5	..	25.4	17·3	10·9	13·0	43	..	1·9	..	5.8	0	0	28	1	0	0	4	0	0	0	23	2	0
	1730	"	1004.9	977.6	..	32·7	19·2	9.0	11·5	25	..	2·4	..	7.1	0	0	20	1	1	0	2	0	0	0	16	10	0
Bhatinda . .	0830	211	1008·3	984.6	..	26·6	21·3	18.1	20.8	62	..	1.9	..	5·4	0	0	30	2	5	0	5	0	1	0	17	0	0
	1730	"	1004·7	981.5	..	33·4	24·9	20.5	24.1	49	..	1.8	..	5·2	0	0	27	1	1	1	2	2	1	0	19	3	0
Karnal . . .	0830	249	1007·1	978·9	.	26.9	18.0	11.3	13.4	39	..	0·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
	1730	"	1003.8	976·3	..	33.5	21.0	12·7	14·7	20	..	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hissar . . .	0530	221	1007·1	981·7	..	19·3	15.4	11·9	13·9	65	..	1·9	..	5·3	0	0	29	3	3	0	1	1	7	5	9	1	0
	0830	,.	1008·5	983·4	+0·5	24.4	18.1	13·0	15·0	53	+12	1·7	+0·3	4.1	0	0	27	1	1	1	3	2	7	7	5	3	0
	1130	"	1008.1	983·8	..	32·7	21.7	13.4	15·4	37	..	2.1	..	7.1	0	0	29	5	0	0	3	1	4	6	10	1	0
	1730	"	1004·7	980·6	..	34.4	22·0	12.6	14.6	33	..	3.0	..	6.9	0	0	29	0	0	2	0	2	3	15	7	1	0
	2330	"	1007·2	982·2	..	24.1	17.5	11.8	13.8	51	..	1·5	..	5.5	0	1	27	3	4	3	2	1	3	2	10	2	0
New Delhi (Safdarjung)	0230	216	1006·2	981·6	..	23.8	16.5	10.5	12.7	44	..	1·9	..	4.5	0	0	17	3	0	1	0	0	0	5	8	13	0
	0530	"	1006·5	981·8	..	21·7	15·1	9·7	2·0	48	..	2·0	..	3·9	0	0	19	1	0	0	1	0	2	5	10	11	0
	0830	"	1008.1	983.7	+0·5	25.9	17·1	9·9	12·2	38	+6	2·3	+0.8	10.8	0	1	28	2	0	3	1	1	4	12	2	1	0
	1130	"	1007.8	983·9	..	33.0	19·7	9·5	11·9	25	..	2·1	..	15.6	0	9	20	2	0	3	2	1	0	5	15	1	1
	1730	"	1004.2	980·5	..	34·4	19·6	7·7	10·5	20	..	2·9	..	17·5	0	12	18	4	4	0	2	1	0	2	17	0	0
	2330	"	1006.3	982·3	..	26.4	17·3	10·0	12·3	37	..	1·6	..	6·8	0	1	22	5	2	2	2	1	1	3	7	7	0
Palam Aerodrome.	0230	233	1006·1	979·7	..	23.3	16·5	10·9	13·0	47	..	1·8	..	7·2	0	0	28	3	2	6	2	4	6	1	4	2	0
	0530	"	1006·6	979·9	..	19·6	14·6	10·2	12·4	56	..	2·1	..	6.3	0	0	26	0	0	3	0	7	9	5	2	4	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in meters.	Mean pressure in millibars: At mean sea level or height in g.p.m. or nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mba.	Relative humidity %	Departure from normal	Clouda mount (Oktas): Mean amount	Clouda mount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi—*Contd*																											
Palam Aerodrome *Contd.*	0830	216	1008·1	981·1	..	25·9	17·7	11.4	13·4	41	..	2·4	..	11·3	0	1	29	1	0	2	1	2	13	9	2	0	0
	1130	"	1007·7	982·1	..	33·6	21·1	12·6	14·6	2	..	2·0	..	19·5	0	11	19	2	0	1	2	0	3	11	10	0	1
	1430	"	1005·3	980.0	..	35·8	21 8	12.2	14·2	25	..	2·6	..	24·0	0	18	12		1	1	1	1	5	7	14	0	0
	1730	"	1004·1	978·7	..	34·7	21·7	13·6	15·6	29	..	3·2	..	21·6	0	15	15	[illegible]	1	0	1	1	1	8	15	0	0
	2030	"	1005·7	979·6	..	29.1	19·4	12.2	14.2	37	..	2.6	..	11.4	0	2	27	3	6	2	0	1	2	7	8	1	0
	2330	"	1006·7	980·4	..	25.6	17.5	11·2	13.4	42	..	1·7	..	8·8	0	0	28	5	3	7	1	2	5	3	2	2	0
Himachal Pradesh																											
Mandi	830	761	1010·5	925·4	+0.3	18·1	14·7	11·9	13·9	68	+1	2.5	+0.2	0·6	0	0	5	1	0	0	1	0	0	1	2	25	0
	1730	"	1004.2	922·2	..	27·3	17·4	10·5	12·7	37	..	3·8	..	0·7	0	0	5	0	1	0	0	0	0	1	3	25	0
Bilaspur	830	493	1009·3	954·2	..	22·0	15·9	11·3	13·4	53	..	3·2	..	..	0	0	2	1	0	0	0	0	0	0	1	28	0
	1730	"	1004.7	951·2	..	30·3	18·6	10·8	12·9	31	..	3·9	..	..	0	0	7	2	0	2	0	0	0	2	1	23	0
Jammu and Kashmir																											
Mizar (R)	0830	"																									
(R)	1730	"																									
Gilgit (R)	0830	"																									
(R)	1730	"																									
Skardu (R)	830	"																									
(R)	1730	"																									
Leh	0530	3514	3108·5	665·9	..	−1·0	−4·4	−10·6	2·5	49	..	4·2	..	6·9	0	0	25	11	11	3	0	0	0	0	0	5	0
	0830	"	3112·4	666·6	+0.1	3·9	−0·6	−7·7	3·2	43	−7	4·3	+0·1	4·5	0	0	21	1	1	1	0	13	4	0	0	9	0
	1730	"	3068.5	663.7	..	8.3	2.7	5.5	3.9	41	..	5.5	..	12.3	0	6	23	3	3	1	0	5	6	7	4	1	0
Srinagar	0830	1587	1517.9	843.1	+1.0	10.5	8.5	6.7	9.8	79	−6	5.1	+10	2.5	0	0	23	0	1	1	11	1	1	3	5	7	0
	1130	"	1516.7	843.2	..	14.3	10.5	7.3	10.2	65	..	4.9	..	3.2	0	0	26	3	0	0	4	2	2	7	7	4	1
	1730	"	1492.0	840.7	..	16.2	10.8	6.2	9.5	56	..	6.0	..	2.8	0	0	21	1	2	3	2	1	1	5	6	9	0
Srinagar (Aerodrome)	0530	1666	1501.9	833.9	..	7.7	6.3	4.8	8.6	83	..	5.1	..	3.7	0	1	12	2	1	3	0	3	0	2	2	17	0
	0830	"	1511.1	835.0	..	10.3	8.0	5.8	9.2	75	..	5.0	..	5·2	0	0	22	1	2	4	3	1	0	4	7	8	0
	1130	"	1511.4	835.2	..	13.9	9.9	6.6	9.7	63	..	4.9	..	6.6	0	0	22	2	4	3	3	1	0	2	7	8	0
	1730	"	1487.0	832.9	..	15.4	10.4	6.0	9.3	88	..	6.1	..	10·3	0	4	20	2	0	1	3	3	0	5	10	6	0
	2330	"	1501·2	834.0	..	10·0	7·5	5·1	8·8	73	..	4·8	..	9.7	0	4	18	1	2	5	3	1	1	7	7	8	0
Gulmarg (R)	0830	2655																									
	1730	"																									
Jammu	0830	"	..	..	..	23·9	15·8	9·4	11·8	44	+4	4·3	+1.8	7.7	0	0	26	7	15	2	0	0	1	0	1	4	0
Jammu (Aerodrome)	0530	292	1007·6	974·1	..	20·3	14·5	9·0	11·5	52	..	4·4	..	8·1	0	3	17	2	16	1	1	0	0	0	0	10	0
	0830	"	1008·4	975·1	..	23·7	16.2	9·6	11·9	44	..	4·0	..	7·8	0	1	24	2	20	1	0	0	0	1	1	10	0
	1130	"	1008·3	975·7	..	29·3	17·6	7·2	10.1	28	..	4·1	..	9·1	0	3	22	0	8	2	1	2	3	3	6	5	0
	1730	"	1005·7	973·3	..	29·7	17·6	6·5	9·7	27	..	4·9	..	10·7	0	2	25	1	5	3	1	0	1	6	10	3	0
	2330	"	1007·9	974·6	..	22·9	16·0	9·9	12·2	46	..	3.4	..	6·8	0	1	17	1	8	1	2	0	2	0	4	12	0
Rajasthan (West)																											
Ganganagar	0530	177	1007·0	986·6	..	20·0	15·4	11·4	13·5	59	..	1·8	..	2·4	0	0	20	3	5	4	3	1	0	0	4	10	0
	0830	"	1008·3	988·2	+0·8	23·7	16·7	10·8	12·9	49	+7	0·9	−0.6	2·7	0	0	20	1	3	3	5	0	1	1	6	10	0
	1130	"	1008·5	988·8	..	31·8	19·0	8·4	11·0	27	..	2·7	..	4·1	0	0	27	3	6	3	5	2	3	2	3	3	0
	1730	"	1004·5	985·0	..	34·2	19·2	6·4	9·6	20	..	2·2	..	4·6	0	0	28	5	0	1	1	0	6	2	13	2	0
	2330	"	1007·1	987·1	..	24·5	17·1	10·7	12·9	44	..	1·5	..	2.9	0	0	21	5	7	2	1	0	0	1	5	9	0
Churu	0830	291	1008·6	975·8	..	25·1	17·6	11·6	13·7	45	..	1·7	..	6·2	0	0	26	5	0	0	2	10	4	3	2	4	0
	1730	"	1004·2	972·6	..	35·2	21·3	11·0	13·1	25	..	3.4	..	15·6	0	6	24	8	0	0	0	1	2	11	8	0	0
Bikaner	0830	224	1008·6	983·3	+1.0	25·3	20·1	15·6	17·7	61	+33	0·7	−0.7	4.3	0	0	26	1	4	1	9	0	5	2	4	4	0
	1730	"	1004.4	980·0	..	35·3	26·3	21·2	25·2	48	..	1·3	..	7·9	0	0	30	0	2	0	2	0	6	3	17	0	0
Bikaner (P.B.O.)	0530	224	1007.1	981·4	..	29·6	16·6	13.4	15·4	66	..	1·8	..	1.5	0	0	7	3	2	0	0	0	2	0	0	23	0
	1130	"	1008·1	983·5	..	33·7	24.5	19·3	22.3	44	..	2·4	..	4.5	0	0	25	2	2	3	2	5	4	6	1	5	0
	2330	"	1007·2	982·0	..	26·1	19·8	15·4	17·5	54	..	1·6	..	4·3	0	0	19	6	2	0	0	0	2	6	3	11	0
Nagpur	0830	298	1003.0	974·5	..	26.1	16·9	9·3	11·7	37	..	1·6	..	5·3	0	0	30	2	1	4	5	3	3	7	5	0	0
	1730	"	1003·7	971·3	..	35.2	20·2	8·6	11·2	21	..	2.4	..	10·2	0	2	28	3	1	1	1	2	12	6	4	0	0
Phalodi	0830	234	1009.3	982·8	..	25·9	20·2	16.5	18·8	61	..	1.9	..	7·8	0	1	27	0	3	3	5	3	7	6	1	2	0
	1730	"	1005·8	980·3	..	35·6	24·3	16·9	19·3	37	..	2·7	..	11·4	0	4	25	0	1	1	0	5	6	10	6	1	0
Jaisalmer	0830	242	1008·2	981.1	..	25·4	17·6	10·9	13·4	46	..	1·5	..	13·3	0	1	26	5	4	0	0	8	6	3	1	3	0
	1730	"	1004·5	978·1	..	33·9	20·0	8·3	10·9	21	..	2·3	..	19·8	0	14	14	2	1	0	1	1	17	4	2	2	0
Jodhpur	0230	224	1007·2	981·9	..	25·7	16.0	6·5	9·7	33	..	1.5	..	7·2	0	0	26	3	6	1	0	0	3	9	4	4	0
	0530	"	1007·4	982·1	..	23·4	15·2	7·3	10·2	39	..	1.3	..	5·9	0	0	22	0	7	2	0	1	3	7	2	8	0

(R) Register not received .

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —*Contd.*																											
Jodhpur—*Contd.*	0830	224	1009·2	983·8	+1·9	26·3	16·7	7·6	10·4	34	+2	1·8	+0·1	5.1	0	0	20	2	7	0	2	1	6	2	0	10	0
	1130	"	1008·9	984·2	..	33·6	19·0	5·6	9·1	21	..	2·3	..	8.1	0	0	29	1	4	2	2	3	8	5	4	1	0
	1730	"	1004.8	980.4	..	36·2	19·5	4·6	8.5	16	..	2·5	..	11·3	0	3	26	1	1	0	2	2	7	10	6	1	0
	2330	"	1007.6	982.6	..	28·5	17·2	6·6	9·7	29	..	1·1	..	8·3	0	0	28	3	5	0	0	0	4	10	6	2	0
Barmer	0530	194	1006·8	984·8	..	24·6	17·2	10·7	12.9	45	..	0·5	..	7·2	0	2	21	1	0	0	1	0	6	7	8	7	0
	0830	"	1008·6	986·7	+0·3	26·6	18·4	11·8	13·8	43	−10	1·6	+0·3	4·1	0	0	24	1	3	0	2	2	5	2	9	6	0
	1130	"	1008·5	987·0	..	33·4	20·0	9·1	11·5	26	..	2·1	..	4·7	0	0	27	2	3	1	5	2	5	2	7	3	0
	1730	"	1004·4	983·3	..	36·2	20·7	8·9	11·4	20	..	1·9	..	7·6	0	0	29	2	1	0	0	1	9	8	8	1	0
	2330	"	1007·2	985·5	..	29·2	18·8	10·2	12.4	35	..	1·0	..	5·5	0	1	23	0	0	0	0	1	6	8	9	6	0
Munabao	0830	80	..	..	..	24·8	..	..	..	..	..	2·2	..	..	0	0	27	1	8	2	0	1	14	1	0	3	0
	1730	"	..	..	..	35·1	..	..	..	..	..	2·2	..	..	0	2	23	1	4	0	0	0	14	5	1	5	0
Rajasthan (East)																											
Pilani	0830	301	1008·8	975·2	..	26·6	16·5	7·8	10·6	34	..	0·4	..	9·3	0	0	30	3	1	2	2	1	12	7	2	0	0
	1730	"	1004·5	971·9	..	34·5	18·7	3·8	8·0	17	..	1·4	..	16·0	0	5	25	6	2	1	0	0	3	11	7	0	0
Sikar	0830	433	1008·5	960·6	..	27·4	18·7	12.4	14·4	41	..	0·9	..	2·2	0	0	22	1	0	6	2	1	3	7	2	8	0
	1730	"	1005·9	957·3	..	34·2	21·3	12·5	14·5	28	..	2·7	..	2·9	0	0	27	0	1	1	0	0	5	18	2	3	0
Alwar	0830	271	1007·0	976·7	..	27·2	19·4	14.3	16·3	46	..	2·2	..	0·9	0	0	9	2	2	1	1	2	0	0	1	21	0
	1730	"	1003·7	974·4	..	35·7	22·7	14·3	16·3	29	..	3·4	..	5·4	0	0	29	4	4	2	1	2	3	6	6	1	1
Jaipur (Sanganer)	0230	390	1006·3	962·7	..	23·0	15·0	7·6	10·4	38	..	1·5	..	7·2	0	1	25	11	4	5	0	0	1	1	4	4	0
	0530	"	1007·1	963·0	..	21.2	19·2	7·6	10·4	43	..	2·1	..	6·5	0	0	25	14	2	3	1	0	0	0	5	5	0
	0830	"	1008·0	964·8	−0·2	28·2	17·5	8·4	11·0	31	+1	1·8	+0·4	7·7	0	0	25	4	2	6	2	0	0	2	9	5	0
	1130	"	1007·1	964·9	..	33·3	19·2	7·2	10·1	22	..	1·7	..	12·0	0	2	28	1	0	0	4	2	3	8	10	0	2
	1730	"	1003·5	961·5	..	35·1	19·4	6·1	9·4	18	..	2·5	..	15·0	0	7	23	4	0	0	0	0	1	8	17	0	0
	2330	"	1007·1	963·7	..	26·1	16·1	7·1	10·8	30	..	1·5	..	7·2	0	0	26	9	4	4	0	0	0	1	8	4	0
Dholpur	0830	176	1007·8	988·2	..	29·2	21·5	16·3	18·5	48	..	1·8	..	1·6	0	0	11	0	0	0	2	0	2	3	4	19	0
	1730	"	1003·1	984·0	..	36·4	25·8	19·5	20·7	40	..	2·4	..	1·3	0	0	11	0	0	1	0	0	0	1	9	19	0
Ajmer	0830	486	1008·7	954·9	0	26·3	15·9	5·7	9·1	29	−1	1·7	+0·3	5·7	0	0	19	0	4	1	2	0	6	3	3	11	0
	1730	"	1003·5	951·4	..	34·5	16·8	4·7	4·1	11	..	2.5	..	12·6	0	3	27	0	3	0	1	1	7	1	5	0	0
Tonk	0830	272	1007·7	977·3	..	27·2	18·1	10·8	12·9	37	..	2·0	..	6·5	0	0	26	3	1	1	1	0	2	9	9	4	0
	1730	"	1002·5	973·2	..	36·8	20·8	8·1	10·8	18	..	2·2	..	10·1	0	1	28	2	1	1	0	0	8	5	12	1	0
Kotah	0530	257	1006·9	977·9	..	24·5	16·3	9·3	11·7	40	..	2·0	..	3·2	0	0	19	1	0	0	1	0	5	5	7	11	0
	0830	"	1008·2	980·0	+0·4	30·7	18·5	8·3	11·2	27	+2	1·4	0	3·5	0	0	20	1	1	0	1	0	0	0	7	10	0
	1130	"	1008·0	980·1	..	35·8	20·2	7·9	10·7	19	..	1·6	..	7·0	0	0	26	1	4	0	4	0	2	6	9	4	0
	1730	"	1004·0	976·2	..	36·5	20·0	6·6	9·7	17	..	2·4	..	4·3	0	0	26	0	2	0	0	1	2	4	17	4	0
	2330	"	1006·7	978·1	..	29·1	17·6	7·7	10·5	27	..	1·4	..	4·5	0	1	19	2	0	0	1	0	3	5	9	10	0
Bhilwara (Jawai Dam)	0830	295	1009·3	976·1	..	25·7	19·5	15·6	17·7	55	..	2·4	..	6·9	0	0	24	2	1	0	5	15	0	1	0	6	0
	1730	"	1004·5	972·7	..	35·3	24·3	18·3	21·0	37	..	2·8	..	11·2	0	4	24	3	0	0	0	0	2	19	4	2	0
Chambal (Rawat Bhatta Dam)	0830	351	1008·9	970·0	..	28·0	16·3	4·2	8·2	25	..	1·5	..	4.0	0	0	22	1	2	0	1	2	2	0	14	8	0
	1730	"	1003.6	965·9	..	36·6	18·8	1·5	6·8	13	..	2·6	..	11·4	0	1	28	2	1	0	2	1	3	9	11	1	0
Udaipur	0230	582	1008.0	943·4	..	22·7	14·7	7·8	10.6	40	..	1·4	..	0·9	0	1	2	0	0	0	0	0	0	2	1	27	0
	0530	"	1008·5	943·5	..	20·5	13·9	8·2	10·9	46	..	1·8	..	1·1	0	0	5	0	0	0	0	0	2	3	0	25	0
	0830	"	1009·1	945·2	+0·6	26·9	16·7	8·7	11·0	33	−7	1·9	+0·9	1·8	0	0	12	1	1	1	0	0		3	5	18	0
	1130	"	1007·9	945·3	..	33·2	18·0	5·2	8·8	19	..	2·1	..	4·5	0	0	24	5	1	3	0	4	2	7	2	6	0
	1730	"	1004·0	941·8	..	34·1	18·0	4·9	8·9	17	..	2·7	..	6·8	0	0	28	0	1	2	1	5	7	7	5	2	0
	2330	"	1008·6	944·3	..	24·9	15·9	8·9	11·4	37	..	1·0	..	1·7	0	0	9	1	0	0	0	0	0	7	1	21	0
Jhalawar	0830	321	1008·3	972·9	−0·1	28·1	16·9	7.0	10·0	26	−3	1·6	+0·5	1·6	0	0	16	1	5	0	2	2	0	3	3	14	0
	1730	"	1003·5	969·1	..	38·0	19·5	2·6	7·4	12	..	2·2	..	4·2	0	0	27	3	1	0	0	2	2	8	11	3	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1006·2	982·8	..	24·5	14·4	4·8	8·3	31	..	2·0	..	4·1	0	0	22	0	1	2	3	5	4	4	3	8	0
	0530	"	1006·5	983·0	..	23·2	14·5	5·5	9·5	34	..	1·9	..	3·4	0	0	21	1	0	0	4	5	7	3	1	9	0
	0830	"	1007·9	984·9	+0·4	30·3	17·0	4·0	8·6	22	−4	1·9	+0·7	8·0	0	2	26	5	2	1	1	2	3	8	6	2	0
	1130	"	1007·5	984·9	..	35·4	18·3	1·1	7·2	13	..	1·6	..	10·7	0	3	27	9	1	0	3	3	2	5	7	0	0
	1730	"	1003·5	981·1	..	36·8	18·5	−0·8	6·4	11	..	2·3	..	11·0	0	3	27	8	3	0	2	0	0	6	11	0	0
	2330	"	1006·6	983·3	..	26·5	15·8	5·5	9·3	27	..	1·8	..	5·1	0	1	18	2	1	1	2	2	3	5	3	11	0
Sheopur	0830	235	1008·4	982·2	−0·2	29·0	17·9	8·8	11·5	29	+2	2·0	+0·1	4·9	0	0	27	1	3	2	4	7	3	2	4	3	1
	1730	"	1003·5	978·1	..	36.5	19·7	5·4	9.4	16	..	2·6	..	11·4	0	2	25	3	0	0	0	1	6	9	7	3	1

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed: 29 to 61	Wind speed: 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Shivpuri	0830	464	1007·8	955·9	..	29·3	21·4	15·8	19·0	49	..	1·0	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
	1730	"	1003·0	953·3	..	35·3	..	..	..	..	..	1·3	..	..	..	..	..	..	..	..	..	.	..	..	..	.	..
Nowgong	0830	229	1003·5	982·9	+0·5	27·5	18·4	11·5	13·9	38	+4	1·4	−0·3	4·4	0	0	25	0	3	3	0	3	10	3	3	5	0
	1730	"	1003·4	978·8	..	37·1	20·9	8·9	11·6	19	..	1·5	..	7·4	0	0	30	3	5	0	1	0	3	1	15	0	2
Guna	0530	478	1007·5	953·8	..	21·2	13·6	6·6	10·1	40	..	1·9	..	5·6	0	0	23	2	3	1	8	5	0	2	2	7	0
	0830	"	1008·1	955·6	−0·2	29·5	17·0	6·8	10·3	26	0	1·9	+1·1	5·6	0	0	29	6	5	2	3	3	1	8	1	1	0
	1130	"	1007·0	955·6	..	35·3	19·0	6·8	10·1	18	..	1·6	..	12·7	0	4	26	4	4	3	1	2	2	6	8	0	0
	1730	"	1003·0	951·9	..	36·1	18·5	4·2	8·4	15	..	2·6	..	17·9	0	14	16	1	0	1	0	1	0	9	18	0	0
	2330	"	1007·2	954·2	..	25·7	15·5	6·7	10·2	31	..	1·7	..	7·5	0	1	25	4	3	1	3	4	1	2	8	4	0
Nimach	0830	496	1008·8	954·5	+0·4	28·1	15·4	2·3	8·2	23	−11	2·4	+1·3	8·7	0	0	30	2	14	5	2	0	1	5	1	0	0
	1730	"	1003·9	951·0	..	35·9	17·0	−2·5	5·5	10	..	2·8	..	12·7	0	2	26	1	1	1	0	0	10	11	4	2	0
Rajgarh	0830	382	1008·1	965·8	..	28·4	15·9	3·1	8·0	22	..	1·9	..	3·2	0	0	18	3	0	0	1	5	0	7	2	12	0
	1730	"	1002·8	962·0	..	37·3	18·9	0·8	7·1	12	..	3·2	..	7·9	0	0	28	3	0	0	0	2	2	13	8	2	0
Sagar	0830	551	1007·8	947·7	+0·2	28·9	16·7	7·0	10·1	27	+1	1·2	−0·2	5·0	0	0	26	0	6	8	2	0	3	4	3	4	0
	1730	"	1002·3	943·7	..	35·9	19·9	6·0	11·5	23	..	2·1	..	3·7	0	0	23	0	1	1	1	0	1	10	9	7	0
Ratlam	0830	486	1009·0	954·9	−0·5	24·8	15·8	8.2	11·4	37	0	2·5	+0·9	3·3	0	0	14	3	4	1	0	0	2	3	1	16	0
	1730	"	1003·4	951·6	..	37·1	21·0	8·2	13·3	19	..	2·5	..	11·4	0	0	29	7	2	0	0	0	4	10	6	1	0
Bhopal (Bairagarh)	0230	523	1006·4	948·3	..	24·6	14·0	3·3	8·3	27	..	1·7	..	7·5	0	1	24	7	7	1	2	1	2	0	5	5	0
	0530	"	1007·3	949·1	..	22·8	13·5	4·0	8·7	32	..	1·8	..	7·1	0	0	24	7	8	0	0	2	1	0	0	6	6
	0830	"	1008·1	951·1	+0·1	29·8	16·4	4·2	8·9	22	−2	1·5	+0.1	13·9	0	4	25	7	6	5	3	1	2	2	4	1	0
	1130	"	1006·8	950·8	..	35·3	18·4	4·3	8·8	18	..	1·3	..	11·2	0	1	28	8	5	3	3	1	3	3	2	1	1
	1730	"	1002·4	946·9	..	36·7	18·3	2·3	7·6	13	..	3·1	..	13·3	0	6	24	6	1	1	0	0	3	2	17	0	0
	2330	"	1006·7	949·3	..	27·7	15·1	3·0	8·0	22	..	1·3	..	8·4	0	1	23	7	10	0	0	0	1	2	4	6	0
Ujjain	0830	..	..	..	..	28·6	16·3	5·6	9·5	25	..	..	..	9·3	0	2	25	4	5	4	1	1	1	5	6	3	0
Hoshangabad	0830	302	1008·6	975·1	0	29·3	22·4	18·6	21·6	53	+25	1·0	−0·3	5·5	0	0	30	5	9	2	0	5	4	3	2	0	0
	1730	"	1002·3	970·3	..	38·8	28·3	23·7	29·7	43	..	2·6	..	6·7	0	0	27	3	3	1	2	1	7	6	4	3	0
Indore	0530	567	1007·6	944·5	..	22·7	13·4	4·7	8·7	32	..	1·3	..	10·7	0	3	25	5	7	1	1	0	5	5	4	2	0
	0830	"	1008·4	946·5	−0·1	28·8	16·2	5·5	9·2	24	−13	1·3	−0·1	13·3	0	5	23	5	4	5	0	2	2	6	4	2	0
	1130	"	1007·0	946·3	..	34·8	18·3	5·2	9·0	17	..	1·3	..	11·3	0	4	22	2	2	4	2	3	2	4	4	4	3
	1730	"	1002·5	942·5	..	36·6	18·5	3·5	8·1	13	..	2·3	..	18·3	0	14	16	8	3	0	0	0	2	9	8	0	0
	2330	"	1007·1	945·1	..	27·5	15·0	3·3	8·0	22	..	1.4	..	11·8	0	6	21	4	3	0	0	1	4	7	8	3	0
Rajpur	0530	293	1009·7	977·1	..	28·1	18·7	11·2	13·9	38	..	1·9	..	8·3	0	0	30	1	2	4	0	0	3	19	1	0	0
	1730	"	1004·1	972·7	..	37·8	20·5	6·6	10·0	16	..	2·3	..	10·8	0	5	23	1	0	0	1	2	5	12	7	2	0
Chhindwara	0830	685	1008·0	933·9	−0·1	29·0	18·7	11·7	14·0	37	+4	2·0	+0·1	7·5	0	1	23	2	9	2	2	2	3	0	4	6	0
	1730	"	1001·7	929·5	..	35·5	20·5	10·6	13·1	24	..	3·3	..	9·3	0	0	30	4	1	1	1	1	4	6	12	0	0
Seoni	0830	619	1008.4	941·1	+0·6	28·8	19·6	13·7	16·1	44	+14	2·8	+1·3	4·2	0	0	27	2	5	4	1	3	7	2	3	3	0
	1730	"	1001·9	936·5	..	36·0	21·4	12·1	14·7	27	..	3·3	..	3·8	0	0	28	4	6	0	0	2	7	2	7	2	0
Betul	0830	653	1008·4	937·6	+0·2	28·5	16·4	5·7	9·8	27	−4	1·6	−0·2	4·3	0	0	27	3	2	3	8	1	5	2	3	3	0
	1730	"	1001·8	932·9	..	36·3	18·5	3·6	8·3	14	..	2·9	..	6·4	0	0	30	5	2	0	3	0	1	4	15	0	0
Khandwa	0830	318	1008·5	973·4	+0·1	30·5	19·7	11·5	14·1	33	+5	1·4	+0·2	4·4	0	1	27	0	5	1	0	1	3	12	6	2	0
	1730	"	1002·8	968·8	..	38·9	22·7	11·3	13·6	21	..	2·6	..	6·5	0	2	28	3	2	0	0	1	4	7	13	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1006·6	970·7	..	22·4	15·2	8·4	11·5	43	..	2·5	..	3·5	0	0	22	2	0	3	2	5	3	5	2	8	0
	0830	"	1007·5	972·7	+0·4	29·1	17·5	7·2	10·7	28	−1	2·0	+0·5	2·6	0	0	23	1	0	1	1	5	8	6	1	7	0
	1130	"	1006·9	972·5	..	35·5	19·2	4·5	9·0	17	..	2·1	..	6·1	0	0	30	1	2	3	1	3	2	7	11	0	0
	1730	"	1002·8	968·6	..	36·2	19·1	3·0	8·2	16	..	2·0	..	5·6	0	0	30	3	1	0	0	2	1	2	21	0	0
	2330	"	1006·1	970·8	..	26.7	16·7	7·7	10·9	32	..	2·0	..	3·7	0	0	24	1	2	1	1	1	6	6	6	6	0
Sidhi	0830	272	1006·8	976·7	..	29·1	18·3	9·4	12·2	32	..	0·8	..	0·9	0	0	8	1	0	0	0	0	4	0	3	22	0
	1730	"	1002·4	973·1	..	36·5	19·9	5·7	9·8	16	..	1·2	..	2·8	0	0	24	3	0	0	0	1	2	3	15	6	0
Umaria	0830	459	1007·6	957·3	..	30·6	18·1	8·9	11·7	28	0	1·8	−0·1	3·6	0	0	24	2	2	6	4	1	5	3	1	6	0
	1730	"	1002·3	953·3	..	36·5	19·6	7·3	10·4	18	..	2·6	..	7·4	0	0	30	7	1	3	0	0	1	9	9	0	0
Jabalpur	0530	393	1007·0	962·7	..	21·7	15·6	10·4	12·8	50	..	2·1	..	1·6	0	0	13	1	0	0	8	2	1	1	0	17	0
	0830	"	1008·0	964·9	+0·4	29·8	17·9	7.7	10·9	27	−4	1·7	+0.4	3·8	0	0	22	1	3	3	4	8	2	0	1	8	0
	1130	"	1006·5	964·3	..	36·4	20·2	6·6	10·5	18	..	1·2	..	5·2	0	0	28	5		1	2	3	8	1	2	2	0
	1730	"	1002·1	960·2	..	37·4	20·3	6·4	9·9	16	..	2·6	..	5·9	0	0	30	6	3	0	1	2	2	6	10	0	0
	2330	"	1006·2	962·7	..	26·4	17·5	10·4	12·8	38	..	1·2	..	4·4	0	1	20	1		4	3	3	1	0	1	9	0
Ambikapur	0830	611	1008·3	941·7	0	27·7	17·7	10·5	13·0	36	+2	1·1	−0·1	4·2	0	1	23	2	3	1	1	3	10	2	2	6	0
	1730	"	1002·5	937·6	..	34·5	19·1	7·5	10·7	22	..	2·3	..	6·3	0	0	30	14	1	1	0	4	1	2	7	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Pendra	0530	625	1007·0	933·2	..	23·5	15·0	7·5	10·9	40	..	1·7	..	4·7	0	0	26	7	0	1	1	5	2	3	7	4	0
	0830	"	1008·0	940·1	+0·1	28·5	17·4	8·4	11·8	33	+2	1·6	−0·4	5·8	0	0	27	8	3	1	2	4	4	3	2	3	0
	1130	"	1006·4	939·7	..	33·4	18·7	7·1	10·8	22	.	1·3	..	8·0	0	1	29	11	3	0	2	5	3	3	3	0	0
	1730	"	1002·6	936·1	..	33·7	18·8	7·1	9·9	24	..	4·1	..	7·0	0	0	29	9	3	0	2	3	3	4	5	1	0
	2330	"	1006·5	938·3	..	26·5	16·2	7·4	10·9	34	..	1·7	..	4·6	0	0	27	2	1	0	0	1	3	7	13	3	0
Mandla	0830	443	1008·4	959·8	−0·1	28·4	18·6	10·9	13·4	36	−7	1·4	−0·7	1·7	0	0	7	1	0	0	2	4	0	0	0	23	0
	1730	"	1002·0	954·9	..	36·5	20·5	7·7	11·1	20	..	2·2	..	5·2	0	0	22	9	0	1	0	1	1	1	9	8	0
Champa	0830	245	1008·4	981·3	0	30·1	20·2	13·1	15·6	39	+1	1·8	−0·1	6·0	0	0	24	16	2	2	0	1	0	2	1	6	0
	1730	"	1003·1	976·4	..	37·9	21·8	11·0	12·9	22	..	3·6	..	8·9	0	0	27	10	0	1	1	0	0	9	6	3	0
Raigarh	0830	220	1007·9	983·6	−0·3	31·0	20·5	13·2	15·6	37	−1	2·0	−0·3	3·3	0	0	24	0	4	4	8	2	4	0	2	6	0
	1730	"	1002·2	978·6	..	38·5	21·4	8·7	11·5	18	..	3·1	..	2·8	0	0	20	7	3	0	0	0	4	0	6	10	0
Raipur	0530	298	1006·6	973·3	..	26·2	19·9	15·9	18·1	54	..	3·3	..	3·1	0	0	16	3	1	0	2	3	4	3	0	14	0
	0830	"	1008·4	975·6	+0·4	31·4	22·4	17·2	19·7	44	+10	1·9	+0·2	5·7	0	0	22	2	1	3	2	3	5	3	3	8	0
	1130	"	1007·0	974·7	..	36·9	23·9	16·8	19·0	32	..	1·1	..	6·6	0	0	28	5	1	2	0	3	3	11	3	2	0
	1730	"	1002·2	970.3	..	38·4	23·9	15·3	17·8	27	..	4·0	..	5·0	0	0	24	3	1	0	0	1	1	10	8	6	0
	2330	"	1005·6	972·8	..	30·9	21·6	15·8	18·3	42	..	2·5	..	8·2	0	1	25	3	1	5	3	4	5	3	2	4	0
Kanker	0830	402	1008·2	964·2	0	30·1	23·2	19·5	23·2	54	+10	1·5	−0·9	1·5	0	0	12	0	1	1	2	0	5	0	3	18	0
	1730	"	1002·8	959·6	..	36·8	25·4	19·6	23·1	38	..	3·2		2·4	0	0	21	3	3	0	1	0	9	0	5	9	0
Jagdalpur	0530	553	1007·2	946·2	..	23·8	20·0	17·9	20·6	70	..	3·8		1·9	0	1	6	0	0	0	5	1	0	1	0	23	0
	0830	"	1008·8	948·5	−0·1	28·1	21·7	18·5	21·3	56	0	2·2	+0·4	2·7	0	0	19	0	1	1	0	5	8	3	1	11	0
	1130	"	1006·7	947·6	..	33·9	22.4	16·4	18·6	36	..	2·4	..	3·7	0	0	23	1	1	0	1	2	12	2	4	7	0
	1730	"	1003·0	944·1	..	43·6	21·9	15·4	17·7	35	..	5·6	..	4·3	0	2	19	2	1	0	4	2	9	2	1	9	0
	2330	"	1007·0	946·5	..	26·5	20·5	17·2	19·7	57	..	3·2	..	2·3	0	0	13	0	2	1	5	1	4	0	0	17	0
Gujarat																											
Deesa	0830	136	1009·8	994·3	+0·4	26·9	19·0	13·0	15·0	45	..	1·7	..	1·6	0	0	14	3	3	1	0	0	0	2	5	16	0
	1730	"	1005·3	990·4	..	36·7	20·9	8·9	11·4	20	..	2·0	..	2·7	0	0	26	1	0	0	0	0	5	12	8	4	0
Radhanpur	0830	30	1009·5	1006.1	..	25·8	19·4	14·6	16·6	54	..	1·5	..	5·5	0	0	27	7	1	1	0	0	2	7	9	3	0
	1730	"	1005·8	1002·5	..	37·3	21·0	8·1	10·8	18	..	1·0	..	7·8	0	0	30	2	0	0	0	1	4	13	10	0	0
Idar	0830	219	1009·0	984·6	..	28·7	17·6	5·8	9·2	30	..	2·0	..	3·1	0	0	17	5	1	4	0	0	1	3	3	13	0
	1730	"	1004·6	980·9	..	36·8	18·9	1·2	6·7	12	..	2·7	..	7·5	0	0	30	0	0	0	0	0	1	26	3	0	0
Ahmadabad	0230	55	1007·4	1001·1	..	26·7	17·2	8·6	11·2	35	..	1·3	..	8·6	0	0	24	2	0	0	0	0	1	8	13	6	0
	0530	"	1007·7	1001·3	..	24·1	17·0	10·7	12·9	46	..	2·0	..	8·5	0	0	23	1	1	0	0	0	0	5	16	7	0
	0830	"	1009·6	1003·3	−0·2	27·3	18·8	11·9	13·9	42	−6	1·9	+0·8	13·3	0	5	24	3	2	3	0	0	1	3	17	1	0
	1130	"	1009·6	1003·5	..	34·6	20·1	8·2	10·9	23	..	2·3	..	13·3	0	3	27	4	1	3	1	2	3	6	10	0	0
	1730	"	1005·2	999·2	..	38·2	20·3	5·3	8·9	14	..	2·2	..	15·6	0	6	24	3	2	0	0	0	2	11	12	0	0
	2330	"	1008·0	1001·7	..	29·5	17·9	7·6	10·4	27	..	1·2	..	9·6	0	2	21	2	0	0	0	2	0	7	12	7	0
Dohad	0830	333	1008·9	971·9	−0·5	28·1	16·9	8·5	11·1	27	−13	1·5	+0·2	10·6	0	2	25	1	3	1	1	3	2	13	3	3	0
	1730	"	1003·6	967·9	..	37·9	19·4	4·7	8·5	11	..	1·7	..	15·8	0	5	25	2	1	0	0	0	7	16	4	0	0
Baroda Aerodrome	0830	38	1009·7	1005·4	..	27·8	19·3	12·7	14·7	42	..	1·6	..	6·1	0	0	27	3	1	1	1	0	6	5	10	3	0
	1130	"	1009·4	1005·2	..	35·3	21·3	11·2	13·3	25	..	1·5	..	7·5	0	0	27	6	2	2	1	1	3	3	9	3	0
	1730	"	1004·9	1000·8	..	38·4	21·2	8·1	10·8	16	..	2·0	..	8·0	0	0	28	0	0	0	0	0	4	13	11	2	0
Baroda	0530	34	1007·8	1003·8	..	23·8	18·0	13·5	15·5	54	..	1·3	..	..	..	..	..	2	0	0	1	1	2	4	7	13	0
	0830	"	1009·9	1006.0	+0·1	27·9	19·3	12·6	14·6	42	−12	1·3	+0·3	..	..	..	..	0	2	0	0	1	6	4	6	11	0
	1130	"	1009·6	1006.8	..	36·2	21·3	9·7	12·0	23	..	1·1	..	..	..	..	..	4	6	0	2	1	3	5	5	4	0
	1730	"	1005·3	1001·5	..	39·0	21·4	7·7	10·5	16	..	1·5	..	..	..	..	..	2	0	0	0	0	6	6	13	3	0
	2330	"	1008·1	1004·1	..	28·6	19·6	13·2	15·2	40	..	1·0	..	..	..	..	..	2	0	0	1	0	8	4	8	7	0
Broach	0830	17	1009·3	1007·3	−0·3	26·2	20·3	16·2	18·4	57	−2	1·7	+0·3	4·2	0	0	30	1	0	0	5	3	12	0	9	0	0
	1730	"	1004·9	1003·0	..	38·6	22·0	9·6	11·9	20	..	2·1	..	9·7	0	0	30	0	0	0	6	0	11	4	9	0	0
Surat	0530	12	1008·3	1007·0	..	24·4	22·1	20·8	24·6	81	..	0·8	..	3·6	0	0	28	6	2	2	5	9	2	0	2	2	0
	0830	"	1010·1	1008·8	+0·3	27·3	23·1	20·8	24·6	68	+6	1·5	0	4·9	0	0	24	5	4	0	3	2	4	1	5	6	0
	1130	"	1010·0	1008·7	..	34·2	23·9	18·0	20·6	41	..	0·8	..	4·5	0	0	30	7	5	1	0	1	4	4	8	0	0
	1730	"	1005·9	1004·6	..	35·8	23·9	16·8	19·1	36	..	1·4	..	8·1	0	0	30	2	0	0	0	2	8	9	9	0	0
	2330	"	1008·4	1007·1	..	27·0	23·7	22·0	26·4	75	..	0·3	..	4·2	0	0	29	1	1	0	2	6	6	10	3	1	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1009·5	1004·1	..	26·1	..	..	..	..	..	1·6	..	18·2	0	12	18	8	0	0	0	1	3	10	8	0	0
	1730	"	1006·1	1000·9	..	36·8	..	..	..	..	..	1·6	..	20·0	0	13	17	8	0	0	0	1	6	8	7	0	0
Naliya	0830	21	1009·9	1007·5	..	24·6	21·7	19·8	23·1	77	..	2·9	..	7·3	0	0	27	5	5	0	0	0	10	0	7	3	1
	1730	"	1007·1	1004·7	..	31·4	21·3	13·0	15·0	41	..	2·1	..	18·8	0	11	19	0	2	0	0	2	13	6	7	0	0
Bhuj (Rudramata)	0230	80	1008·5	999·3	..	24·7	22·0	20·5	24·1	79	..	1·2	..	9·7	0	0	23	3	0	0	0	0	1	11	8	7	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level.	Mean pressure in millibars: At station level.	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed in Km. per hour.	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(*Contd.*)																											
Bhuj (Rudramata).—(*Contd*).	0530	80	1003·5	999·2	..	22·6	20·8	19·7	22.9	84	..	1·9	..	7·4	0	2	20	3	0	1	0	1	4	10	3	8	0
	0830	"	1010·1	1000·9	..	25·4	21·7	19 6	22.8	72	..	2·1	..	7·9	0	2	19	3	0	0	0	0	2	8	7	9	1
	1130	"	1010·2	1001·2	..	32 5	23·8	18·9	21.8	47	..	2·3	..	12·3	0	5	24	8	4	0	0	0	0	8	8	1	1
	1730	"	1006·4	997·5	..	35·6	25·0	20·1	23.5	41	..	2·2	..	18·1	0	16	13	3	2	1	0	0	2	12	9	1	0
	2330	"	1009·3	1000·1	..	26 5	22·3	19·9	23.2	69	..	0·6	..	11·3	0	5	20	2	0	0	0	0	4	15	4	5	0
Kandla Aerodrome .	0830	35	1010·0	1006·1	..	26·6	20·3	15·8	17.9	54	..	2·0	..	11·1	0	2	27	0	0	1	0	0	7	7	14	1	0
	1130	"	1010·1	1006·3	..	33·3	21·9	15·1	17.1	35	..	2·3	..	10 5	0	2	27	9	0	1	0	1	2	12	4	1	0
	1730	"	1006·7	1002.8	..	34·9	22·1	13·6	15·6	30	..	2·7	..	22·3	0	12	11	3	0	0	0	5	4	7	4	0	0
N w kandla . .	0830	14	1010·6	1009·0	..	25·4	20·4	16·7	19·0	62	..	2·6	..	13·5	0	3	26	5	0	0	1	0	6	9	8	1	0
	1730	"	1007·2	1005·6	..	32·1	22·7	16·6	18·9	44	..	2·3	..	26·6	0	20	10	2	0	0	2	4	14	7	1	0	0
Mandvi . . .	0830	9	1010·1	1009·0	−0.3	25·4	22·2	20·3	23·8	75	−4	2·6	+1.0	16·7	0	5	25	4	2	0	0	0	8	1	13	0	2
	1730	"	1007.6	1006·5	..	28·7	25·3	23·8	29·5	75	..	2·5	..	32·5	0	27	3	0	0	0	0	0	24	6	0	0	0
Surendranagar (R) .	0830	74																									
(R)	1730	"																									
Jamnagar Aerodrome	0530	23	1008.4	1005·8	..	22·3	20·7	19·8	23·1	86	..	2·3	..	8·9	0	1	28	0	0	0	0	3	10	14	2	1	0
	0830	"	1010·2	1007·6	+0·1	26·1	22·6	20·7	24.4	73	+7	2.7	+1·4	11·6	0	2	27	3	1	1	0	1	4	15	4	1	0
	1130	"	1010·6	1008·1	..	31·5	23·1	18·4	21·1	47	..	2·2	..	18·4	0	14	16	7	3	0	0	0	0	13	7	0	0
	1730	"	1007·2	1004·7	..	32·4	23·4	18·0	20·6	46	..	1·8	..	29 7	0	24	6	2	2	0	0	0	0	22	4	0	0
	2330	"	1009·3	1006·7	..	25·4	22·8	21·6	25·8	80	..	0·9	..	17·7	0	13	16	0	0	0	0	0	0	27	2	1	0
Dwarka . . .	0830	11	1010·4	1009·1	+0·2	25·8	24·6	23·9	29 7	90	+7	2 4	+0·5	14·1	0	1	29	10	0	1	1	0	0	10	8	0	0
	1730	"	1008·2	1006·9	..	28·1	26·4	25·6	32·8	86	..	2·4	..	19·0	0	11	19	3	0	0	0	0	2	15	10	0	0
Rajkot . .	0830	138	1010·2	994·6	−0·1	25·6	22·0	19·9	23·2	72	+6	1·6	+0·5	15·0	0	4	26	3	0	0	0	0	1	15	11	0	0
	1130	"	1010·0	994·7	..	32·8	23·5	18·0	20·6	45	..	1·2	..	18·8	0	12	18	3	4	0	0	0	0	12	10	0	1
	1730	"	1005·7	990·7	..	36·6	24·1	16·5	18 8	33	..	1.3	..	27·9	1	23	6	1	2	0	0	0	1	22	4	0	0
Bhaunagar Aerodrome.	0830	11	1010·1	1008·9	..	28·0	19·8	14·0	16·0	45	..	1·3	..	15·2	0	4	26	9	2	0	1	1	0	2	15	0	0
	1130	"	1010·2	1009·0	..	34·1	21·4	12·7	14·7	29	..	1·1	..	18·5	0	6	24	6	15	5	0	2	0	0	2	0	0
	1730	"	1005·8	1004·6	..	36·7	22·4	13·1	15·1	26	..	1·8	..	24·6	0	19	11	2	3	8	7	10	0	0	0	0	0
Bhaunagar . .	0830	17	1010·3	1008·4	+0·5	28·5	20·5	14.6	16·6	45	−5	1·1	−0·2	6·5	0	0	29	3	0	1	3	0	0	0	22	1	0
	1730	"	1005·7	1004·0	..	37·6	23·8	14·9	16·9	29	..	2·3	..	11·6	0	2	27	0	3	8	5	8	2	0	3	1	0
Porbander (Aerodrome) . .	0830	7	1010·5	1009·7	..	26·6	23·5	21·9	26·3	77	..	2·3	..	15·4	0	9	20	7	2	0	1	0	0	3	16	1	0
	1130	"	1010·7	1009·9	..	31·7	24·6	20·6	24 3	57	..	1·7	..	18·2	0	13	17	7	1	0	0	0	10	7	4	0	1
	1730	"	1007·5	1006·7	..	30·3	25·1	22·2	26·7	66	..	1·1	..	28·5	0	29	1	1	0	0	0	0	3	22	4	0	0
Porbander . .	0830	7	1010·6	1009.8	+0.3	25·1	22·6	21·2	25·2	80	+1	3·1	+2·0	5·5	0	0	30	9	1	2	0	0	0	1	17	0	0
	1730	"	1007·8	1007·0	..	29·3	24·0	21·2	25·2	64	..	2·4	..	20·0	0	10	20	1	0	0	0	0	2	19	8	0	0
Keshod . .	0830	51	1010·7	1004·9	..	25·2	20·4	17·3	19.7	64	..	1·4	..	10·2	0	0	28	13	4	0	0	0	0	1	7	2	3
	1130	"	1010·6	1004·9	..	33·4	20·6	10·3	12.5	29	..	0·6	..	14.3	0	3	27	8	3	0	0	0	0	5	12	0	2
	1730	"	1007·1	1001·4	..	34·6	22·0	13·4	15·4	31	..	0·8	..	31·5	0	28	2	1	1	0	0	0	8	18	2	0	0
Mahuva .	0830	9	1009·9	1008·9	..	28·3	21·0	15·3	17·4	49	..	1·3	..	8·3	0	0	29	11	2	1	1	0	2	3	9	1	0
	1730	"	1006 6	1005·6	..	31·5	23·4	18·8	21·7	49	..	1·4	..	12·1	0	0	30	0	0	0	5	16	9	0	0	0	0
Veraval .	0230	8	1008·4	1007·5	..	23·2	21·1	19·7	22·9	82	..	1·5	..	6·8	0	0	27	14	0	0	0	0	0	0	13	3	0
	0530	"	1008·3	1007·4	..	21·9	19·6	17·9	20.5	80	..	1·4	..	5·5	0	0	24	17	0	0	0	0	0	0	7	6	0
	0830	"	1010·3	1009·4	+0·2	25·1	21.2	18·5	21·3	68	..	2·0	+0·3	4·5	0	0	24	18	1	0	0	0	0	1	4	6	0
	1130	"	1010·5	1009·6	..	30.0	24·1	20·3	23·8	63	..	1·5	..	10·1	0	2	28	5	1	0	0	1	3	12	8	0	0
	1730	"	1007·4	1006·5	..	28·0	25·2	24·0	29·8	79	..	1·3	..	15·8	0	5	25	0	0	0	0	0	0	18	12	0	0
	2330	"	1009·5	1008·6	..	24·9	22·5	21·1	25·0	81	..	0·9	..	8·6	0	0	27	8	0	0	0	0	0	1	18	3	0
Konkan																											
Dahanu . .	0830	5	1009·9	1009·4	+0·1	28·0	22·8	20·2	23·7	63	−12	1·9	−0·5	5·2	0	0	25	2	1	6	11	3	1	1	0	5	0
	1730	"	1006·4	1005·9	..	30·1	24·7	22·1	26·6	63	..	2·2	..	19.2	0	13	17	5	0	0	0	0	0	15	10	0	0
Bombay (Santacruz).	0230	15	1008·2	1006·5	..	24·5	23·0	22·2	26·7	87	..	1·3	..	3·5	0	0	14	3	4	1	0	0	2	1	3	16	0
	0530	"	1008·2	1006·5	..	24·0	22·5	21.9	26 3	88	..	1·1	..	3·3	0	0	17	3	9	2	0	2	1	0	0	13	0
	0830	"	1010·0	1008·4	−0·4	28·2	23·8	21·6	25·8	68	−2	1·7	−0·6	6·7	0	0	27	4	4	2	5	3	0	2	7	3	0
	1130	"	1009.9	1008·3	..	31·6	25·2	22·1	26 6	58	..	1·3	..	15·4	0	2	28	0	0	0	0	0	4	15	11	0	0
	1730	"	1006·5	1004·9	..	30·3	24·4	21·4	25·5	60	..	2·0	..	19·6	0	15	15	1	0	0	0	0	1	4	24	0	0
	2330	"	1009·2	1007·5	..	25.7	23·3	22·2	26.7	81	..	0·9	..	3·1	0	0	17	2	3	0	0	0	3	1	8	13	0
Bombay . .	0830	11	1010·1	1008·9	−0·3	28·1	24·6	22·9	27·9	74	−1	2·0	−0·3	4·3	0	0	27	7	4	3	4	4	1	2	2	3	0
	1130	"	1010·2	1009·0	..	31·2	25·7	23·3	28·6	63	..	1·0	..	8 7	0	0	29	5	0	0	0	2	4	6	12	1	0
	1730	"	1006·7	1005·5	..	30·2	25·4	23.2	28·4	67	..	1·9	..	12·5	0	2	28	1	0	0	0	1	0	9	19	0	0
Alibag . . .	0830	7	1010·1	1009·3	−0·5	27·7	23·8	21·9	26·3	71	+2	1·0	−1·3	1·7	0	0	13	6	1	0	5	0	0	0	1	17	0

[R] Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level.	At station level	Departure from normal.	Mean Temperature in °C. Dry bulb	Wet bulb	Dew Point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas). Mean amount	Departure from normal.	Mean wind speed Km. per hour.	Wind speed, (Km.p.h.) 62 or more	20 to 61	1 to 19	No. of observations. Wind direction. N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(*Contd.*)																											
Harnai	0830	20	1009·8	1007·5	0	27·6	24·6	23·1	28·3	77	+2	3·6	+1·2	12·0	0	8	17	9	0	2	2	4	0	2	6	5	0
	1730	"	1006·9	1004·6	..	28·3	26·3	25·5	32·6	85	..	3·7	..	2·0	0	22	8	1	0	0	0	0	2	14	13	0	0
Ratnagiri	830	35	1010·2	1006·2	0	27·9	24·3	22·6	27·4	74	..	3·0	..	..	..	..	..	0	1	15	1	0	2	9	2	0	0
	1730	"	1006·8	1002·9	..	29·8	25·7	24·2	30·2	71	..	3·4	..	..	..	..	..	0	0	0	0	0	2	27	1	0	0
Devgarh	0830	36	1010·1	1006·1	0	27·6	25·4	24·3	30·4	83	+7	4·0	+0·4	9·5	0	2	26	5	4	4	4	2	0	3	6	2	0
	1730	"	1006·7	1002·7	..	30·3	27·2	26·0	33·6	78	..	2·5	..	25·6	0	21	9	0	0	0	0	0	2	8	20	0	0
Vengurla	0230	9	1008·0	1007·0	..	25·5	23·4	22·4	27·1	83	..	1·4	..	0·2	0	0	2	1	1	0	0	0	0	0	0	28	0
	0530	"	1008·3	1007·3	..	24·9	23·2	22·4	27·1	86	..	2·6	..	0·8	0	0	6	2	0	2	1	0	1	0	0	24	0
	0830	"	1010·5	1009·5	+0·1	27·8	24·2	22·5	27·3	73	+2	3·2	+0·3	1·8	0	0	13	5	1	2	1	0	0	3	1	17	0
	1130	"	1010·2	1009·2	..	31·5	25·5	22·7	27·6	60	.	1·7	..	6·1	0	0	30	0	0	0	0	0	17	10	3	0	0
	1730	"	1006·6	1005·6	..	30·4	24·9	22·3	26·9	63		1·9	.	9·0	0	0	30	2	0	0	0	0	4	17	7	0	0
	2330	"	1009·4	1008·4	..	2·71	24·1	22·6	27·4	77	..	1·4	..	3·2	0	0	16	7	1	0	0	0	1	0	7	14	0
Madhya Maharashtra																											
Nandurbar	0830	206	1008·7	985·7	..	29·7	20·9	15·0	17·0	43	.	1·1	..	10·8	0	0	30	0	0	1	0	1	16	10	2	0	0
	1730	"	1003·8	981·5	..	38·7	22·7	12·3	14·6	23	..	1·3	..	9·6	0	0	29	0	0	2	1	0	6	15	5	1	0
Jalgaon	0830	201	1008·8	986·4	0	29·7	18·1	8·0	10·7	28	−11	1·0	−0·4	15·6	0	7	23	1	0	2	1	1	7	14	4	0	0
	1730	"	1002·9	981·4	..	40·8	20·1	−0·1	6·1	8	..	1·7	..	18·3	0	13	17	3	0	0	0	1	3	14	9	0	0
Malegaon	0830	437	1009·3	960·9	−0·1	27·6	16·6	6·3	9·5	27	−11	1·5	+0·4	6·9	0	1	27	2	0	0	0	0	3	11	12	2	0
	1730	"	1002·5	956·2	..	38·7	19·7	2·7	7·4	13	.	2·7	..	14·0	0	4	26	12	2	0	0	1	0	4	11	0	0
Deolali Aerodrome	0830	571	1010·2	947·4	..	26·8	19·7	15·3	17·4	50	..	1·1	..	5·5	0	0	24	2	0	0	0	6	8	3	5	6	0
	1730	"	1004·1	943·4	..	36·0	21·7	13·2	15·2	27		2·0	..	15·4	0	2	28	2	0	0	1	0	3	9	15	0	0
Ahmednagar	0830	657	1008·9	937·2	−0·4	27·8	18·1	11·2	13·3	38	+7	2·3	+1·1	8·0	0	1	22	6	2	0	1	0	2	0	12	7	0
	1730	"	1001·6	932·7	..	37·4	21·0	10·2	12·4	21	..	2·6	..	7·2	0	0	27	9	2	0	0	0	1	6	9	3	0
Poona Aerodrome	0230	593	1008·0	942·4	..	23·9	17·7	13·5	15·5	53	..	1·3	..	3·9	0	1	13	0	0	0	0	0	0	7	7	16	0
	0530	"	1008·5	942·4	..	21·9	16·1	11·9	13·9	56		1·8	..	3·6	0	0	20	1	0	2	0	0	0	10	7	10	0
	0830	"	1009·6	944·5	..	26·5	18·0	12·1	14·1	42	..	2·0	..	6·7	0	1	23	0	0	2	0	0	1	14	7	6	0
	1130	"	1007·3	944·0	..	34·5	19·4	8·4	11·0	21	.	1·4	..	9·4	0	2	27	2	3	9	2	1	1	6	4	1	1
	1730	"	1002·9	939·9	..	35·2	20·2	9·5	11·9	24	..	3·2	..	26·2	0	21	8	1	1	1	0	1	0	10	15	1	0
	2330	"	1008·5	943·3	..	26·3	19·4	14·9	16·9	51	..	1·8	..	12·1	0	4	24	0	0	0	0	0	1	15	12	2	0
Poona	0530	559	1008·3	945·9	..	22·0	18·0	15·5	17·6	67	.	1·5	..	0·2	0	0	2	1	0	0	0	0	0	0	1	28	0
	0830	"	1009·3	947·8	−0·4	26·5	19·7	15·7	17·8	52	+2	1·5	+0·1	0·2	0	0	2	0	0	0	1	0	1	0	0	28	0
	1130	"	1007·0	947·3	..	35·1	22·0	14·7	16·7	30	..	1·1	..	4·5	0	0	18	4	3	3	1	0	2	3	2	12	0
	1730	"	1002·9	943·4	..	35·4	23·1	16·8	19·1	35		2·8	..	9·3	0	0	28	0	2	0	0	0	2	12	12	2	0
	2330	"	1008·2	946·8	..	26·4	20·5	17·1	19·5	57	..	1·3	..	0·8	0	0	5	0	0	0	0	0	3	1	1	25	0
Jeur	0830	521	1008·8	951·8	0	28·1	19·9	14·5	16·5	45	0	3·3	+1·0	7·7	0	0	28	2	0	3	2	0	3	5	13	2	0
	1730	"	1001·7	946·6	..	37·8	21·5	11·1	13·2	22	..	5·1	..	10·3	0	1	29	4	5	1	4	3	4	3	6	0	0
Baramati	0830	551	1008·9	948·8	+0·1	28·3	20·0	15·0	17·0	45	0	1·5	−0·4	5·9	0	0	24	4	2	1	2	1	0	7	7	6	0
	1730	"	1001·5	943·6	..	37·7	22·8	14·5	16·5	26	..	3·1	..	12·1	0	2	28	4	4	4	2	1	4	5	6	0	0
Sholapur	0530	479	1007·3	954·4	..	26·1	19·4	15·3	17·4	53	..	3·7	..	7·8	0	0	27	8	2	1	3	0	4	4	5	3	0
	0830	"	1009·0	956·5	+0·1	29·0	20·6	15·9	18·1	47	+9	3·0	+1·4	8·9	0	1	26	8	2	1	2	4	1	3	6	3	0
	1130	"	1007·0	955·8	..	35·9	22·6	15·1	17·1	31	..	0·2	..	13·7	0	5	25	10	3	1	5	2	5	3	1	0	0
	1730	"	1001·8	951·2	..	38·1	22·6	13·7	15·7	25		4·4	..	10·1	0	3	24	8	3	1	3	2	6	1	3	3	0
	2330	"	1006·8	954·6	..	30·3	20·4	14·3	16·3	40	..	4·3	..	12·2	0	4	25	8	5	3	1	5	3	2	2	1	0
Miraj	0830	554	1009·4	948·6	−0·2	26·3	21·0	18·0	20·6	62	0	3·0	+1·2	..	..	..	..	0	0	0	1	0	0	3	6	20	0
	1730	"	1002·5	943·7	..	36·1	22·0	13·4	15·4	29	..	4·1	..	..	..	..	..	1	0	1	1	0	2	7	5	13	0
Kolhapur	0530	570	1008·0	944·8	..	22·9	18·5	15·4	17·5	65	.	2·8	..	7·0	0	0	30	1	2	5	1	0	7	12	2	0	0
	0830		1009·3	946·8	−0·2	26·5	20·0	16·4	18·6	56	−10	2·8	+1·0	7·8	0	1	24	0	5	2	0	0	1	14	3	5	0
	1130	"	1007·1	946·2	..	34·1	20·9	12·4	14·4	29	..	1·6	..	11·2	0	2	28	3	6	6	1	1	2	9	2	0	0
	1730	"	1003·3	942·5	..	33·3	22·3	16·3	18·5	39	..	3·3	..	21·1	0	20	10	0	1	0	1	0	3	20	5	0	0
	2330	"	1008·5	945·8	..	25·6	20·3	17·1	19·5	62	..	2·2	..	9·2	0	28	2	1	1	1	0	4	5	16	2	0	0
Marathwada																											
Aurangabad	0830	581	1008·7	945·6	−0·3	30·2	18·4	9·7	12·0	30	−1	1·5	+0·1	5·9	0	1	21	5	3	2	1	0	1	7	3	8	0
	1730	"	1002·4	941·2	..	37·5	20·9	9·8	12·1	20	..	3·4	..	6·6	0	0	26	8	0	0	0	1	0	10	7	4	0
Aurangabad (Chikalthana)	0230	579	1006·7	943·2	..	26·5	16·9	9·3	11·7	37	..	1·1	..	6·9	0	0	20	0	0	1	0	0	0	9	10	10	0
	0530	"	1007·3	943·4	..	24·4	15·9	8·9	11·4	40	..	1·6	..	7·5	0	0	21	2	0	0	1	1	0	9	8	9	0
	1830	"	1008·1	945·3	..	30·1	18·5	10·1	12·3	32	..	1·1	..	8·5	0	2	21	7	0	2	1	0	0	6	7	7	0
	1130	"	1006·7	945·0	..	35·5	20·3	10·1	12·3	23	..	1·3	..	9·2	0	2	22	9	2	3	3	0	1	1	5	6	0
	1730	"	1001·9	940·8	..	36.6	20·9	10·1	12.3	21	..	3·2	..	11.2	0	1	27	11	1	1	0	0	0	5	10	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 61	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathawada—*Contd.*																											
Aurangabad (Chikalthan)—*Contd.*	2330	579	1006·9	943·9	..	28·8	17·5	8·9	11·4	31	..	1·8	..	11·7	0	2	23	10	0	2	1	0	0	0	12	5	0
Parbhani	0830	423	1008·8	962·4	+0.1	29·9	19·0	10·2	12·4	33	—8	2·8	+1·1	11·5	0	0	30	1	1	1	3	3	3	8	10	0	0
	1730	"	1002.1	957·2	..	38·7	20·9	6·8	9·9	15	..	4·0	..	10·6	0	2	27	3	5	5	2	3	1	5	5	1	0
Nander	0830	358	1008.7	969·2	..	29·6	20·5	14·1	16·1	42	..	0·7	..	3·6	0	0	23	0	2	0	2	2	7	5	5	7	0
	1730	"	1002·6	964·3	..	38·8	24·1	15·3	17·4	27	..	0·9	..	3·9	0	0	25	0	6	1	1	4	5	3	5	5	0
Bir	0830	519	1009·2	952·5	..	29·2	21·1	16·2	18·4	46	..	2·5	..	9·6	0	0	29	5	0	1	1	3	6	1	12	1	0
	1730	"	1002·4	947·6	..	37·9	23·1	15·7	17·8	27	..	3·9	..	8·5	0	0	27	2	5	1	0	1	3	6	9	3	0
Vidarabha																											
Gondia	0830	313	1008·5	974·1	+0.1	30·7	19·5	10.3	13·7	32	—7	1·7	—0·1	3·2	0	0	25	2	1	0	10	2	7	0	3	5	0
	1730	"	1002·6	969·1	..	38·9	20·6	5.8	9·4	16	..	2·4	..	2·3	0	0	25	6	4	0	2	1	4	0	8	5	0
Nagpur Sonegaon	0230	310	1005·4	970·9	..	27·2	17·4	8·9	11·9	35	..	2·1	..	3·9	0	0	20	7	1	1	0	1	3	2	5	10	0
	0530	"	1006·6	971·8	..	25·1	16·5	8·9	11·8	39	..	2·6	..	3·1	0	0	15	6	0	0	1	0	3	0	5	15	0
	0830	"	1008·1	974·0	0	31·4	18·9	8·2	11·7	27	—6	2·0	+0·2	7·6	0	1	24	5	7	4	1	0	4	0	4	5	0
	1130	"	1006·6	973·3	..	37·7	21·1	8·2	11·5	19	..	1·8	..	8·6	0	0	28	1	6	4	6	1	5	3	2	2	0
	1730	"	1001.9	968·8	..	39·1	20·9	6·3	9·9	15	..	3·8	..	6·9	0	1	22	2	2	1	2	3	7	2	4	7	1
	2330	"	1005·9	971·7	..	29·7	18·3	8·9	11·8	30	..	2·5	..	3·8	0	0	18	4	0	1	0	2	4	4	3	12	0
Amraoti	0830	370	1008·2	967·5	+0.1	30·5	19·4	11·0	13·6	33	+5	1·1	—0·4	12.9	0	8	22	5	3	4	3	3	9	1	2	0	0
	1730	"	1001·5	962·3	..	39·0	22·4	10·9	13·6	20	..	2·9	..	7·0	0	0	30	4	3	1	0	3	8	8	3	0	0
Akola Aerodrom	0530	309	1006·1	971·5	..	25·6	15·7	5·8	9·8	32	..	2·0	..	3·6	0	0	25	0	0	5	1	1	3	15	0	5	0
	2330	"	1005·4	971·5	..	31·4	18·0	5.9	9·8	22	..	2·3	..	4·4	0	2	25	2	1	1	2	1	4	11	5	3	0
Akola	0830	282	1008·2	977·0	—0.2	30·1	19.1	10·6	13·1	32	+4	2·0	+0·5	3·5	0	0	26	0	2	1	2	2	0	15	4	4	0
	1130	"	1006·8	976·4	..	37·6	22·1	11·5	13·9	22	..	1·3	..	3·6	0	0	28	2	1	7	1	0	2	13	2	2	0
Nellore	1730	"	1001·7	971·4	..	40·4	22·3	9·3	12·1	17	..	2·5	..	1·9	0	0	19	1	0	0	0	0	2	13	3	11	0
Bramhapuri	0830	229	1008·2	982·9	..	31·0	23·0	18·5	21·6	49	..	1·2	..	5·6	0	0	26	1	0	1	7	4	7	3	3	4	0
	1730	"	1002·4	977·9	..	39·6	25.4	17·8	20·8	29	..	3·0	..	5·7	0	0	29	3	2	2	2	5	7	6	2	1	0
Buldana	0830	650	1008·1	937·5	0	28·7	18·2	10·5	13·2	34	—4	0·9	—1·2	3·2	0	0	28	0	2	0	7	0	1	0	18	2	0
	1730	"	1002·1	933·8	..	36·6	21·5	11·7	14·5	24	..	2·1	..	3.5	0	0	29	0	4	0	4	0	5	0	16	1	0
Yeotmal	0830	451	1007·9	958·8	0	31.7	19·6	9·9	12·9	30	—4	0·8	—1·9	15·9	0	5	24	5	4	3	3	1	5	4	4	1	0
	1730	"	1002·0	954·2	..	37·8	20·8	8·2	10·7	19	..	3·2	..	11·9	0	2	26	7	2	2	2	4	2	4	5	2	0
Chanda	0830	193	1007·8	986·5	—0·6	31·8	22·3	16·6	19·3	41	+4	1·8	+0·1	5·9	0	0	30	1	0	3	7	10	4	2	3	0	0
	1730	"	1002·1	981·3	..	38·4	23·2	13·6	16·0	25	..	4·7	..	4·5	0	0	30	2	3	4	3	4	7	3	4	0	0
Pusad	0830	334	1008·6	971·8	..	30·2	19·6	12·2	14·2	34	..	1·5	..	3·6	0	0	18	0	1	0	2	1	4	3	7	12	0
	1730	"	1003·1	967·2	..	39·1	24·0	14·7	17·4	27	..	1·7	..	7·0	0	0	28	1	9	0	4	0	7	1	6	2	0
Sironcha	0830	123	1009·3	995·5	—0·4	30·7	23·3	19·3	22·7	52	—1	2·2	—0·4	5·0	0	0	28	2	0	1	12	9	3	1	0	2	0
	1730	"	1002·8	989·5	..	40·2	24·1	14·7	16·8	23	..	3·4	..	2·5	0	0	23	2	0	1	5	7	5	0	3	7	0
Coastal Andhra Pradesh—Kalinggapatam	0830	6	1009·1	1008·5	—0·3	29·7	..	..	..	..	..	1·7	—0·9	15·4	0	8	22	0	1	0	0	7	15	6	1	0	0
	1730	"	1006·0	1005·4	..	29·8	..	..	..	..	..	4·3	..	17·9	0	14	16	0	1	1	2	14	10	1	1	0	0
Vishakhapatnam	0230	3	1007·0	1006·6	..	27·5	25·2	24.2	30·2	83	..	2·0	..	6·1	0	0	18	0	0	0	0	1	10	7	0	12	0
	0530	"	1007·4	1007·0	..	26·7	24·6	23·7	29·3	84	..	2·7	..	4·0	0	0	12	0	0	0	0	0	9	3	0	18	0
	0830	"	1009·4	1009·0	—0·4	30·7	25·1	22·5	27·3	62	—10	1·5	—2·0	11·9	0	7	21	0	0	0	0	5	15	7	1	2	0
	1130	"	1008·7	1008·3	..	34·5	26·0	22·0	26·4	49	..	0·8	..	20·5	0	17	13	0	0	0	2	19	9	0	0	0	0
	1730	"	1006·0	1005·6	..	30·7	25·9	23·8	29·5	67	..	4·1	..	15·6	0	8	22	0	0	0	2	16	12	0	0	0	0
	2330	"	1008·2	1007·8	..	28·4	25·7	24·6	30·9	80	..	2·0	..	7·1	0	1	20	0	0	0	0	3	15	3	0	9	0
Kakinada	0830	8	1010·1	1009·1	—0·1	30·9	25·9	23·7	29·3	65	—8	2·9	—1·2	11·4	0	0	30	0	0	0	1	0	28	0	1	0	0
	1730	"	1005·7	1004·8	..	33·1	26·3	23·2	28·4	57	..	1·9	..	16 3	0	3	27	0	0	0	30	0	0	0	0	0	0
Nidadavole	0830	12	1010·0	1008·6	..	29·0	26·0	24·7	31·1	78	..	6·1	..	4·7	0	0	30	1	5	4	3	4	8	4	1	0	0
	1730	"	1005·6	1004·2	..	33·0	25·7	22·5	27·3	55	..	3·0	..	8·1	0	0	30	0	0	0	5	21	4	0	0	0	0
Rentachintala	0830	106	1009·0	997·2	..	31·1	25·2	22·2	26·7	61	+4	3.0	—1.4	4·1	0	0	29	1	2	0	6	13	7	0	0	1	0
	1730	"	1003·2	991·8	..	39·2	24·7	16·8	19·6	28	..	2·8	..	3·5	0	0	27	0	1	8	7	7	2	0	0	3	0
Gannavaram	0230	24	1007·3	1004·6	..	27·0	25·4	24·7	31.1	87	..	1·8	..	3·9	0	0	19	1	3	3	5	7	0	0	0	11	0
	0530	"	1007·6	1004·9	..	26·3	25·1	24·5	30·7	90	..	3·2	..	4·0	0	0	21	0	2	7	6	4	2	0	0	9	0
	0830	"	1009·9	1007·2	+0·3	30·0	26·2	24·6	30·9	73	+1	4·2	+0·3	9·9	0	2	26	0	0	3	4	13	6	1	1	2	0
	1130	"	1008·9	1006 3	..	35·1	26·4	22·5	27·3	49	..	1·9	..	9·4	0	2	28	0	0	0	7	15	6	1	1	0	0
	1730	"	1005·0	1002·4	..	35·6	26.2	21·8	26·1	46	..	1·9	..	15·9	0	7	23	0	0	0	11	18	1	0	0	0	0
	2330	"	1008·3	1005.6	..	28·1	25·8	24·8	31·3	83	..	1·3	..	7·6	0	0	28	0	2	1	6	17	2	0	0	2	0
Nagarjun Konda	0830	..	..		..	32·2	24·5	20·7	24·4	52	..	2·3	..	11·9	0	7	23	3	2	1	6	9	3	2	4	0	0
	1730	..	..	..	..	39·6	25·0	17·3	19·7	28	..	3·1	..	16·7	1	7	22	5	2	4	15	2	1	0	1	0	0
Masulipatam	0830	3	1009·8	1009·5	—0·4	29.8	26·2	24·6	30·9	74	—2	3·2	—0·2	4·5	0	0	30	0	0	0	2	26	1	0	1	0	0
	1730	"	1005·9	1005·6	..	30·3	26·5	24·9	31·5	73	..	1·1	..	4·2	0	0	30	0	0	0	2	28	0	0	0	0	0
Ongole	0830	12	1009·2	1007·9	..	30·8	27·1	25·6	32·8	74	..	2·2	..	4·0	0	0	26	1	2	3	16	2	1	0	1	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.*																											
Ongole—*Contd.*	1730	12	1004·9	1003·7	..	32.1	28·1	26·5	34·6	73	..	2·4	..	4·8	0	0	29	0	0	2	27	0	0	0	0	1	0
Nellore	0530	20	1007·1	1004 9	..	26·1	24·7	24·1	30·0	89	..	1·6	..	3·7	0	0	17	0	0	1	14	2	0	0	0	13	0
	0830	"	1009·3	1007·1	−0·1	30·5	25·7	23·5	28.9	67	−4	2.8	−0·2	8·5	0	0	30	0	0	0	24	6	0	0	0	0	0
	1130	"	1008·5	1006·3	..	35·9	25·8	20·9	24·7	42	..	2·5	..	7·1	0	0	29	1	0	3	16	5	1	2	1	1	0
	1730	"	1005·3	1003·1	..	32·3	26·5	23·9	29·7	62	..	2·4	..	11·2	0	2	28	0	0	13	16	1	0	0	0	0	0
Telangana	2330	"	1008·2	1006·0	..	28.1	25·7	24·7	31·1	82	..	1·2	..	3·3	0	0	20	0	0	3	15	2	0	0	0	10	0
Ramgundam	0830	156	1008·5	991·2	−0·5	30·8	23·1	18·8	21·7	50	0	1·7	−1·0	6·2	0	1	26	1	0	0	5	15	3	3	0	3	0
	1730	"	1002.6	985·8	..	40·1	23·5	13·4	15·4	21	..	3·1	..	4·2	0	1	23	4	1	3	1	11	1	2	1	6	0
Nizamabad	0830	381	1008·3	966·6	−0·1	31·1	20·4	12.8	14·8	35	−7	2·0	+0·1	1·5	0	0	17	0	0	1	3	3	2	4	4	13	0
	1730	"	1002·3	961·5	..	38·8	21.9	9·7	12.0	19	..	3·4	..	1·4	0	0	14	2	2	1	1	5	0	1	2	16	0
Hanamkonda	0830	269	1008·8	979 1	−0·3	29·8	24·6	22·1	26·6	64	+6	1·5	−1·1	3·5	0	0	28	2	1	0	9	14	1	0	1	2	0
	1730	"	1003·3	974.6	..	38·8	25·6	18·7	21·6	32	..	2·1	..	2·1	0	0	25	1	0	2	6	13	3	0	0	5	0
Hakimpet (Aerodrome)	0530	613	1007·0	939·9	..	25·6	21·0	18·6	21·4	66	..	3·9	..	6·6	0	2	26	2	2	2	14	3	3	1	1	2	0
	0830	"	1008·2	941·6	..	28·7	22·1	18·7	21·6	56	..	2·8	..	9·2	0	2	26	1	2	4	4	3	7	5	2	2	0
	1130	"	1003·7	941·3	..	33·8	23·1	17·6	20·1	40	..	2·2	..	8·8	0	1	29	1	3	0	9	4	7	3	3	0	0
	1730	"	1003·0	938·1	..	35·1	22·8	16·2	18·4	35	..	4·1	..	7·1	0	0	29	2	3	4	11	3	2	2	2	1	0
Bhadrachalam	0830	111	1009·8	997·3	−0·5	30·3	24·8	22·4	27·1	63	−5	5·1	+1·5	4·2	0	0	29	7	2	5	2	1	4	7	1	1	0
	1730	"	1003.3	991·3	.	39·3	24·3	25·8	17·9	26	..	3·5	..	3·7	0	0	30	2	7	4	0	1	6	6	4	0	0
Hyderabad (Begumpet)	0230	545	1006·2	946·6	..	27·1	19.9	15·8	17·9	51	..	2·9	..	6.3	0	2	19	2	2	3	10	4	0	0	0	9	0
	0530	"	1007·0	947·1	..	25·6	20·1	17·0	19·4	60	..	3·5	..	5·3	0	1	17	2	2	3	6	2	0	0	3	12	0
	0830	"	1008·8	949·5	+0·7	29·2	21·1	16·6	18·9	48	−7	2·9	+0·8	8·9	0	4	21	3	0	4	2	4	5	4	2	5	1
	1130	"	1007·1	948·8	..	34·6	21·6	14·2	16·2	30	..	2·0	..	8 5	0	1	26	1	2	0	8	3	3	6	3	3	1
	1730	"	1002·5	944·8	..	35·8	20·6	10·8	12·9	24	..	4·7	..	11·1	0	3	25	2	0	7	9	6	1	1	2	2	0
	2330	"	1006·6	947·6	..	30·0	20·4	14·8	16·8	41	..	3·4	..	9·3	0	3	22	4	3	2	11	4	0	0	1	5	0
Khammam	0830	112	1009.6	997·1	..	29·6	25·2	23·2	23·4	69	..	4·4	..	7·3	0	0	30	2	1	4	11	12	0	0	0	0	0
	1730	"	1002·6	991·5	..	38·7	24·1	17·5	20·0	29	..	3·1	..	2·6	0	0	18	0	0	4	6	8	0	0	0	12	0
Mahbubnagar	0830	505	1003·5	953·4	..	29·9	21·8	17·5	20·0	48	..	2·9	..	8·7	0	1	28	0	6	3	2	2	10	1	5	1	0
	1730	"	1002·4	948·8	..	36·4	21·6	12·8	14·8	26	..	4·0	..	5·7	0	0	30	1	4	7	3	6	4	2	3	0	0
Rayalaseema																											
Kurnool	0830	281	1009·2	978·2	+0·6	31·1	24·0	20·5	24·1	54	+3	2·1	+0·2	3·2	0	0	26	0	2	8	4	3	2	6	1	4	0
	1730	"	1002·9	972·8	..	38·9	24·5	16·5	19·0	28	..	3·4	..	2·7	0	0	23	2	1	12	6	0	1	0	1	7	0
Anantapur	0530	350	1006·8	968·0	..	27·4	20·9	16·8	19·1	54	..	3·3	..	7·8	0	4	18	0	0	2	4	0	3	11	2	8	0
	0830	"	1008·6	970·2	+0.1	30·1	22·2	17·8	20·4	49	−4	2·3	0	9·3	0	1	24	0	0	3	4	2	4	10	2	5	0
	1130	"	1007·3	969·4	..	35.1	22·5	14·7	16·7	30	..	2·0	..	8·0	0	0	29	1	2	5	4	4	6	6	1	1	0
	1730	"	1002·1	964.8	..	38·2	22·1	11·1	13·2	20	..	3·5	..	9·6	0	3	25	1	9	11	5	1	0	0	1	2	0
	2330	"	1006·4	968·2	..	31·8	21·0	13·8	15·8	35	..	2·9	..	16·5	0	11	18	1	0	14	4	1	6	3	0	1	0
Cuddapah	0830	130	1009·3	994·9	+0·2	32·1	25·3	22·0	26·4	56	+1	1·8	−0.4	1·6	0	0	11	0	0	7	0	0	0	0	4	19	0
	1730	"	1003·2	989·2	..	39·1	28·0	23·2	28·4	41	..	2·6	..	7·3	0	0	26	0	7	17	2	0	0	0	0	4	0
Arogyavaram	0830	701	1009.2	933.0	..	26.7	21·2	18·4	21·1	62	.	4·0	..	5·9	0	0	27	3	0	3	3	15	0	2	1	3	0
	1730	"	1002.8	928.8	..	34·4	20·4	11·3	13·4	26	..	4·5	..	9.5	0	0	30	2	2	18	7	1	0	0	0	0	0
Madras state																											
Madras	0830	6	1009·8	1009.1	..	29·6	25·9	24·3	30·4	74	..	3·3	..	8·7	0	0	29	0	0	0	4	6	10	7	2	1	0
Madras (Minambakkam)	0230	16	1007·6	1005·9	..	27·3	25·6	24·9	31·5	87	..	2·2	..	5.1	0	0	24	0	0	2	3	9	7	3	0	6	0
	0530	"	1008·1	1006·3	..	26·6	25·2	24·7	31·1	89	..	3·4	..	3·7	0	0	21	0	0	0	2	8	4	5	2	9	0
	0830	"	1009·9	1008·2	+0·1	30·1	26.0	24·2	30·2	71	0	3·8	+0.4	11·0	0	2	27	0	0	2	4	12	8	2	1	1	0
	1130	"	1009·1	1007·3	..	34·3	26·1	22.5	27·3	51	..	3·6	..	12·1	0	3	27	0	0	5	7	12	5	0	0	0	1
	1730	"	1006·0	1004·3	..	32.1	26·4	23·8	29·5	62	..	2·7	..	14·9	0	6	24	0	0	8	14	8	0	0	0	0	0
	2330	"	1008·8	1007·1	..	28·1	26·0	25·1	31·9	84	..	1·8	..	8·9	0	1	27	0	0	4	10	14	0	0	0	2	0
Vellore	0530	214	1008·1	984·0	..	25·7	23·5	22·5	27·3	83	..	3·3	..	0·9	0	0	9	0	0	0	1	8	0	0	0	21	0
	0830	"	1009·5	985·6	−0·1	28·7	24·2	22·0	26·4	67	−3	2·8	+0.6	1·1	0	0	13	0	1	0	2	6	4	0	0	17	0
	1130	"	1008·5	985·0	..	33·8	24·9	20·5	24·1	46	..	3·4	..	2·1	0	0	28	0	1	0	6	8	10	3	0	2	0
	1730	"	1004·0	980·8	..	35·8	23·1	15·6	17·7	31	..	2·9	..	5·0	0	0	30	0	0	6	23	1	0	0	0	0	0
	2330	"	1008·8	985·0	..	29·1	24·1	21·7	25·9	65	..	2·8	..	8·3	0	0	27	0	0	0	14	13	0	0	0	3	0
Tambaram (Aerodrome)	0830	29	1009·4	1006·2	..	30·2	27·2	25·9	33·4	78	..	4·1	..	13.1	0	2	28	0	0	2	1	9	16	2	0	0	0
	1730	"	1005·7	1002·5	..	32·7	27·5	25·3	32·2	66	..	2·4	..	19·7	0	9	21	0	0	0	19	9	2	0	0	0	0
Tiruppattur	0830	390	1009·2	966·2	..	27·6	24.2	22·6	27·4	73	..	2.8	..	2·5	0	0	28	12	3	4	2	4	0	3	0	2	0
	1730	"	1003·5	961·5	..	33·6	25·3	21·2	25·2	50	..	3·6	..	7·3	0	0	30	11	3	6	2	8	0	0	0	0	0
Cuddalore	0530	12	1007 7	1006·4	..	26·5	25·4	24·9	31·5	91	..	4·2	..	1.7	0	0	14	0	0	0	4	5	2	1	2	16	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okas): Mean amount	Cloud amount (Okas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.* Cuddalore—*contd.*	0830	,,	1009·9	1008·6	−0·2	29·6	26·3	24·8	31·3	76	+1	4·8	+1·4	4·0	0	0	28	1	2	0	13	7	2	0	3	2	0
	1130	,,	1009·4	1008·1	.	32·5	26·6	24·4	30·5	62	..	4·6	..	8·4	0	0	30	0	3	6	17	2	2	0	0	0	0
	1730	,,	1005·9	1004·5	..	30·6	26·8	25·2	32·1	73	..	4·5	..	10·0	0	0	30	0	1	5	24	0	0	0	0	0	0
	2330	,,	1008·7	1007·4	..	28·5	26·3	25·3	32·2	83	..	3·6	..	7·5	0	1	29	0	0	4	23	3	0	0	0	0	0
Kallakkurichchi	0830	127	1009·6	995.4	..	29·6	26·1	24·6	30·9	75	..	2·9	..	2·7	0	0	12	0	1	1	2	8	0	0	0	18	0
	1730	,,	1004·0	990·2	..	36 5	26·7	22·1	26·6	45	..	2·7	..	10·2	0	1	29	0	1	23	5	1	0	0	0	0	0
Salem	0530	278	1007·9	976·9	..	26·2	23·2	21·7	25·9	77	..	5.3	..	2·1	0	0	16	0	5	8	0	0	2	1	0	14	0
	0830	,,	1009·6	978·7	−0·2	29·3	24·2	21·7	25·9	64	−7	5·2	+2·5	3·1	0	0	21	0	6	6	1	5	2	1	0	9	0
	1130	,,	1007·9	977·7	..	33·9	24·5	19·7	22·9	44	..	5·6	..	5·0	0	0	24	0	2	3	3	6	0	4	0	6	0
	1730	,,	1003·3	973·3	..	35·3	23·4	16·7	18·5	35	..	5·4	..	4·9	0	0	26	0	5	12	4	2	0	2	1	4	0
	2330	,,	1008·2	977·4	..	29·3	23·8	21·1	25·0	62	..	3·2	..	8·3	0	2	20	0	6	16	0	0	0	0	0	8	0
Coimbatore (Pilamedu)	0530	399	1008·3	963·7	..	24·4	23·4	22·9	27·9	91	..	4·3	..	9·8	0	3	25	0	6	0	0	5	15	2	0	2	0
	0830	,,	1009·8	965·7	..	27·3	24·6	23·2	28·4	78	..	3·9	..	11·1	0	3	24	1	5	3	0	4	10	1	3	8	0
	1130	,,	1008·4	965·0	..	32·0	25·2	22·0	26·4	50	..	4·6	..	9·9	0	2	28	0	4	7	1	6	6	2	3	0	1
	1730	,,	1004.0	961·0	..	33·4	24·6	19·7	22·9	48	..	5·3	..	19·6	0	16	13	0	4	10	1	2	10	2	0	1	0
	2330	,,	1008·7	964·4	..	26·4	24·2	23·2	28·4	83	..	3·7	..	18·7	0	17	12	0	0	0	4	12	13	0	0	1	0
Coimbatore	0830	409	1009·9	964·7	+0.2	27·5	23·9	22·2	26·7	73	−4	5·0	+1·9	12·3	0	0	30	0	2	3	6	11	8	0	0	0	0
	1730	,,	1003·9	959·9	..	33·6	23·7	18·1	20·8	43	..	5·9	..	14·7	0	5	25	0	1	3	5	9	9	2	1	0	0
Nagapattinam	0830	9	1010·0	1009·0	0	30·5	26·6	25·0	31·7	72	−1	4·5	+0.7	8·8	0	2	27	0	5	4	7	6	6	1	0	1	0
	1730	,,	1006·0	1004·9	..	31·3	27·0	25·3	32·2	71	..	4·1	..	20·4	0	23	7	0	2	9	17	2	0	0	0	0	0
Tiruchchirappalli	0230	88	1007.7	997·8	..	27·7	24·9	23·6	29·1	79	..	3·0	..	4·7	0	1	18	0	3	9	3	3	1	0	0	11	0
	0530	,,	1008·1	998·2	..	26·8	24·6	23·6	29·1	83	..	3·6	..	4·1	0	0	19	1	5	5	1	4	0	1	2	11	0
	0830	,,	1010·0	1000·2	−0.2	29·7	25·4	23·5	28·9	70	−3	4·0	+1·0	8·2	0	1	25	0	5	2	3	4	1	9	2	4	0
	1130	,,	1009·0	999·3	..	33·9	25·4	21·3	25·3	49	..	4·3	..	9·9	0	3	26	3	7	3	3	2	4	5	2	1	0
	1730	,,	1004·7	995·1	..	35·7	25·0	19·4	22·5	40	..	4·6	..	15·7	0	12	18	0	3	15	12	0	0	0	0	0	0
	2330	,,	1009.1	999·2	..	29·0	25·2	23·5	28·9	72	..	2·8	..	13.6	0	2	28	0	0	6	12	10	2	0	0	0	0
Vedaranniyam	0830	4	1010 2	1009·7	..	31.0	27·9	26·7	35·0	78	..	4·6	..	9·4	0	1	29	0	6	0	16	3	5	0	0	0	0
	1730	,,	1006 3	1005·8	..	31·1	27·9	26·5	34·6	78	..	4·2	..	10·0	0	1	29	0	4	4	13	8	1	0	0	0	0
Atirampattinam	0830	6	1009·6	1008·9	..	30·3	26·7	25·2	32·1	74	..	4·0	..	8·1	0	1	27	1	7	2	4	8	2	1	3	2	0
	1730	,,	1005·8	1005·1	..	31·6	26·7	24·7	31·1	67	..	3·5	..	22·0	0	19	11	0	0	11	8	10	1	0	0	0	0
Madurai	0830	133	1009·4	994·5	−0·6	30·1	25·3	23·1	28·3	66	−2	6·4	+2.3	3·8	0	0	28	7	9	1	4	1	0	0	6	2	0
	1730	,,	1004·6	990·0	..	34·7	24·3	18·8	21·7	41	..	6·5	..	9·1	0	3	27	0	6	3	17	3	1	0	0	0	0
Madurai (Aerodrome)	0530	131	1007·7	992.9	..	26·4	24·5	23·6	29·1	85	..	4·5	..	2·2	0	0	15	1	8	6	0	0	0	0	0	15	0
	0830	,,	1009·5	994·9	..	29·9	25·2	23·1	28·3	68	..	4·9	..	6·2	0	0	27	7	14	5	1	0	0	0	0	3	0
	1130	,,	1008·7	994.2	..	33·9	25·1	20·9	24·7	47	..	5·2	..	4·2	0	0	16	3	3	7	1	1	0	0	0	14	1
	1730	,,	1004·6	990.2	..	34·7	24·4	19·0	22·0	42	..	5·9	..	11·1	0	5	24	0	2	15	9	2	1	0	0	1	0
Tondi	0830	5	1009·9	1009·3	..	29·5	26·9	25·8	33·2	80	..	5·7	..	1·7	0	0	7	0	3	2	2	0	0	0	0	23	0
	1730	,,	1006·1	1005·5	..	30·8	27·9	26·8	35·2	80	..	4·9	..	14·7	0	9	20	0	1	6	14	8	0	0	0	1	0
Pamban	0830	11	1009·5	1008·2	−0·3	29·7	27·3	26·3	34·2	82	+6	4·4	+1·6	5·7	0	0	20	0	0	6	5	5	4	0	0	10	0
	1730	,,	1006·2	1004·9	..	30·7	28·0	26·9	35·4	80	..	3·7	..	5·5	0	0	25	2	4	1	3	13	2	0	0	5	0
Tuticorin	0830	14	1009 9	1009.5	−0·4	29·8	26·3	24·9	31.5	75	+1	5·4	+2·0	9·0	0	2	27	5	5	1	1	0	2	6	9	1	0
	1730	,,	1006·1	1005·7	..	31·2	26·8	24·9	31·5	70	..	5·1	..	20·9	0	18	12	0	1	3	15	9	1	1	0	0	0
Palayankottai	0830	51	1009·8	1004·1	−0·2	30·0	25·0	22·7	27·6	66	−3	5·0	+1·2	1·7	0	0	13	7	0	0	0	0	0	4	2	17	0
	1730	,,	1005·6	999·9	..	32·1	25·6	22·6	27·4	58	..	5·5	..	7·1	0	1	23	3	1	8	6	3	0	3	0	6	0
Kanniyakumari	0830	37	1009·4	1005·3	..	29·1	25·3	23·7	29·3	73	..	4·7	..	14·1	0	12	17	2	6	1	1	1	0	11	7	1	0
	1730	,,	1006 6	1002·5	..	30·2	26·4	24·9	31·5	73	..	5·2	..	16·8	0	11	19	0	1	4	1	1	7	14	2	0	0
Coastal Mysore Karwar	0830	4	1010·0	1009·5	−0·2	28·1	25·3	23·9	29·7	77	+1	3·5	+0·2	3·8	0	0	22	2	5	1	0	1	4	1	8	8	0
	1730	,,	1006·9	1006·3	..	29·9	26·2	24·7	31·1	74	..	1·6	..	15·5	0	10	20	0	0	0	0	0	1	3	26	0	0
Honavar	0830	26	1010.2	1007·3	−0·9	27·5	24·5	23·1	28·3	77	+1	5·3	+1·1	2·9	0	0	27	5	3	19	0	0	0	0	0	3	0
	1730	,,	1006·8	1003·9	..	30·5	25·8	23·7	29·3	67	..	4·2	..	8·5	0	0	30	0	0	0	0	0	11	13	6	0	0
Mangalore (Bajpe)	0230	102	1008·3	996·8	..	26·3	24·2	23·3	28·6	84	..	3·6	..	2·3	0	0	11	2	0	4	2	0	0	0	3	19	0
	0530	,,	1008·3	996·8	..	25·8	24·1	23·3	28·6	86	..	3·8	..	2·2	0	0	13	1	1	7	3	0	0	0	1	17	0
	0830	,,	1010·2	998·7	..	28·3	24·8	23·1	28·3	74	..	3·7	..	3·1	0	0	19	0	6	7	6	0	0	0	0	11	0
	1130	,,	1009·6	998·4	..	32·3	25·7	22·7	27·6	57	..	4·0	..	8.0	0	0	30	2	0	2	1	2	5	12	6	0	0
	1730	,,	1006·4	995·1	..	30·6	25·5	23·2	28·4	65	..	4·1	..	14·1	0	2	28	0	0	0	0	0	1	18	11	0	0
	2330	,,	1009·5	998·1	..	27·1	24·6	23·4	28·8	81	.	3·9	..	3.8	0	0	19	1	1	3	2	1	1	2	8	11	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore —*contd.*																											
Mangalore	0830	22	1010·1	1007·6	−0·3	29·5	25·2	23·3	28·6	70	−1	4·3	+0·8	3·0	0	0	30	5	9	9	4	0	0	0	3	0	0
	1730	"	1006·5	1004·1	..	31·1	26·0	23·7	29·3	65	..	4·6	..	8·2	0	0	30	5	0	1	0	0	1	11	12	0	0
Interior Mysore (north)																											
Bidar	0830	664	1007·9	935·9	..	28·5	19·9	14·6	16·6	45	0	3·0	+1·2	14·8	0	9	21	0	1	1	6	0	15	0	7	0	0
	1730	"	1001·3	931·4	..	35·3	20·9	11·9	13·9	26	..	5 0	..	11.7	0	6	24	0	13	0	8	0	5	0	4	0	0
Gulburga . .	0830	458	1008·5	958·6	+0·4	29·6	20·6	14·9	16·9	44	−1	2·8	+1·4	11·2	0	1	27	6	3	6	2	3	1	5	2	2	0
	1730	"	1002·0	953·4	..	37 6	21·1	10·3	12·5	21	..	4·9	..	11·0	0	4	24	5	2	3	4	5	4	3	2	2	0
Bijapur . .	0830	594	1009·2	944·1	+0.1	26·7	20·0	15·6	17·7	52	+1	3·8	+2·2	5·7	0	0	28	6	3	0	0	2	5	7	5	2	0
	1730	"	1001·8	939·2	..	36·5	21·9	13·0	15·0	28	..	4·5	..	2·6	0	0	29	8	1	4	5	2	3	3	3	1	0
Raichur . .	0830	400	1008·5	964·6	−0·1	30·1	23·7	20·5	24·1	57	+6	3·5	+1·8	7.3	0	0	29	4	1	1	10	4	5	2	1	1	1
	1730	"	1002·3	959·9	..	37·8	25·0	18·1	20·8	33	..	4·7	..	5·1	0	0	27	1	10	1	12	0	2	0	1	3	0
Belgaum. . .	0830	753	1009·6	927·7	+0·1	25·3	19·9	16·8	19·1	61	−6	1·8	0	4·5	0	0	28	2	5	4	0	4	3	8	2	2	0
	1730	"	1003·4	923·4	..	30·9	22·5	18·2	20·9	49	..	3·6	..	10·2	0	1	29	0	0	1	0	0	0	19	9	0	1
Belgaum (Samara)	0530	747	1008·5	926·5	..	22·3	18·6	16·2	18·4	71	..	2·8	..	6·8	0	0	21	0	3	4	2	2	2	6	2	9	0
	0830	"	1009·2	928·1	..	25·7	19·7	16·0	18·2	58	..	2·6	..	8·0	0	0	27	3	7	1	1	1	4	10	0	3	0
	1130	"	1007·3	927·8	..	32·1	19·7	11·3	13·4	31	..	1·7	..	10·6	0	0	28	6	6	5	3	1	0	3	4	2	0
	1730	"	1003·7	924·3	..	31·6	21·8	16·2	18·4	42	..	4·3	..	15·2	0	5	23	0	0	1	1	3	1	18	4	2	0
Gadag . . .	0530	650	1008·3	936·6	..	23·4	21·5	20·6	24·3	85	..	3·3	..	6·4	0	2	15	0	0	0	1	0	7	9	0	13	0
	0830	"	1009·3	938·3	−0·3	26·7	22·1	19·8	23·1	66	−4	2·8	+1·0	4·9	0	0	17	1	0	0	0	0	12	2	2	13	0
	1130	"	1007·2	938·0	..	33·6	23·5	18·4	21·1	42	..	1·4	..	8·0	0	0	29	2	3	6	4	0	2	4	8	1	0
	1730	"	1002·4	933·9	..	35·4	23·6	17·5	20·0	36	..	5·0	..	5·7	0	1	18	1	5	6	2	0	3	1	1	11	0
Interior Mysore South	2330	"	1008·2	937·2	..	26·2	22·6	20·9	24·7	74	..	3·5	..	11·4	0	6	21	0	0	0	2	1	5	17	2	3	0
Bellary	0830	449	1008·3	959·0	−0·4	29·6	23·3	19·8	23·1	57	+7	1·8	−0·3	2·9	0	0	16	0	2	0	5	0	4	0	5	14	0
	1730	"	1002·4	954·4	..	36·4	24·4	17·9	20·5	36	..	4·5	..	5·1	0	0	27	0	3	0	14	1	7	0	2	3	0
Chitradurga .	0830	733	1008·7	929·0	−0·5	25·8	21·8	19·8	23·1	70	+8	3·5	+1·1	3·4	0	0	27	0	0	4	0	0	3	19	1	3	0
	1730	"	1002·1	924·8	..	33.9	22·2	15·8	17.9	36	..	4·8	..	4·1	0	0	30	0	3	6	2	0	0	18	1	0	0
Shimoga . .	0830	571	1009·5	946·7	−0·3	25·9	22·3	20·6	24·3	73	−2	7·5	+4·4	3·4	0	0	22	1	0	1	2	2	8	4	8	4	0
	1730	"	1003·0	942·0	..	32 3	22·6	17·4	19·9	45	..	7·7	..	5·1	0	0	24	1	2	0	3	4	9	0	5	6	0
Bal chonnur . .	0830	890	..	..	..	21·1	20·3	19·8	23·1	93	+7	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan . . .	0830	960	1510·2	905·8	..	22·9	20.7	19·6	22·8	83	+12	3·6	+0·9	2·9	0	0	27	1	0	0	1	0	6	15	4	3	0
	1730	"	1486·5	902·2	..	29·0	21·4	17.4	19·9	51	..	6·5	..	4·6	0	0	27	0	0	2	7	2	3	11	2	3	0
Bangalore . .	0230	921	1492·6	908·0	..	23·1	20·1	18·4	21·1	75	..	2·5	..	6·5	0	0	27	0	0	5	7	1	7	7	0	3	0
	0830	"	1515·5	910·1	+0·1	24·6	21·1	19·4	22·5	73	+4	3·9	+1·3	7·0	0	0	28	0	1	2	3	0	14	6	1	2	1
	1130	"	1522·5	909·7	..	29·8	21·5	17·0	19·4	47	..	3·3	..	7·9	0	1	28	0	1	3	8	2	6	6	3	1	0
	1730	"	1487·9	905·9	..	31·5	20·5	13·8	15 8	37	..	5·7	..	7·5	0	0	29	1	5	12	9	0	0	2	0	1	0
Bangalore Aerodrome	0530	897	1492·1	910·8	..	22·1	20·9	20·3	23.8	90	..	3·6	..	5·3	0	0	18	0	0	2	3	0	9	4	0	12	0
	0830	"	1514·3	912·6	..	25·0	22·2	20·9	24·7	79	..	4·1	..	10·6	0	1	23	0	0	1	3	6	6	8	0	6	0
	1130	"	1522·0	912·1	..	30·4	23·4	20·2	23·4	55	..	3·9	..	7·6	0	0	19	0	0	2	4	4	4	4	1	11	0
	1730	"	1488·1	908·3	..	32·2	22·9	17·9	20·5	43	..	5·7	..	12·6	0	2	25	0	3	18	3	1	0	2	0	3	0
	2330	"	1508·6	911·7	..	25·5	21·5	19·4	22·5	70	..	3·1	..	10·0	0	0	26	0	0	7	7	2	4	5	1	4	0
Mysore . .	0830	767	1009·9	926·1	−0·3	24·5	21·5	20·1	23·5	77	+5	4·1	+0·1	3·5	0	0	27	0	1	8	3	1	7	4	3	3	0
	1730	"	1004·0	922·9	..	32·8	21·4	14·7	16·7	35	..	4·6	..	4·7	0	1	28	0	4	4	0	2	8	9	2	1	0
Kerala																											
Calicut . .	0530	5	1008·5	1007·9	..	26·8	24·8	24·0	29·8	85	..	3·9	..	6·3	0	0	28	2	16	10	0	0	0	0	0	2	0
	0830	"	1010·2	1009·6	−0·1	29·5	25·6	24·0	29·8	73	−4	3·6	−0·3	5·6	0	0	30	7	4	5	2	0	1	1	5	5	0
	1130	"	1010·2	1009·6	..	32·0	26·9	24·7	31·1	65	..	3·3	..	14·8	0	5	25	2	0	1	0	0	3	19	5	0	0
	1730	"	1006·7	1006·1	..	31·1	26·9	25·1	31·9	71	..	4·4	..	18·7	0	17	13	1	1	0	0	0	0	10	18	0	0
	2330	"	1009·8	1009·2	..	28·6	25·8	24·5	30·7	79	..	4·7	..	10·6	0	5	25	5	7	2	0	0	0	2	14	0	0
Palghat . .	0830	97	1010·0	999·1	..	29·1	25·9	24·5	30·7	77	..	5·1	..	7·1	0	0	25	0	0	4	0	0	3	18	0	5	0
	1730	"	1005·4	994·6	..	32 8	26·1	22·9	27·9	58	..	6·2	..	13·1	0	3	27	0	1	3	1	0	5	18	2	0	0
Fort Cochin . .	0830	3	1010·2	1009·9	−0·2	28·8	26·2	25·2	32·1	81	+6	6·5	+2·7	6·3	0	0	29	8	7	1	1	0	0	3	9	1	0
	1730	"	1006·4	1006·1	..	30·2	26·7	25·2	32·1	75	..	6·7	..	11·5	0	0	30	0	0	1	1	1	0	12	15	0	0
Cochin (Nava' Air Station).	0230	3	1008·7	1008·4	..	27·0	25·1	24·4	30·5	86	..	5·2	..	4·2	0	1	21	1	2	11	2	1	1	1	3	8	0
	0530	"	1008·6	1008·3	..	26.3	24·9	24.2	30·2	88	..	5.5	..	2·5	0	0	20	3	3	12	1	0	0	0	1	10	0
	0830	"	1010·2	1009·9	..	29·1	25·8	24·3	30·4	76	..	5.3	..	3·7	0	0	26	7	5	14	0	0	0	0	0	4	0
	1130	"	1010·1	1009·8	..	31·9	26·6	24·3	30·4	64	..	5·7	..	13·8	0	3	26	0	0	0	0	0	1	16	12	1	0
	1730	"	1006·8	1006·5	..	30·8	26·4	24·5	30·7	70	..	6·5	..	18·1	0	8	22	0	0	1	0	1	2	16	10	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Cochin (Naval Air-Station)—*contd.*	2330	3	1010·0	1009·7	..	28·2	25·5	24·4	30·5	80	..	5·4	..	8·1	0	1	26	0	2	6	5	0	1	3	10	3	0
Alleppy	0830	4	1009·9	1009·5	−0·4	29·8	26·9	25·7	33·0	79	+1	5·5	+0·1	4·6	0	0	30	2	8	10	7	0	1	0	2	0	0
	1730	,,	1006·4	1006·0	..	31·3	27·5	26·0	33·6	74	..	5·6	..	18·7	0	17	13	0	0	0	1	0	0	2	27	0	0
Punalur	0830	34	1009·7	1005·8	..	27·3	25·1	24·2	30·2	83	..	5·1	..	0·7	0	0	7	0	1	2	2	1	1	0	0	23	0
	1730	,,	1006·4	1002·6	+0.5	31·5	26·2	23·9	29·7	64	..	6·1	..	5·0	0	0	30	1	1	1	4	1	6	0	16	0	0
Trivandrum	0230	64	1007·9	1000·7	..	26·6	24·9	24·2	30·2	87	..	3·8	..	4·4	0	0	26	12	5	1	0	0	0	1	7	4	0
	0530	,,	1008·2	1000·9	..	26·0	24·7	24·1	30·0	89	..	4·3	..	5·3	0	0	28	14	8	1	0	0	0	1	4	2	0
	0830	,,	1010·0	1002·8	−0·1	28·5	25·5	24·2	30·2	78	−1	4·9	+1·0	4·8	0	0	29	8	2	2	1	0	0	0	16	1	0
	1130	,,	1009·5	1002·3	..	31.5	25·9	23·4	28·8	63	..	5·9	..	9·2	0	3	27	2	1	0	1	0	4	13	9	0	0
	1730	,,	1006·7	999·5	..	29·8	25·9	24·2	30·2	72	..	5·8	..	8·9	0	2	27	1	0	0	0	0	7	8	13	1	0
	2330	,,	1009·7	1002·4	..	27·3	25·3	24·3	30·4	84	..	5.0	..	4·2	0	0	25	6	9	0	0	0	0	1	9	5	0
Trivendrum (Aerodrome)	0830	8	1010·0	1009·1	..	29·4	25·8	24·3	30·4	74	..	5·3	..	5·3	0	0	26	6	4	2	1	6	0	1	12	4	0
Arabian sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
Hill Stations excluding Kashmir	2330	,,																									
Dalhousie	0830	1959	1443·0	800·1	+0·5	13·7	−8·9	4·4	8·4	56	+1	..	..	5·0	0	0	20	0	11	5	4	0	0	0	0	10	0
	1730	,,	1537·0	800·0	..	16·3	10·9	6·4	9·6	55	..	..	..	6·0	0	0	30	1	12	3	6	1	4	3	0	0	0
Dharmsala	0830	1211	..	..	..	20·2	12·6	5·6	9·1	40	+1	4·0	+1·5	2·9	0	0	25	3	12	5	0	0	0	0	5	5	0
	1730	,,	..	..	..	23·1	14·2	6·3	9·5	36	..	5·1	..	3·6	0	0	30	0	4	2	0	1	19	2	2	0	0
Simla	0830	2202	1483·2	781·7	+0·4	15·3	7·9	−0·6	5·8	36	+3	2·7	0	3·2	0	0	30	3	2	2	8	6	5	0	4	0	0
	1730	,,	1476.0	781·2	..	16·0	9·0	1·7	6·9	42	..	3·8	..	3·2	0	0	30	3	2	0	6	8	8	0	3	0	0
Lokpal	0830	..	..	..	..	−4·6	−6·1	−8·9	2·9	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..	..	..	..	..	Closed during winter months		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Joshimath	0830	..	..	..	..	15·9	8·7	1·1	6·4	38	..	3·2	..	8·5	0	0	30	0	3	23	1	0	1	0	2	0	0
	1730	..	..	..	..	18·5	9·8	1·3	6·7	33	..	6·4	..	7·3	0	0	30	2	7	7	3	1	3	2	5	0	0
Mussoorie	0830	2042	1478·3	796·2	−1·0	16.7	10·6	5·3	8·9	49	+5	2·7	+0·4	1·2	0	0	10	2	1	0	1	3	1	0	2	20	0
	1730	,,	1465·4	795·3	..	17·7	11·9	7·1	10·1	52	..	4·1	..	3·4	0	0	24	6	5	0	4	6	2	0	1	6	0
Mukteshwar (Kumaun)	0830	2311	3145·7	773·3	+0·6	15·4	8·1	0·4	6·3	36	−1	2·5	+0·3	10·0	0	0	27	0	3	5	1	1	2	8	7	3	0
	1730	,,	3136·6	771·8	..	17.7	10·1	2·9	7.5	38	..	3·0	..	19·8	0	10	20	0	0	0	0	0	5	15	10	0	0
Nainital	0830	1953	1481·9	804·9	0	18·1	10·1	2·3	7.2	36	0	2·3	+0·4	3·3	0	0	17	2	4	4	2	0	0	2	3	13	0
	1730	,,	1460·7	803·2	..	19·1	11·2	4·3	8·3	38	..	1·8	..	9·2	0	0	30	6	0	3	2	3	2	11	3	0	0
Walong (R)	0830	..																									
(R)	1730	..																									
Kalimpong	0830	1209	1492·8	878·5	−0·2	21·7	19·6	18·4	21·1	82	+17	1·4	−1·1	3·3	0	0	30	0	1	1	2	0	1	0	25	0	0
	1730	,,	1490·5	878·2	..	22·4	20·1	18·9	21·8	82	..	2·1	..	3·4	0	0	30	0	2	0	28	0	0	0	0	0	0
Darjeeling	0830	2128	1515·6	791·6	+3·3	15·2	11·5	8·3	11·2	66	+1	3·8	−0·1	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1482·7	778·6	..	15·4	12·0	9·4	11·8	69	..	5·6	..	1.5	0	0	6	0	0	0	0	0	2	3	0	24	1
Kohima	0830	1406	1546·0	864·1	..	20·3	16·4	13·7	15·9	68	..	3·6	..	..	..	..	..	3	5	5	4	0	0	5	5	0	3
	1730	,,	1498·3	859·2	..	20·7	16·9	14·5	16·5	69	..	4·8	..	..	..	..	..	5	4	1	1	1	9	3	6	0	0
Shillong	0830	1500	1497·0	849·9	+0·4	21·8	15·1	9·9	12·3	47	−7	3·6	+0·4	(d) 2·1	0	0	13	0	0	0	0	1	8	3	1	14	0
	1730	,,	1467·1	847·2	..	19·9	15·8	12·7	15·0	65	..	4·7	..	(c) 1·0	0	0	8	0	0	0	0	0	6	1	1	20	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	830	1195	1502·2	881·2	+0 1	21·5	12·7	3·6	7·9	35	+7	1·6	+0·4	1·6	0	0	14	4	1	1	0	0	2	3	3	16	0
	1730	,,	1497·2	879·7	..	27·8	15·8	5·8	9·2	25	..	2·4	..	2·4	0	0	20	2	0	0	0	1	6	8	3	10	0
Aijal	0830	..	..	..	..	22·8	17·6	14·9	16·5	63	..	2·7	..	2·9	0	0	27	1	0	3	1	5	4	12	1	3	0
	1730	..	..	..	..	24·9	18·4	13·8	15·9	53	..	4·8	..	3·3	0	0	30	1	1	0	0	2	4	22	0	0	0
Pachmarhi	0830	1075	1518·7	894·1	+0·3	26·7	15·2	4·5	8·9	27	−2	2·1	+0·3	2·7	0	0	25	1	5	4	0	3	0	3	9	5	0
	1730	..																									

(c) Mean of 28 days. (R) Register not received. (d) Mean of 27 days. *Data given as addenda in December 1961 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (km. p. h.): Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—(*Contd.*)																											
Mahabaleshwar	0830	1382	1516·2	863·4	−0·3	23·7	15.3	8·4	11·0	39	+3	1·1	−0.6	7·6	0	0	29	7	13	5	1	1	1	0	1	1	0
	1730	,,	1495·6	861·2	..	26·6	19·3	14·9	16·9	50	..	1·7	...	8·7	0	0	30	4	2	0	0	2	0	4	18	0	0
Mercara	0830	1152	1510·7	886·1	+0·1	21·3	19·1	17·8	20·4	81	+4	2·2	−1·5	3·1	0	0	28	18	4	5	0	0	0	0	1	2	0
	1730	,,	1489·9	883·5	..	24·7	21·6	19·7	22·9	75	..	4·8	..	5·8	0	0	30	4	2	3	0	0	0	10	9	0	2
Ootacamund	0830	2249	1512·6	780·6	+0.4	16·0	12·2	9·2	11·6	66	+9	2·9	−0.1	2.4	0	0	24	0	16	8	0	0	0	0	0	6	0
	1730	,,	1486·4	778·7	..	18·2	14·2	11·6	13·7	67	..	5·9	..	2.3	0	0	22	0	1	18	1	1	0	1	0	8	0
Coonoor	0830	1747	1509·4	827·5	..	20·5	16·4	13·9	16·1	68	+5	3·5	−0.3	3·1	0	0	27	1	2	5	13	1	3	0	2	3	0
Kodoikanal	0830	2343	3166·9	772·3	+0.6	15·8	11·1	6·6	9·7	58	0	3·8	+1.2	12·1	0	5	24	7	8	9	4	1	0	0	0	1	0
	1130	,,	3181.2	772.6	..	19·2	13·7	9·5	11·9	55	..	4·8	..	14·1	0	8	22	5	11	8	5	1	0	0	0	0	0
	1730	,,	3151·3	770.7	..	16·5	14·3	12·8	14·8	80	..	6.4	..	6.1	0	2	20	7	7	4	2	1	0	0	1	8	0
Nepal																											
Katmandu	0830	1324	1487.5	866.5	..	18·3	13·8	10·1	12·5	65	..	1·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	,,	1482.6	865.6	..	26·8	16·4	8·0	11·1	32	..	1·4	..	0·7	0	0	3	1	0	0	0	0	0	0	2	27	0
	1730	,,	1458.3	863.4	..	..	..	..	..	..	..	3.4	..	0·3	0	0	3	0	0	0	0	0	0	2	1	27	0
Sikkim																											
Lachen	0830	..	..	..	..	12·3	7·9	3.4	7·7	54	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological observatories Damodar Catchment																											
Tilairya	0830	..	..	..	..	31·2	17·7	5·4	9·0	23	..	1.3	..	..	0	1	23	2	0	0	0	0	3	10	9	6	0
	1730	..	..	..	..	35·2	18·3	1·9	9·3	14	..	0.8	..	..	0	2	26	2	1	1	0	0	0	8	15	2	1
Hazaribagh	0830	615	1006·7	940·2	..	29.9	17·2	7·5	10·3	25	..	1·5	..	7·2	0	1	29	4	0	1	0	5	4	4	12	0	0
	1730	,,	1001·9	936·4	..	33·1	17 4	4·2	9·9	18	..	1·4	..	9·3	0	1	26	2	0	0	0	1	0	8	16	0	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	1·5	..	..	0	6	24	0	0	1	2	0	0	14	13	0	0
	1730	..	..	..	..	..	..	..	..	..	..	1·7	..	..	0	20	10	1	0	1	0	2	0	11	15	0	0
Bokaro	0830	242	1007·4	980.7		30·6	20·0	12·5	14·8	35	..	1·6	..	..	0	0	23	1	0	1	3	2	7	7	2	7	0
	1730	,,	1002.7	976·6	..	36·7	21·4	10·2	13·0	23	..	1·4	..	..	0	0	29	2	0	1	4	0	1	1	20	1	0
Maithon*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ramgarh	0830	..	..	..	..	29.1	20.3	13.2	16.6	38	..	1.2	..	1.8	0	0	14	0	1	0	0	0	0	12	1	16	0
	1730	..	..	..	..	36·1	21.3	10·4	13·5	24	..	2.0	..	3·0	0	0	28	5	2	0	1	0	2	5	13	2	0
Panchet Hills	0830	..	..	..	..	31·7	21·2	14·1	16·5	37	..	3·0	..	4.8	0	0	27	0	0	1	0	1	21	3	1	3	0
	1730	..	..	..	..	36·7	22·0	11.6	14·3	25	..	2·9	..	4·4	0	0	20	6	0	1	1	1	0	3	8	10	0
Durgapur	0830	..	..	..	..	30·5	23·9	20·4	24·2	55	..	1·6	..	..	0	0	30	7	1	0	1	11	2	2	6	0	0
Mahanadi Catchment	1730	..	..	..	..	36·7	23·9	16·2	19·2	32	..	2·0	..	..	0	0	30	4	1	1	0	5	1	6	12	0	0
Ginabahar	0830	..	..	..	..	29 5	20·9	15·6	17·7	43	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..
Hirakud	0830	159	1008.1	990.5	..	31·1	22·5	17·8	20·2	46	..	1·3	..	4·7	0	0	24	2	2	0	4	7	5	2	2	6	0
	1730	,,	1002.5	985.4	..	37.3	23·1	14.4	16·6	27	..	2·3	..	3·7	0	0	24	2	3	0	2	5	2	1	9	6	0
Bhimkund	830	..	..	..	..	29.1	21.4	16.7	19·2	50	..	2.0	..	0·5	0	0	5	1	3	0	0	0	0	0	1	25	0
	1730	..	..	..	..	34·2	22·2	15·0	17·1	32	..	3·0	..	0.6	0	0	7	0	0	0	3	2	1	0	1	23	0
Sonepur	0830	..	..	..	..	30·6	24.4	21.2	25.7	60	..	..	..	5·6	0	0	24	0	1	4	7	3	6	1	2	6	0
Khijrawar	0830	..	..	..	..	29 7	23·7	18·8	24·3	54	..	1·4	..	3·5	0	0	22	0	1	2	3	0	6	9	1	8	0
	1730	..	..	..	..	36·2	24·2	16·0	20·4	34	..	3.6	..	(c) 5·0	0	0	27	3	0	2	1	2	0	9	8	1	2
Narmada Catchment																											
Bagratawa	0830	..	..	..	..	30·7	17·0	2·1	9·4	20	..	1·0	..	8·2	0	0	26	0	11	0	0	7	3	3	2	4	0
	1730	..	..	..	..	38·2	19·8	3·0	9·6	12	..	1·7	..	4.9	0	0	19	0	0	0	2	1	3	7	6	11	0
Punasa	0830	..	..	..	..	32·2	18·7	7·3	10·6	23	..	..	..	2·3	0	0	13	0	3	1	1	0	6	0	2	17	0
	1730	..	..	..	..	38·2	21·0	7·6	11·1	16	..	..	..	4·3	0	0	17	0	2	0	1	0	10	2	2	13	0
Thikri	0830	..	..	..	..	29·7	20·0	13·3	15·5	37	..	2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	29·3	22·4	18·5	21.3	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	35·7	23·9	17·2	19·6	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	17·1	10·4	4·3	8·3	44	..	(n) 2·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·7	10·1	2·5	7·5	39	..	(n) 4·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	19·6	13·9	8·9	11·4	51	..	2·7	..	1·2	0	0	11	4	4	0	1	1	0	1	0	19	0
	1130	..	..	..	..	27·6	16·2	6·8	9·9	28	..	3·0	..	2·2	0	0	19	2	7	7	2	0	0	0	1	11	0
	1730	..	..	..	..	29·8	16.4	4·8	8·6	24	..	3·5	..	..	..	..	..	..	..	..	..	..	..		..	..	..
Gandak Catchment																											
Jomosom	0830	..	..	..	..	14·6	17.4	0.4	6.3	38	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..
	1730	..	..	..	..	13·9	8.2	3·2	7·7	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	22·1	15·5	11·6	13·7	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·5	17·3	12·3	14·3	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(c) Mean of 28 days. *Data not available. (n) Mean of 17 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.* **Gandak Catchment**—*Contd.*																											
Tiruure	0830	..	..	..	..	17·5	10·6	4·4	8·4	41	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	13·0	6·7	9·8	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	23·4	16·5	11·7	13·7	49	..	0·7	..	2·2	0	0	16	0	0	1	3	3	8	0	1	14	0
	1730	..	..	..	..	26·5	17·6	11·2	13·6	44	..	3·1	..	3·3	0	0	18	1	2	5	3	2	0	1	4	12	0
Gorkha*	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	24·0	16·1	10·3	12·5	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·5	15·8	6·1	9·4	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mansiari (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	18·0	10·8	4·3	8·3	41	..	2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·5	11·7	5·1	8·8	39	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana	0830	..	..	..	..	21·1	12·6	4·5	8·4	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·7	13·9	5·1	8·8	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29.8	20·3	14·1	16·1	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	35·0	20·8	10·9	13·0	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																											
Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																											
Chautara	0830	..	..	..	..	19·2	14·0	10·4	12·6	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·6	15·8	10·7	12·9	44	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	15·9	11·8	9·6	11·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	16·6	13·0	11·2	13·3	71	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	9·7	5·6	1·5	6·8	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·2	5·7	3·3	7·7	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	20·7	14·3	9·3	11·7	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	14·3	8.5	11·1	43	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	18·8	13·5	9·7	12·0	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19.4	13·5	9·3	11·7	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	18·5	13·6	9·9	12·4	59	..	3.1	..	..	..	..	..	2	0	0	0	0	0	0	2	26	0
	1130	..	..	..	..	21·0	13·9	8·4	11·2	47	..	3·4	..	..	..	..	..	2	0	0	3	0	3	15	0	7	0
	1730	..	..	..	..	19·1	13·5	9·0	11·9	55	..	6·1	..	..	..	..	..	0	0	3	1	13	7	2	0	4	0
Okhaldhunga	0830	..	..	..	..	18·6	12·7	8·2	10·9	52	..	1·8	..	3·9	0	1	12	0	0	0	0	4	3	2	4	17	0
	1130	..	..	..	..	21·8	13·6	7·4	10·3	41	..	2·2	..	6·1	0	1	25	1	0	3	0	10	4	7	1	4	0
	1730	..	..	..	..	19·1	12·6	7·6	10·4	50	.	4·1	..	13·4	0	5	21	6	0	2	0	2	3	11	2	4	0
Chainpur	0830	..	..	..	..	22·5	16·2	11·8	13·8	51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·5	16·1	11·6	13·7	50	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung‡	0830	..	..	..	..	20·3	16·2	13·3	15·3	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·7	16·7	12·5	14·5	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1008·1	991·6	..	27·2	19·2	13·2	15·2	45	..	2·2	..	5·6	0	0	30	3	4	2	2	2	10	5	2	0	0
	1130	,,	1006·7	990·6	..	32·2	21·6	14·7	16·7	37	..	2·8	..	11·0	0	0	30	1	0	0	0	0	23	6	0	0	0
	1730	,,	1002·5	986·4	..	32·4	21·0	12·6	14·6	35	..	3·2	..	3·8	0	0	24	0	1	6	5	3	5	3	1	6	0
Tista Catchment																											
Gangtok	0830	1812	1488·8	818·7	..	15·7	13·0	11·1	13·2	75	..	3·3	..	0·1	0	0	1	0	0	0	1	0	0	0	0	29	0
	1130	,,	1479·4	818·2	..	19·5	15·1	12·1	14·3	64	..	3.7	..	3·4	0	0	25	0	1	0	5	4	14	1	0	5	0
	1730	,,	1457·2	815·8	..	16·6	13·7	11·7	13·7	74	..	6·1	..	2·9	0	1	15	0	3	0	7	3	3	0	0	14	0
Gezing	0830	..	..	..	..	18·6	15·2	13·1	15·1	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·4	15·3	12·7	14·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. *Data not reliable. †Data included under 'Nepal'. ‡Observations for 17 days.

MONTHLY MEANS OF UPPER WINDS

April 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1. Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2. Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3. Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4. Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5. Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6. Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7. Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
8. Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9. Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10. Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11. Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12. Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13. Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14. Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
15. Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1130	1730	2330
16. Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
17. Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18. Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19. Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20. Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530	1730		
21. Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22. Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130*	1730*	2330*
23. Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24. Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25. Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26. Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
27. Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28. Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29. Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30. Imphal	24°51′	93°58′	805	8th March, 1952	0530	1130	1730	2330
31. Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32. Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33. Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34. Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
35. Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36. Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37. Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130*	1730*	2330*
38. Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39. Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
40. Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41. Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42. New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130*	1730*	2330*
43. Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44. Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45. Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46. Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
47. Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130*	1730*	2330*
48. Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49. Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50. Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51. Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52. Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
53. Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological office.

5—11 D.D. G. Obs.P/65

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

April 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·9	2·1	164	30	3·9	2·7	179	30	4·1	2·7	171	30	2·5	2·0	168	30	2·3	2·1	324	30	3·6	2·9	300
0·15 a.g. .	29	6·7	4·9	169	30	5·7	4·3	193	29	8·3	6·1	181	30	7·8	6·7	180	30	8·6	6·7	336	30	4·1	3·3	290
0·3 a.m.s.l.	29	8·1	5·9	200	30	5·5	4·3	188	29	8·1	6·0	185	30	8·5	7·3	188	30	9·3	7·3	336	30	4·3	3·7	288
0·6 ,, .	29	8·0	6·4	215	30	5·3	4·3	192	29	8·2	6·7	190	30	8·1	7·3	206	30	7·8	6·3	337	30	4·7	4.1	285
0·9 ,, .	29	7·6	6·3	230	28	6·1	4·7	204	29	7·8	6·5	203	29	6·7	5·9	228	30	5·6	4·3	328	30	4·8	4·4	285
1·5 ,, .	25	6·9	6·1	263	21	7·2	4·1	237	26	6·5	5·8	247	29	6·7	6·0	256	30	5·0	3·8	279	30	5·5	5·0	280
2·1 ,, .	23	7·2	6·7	269	13	9·0	7·8	255	25	8·1	7·7	272	27	8·4	7·6	275	30	7·2	6·0	248	30	7·3	6·8	273
3·0 ,, .	18	9·7	9·0	277	3	13·5	12·9	282	25	12·4	11·8	284	23	10·6	9·5	279	30	9·2	8·6	256	29	10·1	9·3	262
3·6 ,, .	13	10·7	9·7	284					23	14·8	14·1	289	3	9·7	9·4	290	4	11.1	10.7	263	28	11·4	10·4	260
4·5 ,, .	2	13·0	12·6	245					17	15·5	14·2	294	1	10·0	10·0	295					27	11·8	10·4	258
5·4 ,, .	2	13·7	13·7	259					9	14·2	12 5	286									24	12·0	10·7	265
6·0 ,, .									7	15·4	14·8	278									24	13·2	12·1	266
7·2 ,, .									3	18·0	17·5	256									22	16·2	14·5	269
9·0 ,, .																					3	23·6	21·7	260

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·8	2·0	300	30	1·5	1·1	264	30	4·1	3·5	298	30	2·0	1·3	281	30	1·7	1·1	346	30	2·5	1·7	305
0·15 a.g. .	30	8·1	6·6	307	30	7·7	4·8	309	30	5·9	5·2	305	30	8·5	6·6	317	30	7·4	3·5	357	30	6·4	4·3	303
0·3 a.m.s.l. .	30	8·6	7·2	310	30	7·9	5·1	320	30	6·0	5·4	304	30	8·6	6·7	317	30	3·4	2·0	358	30	3·7	2·6	302
0·6 ,, .	30	7·8	7·2	313	29	7·5	5·9	314	30	6·8	6·6	300	30	8·8	7·1	313	30	7·3	4·3	354	30	7·3	4·7	309
0·9 ,, .	30	6·4	5·9	307	29	7·9	6·7	310	30	7·1	6·6	300	30	8·1	7·0	307	30	7·3	4·5	332	30	7·0	4·8	302
1·5 ,, .	30	5·3	4·3	285	30	8·0	7·5	301	29	7·8	7·5	289	30	8·6	7·9	296	30	6·8	3·4	320	30	6·2	4·0	293
2·1 ,, .	30	5·9	5·1	260	30	9·9	9·3	295	29	9·5	9·3	283	29	10·5	9·8	287	30	7·4	3·8	295	30	5·9	4·1	286
3·0 ,, .	29	8·1	7·5	256	25	10·8	10·1	284	29	11·7	11·5	283	18	12·0	11·3	280	30	7·9	4·7	284	29	5·8	2·9	274
3·6 ,, .	1	8·5	8·5	260	19	12·5	12·1	281	28	13·6	13·1	282	6	11·1	10·8	279	29	8·9	5·6	279	27	7·3	4·9	268
4·5 ,, .					7	15·2	15·0	264	23	15·1	14·6	283					24	10·6	8·9	292	21	8·9	7·4	278
5·4 ,, .					1	7·5	7·5	235	18	16·1	15·4	282					13	11·6	11·0	267	18	12.3	10·7	276
6·0 ,, .									10	16·7	16·3	288					13	13·8	13.2	264	15	15.3	14·0	272
7·2 ,, .									7	17·7	16·9	291					6	20·3	18·9	265	8	20.3	18·0	271
9·0 ,, .									2	13·3	13·2	270					4	28·6	24.7	266	1	42.0	42·0	225

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11— Vaisakha, 10, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·4	1·6	347	30	2·7	1·2	255	30	3·2	2·8	070	30	5·0	3·0	114	30	0·8	0·3	255	30	2·2	1·6	291
0·15 a. g. . .	30	10·0	7·1	348	30	4·9	2·6	258	30	4·4	3·9	079	30	8·1	5·4	116	30	5·4	2·8	272	30	4·4	3·1	285
0·3 a. m.s.l. .	30	4·1	2·6	346													30	5·5	2·9	275	30	4·5	3·2	285
0·6 ,, .	30	9·7	6·9	346	30	5·2	3·4	255	30	4·3	3·7	082	30	7·9	5·6	117	30	6·7	4·3	304	30	4·8	3·6	292
0·9 ,, .	30	8·8	6·0	342	30	4·6	3·0	235	29	4·4	3·9	089	30	8·0	6·4	120	30	7·5	6·2	305	30	5·4	4·5	294
1·5 ,, .	30	6·5	4·4	325	30	4·6	3·4	183	29	3·6	3·4	086	30	5·4	5·2	117	30	8·5	7·9	303	30	6·8	6·0	283
2·1 ,, .	30	6·0	3·6	293	30	5·3	4·1	109	30	4·1	3·8	083	30	4·3	3·4	109	30	9·8	8·9	296	25	8.6	8·0	274
3·0 ,, .	27	6·7	4·5	264	30	7·0	6·0	068	30	5·2	4·7	075	29	5·5	3·7	068	26	13·2	12·5	283	16	12·5	11·3	275
3·6 ,, .	15	7·7	6·3	251	29	7·6	6·5	056	30	6·3	5·2	070	25	6·4	4·7	046	13	14·6	14·1	277				
4·5 ,, .	7	9·7	8·5	241	29	6·8	5·5	063	29	5·7	4·1	065	22	5·4	3·5	027	6	15·7	12·4	273				
5.4 ,, .	1	3.5	3.5	170	27	6·7	3·0	060	28	6·5	2·8	063	18	4·9	2·4	001	2	11,5	11·3	305				
6·0 ,, .					26	6·8	1.6	055	28	6·7	2·2	060	14	5·8	2·6	333								
7·2 ,, .					23	7·6	1·7	323	24	7·7	1·6	358	6	8·5	1.1	324								
9·0 ,, .					19	9·8	5·3	275	18	9·7	4·9	260	1	14·5	14·5	215								

Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·6	1·7	294	30	1·5	0·7	202	30	2·7	2·2	057	29	3·9	3·0	097	30	2·9	1·5	076	30	2·6	2·0	052
0·15 a.g. . .	30	5·9	4·1	293	30	7·9	2·2	291	30	5·7	5·2	070	29	4·5	4·1	097	30	4·5	1·9	075	28	4·9	4·4	074
0·3 a.m.s.l.	30	5·9	4·3	292	30	8·1	2·3	292	30	5·7	5·5	075	29	4·5	3·9	101	30	4·4	1·8	074	28	4·9	4·5	082
0·6 ,, .	30	6·9	5·7	294	30	8·8	4·2	305	30	7·0	7·0	080	29	5·0	4·3	103	30	4·1	0·5	080	28	5·5	4·2	095
0·9 ,, .	30	7.4	6·5	293	30	8·2	5·6	306	30	5·8	5·1	087	29	4·6	4·1	104	30	3·9	1·1	233	28	5·1	2·3	084
1·5 ,, .	30	7·8	7·3	292	30	7·6	6·7	299	23	4·8	0·7	082	24	4·4	0·7	224	30	5·3	4·5	252	24	4·0	3·8	263
2·1 ,, .	30	8·7	8·2	288	30	8·5	7·9	286	20	6·6	5·0	275	15	5·2	4·3	260	29	7·1	6·9	263	19	7·0	6·7	274
3·0 ,, .	28	11·9	11·4	283	27	11·4	10·7	278	14	11·6	11·6	280	5	7·5	7·1	279	24	8·9	8·2	286	14	8·0	7.9	284
3·6 ,, .	25	13·9	13·2	286	17	13·8	12·8	282	9	13·8	11·7	279					18	10·5	9·0	290	8	9·7	9·6	282
4·5 ,, .	15	16.9	15·6	294	6	14·5	13·3	289	4	10·6	10·5	290					10	13·5	13·3	285	1	8.5	8.5	285
5·4 ,, .	5	12.5	11·9	304					3	15·8	15·7	280					3	20·8	20·5	283				
6·0 ,, .	5	15·5	15·0	298					2	9·7	9·7	298					2	23·7	22·8	277				
7·2 ,, .	3	16.2	15.8	288																				
9·0 ,, .	1	24.5	24.5	285																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·9	1·4	359	30	3·5	2·9	295	30	2·5	1.7	355	30	1·1	0·9	079	30	4·2	3·9	285	30	1·1	0·3	297
0·15 a.g. . .	30	7·1	3·5	007	29	4·3	3·6	285	30	7·8	5·3	350	30	3·0	1·9	039	30	5·6	5·4	281	29	3·5	2·9	319
0·3 a.m.s.l. .													30	3·0	1·8	017	30	5·8	5.7	281	29	3·8	3·3	318
0·6 ,, .	30	6·2	3·0	009	29	4·2	3·4	285	30	7·0	4·7	355	30	2·6	1·6	326	30	4·2	3·7	287	29	3·9	3·4	312
0·9 ,, .	30	7·9	4·2	004	29	4·8	4·2	286	30	7·6	5·9	338	30	2·8	1.3	308	30	2·6	1·7	301	29	2·9	1·6	292
1·5 ,, .	30	6·1	3·7	327	30	4·9	4·5	290	30	5·7	4·8	309	29	3·8	1·6	004	29	2·8	1·7	323	28	2·7	0·7	191
2·1 ,, .	30	5·5	4·5	277	30	5·6	5·0	287	30	5·1	4·5	278	26	4·7	3·5	073	29	4·9	4·3	073	27	4·8	3·6	052
3·0 ,, .	28	8·6	7·8	249	28	6·9	6·3	269	30	7·3	6·6	257	24	7·2	6·8	078	26	8·8	8·5	078	25	9·6	9·1	078
3 6 ,, .	28	10·8	9·6	251	26	8·3	7·8	267	8	10·3	8·9	250	21	8·7	8·2	068	25	9·4	9·0	068	19	10·2	9·8	080
4 5 ,, .	22	12·0	11·0	263	23	11·5	5·7	269					18	6·2	4·3	072	23	8·2	6·6	079	12	7 1	6·4	086
5 4 ,, .	21	12·5	11·7	274	20	12·0	11·1	276					16	5·9	2·2	093	19	7·7	4·4	067	3	4·8	4·5	127
6·0 ,, .	19	13·8	12·9	277	19	13·4	12·4	277					16	6.6	0.7	115	19	8·6	3·4	059	2	4.7	3·8	195
7·2 ,, .	13	15·3	14·3	277	13	13·7	11·8	263					11	7.9	2.3	303	13	9·2	2·7	024				
9·0 ,, .	6	19·2	17·1	277	6	16·6	15·2	271					5	8.4	5.5	287	6	16.1	9·9	281				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.1	0·8	282	30	2·9	2·4	290	27	3·6	3·3	306	30	0·7	0·4	293	30	1·7	0·8	217	30	2·6	2·0	103
0·15 a.g. . .	30	6·6	3·3	314	29	4·7	4·1	294	27	7·4	6·9	305	29	7·9	6·4	330	27	4·4	2·5	214	30	4·9	4·0	092
0·3 a.m.s.l. .	30	6·7	3·3	317	29	4·8	4·1	295	27	7·4	6·9	305	29	8·3	7·7	327								
0·6 ,, .	30	6·3	3·6	320	30	4·8	4·3	292	27	7·6	7·1	305	29	8·1	7·3	323								
0·9 ,, .	29	6·3	4·6	306	30	4·9	4·5	295	27	7·5	7·0	299	29	7·6	7·1	313								
1·5 ,, .	29	6·9	6·6	289	30	6·4	6·0	291	27	7·4	6·8	295	29	8·3	5·3	308	27	4·5	3·1	187	30	5·8	5·3	088
2·1 ,, .	28	9·4	8·8	282	30	8·8	8·1	287	27	8·2	7·7	287	24	9·0	8·7	280	27	5·6	4·9	093	29	6·0	5·8	083
3·0 ,, .	28	12·0	11·1	276	30	11·9	10·7	281	27	10·4	9·7	272	14	10·3	9·6	265	27	9·3	8·7	062	27	6·4	6·1	073
3·6 ,, .	28	13·6	12·6	278	29	13·2	12·4	278	27	12·8	12·0	274	4	14·5	13·0	265	27	9·8	8·8	061	26	7·1	6·7	067
4·5 ,, .	28	14·1	13·5	275	27	14·9	14·1	279	27	13·8	13·0	278					26	8·8	7·7	067	18	7·3	4·9	061
5·4 ,, .	28	14·4	14·0	271	22	16·0	15·1	281	27	14·7	14·3	280					24	6·9	4·3	078	17	8·1	5·3	074
6·0 ,, .	27	15·3	14·8	271	17	16·1	15·6	280	27	15·3	14·7	280					23	7·3	4·3	074	14	7·5	4·0	070
7·2 ,, .	26	19·8	19·3	269	7	27·7	26·3	282	26	18·7	17·5	275					22	6·4	1·2	063	11	6·4	1·6	014
9·0 ,, .	24	25·8	24·3	265	2	16·5	16·5	282	25	24·9	23·0	273					22	8·3	2·3	293	6	8·7	3·4	303

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·1	1·6	150	30	1·8	0·8	316	30	2·8	2·2	288	30	1·9	0·5	179	30	2·5	1·4	125	30	2·7	0·9	103
0·15 a.g	30	7·6	5·7	142	30	6·8	4·5	317	30	5·7	4·7	291	30	4·8	2·1	157	30	3·5	1·7	130	30	5·7	3·1	125
0·3 a.m.s.l.					30	6·3	4·0	311	30	5·4	4·8	287												
0·6 ,,					30	7·8	6·3	305	30	6·9	6·0	292	30	3·5	0·9	142	30	3·4	1·5	125	30	4·7	2·2	125
0·9 ,,					30	8·0	6·7	304	30	6·8	6·3	284	30	6·0	3·0	181	30	3·3	2·0	123	30	5·7	3·9	132
1·5 ,,	30	7·7	6·7	132	30	7·8	6·9	298	29	9·3	6·4	287	30	5·9	2·2	215	30	3·1	1·8	120	30	4·7	3·4	125
2·1 ,,	30	6·3	5·3	110	30	8·9	7·9	299	28	7·3	6·8	283	30	4·7	2·4	199	30	2·9	1·1	115	30	3·5	1·3	118
3·0 ,,	28	6·4	5·5	064	26	9·9	9·2	293	28	8·4	7·9	282	29	5·0	1·6	039	27	3·1	0·8	025	30	4·7	1·7	349
3·6 ,,	22	6·8	6·0	056	21	9·7	8·6	285	27	9·8	9·3	281	27	5·9	3·6	039	26	3·9	1·5	360	18	6·3	3·6	329
4·5 ,,	18	7·8	6·3	051	13	10·5	10·0	280	26	13·3	12·7	283	25	6·5	4·3	019	23	4·8	1·2	350	7	6·5	3·8	188
5·4 ,,	15	6·8	3.7	051	11	11·8	11·0	276	24	15·5	14·4	282	23	7·0	3·8	355	20	5·3	1·5	310	2	7·7	7·7	317
6·0 ,,	6	4·3	3·3	289	7	11·6	10·6	278	22	17·1	16·2	281	19	7·5	3·2	345	18	5·4	1·3	292				
7·2 ,,	4	8.7	6·9	275	2	10·7	10·7	260	15	18·3	16·4	271	17	9·1	4·9	302	10	7·7	3·4	310				
9·0 ,,	1	4·5	4·5	085	1	12·5	12·5	265	5	16·5	16·4	277	13	13·8	8·8	297	5	7·1	5·0	220				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I. S. T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	0·2	086	30	3·5	1·4	289	30	3·3	2·5	293	30	4·1	3·7	215	30	4.3	2·6	219	30	6·5	6·1	202
0·15 a.g.	30	5·9	0·4	295	29	6·0	2·4	290	30	5·8	4·6	298	25	6·2	5·0	222	30	4·9	2·9	221	30	7.8	7.3	192
0·3 a.m.s.l.	30	6·3	1·6	278	29	6·0	2·4	290	30	6·0	4·9	298	25	7·1	5·8	238	30	5·2	3·2	226	30	8·5	7·3	192
0·6 ,,	30	7·1	4·0	289	29	6·1	2·6	285	30	7·1	6·1	291	25	6·8	5·6	241	30	5·4	3·2	245	30	6·3	5·7	206
0·9 ,,	30	7·4	5·4	291	29	6·5	3·9	281	30	7·7	6·9	286	24	6·0	4·9	246	30	6·1	3·7	271	30	5·2	4·0	227
1·5 ,,	28	9·2	8·5	295	26	8·2	7·6	277	29	9·0	8·3	280	24	4·3	3·1	291	30	5·0	3·2	297	30	5·0	3·8	280
2·1 ,,	27	10·9	10·4	288	23	10·4	9·8	282	25	10·3	9·9	276	23	4·4	3·4	318	20	5·0	3·7	293	27	6·1	4·9	299
3·0 ,,	23	14·3	13·6	284	13	11·9	11·3	284	23	12·5	12·1	283	21	6·0	4·5	310	11	5·4	4·0	306	26	7·7	6·7	309
3·6 ,,	10	12·1	11·0	279					23	14·8	14·4	286	20	7·5	6·1	321					21	8·9	8·1	321
4·5 ,,	7	10·9	10·5	288					18	14·5	14·2	285	14	7·9	6·2	317					17	9·5	7·8	316
5·4 ,,	4	11·6	11·3	288					14	14·3	13·6	285	9	6·0	4·8	285					15	9·4	7·9	296
6·0 ,,	2	12·3	11·3	283					11	14·7	14·4	287	6	10·0	8·7	276					14	10·2	8·6	291
7·2 ,,	1	11·5	11·5	260					9	17·3	16·9	277	1	6·0	6·0	245					9	14·9	10·8	258
9·0 ,,																					2	18·0	18·0	245

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	6·0	5·4	215	30	1·9	1·5	290	30	4·5	3·7	282	30	3·0	2·5	271	30	0·7	0·3	325	30	1·7	1·1	253
0·15 a.g. .	30	9·3	8·7	213	30	5·9	5.1	297	30	6·3	5.1	273	30	6·7	6·0	274	30	5·6	0·4	037	30	4·8	3·4	275
0·3 a.m.s.l. .	30	10·1	9·8	216	30	7·2	5·5	280	30	6·2	5·0	273	30	7·3	6·2	274	30	4·2	0·1	152	30	4·3	2·7	266
0·6 „ .	29	9·8	9·4	212	30	7·7	6·5	303	30	5·3	4·3	278	30	7·4	6·3	290	30	6·1	1·3	333	30	6·0	4·5	273
0·9 „ .	27	7·7	6·9	213	30	6·5	5·5	306	30	4·9	4·2	275	30	6·6	4·9	292	30	5·8	2·1	310	30	5·8	4·5	263
1·5 „ .	27	4·5	3·4	258	30	5·8	4·2	275	30	5·0	4·2	269	30	6·4	4·0	276	28	6·2	4·1	280	30	5·5	4·5	258
2·1 „ .	25	5·6	4·7	297	28	7·3	5·3	268	29	6·3	5·4	560	30	7·1	4·9	260	28	7·8	6·1	265	30	5·9	5·1	251
3·0 „ .	22	7·2	6·1	319	27	9·5	8·7	260	28	10·1	9·3	257	29	9·0	8·1	253	25	8·6	5·7	271	26	7·8	6·8	252
3·6 „ .	4	9·5	9·2	315	4	8·6	8·0	276	28	12·4	11·5	257	11	10·6	9·0	253	20	8·0	4·1	274	26	9·4	9·4	253
4·5 „									25	12·7	11·8	260	5	9·9	8·4	267	11	10·2	9·3	264	21	10·5	9·4	267
5·4 „ .									24	13.3	12.1	258					3	14·8	14·8	282	16	12·8	12·3	276
6·0 „ .									23	13·2	11·9	261					1	14·0	14·0	290	15	14·1	13·3	273
7·2 „ .									5	13·7	12·7	285									3	22·3	21·3	280
9·0 „ .																								

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1·5	0·9	309	30	2·2	1·6	297	30	2·8	1·8	313	30	3·2	2·5	337	30	0·7	0·7	067	30	3·4	3·2	293
0·15 a.g. . .	30	7·3	3·9	315	30	5·9	4·4	314	30	3·9	2·2	314	30	7·3	5·7	340	30	2·9	1·9	017	29	4·8	4·4	281
0·3 a.m.s.l. .	30	5·8	2·9	309													30	3·2	2·4	350	29	5·6	5·2	282
0·6 „ .	30	7·5	4·3	310													30	3·7	3·0	324	29	5·2	4·9	282
0·9 „ .	30	6·7	4·1	293	30	6·6	5·1	336	30	3·7	2·3	306	30	7·9	6·6	345	30	3·3	2·4	316	29	3·7	2·9	286
1·5 „ .	29	5·0	3·9	250	30	5·1	3·7	340	30	4·4	3·1	302	30	6·2	5·1	348	29	2·7	0·8	003	27	3·4	1·8	020
2·1 „ .	28	5·9	5·0	252	29	4·1	1·6	212	29	3·7	2·7	304	30	4·8	3·1	351	29	4·6	3·5	058	24	5·5	5·0	062
3·0 „ .	22	7·5	5·8	253	27	4·1	1·4	195	26	3·6	2·8	292	28	3·9	0·3	181	24	8·0	7·5	075	18	8·6	8·2	072
3·6 „ .	9	7·9	6·8	250	11	5·5	2·8	198	21	3·5	2·0	298	14	4·6	2·3	156	17	8·3	7·6	078	15	8·4	7·8	070
4·5 „ .	1	6·0	6·0	235					15	5·5	2·4	275	6	4·7	2·3	190	4	4·7	4·4	070	11	7·3	6·6	076
5·4 „ .	1	12·5	12·5	250					12	6·9	3·8	276					2	3·3	1·0	356	3	5·0	3·5	072
6·0 „ .	1	14·5	14·5	245					12	7·9	5·0	275					2	4·3	1.5	039	2	8·7	6·7	036
7·2 „ .									5	8·1	3.9	315					1	1·5	1.5	100				
9·0 „ .																	1	5·0	5·0	085				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I.S.T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	0·4	280	30	0·2	0·1	319	30	1·1	0·9	228	30	1·3	1·2	034	30	2·1	1·7	267	30	1·7	1·4	179
0·15 a.g.	25	2·9	1·6	304	13	2·3	0·3	193	7	3·1	2·9	216	30	2·9	2·1	047	29	3·9	3·2	261	30	6·4	5·0	210
0·3 a.m.s.l.	25	3·0	2·4	304																	30	6·3	5·1	219
0·6 ,,	25	3·5	3·2	297																	30	5·9	4·0	237
0·9 ,,	25	3·3	2·8	313									30	2·5	1·9	045	29	4·2	3·5	261	30	5·3	3·4	253
1·5 ,,	25	2·9	0·5	105									30	3·2	1·2	329	29	4·6	3·8	270	30	4·3	2·6	277
2·1 ,,	22	4·9	4·3	083									29	3·9	1·5	299	28	3·7	2·5	260	30	5·3	4·2	294
3·0 ,,	14	9·8	9·4	067	13	4·8	4·2	270	7	6·6	6·5	270	27	5·6	2·7	280	28	3·8	1·5	257	30	8·5	7·7	291
3·6 ,,	9	10·2	9·3	067	12	10·3	10·1	276	7	9·0	8·6	290	26	6·8	4·8	270	26	4·8	1·7	240	30	10·4	9·7	295
4·5 ,,	4	6·3	5·6	063	8	12·4	12·3	284	6	12·5	12·3	277	18	7·7	6·9	270	24	6·8	5·2	273	30	11·8	11·1	297
5·4 ,,					2	15·5	15·3	287	4	17·5	17·3	270	11	11·5	10·6	277	23	12·0	11·0	274	30	11·5	10·4	290
6·0 ,,					1	14·0	14·0	285	3	17·2	16.9	274	9	13·5	13·0	276	23	15·4	14·5	272	30	12·3	11·5	285
7·2 ,,									3	21·2	21·1	277	4	15·9	15·8	275	19	20.0	18·8	273	30	13·8	12·6	279
9·0 ,,													3	14·2	14·2	280	3	34·0	32·1	281	29	19·2	17·6	274

Station	DUM DUM												GADAG											
Time in I.S.T.	1130*				1730*				2330*				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2·8	1·7	224	30	2·7	1·6	180	30	2·7	2·2	182	30	3·5	1·9	231	30	3·3	0·4	049	30	4·1	3·0	253
0·15 a.g.	30	5·0	3·2	229	30	5·4	4·5	196	30	7·4	6·8	197	30	5·9	3·1	231	30	4·2	0·5	076	30	8·6	5·8	256
0·3 a.m.s.l.	30	4·6	3·2	230	30	6·2	4·5	200	30	7·9	7·3	200												
0·6 ,,	30	4·3	2·6	226	30	5·6	3·9	206	30	8·1	7·4	211												
0·9 ,,	30	4·4	2·8	261	30	5·0	2·9	230	30	7·0	6·2	227	30	6·3	1·4	316	30	4·2	0·7	059	30	8·0	4·6	267
1·5 ,,	30	5·3	4·6	277	30	5·0	4·1	279	30	5·3	4·2	270	30	5·9	3·1	036	30	3·4	2·0	064	30	5·2	2·1	033
2·1 ,,	30	6·5	5·4	278	30	6·8	5·9	288	30	6·6	6·0	296	30	5·7	3·1	286	30	4·2	2·6	071	30	4·9	3·6	088
3·0 ,,	30	9·6	8·8	290	30	10·3	9·4	295	30	10·0	9·5	297	29	5·3	4·2	089	28	4·4	3·4	068	28	7·1	5·8	075
3·6 ,,	30	11·3	10·2	292	30	11·9	11·4	300	30	11·7	11·0	300	29	6·1	4·9	076	26	4·9	4·0	065	28	7·8	6·3	075
4·5 ,,	30	10·9	9·8	293	30	12·3	10·3	300	30	12·3	11·4	298	29	6·4	3·7	063	21	5.8	3·4	055	14	7·6	5·9	079
5·4 ,,	30	11·6	10·2	291	30	11·9	10·8	288	30	12·0	11·3	292	27	7·7	1·1	020	20	6·4	2·5	028	8	7·6	3·3	079
6·0 ,,	30	12·4	11·4	282	30	12·4	11·3	287	30	12·5	11·6	289	24	8·1	2·3	320	19	7·0	2·6	019	3	9·7	3·2	134
7·2 ,,	30	14·0	12·6	274	29	14·1	13·5	275	30	13·1	12·2	279	23	9·2	4·5	306	13	5·7	1·8	280				
9·0 ,,	28	17.5	16·5	267	26	17·9	16·4	267	27	17·4	15·2	275	12	11·6	7·8	279	7	10·4	9·1	281				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

APRIL, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	1·2	130	30	3·4	3·2	157	30	2·6	2·1	157	30	0·4	0·1	057	30	2·5	1·5	023	30	1·6	0·7	057
0·15 a.g.	30	4·1	3·4	175	30	4·1	3·9	166	30	5·9	5·6	168	30	3·1	1·0	088	30	3·5	1·8	007	30	4·5	1·6	053
0·3 a.m.s.l.	30	5·3	4·9	192	30	4·4	4·2	164	30	6·8	6·5	170	30	3·2	0·8	082	30	3·7	1·7	030	30	4·8	1·4	055
0·6 ,,	30	6·7	6·1	195	30	3·8	3.5	166	30	6·5	6.2	167	30	4·5	0·6	170	29	3·0	0·9	360	30	5·1	1·0	099
0·9 ,,	29	5·8	5·1	181	30	2.5	1·6	179	29	4·4	4·0	154	30	4·7	2·0	270	29	4·3	2·6	279	30	4·5	1·7	245
1·5 ,,	29	4·1	3·2	143	30	2·7	1·3	016	29	3·1	2·1	093	30	5·9	5·1	258	28	7·4	7·1	245	30	6·3	5·7	251
2·1 ,,	29	3·8	2·3	093	30	4·3	2·9	041	29	3·6	2.6	073	30	9·0	8·6	262	26	10·4	10·0	251	30	10·2	9·6	256
3·0 ,,	28	5·4	3·7	047	30	4·8	4·1	051	28	5·1	3·7	043	30	12·6	12·3	271	26	13.2	12·7	253	30	12·5	12·2	265
3·6 ,,	22	6·0	4·5	027	28	5·5	4·8	055	24	6·3	4·0	031	30	14·2	13·8	272	24	14·4	13·9	263	29	14·5	14·1	270
4·5 ,,	20	5·9	3·5	360	28	5·9	2.7	031	16	6·8	3·5	001	30	15·8	15·0	280	21	15·3	14·9	273	29	15·8	15·5	275
5·4 ,,	17	6·5	2·3	350	27	5·7	0·9	337	7	6·4	2·4	319	30	14·3	13·2	285	15	17·1	16·3	279	28	16·0	15·8	278
6·0 ,,	14	6·0	1·0	295	27	6·9	1·9	323	6	8·0	4 9	327	30	15 5	14.7	281	11	13·4	12.8	279	28	15·4	14·9	274
7·2 ,,	9	6·8	3·5	248	25	8·6	4·9	300					30	17·7	16·4	276	6	15·5	15·4	281	28	17·3	16·1	279
9·0 ,,	4	11·5	10·1	264	17	10.4	8·5	280					24	23·5	21·7	273	4	21·6	20·1	303	25	22·9	20·8	279

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·2	078	30	1·2	0·7	218	30	4·7	3·9	297	30	5·4	4·8	305	30	1·9	0·6	252	30	4·2	3·6	206
0·15 a.g.	30	5·3	2·2	094	30	6·0	4·4	256	30	6·4	5·4	284	30	7·5	6·9	300	30	7·9	5·1	308	30	9·1	7·6	219
0·3 a.m.s.l.	30	5·6	2·1	096	30	6·3	4·2	275	30	6·9	6·1	282	30	8·0	7·4	301	30	8·5	5·5	313	30	7·2	6·4	229
0·6 ,,	30	5·4	0·9	112	30	7·7	5·9	305	30	5·6	5·0	287	30	8·5	8·1	299	30	9·4	6·7	314	30	5·6	4·8	235
0·9 ,,	30	4·5	2·1	231	30	8·1	7·3	306	30	7·1	6·5	287	30	8·7	8·3	296	30	9·6	7·4	306	29	5·3	4·6	241
1·5 ,,	29	7·4	6·7	253	28	9·7	9·4	297	27	8·5	7·0	300	28	9·5	9·3	292	21	9·0	8·7	294	28	3·8	2·7	248
2·1 ,,	26	9·5	9·3	261	21	11·1	10·6	289	20	11·9	11·4	289	20	9·3	9·1	286	12	10·0	9·6	283	27	3·8	2·2	306
3·0 ,,	19	11.8	11·6	263	15	13·3	12·3	281	5	14·6	13·7	280	15	11·7	11·1	279	6	11·2	10·5	275	27	5·4	3·8	337
3·6 ,,	9	7·9	7·6	268	8	12·6	11·1	290	1	1.5	1·5	255	12	14·5	14·1	280	1	12·5	12·5	280	20	5·9	4·5	343
4·5 ,,	2	12·0	11·9	289	2	9·3	9·3	300					7	17·2	16·2	273					13	8·1	5·7	311
5·4 ,,					1	11·5	11·5	300					1	13·0	13·0	290					5	7·2	4·6	289
6·0 ,,													1	12·0	12·0	295					4	6·3	4·5	280
7·2 ,,																					3	4·2	4·0	312
9·0 ,,																					1	8·5	8·5	245

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	7 5	6·9	208	30	7·1	6·9	211	30	2·3	0·7	292	30	3·2	2·9	275	30	1·1	1·0	273	30	2·7	1·8	305
0·15 a. g. .	30	12·1	10·9	206	30	11·9	11·4	218	30	7·8	3·7	314	30	7·4	6·9	287	30	5·7	2·0	304	30	5·0	3·7	312
0·3 a.m. s. l. .	30	11·1	9·3	208	30	9·5	9·1	220	30	8·4	3·9	312	30	8·3	7·8	285	30	4·0	1·6	286	30	4·9	3·3	314
0·6 ,, .	30	6·9	4·9	204	30	6·8	6·1	220	30	8·8	5·8	300	30	9·8	9·4	284	30	7·3	2·5	322	30	5·6	3·9	312
0·9 ,, .	30	4·3	2·3	203	30	5·0	4·2	218	30	8·6	7·0	296	30	10·1	9·7	284	30	7·2	3·2	317	30	6·0	4·4	308
1·5 ,, .	30	3·3	1·7	307	29	3·3	1·8	230	30	9·3	8·8	294	30	10·3	10·0	283	30	7·3	5·5	297	30	6·2	4·9	295
2·1 ,, .	30	3·7	2·7	323	29	3.6	2·6	324	29	10·7	10·3	295	29	11·2	11·0	282	30	8·3	6·9	280	30	6·4	5·7	284
3·0 ,, .	27	6·1	5.1	326	27	6·2	5·1	337	26	13·1	12·9	290	28	13·2	12·9	286	30	11·2	9·1	270	30	8·8	8·2	268
3·6 ,, .	23	7·6	6·5	330	6	8·4	7·6	347	15	12·7	12·3	294	28	14·9	14·4	290	29	12·0	11·1	270	30	11·6	11·0	265
4·5 ,, .	13	8.0	6·3	327	1	13·5	13·5	335	8	13·3	12·9	290	26	15·4	15·0	290	26	13·2	12·6	267	26	15·0	13·8	271
5·4 ,, .	8	6·6	4·5	301					5	11·2	11·0	296	25	17·3	16·8	290	23	15·0	14·2	267	25	16·1	15·3	275
6·0 ,, .	8	7·9	7·4	283					2	13·5	13·5	299	20	17·7	16·9	287	22	15·6	15·2	271	23	17·2	15·8	275
7·2 ,, .	3	11·3	8·8	303					2	14.5	14·5	295	13	17·4	16·5	287	20	16·1	15·6	275	18	19·3	16·7	278
9·0 ,, .	1	14·5	14·5	295									3	22·5	22·3	282	13	17·3	16·2	271	6	21·7	20·3	265

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I. S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·9	0·4	295	30	0·9	0·2	173	30	2·2	1·3	240	30	2·9	2·1	276	30	1·1	0·4	227	30	7·0	0·3	121
0·15 a. g. .	30	5·7	3·1	354	30	1·7	0·3	241	30	3·8	2·8	250	30	5·5	4·9	275	30	2·2	0·7	231	30	5·1	1·7	146
0·3 a.m. s. l. .	30	4·7	2·3	351																				
0·6 ,, .	30	6·3	3·7	345																	30	5·7	1·5	127
0·9 ,, .	30	5·8	3·5	326	30	1·7	0·3	200	30	3·4	2·4	249	30	5·0	4·2	276	30	2·1	0·5	167	30	6·2	1·4	033
1·5 ,, .	30	8·5	4·7	302	30	4·7	4·0	261	30	5·3	4·5	255	30	5·8	5·6	261	30	5·2	4·8	257	30	5·3	2·6	323
2·1 ,, .	28	6·9	6·3	271	30	8·6	8·2	271	27	8·6	4·2	260	30	8·7	8·4	264	30	8·7	8·3	262	30	5·3	4·1	289
3·0 ,, .	28	9·6	8·3	266	21	10·2	9·8	280	11	10·1	9·7	269	24	12·5	11·9	269	25	11·6	11·1	284	29	8·3	7·5	273
3·6 ,, .	14	12·4	11·7	259	14	9.4	8·7	280					22	14·1	13·5	275	11	10·9	9·5	284	28	10·2	9·4	265
4·5 ,, .	1	7·5	7·5	295	9	9·3	8·4	270	1	8·5	8·5	265	12	15·0	14·8	287	2	4·7	4·7	309	23	11·4	10·2	273
5·4 ,, .					3	11·2	10·7	263					6	20·0	19·8	285					15	10·6	9·3	283
6·0 ,, .					1	10·5	10·5	270					4	17·1	17·0	287					10	10·9	10·3	306
7·2 ,, .																					3	11·7	10·7	282
9·0 ,, .																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·9	1·1	306	30	1·3	0·8	043	30	0·5	0·1	278	30	0·9	0·1	168	30	1·1	0·6	156	30	2·1	1·6	351
0·15 a. g.	30	4·7	3·3	307	30	7·3	5·2	028	30	5·0	2·8	216	30	4·8	1·1	250	28	7·1	4·0	179	30	5·7	2·7	336
0·3 a.m.s.l.																								
0·6 „	30	4·9	3·3	306	30	7·5	5·5	027	30	2·3	1·0	203	30	3·1	0·7	292	28	4·7	2·5	178	30	6·5	3·3	320
0·9 „	30	4·7	3·2	300	30	7·0	5·4	016	30	6·5	4·7	236	30	4·3	1·6	255	28	6·4	3·7	186	30	6·6	3·5	311
1·5 „	30	4·9	4·1	299	30	5·4	3·7	340	30	4·4	3·5	262	29	3·9	2·5	286	28	3·8	1·2	243	30	6·9	5·3	285
2·1 „	30	5·1	4·2	291	30	5·1	4·4	292	29	3·8	2·1	304	26	4·0	3·0	288	26	4·1	2·4	312	29	7·1	6·1	276
3·0 „	30	6·1	5·1	272	30	8·0	7·6	264	29	4·6	2·8	336	23	3·8	2·3	316	21	4·7	4·0	343	22	8·1	7·2	269
3·6 „	27	8·9	8·0	275	23	10·4	9·6	263	29	5·6	3·7	345	20	4.1	3·0	338	6	5·2	1·3	289	14	8·0	7·3	286
4·5 „	25	11·4	10·5	278	2	12·0	12·0	274	18	5·8	4·1	333	17	5·4	4·0	296					5	12·8	11 8	280
5·4 „	20	11·2	10·4	281					12	7·1	4·8	321	9	6·0	5·4	053					1	12·5	12·5	275
6·0 „	18	12·1	11·2	283					10	7·8	5·1	325	5	6·8	6·2	298								
7·2 „	14	14·6	13·4	289									2	11·5	10·8	291								
9·0 „	5	19·9	18·6	280																				

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I. S. T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·3	3·4	306	30	2·1	1·1	340	30	1·2	0·6	280	30	1·9	1·1	286	30	2·5	1·7	323	30	1·6	0·2	099
0·15 a. g.	30	5·3	4·4	285	30	6·6	4·0	319	30	3·4	2·7	276	30	3·2	1·9	284	30	4·6	3·3	325	30	4·0	0·8	125
0·3 a.s.l.									30	3·4	2·7	268	30	3·3	2·0	283	30	4.6	3·2	318	30	3·5	0·9	137
0 6 „	30	5·2	4·4	285	30	7·1	4·3	317	30	5·1	3·5	285	30	3·7	2·5	280	30	4·5	3·5	303	30	5·3	1·6	273
0·9 „	30	5·7	5·0	286	30	7·5	5·2	310	30	6·2	4·0	293	30	4·4	3·0	275	30	4·9	4·2	298	29	6·2	2·3	287
1·5 „	30	6·8	5·9	281	29	6·4	4·9	294	30	6·0	4·8	299	30	5·6	4·4	278	30	5·4	4·9	293	30	5·6	2·9	290
2·1 „	30	6·9	6·1	276	25	6·1	4·6	276	30	8·1	6·5	295	24	7·7	6·7	279	28	6·6	5·8	288	29	5·5	4·6	295
3·0 „	28	8·3	7·3	260	21	8·6	6·9	262	27	10·7	10·0	290	3	10·5	10·0	288	26	8·7	8·2	289	27	8·5	7·9	300
3·6 „	27	10·9	9·8	265	14	9·2	8·3	250	17	10·4	9·8	290					22	11·2	10·5	294	23	8·9	7·1	268
4·5 „	25	15·5	14·9	264	4	10·1	9·7	264	9	11·4	11·2	288					16	11·5	10·5	299	11	10·2	9·4	309
5·4 „	20	16·2	14.9	263					3	10·0	9·8	252					8	13·9	13·0	295	1	10·0	10·0	305
6·0 „	16	14·7	14·7	254					2	13·7	13·7	262					5	16·0	15·7	276				
7·2 „	10	15·7	15·1	270					1	24·0	24·0	260					2	10·0	9·5	270				
9·0 „	5	19·1	17·9	275																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·6	1·5	227	30	2·1	0·0	040	29	1·9	0·6	332	30	2·1	0·9	236	30	3·6	2·6	269	30	2·9	1·7	305
0·15 a.g	30	4·4	2·6	229	30	6·3	1·2	226	29	7·3	3·9	350	30	3·3	1·7	245	30	6·0	4·3	300	29	8·1	4.5	295
0·3 a.m.s.l.	30	4·4	2·6	229	30	5·5	0·5	209	29	5·8	2·8	347	30	2·8	1·4	244	30	4·9	3·6	288	29	6·9	4·2	295
0.6 ,,	30	4·4	2·3	247	30	5·9	1·7	291	29	6·1	2·6	322	30	3·7	1·9	238	30	5·2	4·1	268	29	8·1	4·8	297
0·9 ,,	30	4·1	2·5	262	30	5·4	2·1	316	29	5·3	2·8	278	30	4·0	2·6	242	30	4·8	3·9	251	29	7·2	4·5	259
1·5 ,,	30	4·6	3·5	286	30	5·0	3·5	304	29	4·6	2·7	266	30	5·5	4·0	242	30	5·5	4·0	248	28	6·2	4·3	268
2·1 ,,	30	5·3	4·6	298	29	5·1	4·4	302	29	5·2	3·7	246	29	6·3	4·7	245	30	5·4	4·5	245	28	6·3	4·7	262
3·0 ,,	26	6·6	6·1	307	27	6·4	5·3	299	29	7·3	6·0	245	29	9·5	7·1	247	30	7·1	6·1	244	21	6·0	3·5	255
3·6 ,,	20	8·3	8·1	310	17	7·9	6·6	294	29	9·2	7·8	249	28	10·3	9·3	250	30	8·9	7·8	242	10	6·4	4·4	281
4·5 ,,	12	9·9	9·0	324					29	12·3	11·2	253	25	12·1	11·7	256	30	11·5	10·3	247	5	8·7	8·2	276
5·4 ,,	6	10·5	10·2	284					28	14·4	12·8	253	21	13·3	12·5	258	30	13·0	12·2	247	2	9·3	9·1	267
6·0 ,,	4	13·7	13·4	268					25	15·9	14·8	252	19	13·6	13·0	263	26	14.0	13.2	255	2	10·7	10·7	267
7·2 ,,									23	17·7	16·7	256	9	16·0	15·8	269	24	17·6	16·2	256				
9·0 ,,									20	22·1	20·5	260	1	12·0	12.0	255	20	21·7	19·3	259				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130*				1730*				2330*				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	1·6	193	30	4·0	3·2	154	30	5·0	3·9	135	30	3·8	3·2	148	30	2·5	1·7	043	30	2·7	2·3	307
0·15 a.g.	29	6·0	5·4	194	30	5·6	4·5	158	30	8·0	7·3	138	30	8·3	7·7	154	29	4·9	3·1	308	30	5·1	4·2	312
0·3 a.m.s.l.	29	6·1	5·5	195	30	5·2	4·3	169	30	6·8	6·3	145	30	6·9	6·6	154	29	4·7	1·9	354	30	4·8	4·0	313
0·6 ,,	29	6·1	5·7	189	30	4·4	3·7	190	30	5·4	4·9	155	30	5·8	5·1	157	29	4·7	2·4	316	30	4·6	3·7	309
0·9 ,,	29	5·0	4·5	178	30	3·9	3·3	200	30	3·2	1·7	174	30	3·9	2·8	157	29	4·2	1·4	301	30	4·1	2·3	299
1·5 ,,	30	4·2	3·3	132	30	4·6	3·0	142	30	3·6	2·5	090	30	3·9	2·9	115	29	4·1	2·7	089	29	3·6	1·3	056
2·1 ,,	30	6·3	5·6	085	30	7·6	6·8	093	30	6·0	5·7	079	30	6·0	5·5	086	29	6.2	5·8	080	27	5·1	4·3	066
3·0 ,,	30	8·2	7·6	069	30	9·5	9·2	070	30	9·1	8·7	060	30	8·2	7·8	073	28	8·3	8·1	080	22	8·7	8·1	073
3·6 ,,	30	8·4	7·6	056	30	10·0	9·9	065	30	8·8	8·1	060	29	8·3	7·9	068	24	7·5	7·1	078	18	7·1	6·7	080
4·5 ,,	30	8·1	6·6	056	30	8·3	7·4	068	30	7·7	6·6	063	29	7·6	6·3	065	17	5·7	5·1	078	11	6·0	5·5	079
5·4 ,,	30	7·1	5·3	065	30	7·5	5·5	085	30	6·6	4·0	072	29	6·6	3·8	065	14	5·2	3·5	092	10	5·1	4·5	084
6·0 ,,	30	7.4	4·6	067	29	7·7	4·8	091	29	6·3	3·4	080	29	6·9	4·5	069	13	5·8	4·6	087	8	5·4	4·0	078
7·2 ,,	29	7·7	2·8	068	26	6·3	2·7	093	29	7·2	2·4	048	29	6·3	2·9	052	8	4·5	2·5	067	6	4·8	4·0	069
9·0 ,,	28	8·2	2·5	277	26	7·5	2·3	282	29	8·1	2.6	312	27	9·2	2·9	304	5	5·1	3·1	080	1	4·0	4·0	210

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·4	2·2	305	30	1·5	1·3	045	29	1·2	1·1	055	30	1·1	0·9	047	30	0·8	0·7	060	30	1·3	0·6	315
0·15 a. g. . .	30	4·2	3·6	303	23	5·9	5·7	055	27	2·9	2·5	058	27	3·8	2·4	055	23	3·9	3·2	049	30	6·1	1·8	043
0·3 a.m.s.l. . .	30	4·2	3·6	306	23	6·0	5·8	058	27	2·9	2·4	058	27	3·8	2·4	058	23	3·7	3·1	054				
0·6 ,, . .	30	4·3	3·1	304	23	4·9	4·3	063	27	2·8	1·7	076	27	3·7	2·7	073	23	4·1	3·7	068	30	6·4	1·3	068
0·9 ,, . .	30	3·9	1·8	293	23	3·8	2·5	069	26	2·9	1·3	095	27	3·1	1·8	076	23	3·3	2·5	075	30	5·8	0·8	044
1·5 ,, . .	30	4·2	1·4	092	23	3·4	1·6	208	25	3·5	2·2	228	27	4·0	2·7	227	22	2·6	1·1	173	30	5·2	1.6	291
2·1 ,, . .	27	6·0	4·8	075	21	4·6	3·8	241	18	4·3	3·7	221	25	6·1	5·7	233	20	4·1	3·6	248	30	5·1	3·0	277
3·0 ,, . .	21	7·5	7·1	089	19	6·3	5·4	259	11	4·5	3·4	236	21	7·5	6.7	233	14	5·9	5·3	258	30	4·9	3·4	265
3·6 ,, . .	16	7·5	7·1	085	11	4.9	4·6	260					10	5·2	4·5	242	4	5·5	5·5	256	30	5·4	4·2	259
4·5 ,, . .	5	7·2	7·1	100	6	6·8	5·5	261					5	5·2	2·8	072	2	8·3	7·7	263	30	7·3	5·7	275
5·4 ,, . .	2	5·7	5·4	075	6	9·2	7·5	279					3	5·5	5·4	273	1	7·0	7·0	265	30	10·1	7·7	285
6·0 ,, . .					3	9·8	9·8	316					2	4·5	4·5	265	1	11·5	11·5	270	30	10·4	9·0	285
7·2 ,, . .													1	4·5	4·5	310					30	12·6	11·1	274
9·0 ,, . .																					30	20·0	17·7	265

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I. S. T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·1	0·1	228	30	1·8	0·8	300	30	1·7	0·1	315	30	1.3	0·6	315	30	2·5	2·0	290	30	2·1	1·6	319
0·15 a. g. . .	30	3·1	0·8	249	30	2·9	1·5	303	30	5·9	0·8	305	30	7·1	3·5	315	30	6·3	5·5	293	30	6·1	3·8	320
0·3 a.m.s.l. .													30	7·2	3·8	313	30	6·4	5·6	294	30	3·4	2·3	321
0·6 ,, . .	30	3.1	0·3	207	30	2·9	1·5	294	30	6·1	1·1	289	30	7·8	4·3	307	30	7·6	6·7	291	30	5·9	3·6	328
0·9 ,, . .	29	3·5	0·8	203	30	2·9	1·3	287	30	5·4	1·7	299	30	7·9	5·5	307	30	7·6	7·4	290	30	6·3	3·8	310
1·5 ,, . .	29	3·5	1·2	231	30	3·4	2·0	281	30	3·9	2·2	303	30	8·2	7·5	308	30	8·3	8·1	288	30	7·1	5·3	289
2·1 ,, . .	29	3·5	2·1	263	30	3·7	2·7	282	30	3·9	2·3	297	30	9·1	8·8	303	30	9·2	8·9	289	30	8·7	7·0	282
3·0 ,, . .	27	4·8	3·8	273	30	4·7	4·0	284	28	4·7	2·6	296	29	11·5	10·6	292	30	10·2	9·7	298	30	10·5	9·1	279
3·6 ,, . .	27	6·3	5·3	279	30	5·6	4·7	280	12	5·1	3·1	282	25	11·7	11·1	287	30	11·3	10·6	299	30	11·9	10·4	280
4·5 ,, . .	27	8·1	6 6	290	30	7·0	5·8	285	1	2·0	2·0	210	18	11·9	11·2	285	28	14·3	14·0	293	30	13·2	12·0	273
5·4 ,, . .	27	9·2	8·0	285	30	8·6	7·7	283					11	12·5	12·0	280	27	17·1	16·6	289	30	15·4	14·4	266
6·0 ,, . .	24	10·1	9·1	275	30	9·8	8·6	280					6	14.1	13.4	280	25	17·5	16·8	286	30	16·8	15·6	268
7·2 ,, . .	22	14·0	12.7	279	30	13·6	11·7	269					4	14.1	12.6	281	21	20·5	18·9	283	30	20.3	18·8	269
9·0 ,, . .	6	22·0	20·5	256	30	20·4	17·8	268					1	18·0	18.0	290	14	24.2	23.1	283	29	27.4	25·1	265

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130*				1730*				2330*				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·9	1·9	311	30	3·2	2·2	308	30	3·0	1·9	343	30	0·4	0·3	242	30	2·2	1·7	286	30	0·8	0·7	243
0·15 a. g.	30	5·0	3·1	304	30	5·8	4·1	314	30	8·3	5·3	345	30	3·4	2·7	282	30	5·2	4·3	293	30	4·7	3·6	272
0·3 a.m.s.l.	30	4·1	2·7	310	30	4·7	3·0	318	30	5·7	3·5	347												
0·6 ,,	30	5·1	3·0	294	30	5·5	3·9	308	30	7·9	4·5	238	30	1·8	1·5	248	30	3·3	2·4	293	30	2·5	2·2	251
0·9 ,,	30	5·8	3·4	289	30	5.7	4·2	308	30	7·3	4·3	229	30	4·4	3·2	312	30	5·4	4·2	293	30	5·7	5·3	297
1·5 ,,	30	7·1	4·7	288	30	6·4	4·6	291	30	6·9	4·5	295	30	5·8	3·9	357	30	4·6	3·7	297	30	6·5	5·5	322
2·1 ,,	30	7·4	5·4	280	30	6·5	5·1	285	30	8·2	6·5	276	30	4·9	1·7	351	30	3·6	2·4	304	30	4·9	2·5	342
3·0 ,,	30	8·8	6·3	278	30	7·7	6·3	270	30	9·2	7·0	262	29	4·6	2·0	141	29	4·7	0·7	093	29	4·9	2·5	097
3·6 ,,	30	9·5	7·5	265	30	9·3	7·8	265	29	10·0	8·5	267	22	6·1	2·7	165	27	5·6	1·2	099	26	5·8	3·6	106
4·5 ,,	30	11·6	10·5	260	29	12·4	10·7	268	28	11·9	11·2	269	4	9·5	5·5	242	24	5·8	1·1	340	8	6·1	0·9	043
5·4 ,,	30	14·5	13·2	260	29	14·1	13·0	269	28	13·4	12·6	267					23	7·4	4·0	290	2	8·7	4·2	245
6·0 ,,	30	17·2	16·3	261	29	16·1	15·0	269	29	15·4	14·3	268					23	8·5	4·9	275				
7·2 ,,	30	20·8	19·4	264	29	18·4	17·2	267	29	18·3	17·2	266					16	10·0	6·9	282				
9·0 ,,	29	23·4	21·6	268	26	25·1	23·3	265	26	23·7	20·8	262					8	16·7	13·8	261				

Station	PORT BLAIR																RAIPUR							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·4	328	30	2·5	0·9	060	30	1·1	0·2	286	30	1·8	0·8	324	30	1·6	0·3	251	30	1·7	1·1	279
0·15 a.g.	29	3·4	1·3	324	30	3·7	1·2	075	30	3·5	0·5	036	30	3·4	0·8	337	30	6·0	0·6	218	29	3·8	3·1	272
0.3 a.m.s.l.	29	3·4	1·3	326	30	3·6	1·0	069	30	3·5	0·7	031	30	3·4	0·9	343								
0·6 ,,	29	3·6	0·9	340	30	3·3	0·9	054	30	3·5	1·2	032	30	3·2	0·8	055	30	7·0	1·1	216	29	4·4	3·4	273
0·9 ,,	29	3·4	1·1	058	30	3·7	1·7	065	30	3·5	1·6	060	30	3·1	1·3	071	30	6·5	1·2	253	29	4·2	3·3	282
1·5 ,,	28	4·1	2·7	081	26	4·1	3·4	078	28	3·9	3·0	065	29	3·9	3·1	087	30	5·7	2·1	282	29	4·3	3·7	288
2·1 ,,	27	5·1	4·3	080	26	5·0	4·3	086	25	4·9	3·8	072	27	4·4	3·9	077	28	4·9	3·4	284	29	4·1	3·6	286
3·0 ,,	27	5·5	4·6	079	22	5·5	4·5	081	22	4·5	3·7	066	26	4·4	3·8	079	26	6·2	4·7	290	27	5·5	4·9	287
3·6 ,,	26	5·4	3·9	081	19	5·2	4·1	084	20	4·3	3·4	067	18	3·9	3·1	067	20	6·9	6·2	299	26	6·6	6·0	293
4·5 ,,	25	4·3	3·0	090	15	5·2	3·8	076	21	4·7	3·3	046	11	3·4	2·7	052	10	8·3	7·3	303	24	9·0	7·8	307
5·4 ,,	25	5·1	2·2	072	10	4·4	2·7	022	21	4·3	1·4	049	2	5·0	3·1	074	4	8·1	5·7	315	19	8·9	7·5	296
6·0 ,,	24	5·2	1·7	052	10	4·5	2·7	351	21	4·6	0·9	043	1	3·0	3·0	145	3	7·8	6·2	329	15	10·8	8·9	290
7·2 ,,	22	5·7	1·5	065	8	6·4	1·3	011	16	4·9	0·8	058					1	5·0	5·0	245	9	15·1	13·0	285
9·0 ,,	20	5·3	1·3	056	4	7·0	5·2	043	11	5·2	2·3	285					1	13·5	13·5	235	1	25·0	25·0	255

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	0·4	060	30	1·3	0·8	092	30	2·5	0·5	131	30	1·7	1·4	273	30	0·8	0·4	037	30	3·1	2·1	283
0·15 a. g.	29	6·6	1·3	098	30	8·4	4·1	100	30	5·4	1·6	146	30	6·4	5·1	276	30	5·3	2·5	009	30	4·5	2·4	313
0·3 a.m.s.l.					30	9·6	4·7	105	30	5·6	1·5	145	30	6·4	5·3	275	30	5·2	3·2	353	30	3·8	1·3	345
0·6 „	29	6·7	0·9	095	30	8·1	1·4	122	29	5·4	2·7	134	30	7·2	6·4	274	30	5·8	3·9	348	30	3·7	2·2	043
0·9 „	29	4·6	1·4	327	30	6·6	1·9	273	29	5·2	1·7	150	30	7·5	6·8	275	30	7·0	5·4	348	30	4·5	2·8	017
1·5 „	29	4·6	2·9	305	29	5·7	4·6	281	26	5·8	3·1	248	30	8·2	7·7	276	30	6·6	4·3	349	30	4·8	2·7	340
2·1 „	29	4·5	3·4	294	29	7·5	7·1	281	20	7·2	6·1	282	25	8·7	8·4	264	30	5·8	2·9	309	30	5·4	2·4	295
3·0 „	26	5·7	4·8	292	25	10·0	9·7	287	13	12·0	12·0	289	19	8·6	8·2	262	30	6·0	2·8	220	30	5·5	2·4	226
3·6 „	19	7·0	5·3	296	21	12·3	12·1	288					17	10·4	9.7	272	30	6·8	4·4	200	30	6·2	3·6	194
4·5 „	3	8·5	5·4	297	14	12·8	12·6	289					14	11·7	11·6	283	30	6·8	3·6	225	30	6·5	2·9	214
5·4 „	2	7·5	6·0	248	8	12·3	11·9	294					9	14·2	13·8	282	30	8·2	6·4	267	30	7·7	4·9	270
6·0 „					5	13·7	13·0	290					4	15·2	15·0	289	30	9·7	7·1	267	30	9·9	7·3	277
7·2 „					2	11.3	10·6	276									30	12·6	10·1	268	30	12·0	9·2	275
9·0 „																	27	20·6	18·1	268	28	18·2	15·5	273

Station	SANTA CRUZ								TIRUCHIRAPALLI												TRIVANDRUM			
Time in I.S.T.	1730*				2330*				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·9	5·2	315	30	1·3	1·1	318	30	1·7	0·3	055	30	2·9	2·3	098	30	3·8	2·9	139	30	2·2	1·6	354
0·15 a.g.	30	8·0	7·6	315	30	5·5	4·3	034	30	3·7	0·2	179	30	4·1	3·5	099	30	6·0	5·1	146	30	5·5	5·2	344
0·3 a.m.s.l.	30	6·9	6·1	315	30	5·5	4·5	335	30	4·0	0·5	234	30	4·1	3·6	101	30	6·2	5·3	146	30	5·3	5·0	341
0·6 „	30	5·9	5·1	324	30	5·2	4·5	341	30	4·2	1·4	222	30	4·0	3·6	104	29	7·0	6·0	148	30	5·2	4·6	323
0·9 „	30	4·7	3·9	327	30	6·1	5·4	350	30	3·6	1·5	199	30	3·9	3·6	104	29	6·2	5·1	138	30	5·3	4·2	316
1·5 „	30	4·3	2·4	341	30	5·4	4·1	344	30	3·1	1·4	104	30	3·7	3·2	099	29	3·7	2·4	091	30	4·7	2·6	360
2·1 „	30	4·7	2·6	306	30	5·2	3·3	321	30	5·8	5·2	072	30	4·7	4·2	068	28	5·4	4·7	058	30	5·9	5·2	062
3·0 „	30	5·6	1·8	205	30	5·5	1·4	199	30	10·0	9·6	065	30	9·3	8·9	066	27	9·7	9·2	065	30	9·1	8·6	069
3·6 „	30	6·5	2·7	188	30	6·1	2·6	162	30	10·2	9·6	063	30	10·4	9·7	058	23	10·7	9·6	059	30	8·4	7·9	074
4·5 „	30	5·8	1·6	224	30	7·4	2·0	200	25	9·0	8·5	071	28	7·6	7·0	067	16	7·7	7·6	063	30	7·3	6·5	080
5·4 „	30	7·3	4·1	272	30	7·4	3·6	250	15	7·6	6·8	085	23	6·9	5·2	069	6	6·3	5·4	072	30	6·5	5·6	076
6·0 „	29	9·2	5·4	270	30	8·4	5·4	263	14	6·7	5·8	093	21	6·3	4·4	056	1	4·0	4·0	135	30	6·7	6·1	066
7·2 „	29	12·0	9·2	263	30	11·8	9·1	263	8	5·9	2·2	041	15	6·7	4·2	053					30	6·5	3·7	056
9·0 „	29	17·5	14·8	267	28	17·6	15·6	266	6	5·7	2 3	160	7	5·8	4·4	090					29	6·9	1·4	068

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaishakha 10, 1883 Saka)

Station	TRIVANDRUM												UDAIPUR											
Time in I.S.T.	1130				1730*				2330				0530*				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	1·9	282	30	4·1	3·5	269	30	1·3	0·9	339	30	0·1	0·1	305	30	1·4	1·2	262	30	0·7	0·5	287
0·15 a.g. .	30	4·2	3·6	280	30	6·7	6·3	287	30	3·7	3·2	320	30	3·2	2·4	330	30	4·6	3·7	260	30	4·2	3·1	295
0·3 a.m.s.l. .	30	3·7	3·3	283	30	6·5	6·1	286	30	4·2	3·8	314												
0·6 „ . .	29	4·0	3·4	300	30	6·0	5·0	289	30	4·9	4·5	308												
0·9 „ . .	28	3·6	2·9	326	30	4·4	3·2	302	30	4·4	3·5	312	30	4·5	2·9	324	30	5·0	3·9	267	30	5·3	4·0	297
1·5 „ . .	15	3·7	2·3	030	30	4·3	3·1	038	26	4·3	2·2	024	30	6·3	3·3	289	30	5·6	4·7	263	30	6·2	4·8	292
2·1 „ . .	6	6·4	5·8	075	30	6·5	6·1	056	24	6·8	6·3	056	30	6·6	4·6	242	30	5·4	4·8	260	30	5·5	4·1	274
3·0 „ . .					30	8·7	7·7	061	24	9·1	9·0	067	30	8·5	7·6	236	30	7·4	7·0	254	29	7·6	6·7	244
3·6 „ . .					30	8·2	7·6	070	20	8·1	7·5	064	30	9·4	7·8	247	30	9·8	9·3	255	20	8·7	7·8	249
4·5 „ . .					30	6·7	5·9	079	15	6·3	5·6	082	23	10·6	9·7	260	26	12·9	11·9	254				
5·4 „ . .					29	6·3	5·2	074	6	6·5	5·5	085	13	13·0	12·0	259	22	15·1	13·4	252				
6·0 „ . .					29	6·0	4·8	075	4	6·1	5·3	090	11	14·2	12·2	261	19	15.2	13·8	252				
7·2 „ . .					29	6·4	3 9	065	1	4·0	4·0	165					16	15·5	13·6	262				
9·0 „ . .					28	5·9	1·5	056									3	15.8	15·4	261				

Station	VENGURLA												VERAVAL											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0·4	0·1	054	30	3·0	2·7	276	30	0·9	0·7	333	30	2·3	2·2	346	30	3·1	1·8	306	30	5·1	4·8	277
0·15 a.g. .	30	3·3	1·4	012	30	4·3	3·9	286	30	3·9	3·3	337	30	6·1	5·3	348	30	4·1	2·7	324	30	7·4	7·0	298
0·3 a.m.s.l. .	30	4·0	2·0	357	30	5·5	4·8	296	30	5·3	4·6	343	30	5·9	5.9	349	30	4·1	3.2	344	30	6·1	5·9	293
0·6 „ . .	30	5·0	3·1	357	30	4·6	3·6	302	30	6·0	5·1	342	30	5·7	4·9	352	30	4·6	3·4	350	30	4·0	3·6	300
0·9 „ . .	27	6·5	4·6	359	29	4·5	3·3	320	30	6·1	5·1	339	30	5·0	3·9	342	30	4·3	2·8	336	30	3·6	2·9	312
1·5 „ . .	22	6·8	5·2	005	29	4·3	2·6	001	29	5·1	4·6	335	30	3·8	1·6	300	30	4·0	2·0	270	30	3·9	2·4	357
2·1 „ . .	19	4·2	2·2	017	29	4·2	2·7	053	29	3·7	1·7	052	30	4·0	3·0	295	30	5·2	3·7	255	30	6·0	2·2	312
3·0 „ . .	16	4·9	3·0	113	27	5·4	4·5	087	28	6·6	5·8	092	30	5·0	4.0	264	30	7·1	6·0	245	30	5·2	3·5	265
3·6 „ . .	5	4·3	2·7	144	27	6·0	4·9	090	8	7·7	7·3	080	30	5·3	4·1	260	30	8·1	6·8	240	30	5·8	5·0	262
4·5 „ . .					26	6·3	4·6	074					29	6·7	5·7	257	29	9·3	8·0	241	30	7·4	6·5	268
5·4 „ . .					26	7·0	1·1	036					28	8·2	7·2	264	28	10·4	8·5	254	30	8·6	7·3	274
6·0 „ . .					25	8·0	1·5	312					28	8·7	7·8	264	26	10·3	8·7	251	30	8·5	7·1	272
7·2 „ .					22	8·4	3·7	303					28	11.2	9·8	274	21	13·8	12·5	261	30	10·7	8·7	270
9·0 „ . .					1	14·5	14·5	310					20	17·5	15·7	275	16	17·3	16·2	270	26	16·5	14·6	269

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Station	VERAVAL				VISAKHAPATNAM															
Time in I.S.T.	2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·0	2·7	315	30	1·3	1·1	275	30	4·4	3·8	210	30	3·2	2·6	240	30	2·5	2·3	216
0·15 a. g. .	30	9·6	9·1	314	30	6·1	5·2	283	30	4·6	3·9	210	30	5·2	3·5	248	30	4·3	4·1	222
0·3 a.m.s. l. .	30	10·6	9·9	318	30	6·5	5·5	263	30	4·2	3·7	224	30	6·0	4·4	238	30	5·4	4·9	230
0·6 „ .	30	9·3	8·6	316	30	7·3	6·5	231	30	4·2	3·5	247	30	6·6	5·6	234	30	6·3	5·0	244
0·9 „ .	30	6·6	5·3	314	30	6·4	5·5	220	30	4·1	3·5	246	30	5·0	3·8	247	30	5·4	3·3	255
1·5 „ .	30	3·9	2·0	311	30	3·5	1·9	256	30	3·1	1·3	275	30	3·6	1·6	327	30	3·3	1·0	231
2·1 „ .	30	5·0	3·1	262	30	3·1	1·0	344	29	3·1	1·2	015	30	4·1	1·7	359	29	2·8	0·9	055
3·0 „ .	29	7·1	5·9	249	30	4·9	3·9	002	28	4·8	3·3	030	30	6·1	3·4	003	27	4·3	3·1	013
3·6 „ .	24	7·3	6·1	241	30	6·8	5·1	008	28	5·7	4·1	024	30	7·3	5·1	006	25	5·7	4·3	357
4·5 „ .	16	7·9	6·8	263	30	6·9	4·4	348	23	6·5	3·9	015	30	7·7	5·2	347	16	6·9	3·4	342
5·4 „	11	7·5	6·7	270	30	7·2	3·2	319	22	6·3	2·7	334	29	8·2	4·7	312	13	6·8	4·4	325
6·0 „ .	7	9·0	7·7	266	30	7·6	3·6	297	21	7·9	2·9	334	29	8·9	5·1	298	7	6·1	4·2	314
7·2 „ .					29	11·3	7·1	283	17	9·8	4·6	295	29	11·5	8·2	277	4	5·9	3·6	301
9·0 „ .					26	14·2	12·2	280	14	13·7	9·3	283	28	14·8	12·8	276				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 Km. above mean sea level

April, 1961 (Chaitra 11— Vaisakha 10, 1883 Saka)

Ht. in Km.	n	V	v	D
	AHMEDABAD			
	1730 hr.			
10·5	1	35·0	35·0	260
	AMAUSI			
	1730 hr.			
10·5	1	28·0	28·0	280
12·0	1	40·0	40·0	270
	AMBALA			
	0530 Hr.			
10·5	2	28·2	28·1	303
12·0	2	37.0	36·7	297
14·1	1	36·5	36·5	275
	ANANTAPUR			
	0530 hr.			
10·5	12	7·5	3·1	237
12·0	5	7·1	2·4	228
	1730 hr.			
10·5	16	10·9	8·3	253
12·0	12	10·5	9·0	247
14·1	9	11·9	6·5	244
16·2	4	7·4	4·2	138
18.0	3	13·5	12·0	121
21·0	1	22.5	22·5	125
	BAIRAGARH			
	0530 hr.			
10·5	2	36 7	36·7	287
	1730 hr.			
10·5	4	24·1	24·0	261
12·0	1	19·0	19·0	265
	BAJPE			
	0530 hr.			
10·5	3	8·3	5·7	215
12·0	1	3·0	3·0	250
	1730 hrs.			
10·5	3	19·0	18·7	273
12·0	2	17·5	17·2	256
	BAMRAULI			
	0530 hr.*			
10·5	13	30·3	27·7	269
12·0	4	43·6	42·5	264
14·1	2	29·5	29·5	272
16·2	1	29·0	29·0	280
	1730 hr.*			
10·5	23	31·1	28·8	271

Ht. in Km.	n	V	v	D
	1730 hr.			
12·0	11	36·1	33·6	268
14·1	6	34·1	32·7	270
16·2	2	20·0	20·0	255
	BANGALORE			
	0530 hr.			
10·5	21	8·0	4·0	242
12·0	21	7·7	4·1	236
14·1	19	9·3	2·9	208
16·2	16	9·3	5·7	128
18·0	13	11·6	9·0	099
21·0	6	14·0	13·7	095
24·0	3	13·5	13·0	091
27.0	1	17·5	17·5	090
	1730 hr.			
10·5	2	20·7	20·0	275
12·0	1	19·5	19·5	230
14·1	1	19·0	19·0	255
16 2	1	18·0	18·0	275
18·0	1	7·0	7·0	200
21·0	1	15·5	15·5	085
24·0	1	12 0	12·0	080
	BEGUMPET			
	0530 hr.			
10·5	10	13·5	8·1	280
12·0	7	16·1	10·1	262
14·1	3	5·5	3·2	054
16·2	3	6·3	5·0	077
18·0	2	7·3	1.6	155
	1730 hr.			
10·5	4	6·0	5·4	214
12·0	4	8·3	7·6	240
14·1	2	7·5	7·9	240
16·2	2	9·0	8.3	212
18·0	1	4·0	4·0	125
21·0	1	12·5	12·5	105
24·0	1	15·5	15·5	105
27·0	1	23·5	23·5	090
	BHUBANESHWAR			
	1730 hrs			
10·5	1	10·0	10·0	240
12·0	1	17·0	17·0	214
14·1	1	19·0	19·0	215
16·2	1	9·5	9·5	210
18·0	1	12·5	12·5	115

Ht. in Km.	n	V	v	D
	DEHRA DUN			
	0530 hrs.			
10·5	1	17·5	17·5	250
	DUM DUM			
	0530 hr.*			
10·5	28	20·5	19·2	268
12·0	26	22·5	21·5	264
14·1	18	25·2	24·3	267
16·2	9	12·3	11·6	262
18·0	4	6·9	2·4	270
	1130 hr.			
10·5	25	22·6	21·4	269
12·0	23	25·5	24·0	260
14·1	20	21·0	20·0	260
16 2	14	13·2	11·3	265
18 0	7	7·6	6·2	265
21·0	1	6 0	6·0	250
	1730 hr.*			
10·5	25	22·5	21·0	266
12·0	25	21·8	20·4	261
14·1	20	20·0	19·0	264
16 2	13	15 7	13·9	262
18·0	7	14·8	6·7	285
21·0	1	16·5	16·5	255
	2330 hr.			
10·5	24	20·1	17·5	264
12·0	15	21·6	20·8	262
14·1	12	24·2	19·3	263
16·2	5	17·0	15·8	257
18·0	2	10·0	8·3	247
21·0	2	10·0	9·7	277
	GADAG			
	0530 hr.			
10·5	4	8·9	8·4	228
12·0	2	6·5	6·3	228
14·1	1	6·5	6·5	225
	1730 hr.			
10·5	5	11·1	10·0	257
12 0	3	9·7	9·6	247
14·1	3	7·5	6·5	209
16·2	2	8·7	7·9	146
18·0	1	10·5	10·5	090

Ht. in Km.	n	V	v	D
	GANNAVARAM			
	0530 hr			
10·5	1	13·0	13·0	285
	1730 hr.			
10·5	9	12·8	9·9	281
12·0	7	12·5	11·0	264
14·1	5	8·6	7·4	251
16·2	3	6·7	1·7	316
18·0	3	4·5	2·8	117
21·0	1	10·5	10·5	095
	GAUHATI			
	0530 hr.*			
10·5	19	29·2	27·8	280
12·0	14	33·9	32·0	272
14·1	6	41·0	39·3	275
16·2	1	27·5	27·5	265
	1130 hr.			
10·5	2	31·5	31·5	285
	1730 hr.*			
10·5	20	28·7	26·5	270
12·0	13	33·5	30·7	281
14·1	4	42·7	41·8	268
	GOPALPUR			
	0530 hr.			
10·5	1	7·0	7·0	250
12·0	1	9·5	9·5	245
	GORAKHPUR			
	1730 hr.			
10·5	2	23·5	23·3	284
12 0	1	33·0	33·0	290
	GWALIOR			
	0530 hr.			
10·5	5	22·8	22·2	274

Ht. in Km.	n	V	v	D
	JABALPUR			
	1730 hr.			
10·5	1	22·5	22·5	275
	JAIPUR			
	1730 hr.			
10·5	2	23·7	23·7	288
	JODHPUR			
	0530 hr.*			
10·5	12	27·3	21·8	253
12·0	8	39·1	37·5	260
14·1	1	23·0	23·0	235
	1730 hr*			
10·5	12	25·8	22·1	259
12·0	5	39·5	36·0	267
14·1	1	23·5	23·5	205
	MADRAS			
	0530 hr.			
10·5	25	9·0	4·4	256
12·0	24	9·0	4·7	228
14·1	20	9·0	3·5	217
16·2	9	9·4	2·2	160
18·0	4	7·8	7·7	106
21·0	1	8·5	8·5	125
	1130 hr.			
10·5	22	9·8	5·3	246
12·0	19	11·4	6·4	238
14·1	15	11·0	7·4	226
16·2	4	9·6	5 6	164
18·0	2	5·3	5·1	100
	1730 hr.*			
10·5	25	9·4	5·2	248
12·0	24	10·7	6·4	249
14·1	19	10·5	7·8	245
16·2	8	10·2	3·7	185
18·0	4	18·9	18·9	098
	2330 hr.			
10·5	27	8·8	4·3	256
12·0	20	10·1	5·7	229
14·1	16	11·3	6·1	201
16·2	8	9·7	5·7	135
18·0	4	11·9	9·9	105
	MINICOY			
	0530 hr.			
10·5	3	4·0	1·7	082

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9. Km. above sea level

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Ht. in Km.	n	V	v	D
	NAGPUR			
	0530 hr.*			
10·5	30	23·4	21·8	267
12·0	29	23·9	22·4	260
14·1	26	18·2	16·9	252
16·2	23	12·3	10·2	253
18·0	16	7·4	1·9	269
21·0	6	7·6	2·4	251
24·0	1	5·5	5·5	315
	1130 hr.*			
10·5	2	21·0	21·0	270
12·0	1	19·0	19·0	260
14·1	1	11·5	11·5	235
	1730 hr.*			
10·5	30	24·1	22·0	266
12·0	30	25·3	24·0	265
14·1	27	20·7	19·1	259
16·2	23	12·3	9·7	250
18·0	16	11·6	5·1	237
21·0	4	9·2	3·9	220
	NANPARA			
	1730 hr			
10·5	7	28·0	26·3	284
12·0	4	40·4	37·9	280
14·1	1	39·5	39·5	275
	NEW DELHI			
	0530 hr.*			
10·5	25	30·1	28·2	267
12·0	19	30·5	29·6	258
14·1	11	28·8	27·7	26[illegible]
16·2	2	31·0	31·0	273
18·0	1	36·0	36·0	265

Ht. in Km.	n	V	v	D
	1130 hr			
10·5	26	29·5	27·3	267
12·0	24	33·0	30·6	268
14·1	11	38·7	36·8	260
16·2	7	31·0	28·9	268
18·0	3	11·3	9·1	210
21·0	1	7·0	7·0	215
	1730 hr.*			
10·5	22	28·0	26·7	273
12·0	17	34·8	33·1	270
14·1	10	35·6	35·0	265
16·2	4	42·7	41·6	255
18·0	3	49·7	49·3	259
	2330 hr.			
10·5	23	28·1	26·1	263
12·0	17	35·6	35·3	265
	POONA			
	1730 hr.*			
10·5	3	12·7	12·4	250
12·0	2	9·3	7·9	271
	PORTBLAIR			
	0530 hr.			
10·5	15	5·0	1·0	090
12·0	9	4·7	1·6	139
14·1	5	7·0	6·5	104
16·2	2	6·0	6·0	094
18·0	1	18·0	18·0	055
	1130 hr			
10·5	1	5·0	5·0	045
12·0	1	3·0	3·0	175
	1730 hr.*			
10·5	10	6·4	3·5	227
12·0	8	7·5	4·2	196
14·1	3	5·8	4·7	092
	SANTACRUZ			
	hr. 0530			
10·5	25	22·4	21·2	263
12·0	16	25·3	25·9	267
14·1	4	29·9	28·1	280

Ht. in Km.	n	V	v	D
	1130 hr			
10·5	22	23·5	21·7	261
12·0	14	28·9	25·4	265
14·1	4	28·6	25·7	251
16·2	1	8·0	8·0	225
18·0	1	3·0	3·0	165
	1730 hr.*			
10·5	24	21·8	19·7	268
12·0	20	24·5	22·0	258
14·1	9	21·8	20·8	268
16·2	3	24·8	23·3	255
	2330 hr.*			
10·5	23	23·1	20·9	267
12·0	8	28·9	25·6	273
14·1	1	20·0	20·0	265
	TIRUCHIRAPALLI			
	0530 hr.			
10·5	1	6·5	6·5	135
	1730 hr.			
10·5	5	4·9	4·1	180
12·0	2	5·3	5·2	155
14·1	1	4·5	4·5	135
	TRIVANDRUM			
	0530 hr.*			
10·5	28	6·3	1·9	145
12·0	27	5·8	2·4	141
14·1	23	12·3	4·9	148
16·2	13	13·7	6·9	123
18·0	5	17·6	16·3	093
21·0	2	24·7	24·0	099
24·0	1	21.5	21.5	130
	1730 hr.*			
10·5	28	5·5	2·6	174
12·0	25	7·7	2·7	147
14·1	22	9·4	5·6	110
16·2	18	10·8	7·7	097
18·0	8	14·7	13·0	097
21·0	1	18·0	18·0	080
	VERAVAL			
	0530 hr.*			
10·5	20	21·7	20·4	270
12·0	12	23·7	21·4	268
14·1	8	19·6	18·5	271
16·2	4	16·0	16·0	253
18·0	2	11·7	11·7	242

Ht. in Km.	n	V	v	D
	1130 hr.*			
10·5	8	21·9	20·7	265
12·0	2	18·3	17·2	247
14·1	1	17·5	17·5	290
	1730 hr.*			
10·5	21	20·7	19·0	271
12·0	18	20·4	18·8	279
14·1	11	24·0	22·9	269
16.2	4	19.9	18.0	274
18·0	1	19·5	19.5	235
	VISAKHAPATNAM			
	0530 hr.*			
10·5	26	18.3	16.2	264
12·0	24	19.5	18.0	255
14.1	19	18.0	15.3	254
16.2	16	12.6	5.3	235
18.0	9	15.1	6.0	278
21.0	5	9.4	1.5	146
	1130 hr.			
10.5	13	14.4	12.5	265
12.0	12	19.0	17.5	253
14.1	8	12.6	12.1	263
16.2	7	6.8	4.5	196
18.0	6	6.6	1.2	061
21.0	3	11.6	11.3	105
24.0	1	6.0	6.0	025
27.0	1	9.5	9.5	025
	1730 hr.*			
10.5	25	18.9	17.0	269
12.0	20	18.0	15·8	259
14.1	17	14.6	11.9	261
16.2	12	10.6	3.6	184
18.0	5	14.0	3.0	095
21.0	3	16.8	2.3	229

RADIOSONDE DATA

List of Radiosonde Stations in India

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bangalore	Fan type	10th March, 1961	00	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1946	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

(A) From Ascents at 0000 hr. G. M. T.

April, 1961 (Chaitra 11-Vaisakha 10, 1883 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (1003 mb.)						BANGALORE (909 mb.)						BOMBAY (1006 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	27	098	296·5	303	291	284·3	30	921	295·7	297	294	291·9	30	013	297·0	300	294	294·9
1000	27	051	..	..	..	..	30	085	..	..	..	..	30	071	..	..	..	..
900	27	979	299·6	303	292	276·7	30	1005	295·0	297	293	290·9	30	996	297·3	301	294	279·9
850	27	1482	296·0	302	291	274·3	30	1500	293·5	297	289	286·0	30	1495	295·6	299	293	275·3
800	27	2005	291·8	299	285	272·9	30	2023	291·8	295	287	279·8	30	2020	292·6	299	290	274·0
700	27	3133	283·1	291	278	265·3	30	3153	283·7	287	279	273·4	30	3152	283·8	287	281	269·8
600	27	4391	273·7	282	268	261·1	30	4416	274·3	278	269	265·8	30	4414	274·0	278	270	262·4
500	26	5830	263·9	269	259	..	29	5866	266·8	271	260	..	30	5854	264·7	269	259	..
400	25	7514	252·4	258	247	..	27	7570	256·4	260	249	..	30	7553	254·5	259	247	..
300	24	9584	239·3	245	232	..	26	9670	241·8	248	234	..	30	9646	241·1	245	237	..
250	20	10842	231·5	239	222	..	24	10932	231·9	239	223	..	28	10912	232·4	238	227	..
200	19	12321	223·4	230	215	..	22	12414	219·3	229	211	..	25	12398	222·6	231	216	..
175	18	13180	219·8	228	217	..	21	13259	213·3	221	198	..	23	13203	217·2	226	213	..
150	13	14164	216·3	222	213	..	18	14206	206·3	210	199	..	21	14227	210·8	219	198	..
125	8	15257	209·6	216	206	..	16	15277	201·7	211	194	..	14	15340	204·0	215	187	..
100	6	16634	204·0	211	200	..	13	16609	196·8	206	189	..	9	16649	198·1	209	191	..
80							10	17911	195·9	208	189	..						..
70							8	18703	196·3	209	192	..						..
60							6	19540	196·3	201	192	..						..
50							6	20574	201·7	209	194	..						..

	CALCUTTA (1005 mb.)						GAUHATI (1002 mb.)						JODHPUR (983 mb.)					
Surface	30	006	298·9	303	294	296·9	30	049	294·9	299	290	293·2	29	218	296·1	303	289	281·3
1000	30	053	..	..	..	..	30	067	..	..	..	..	29	067	..	..	..	..
900	30	979	297·2	304	289	285·2	30	979	293·0	299	284	286·5	29	992	298·0	304	289	275·6
850	30	1477	294·1	299	285	281·2	30	1470	290·3	296	283	283·5	29	1490	294·5	301	286	271·0
800	30	1998	290·1	295	282	278·7	30	1995	286·9	292	281	280·5	29	2011	290·0	296	282	269·8
700	30	3119	281·3	290	273	271·8	30	3097	279·6	284	274	272·7	29	3132	281·4	287	273	262·5
600	30	4373	273·0	282	263	260·5	30	4346	272·4	280	267	260·9	29	4388	273·2	279	267	262·2
500	30	5812	264·9	273	257	..	30	5782	264·8	272	259	..	29	5825	264·0	274	257	..
400	29	7511	253·5	260	246	..	30	7479	253·3	259	247	..	29	7513	252·4	262	246	..
300	28	9598	239·8	245	230	..	26	9554	239·1	248	233	..	27	9574	237·7	244	230	..
250	27	10855	231·2	237	222	..	25	10806	231·7	241	223	..	21	10827	230·0	237	219	..
200	25	12331	222·2	228	215	..	20	12289	223·2	233	213	..	20	12310	223·3	230	215	..
175	20	13192	217·2	224	206	..	14	13160	219·4	227	210	..	16	13182	220·6	227	214	..
150	20	14162	211·9	219	204	..	12	14114	213·9	220	206	..	12	14175	216·6	223	210	..
125	12	15309	205·0	214	198	..	9	15242	212·2	219	207	..	11	15295	212·4	219	205	..
100	11	16640	199·0	209	189	..	8	16622	208·7	219	202	..	10	16680	208·9	214	201	..
80	6	17879	195·8	208	189	..	6	18002	207·2	219	199	..	6	18056	207·0	210	202	..
70													5	18890	207·2	210	204	..
60													..	..	..	..	..	..
													..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 hr. G. M. T.

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1006 mb.)						NAGPUR (972 mb.)						NEW DELHI (983 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	015	300·1	302	298	297·9	30	311	298·6	305	292	283·0	30	210	294·1	299	289	283·5
1000	29	070	..	..	..	..	30	057	..	..	..	..	30	055	..	..	..	..
900	29	995	296·4	305	291	283·5	30	990	300·8	306	293	278·2	30	976	298·1	304	292	277·9
850	29	1491	294·8	302	291	277·7	30	1493	297·5	304	292	275·7	30	1474	294·4	301	287	275·1
800	29	2014	291·9	296	288	273·4	30	2019	292·7	299	287	275·1	30	1981	290·1	297	283	272·6
700	29	3143	283·7	288	281	276·1	30	3150	283·3	288	279	271·5	30	3113	281·2	286	277	265·9
600	29	4409	275·7	281	273	260·5	30	4408	271·9	276	268	264·1	30	4364	272·1	276	267	256·1
500	29	5861	266·7	270	264	..	30	5842	263·8	268	261	..	30	5792	262·3	267	256	..
400	29	7575	256·7	262	252	..	30	7533	252·6	257	247	..	30	7473	251·1	255	243	..
300	27	9676	241·8	249	233	..	30	9607	238·4	245	232	..	30	9528	236·4	242	232	..
250	26	10932	230·8	239	219	..	30	10859	228·9	235	223	..	29	10772	228·3	236	220	..
200	24	12403	218·9	229	208	..	29	12331	219·6	224	213	..	29	12243	221·9	231	212	..
175	23	13242	213·2	226	201	..	28	13162	213·7	219	208	..	25	13109	218·4	225	209	..
150	22	14192	206·3	221	193	..	27	14133	207·5	215	197	..	21	14098	215·6	224	210	..
125	13	15304	202·8	213	199	..	27	15216	202·6	214	195	..	20	15245	211·3	221	207	..
100	9	16624	197·8	202	192	..	26	16548	199·4	211	192	..	17	16628	206·0	218	198	..
80	6	17909	199·3	205	195	..	21	17866	201·4	211	194	..	10	17984	205·2	213	201	..
70	7	18685	201·3	211	189	..	16	18656	202·9	217	194	..	9	18792	206·4	210	204	..
60	5	19621	202·6	213	191	..	13	19573	205·0	219	194	..	..	..	..	..	..	..
50	..	..	..	..	..	..	12	20653	209·3	222	197	..	..	..	..	..	..	..
40	..	..	..	..	..	..	6	21851	207·8	215	201	..	..	..	..	..	..	..

	PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1007 mb.)					
Surface	29	079	298·5	302	296	297·8	30	064	299·4	301	297	296·9	30	008	294·8	298	292	291·3
1000	29	078	..	..	..	..	30	070	..	..	..	..	30	072	..	..	..	..
900	29	1000	294·8	297	293	288·0	30	993	294·1	297	291	290·5	30	999	298·1	304	289	275·7
850	29	1493	292·5	295	289	283.0	30	1488	291·4	294	289	287·2	30	1498	295·2	300	287	272·8
800	29	2012	288·8	291	285	279·5	30	2007	288·9	291	285	282·3	30	2022	291·8	297	286	269·2
700	29	3135	282·5	285	279	272·0	30	3130	283·2	286	280	270·4	30	3151	283·5	295	278	266·0
600	28	4397	275·8	281	271	265·0	30	4394	275·5	279	272	264.0	29	4413	273·6	281	267	262·9
500	28	5849	267·2	277	261	..	30	5848	267·4	271	262	..	28	5850	263·9	269	257	..
400	26	7563	256·8	262	247	..	30	7563	257·0	261	248	..	28	7542	252·7	259	248	..
300	26	9670	241·9	245	234	..	29	9666	242·2	247	233	..	21	9619	237·5	243	233	..
250	25	10930	231·1	226	225	..	28	10934	232·4	237	225	..	19	10861	228·7	238	221	..
200	24	12398	218·1	226	213	..	27	12408	219·5	229	206	..	12	12341	219·9	226	212	..
175	18	13241	212·3	221	206	..	25	13236	213·0	225	200	..	9	13230	216·4	222	206	..
150	13	14201	207·2	217	202	..	25	14200	206·2	221	193	..	7	14239	212·0	218	202	..
125	10	15282	201·7	208	195	..	19	15283	200·4	216	189	..	5	15368	207·2	217	199	..
100	8	16612	196·7	199	195	..	16	16613	194·6	209	188	..	..	..	..	..	..	..
80	..	..	..	..	..	..	11	17863	194·7	201	189	..	..	..	..	..	..	..
70	..	..	..	..	..	..	7	18653	199·0	206	190	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 hr. G. M. T.

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	41	300·1	301	298	296·3
1000	30	066	..	..	..	..
900	30	997	298·8	303	295	284·4
850	30	1498	296·5	303	293	281·2
800	30	2024	292·4	297	287	279·4
700	30	3154	283·3	288	279	273·6
600	30	4415	273·4	277	269	265·2
500	30	5856	265·0	269	259	..
400	30	7557	254·9	260	249	..
300	27	9651	241·0	249	234	..
250	26	10913	230·5	234	222	..
200	24	12390	219·3	225	212	..
175	22	13226	213·3	219	202	..
150	21	14200	206.6	215	196	..
125	20	15264	201·0	212	193	..
100	19	16587	195·7	208	187	..
80	13	17900	195·5	206	190	..
07	12	18683	196·7	205	187	..
60	11	19609	199·4	209	188	..
50	9	20629	202·0	212	189	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 hr. G.M.T.

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (993 mb.)						BOMBAY (1005 mb.)						CALCUTTA (1003 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew point
Surface	27	098	310·3	315	304	281·7	30	013	303·7	306	301	294·9	30	006	306·0	310	300	295·2
1000	27	032	..	..	..	..	30	058	..	..	..	..	30	029	..	..	..	..
900	27	982	303·1	309	297	278·2	30	994	300·5	305	294	282·0	30	971	300·7	306	294	286·6
850	27	1448	298·3	304	293	275·5	30	1496	297·5	301	290	276·5	30	1473	296·7	301	292	282·6
800	27	2015	293·4	300	288	273·6	30	2025	294·0	297	289	275·1	30	2000	292·3	297	286	280·4
700	27	3146	283·9	290	279	267·4	30	3162	285·3	289	280	269·9	30	3128	282·9	288	278	272·3
600	27	4410	275·0	282	270	258·3	30	4433	276·1	280	272	260·9	30	4391	274·9	281	269	260·1
500	27	5855	265.7	272	259	..	29	5887	267·1	272	263	..	30	5838	266·0	272	261	..
400	25	7551	254·0	262	249	..	29	7601	256·8	262	251	..	29	7546	254·6	261	247	..
300	23	9635	240·0	248	232	..	29	9711	243·2	248	236	..	26	9635	241·0	251	232	..
250	20	10909	232·7	242	223	..	26	10993	235·0	241	229	..	25	10893	232·2	239	223	..
200	19	12413	225·4	231	219	..	23	12508	225·8	233	221	..	24	12387	223·3	232	216	..
175	14	13309	220·6	226	214	..	21	13387	220·9	229	216	..	21	13237	217·1	223	212	..
150	12	14304	215·2	221	209	..	19	14376	215·3	223	209	..	21	14207	211·0	216	205	..
125	9	15418	209·9	216	203	..	17	15506	209·4	217	203	..	16	15326	204·9	215	198	..
100	7	16819	204·7	207	201	..	13	16901	205·6	211	200	..	15	16659	199·7	215	191	..
80	5	18184	204·6	205	198	..	10	18279	203·7	217	199	..	8	17910	196·9	202	193	..
70	..	..	..	..	..	..	6	19105	204·6	208	200	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mbs.	GAUHATI (999 mb.)						JODHPUR (981 mb.)						MADRAS (1004 mb.)					
Surface	30	049	302·3	307	296	299·1	30	218	308·8	315	302	284·0	29	015	305·1	307	303	297·4
1000	30	036	..	..	..	..	30	046	..	..	..	..	29	053	..	..	..	..
900	30	969	296·9	305	291	289·4	30	995	301·5	307	295	278·3	29	989	298·8	305	294	283·8
850	30	1466	293·5	300	287	286·5	30	1499	297·2	305	291	274·6	29	1489	296·0	303	292	277·1
800	30	1987	289·4	295	285	283·4	30	2024	292·5	300	286	273·0	29	2014	292·8	299	289	273·4
700	30	3108	281·6	287	277	274·6	30	3154	282·8	289	276	265·9	29	3146	284·3	289	280	269·5
600	29	4365	274·7	280	269	265·3	30	4416	274·1	280	269	256·4	29	4414	275·9	280	271	262·3
500	28	5809	266·3	272	261	..	30	5857	264·5	271	257	..	29	5869	267·6	273	263	..
400	28	7514	255·0	260	250	..	30	7553	253·0	260	247	..	29	7587	257·3	264	253	..
300	25	9599	241·0	247	233	..	27	9634	238·3	248	229	..	28	9695	242·5	247	234	..
250	23	10869	233·0	241	225	..	23	10882	231·4	237	224	..	25	10976	233·6	238	224	..
200	22	12362	223·7	231	214	..	16	12364	224·0	229	218	..	23	12463	221·5	229	210	..
175	14	13201	218·9	226	208	..	15	13335	221·0	225	216	..	20	13297	215·3	223	205	..
150	9	14186	215·2	221	209	..	13	14287	217·0	222	214	..	18	14288	209·0	219	196	..
125	5	15212	209·4	217	203	..	10	15363	212·3	217	208	..	12	15359	202·4	212	195	..
100	5	16570	205·2	213	195	..	8	16771	207·1	215	203	..	9	16658	196·3	201	192	..
80	..	..	..	..	..	..	..	..	..	..	..	..	6	17933	200·8	210	191	..
70	..	..	..	..	..	..	..	..	..	..	..	..	5	18714	205·0	212	194	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 hr. G. M. T.

April, 1961 (Chaitra 11—Vaisakha 10, 1883 Saka)

Standard Pressure Surface mbs.	NAGPUR Surf. Pr. (969 mb.)						NEW DELHI (982 mb.)						PORT BLAIR (999 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	311	311·4	316	307	284·0	30	210	307·7	314	302	284.8	30	079	302.7	304	296	298·4
1000	30	020	..	..	..	..	30	042	..	..	..	..	30	066	..	..	..	..
900	30	977	305·7	311	300	280·0	30	985	300·8	307	293	280·0	30	993	294·9	299	291	290·8
850	30	1487	301·5	307	296	278·1	30	1487	295.9	301	291	277·4	30	1488	292·1	295	287	286·6
800	30	2021	295·8	299	290	277·3	30	2010	291·1	297	286	275·1	30	2007	288.9	292	282	282·4
700	30	3161	285·5	291	281	273·2	30	3132	281·5	288	275	268·0	30	3131	282·8	287	277	274·8
600	30	4430	274·3	279	271	267.2	30	4383	272.6	279	265	260·3	30	4396	275.1	280	269	265·4
500	30	5872	264·3	269	260	..	30	5817	263.3	270	255	..	29	5852	267·1	271	264	..
400	30	7568	253·6	259	247	..	30	7502	251.6	256	243	..	29	7566	257·0	261	253	..
300	30	9648	238·8	245	231	..	29	9566	236.8	243	223	..	28	9669	241·3	248	226	..
250	30	10902	229·8	239	223	..	28	10809	228.1	236	216	..	28	10936	231·6	241	219	..
200	29	12371	220·3	227	213	..	27	12292	222.0	234	209	..	28	12415	220.1	230	209	..
175	28	13206	214·0	222	206	..	25	13147	219.0	232	211	..	22	13249	212·1	225	200	..
150	27	14179	208·1	217	198	..	24	14131	215.8	227	208	..	15	14198	206·6	218	196	..
125	26	15266	203·1	213	195	..	20	15271	212.1	220	206	..	11	15315	201·6	214	193	..
100	25	16605	199·2	208	191	..	19	16646	207.5	216	200	..	7	16627	198·7	209	190	..
80	22	17948	200·8	211	193	..	16	17967	204.4	211	200	..	..	..	..	..	..	..
70	15	18779	201·9	212	193	..	16	18752	203·7	212	197	..	..	..	..	..	..	..
60	11	19735	206·1	217	195	..	13	19728	205·1	210	200	..	..	..	..	..	..	..
50	7	20806	206·1	220	197	..	10	20841	208·7	213	203	..	..	..	..	..	..	..

	TRIVANDRUM (999 mb.)						VERAVAL (1007 mb.)						VISAKHAPATNAM (1001 mb.)					
Surface	30	064	303·3	305	300	297·6	30	008	301·3	303	300	297·4	30	041	303·0	304	301	298·0
1000	30	057	..	..	..	..	30	069	..	..	..	..	30	052	..	..	..	..
900	30	990	296·0	298	291	289·8	30	1003	299·7	305	296	276·6	30	987	299·5	303	293	285·2
850	30	1486	292·5	299	288	287·9	30	1506	296.7	303	293	272·1	30	1489	296·6	300	291	281·8
800	30	2007	289·3	295	284	284·3	30	2032	293·0	299	288	269·7	30	2015	292·7	297	286	278·4
700	30	3132	283.0	289	277	273·0	30	3164	284·6	290	280	265·7	30	3148	284·1	290	277	273·7
600	30	4399	276·5	283	266	270·6	30	4431	275·0	279	271	262·9	30	4413	274·1	278	269	267·2
500	29	5856	267.9	273	261	..	30	5877	265·8	270	262	..	30	5858	265·7	270	261	..
400	29	7581	257·2	265	251	..	30	7581	254·3	260	248	..	30	7563	254·5	263	250	..
300	28	9687	241·9	251	233	..	26	9676	240·5	249	236	..	29	9652	239·9	250	233	..
250	27	10951	233·4	242	224	..	23	10930	231·6	243	221	..	28	10833	230·4	235	225	..
200	25	12433	219·8	230	213	..	22	12415	220·9	233	210	..	26	12371	218·5	227	210	..
175	25	13268	213·0	221	207	..	17	13270	214·9	227	204	..	25	13208	212·4	222	203	..
150	24	14235	205·7	215	199	..	15	14243	209·6	222	199	..	24	14171	205·4	218	195	..
125	23	15301	199·1	211	188	..	9	15361	202·6	209	193	..	21	15242	199·4	207	192	..
100	22	16619	193·9	205	187	..	6	16737	199·8	205	191	..	18	16550	193·5	204	187	..
80	15	17884	194·2	207	187	..						..	15	17800	195·9	201	187	..
70	10	18617	195·9	210	187	..							9	18684	197·0	205	185	..
60	7	19473	196·4	205	191	..							8	19524	199·4	206	184	..
50	5	20454	201·4	207	193	..							5	20507	202·6	211	184	..

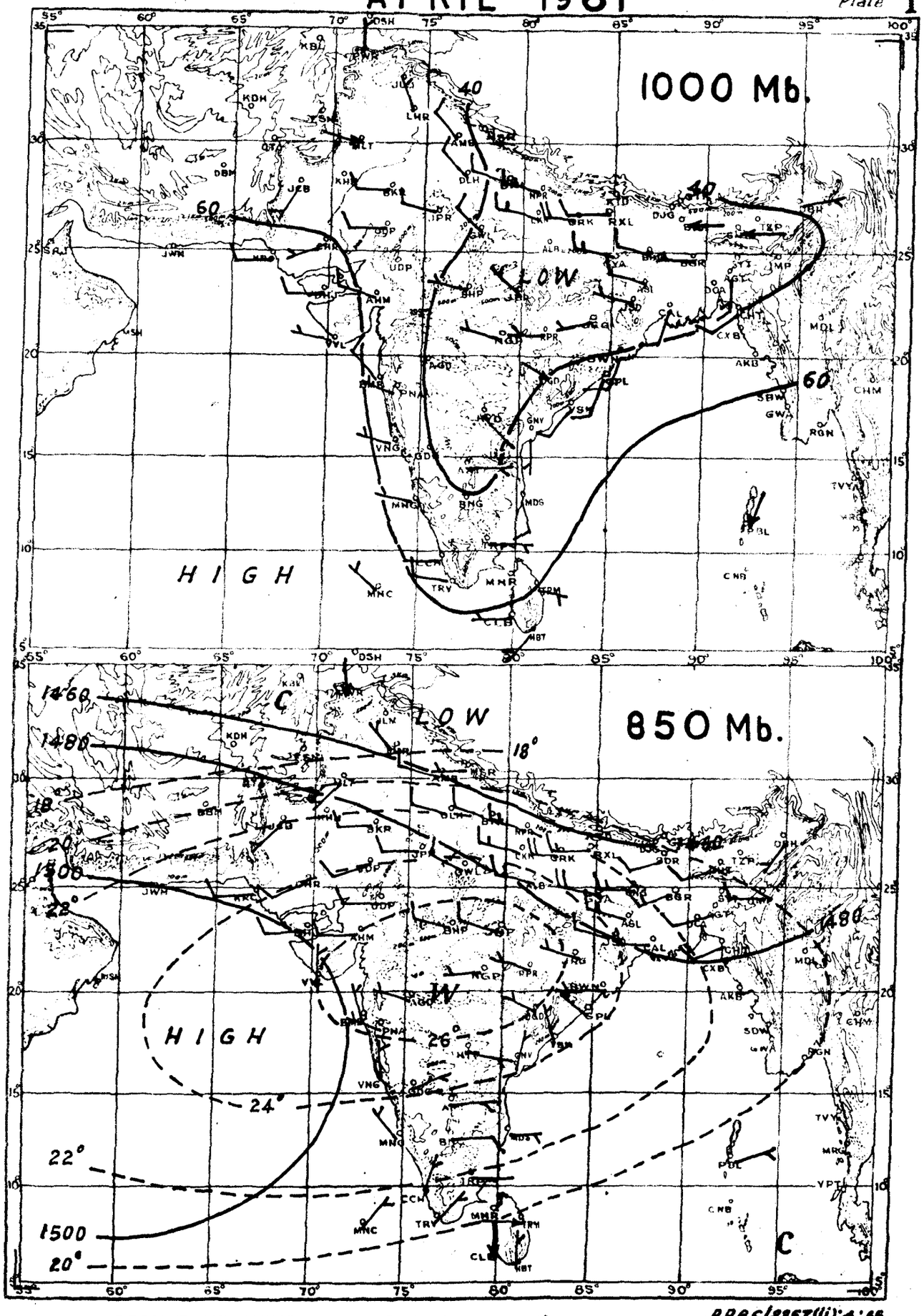
NOTE—Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperatures less than 273°A.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

APRIL 1961

Plate I



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

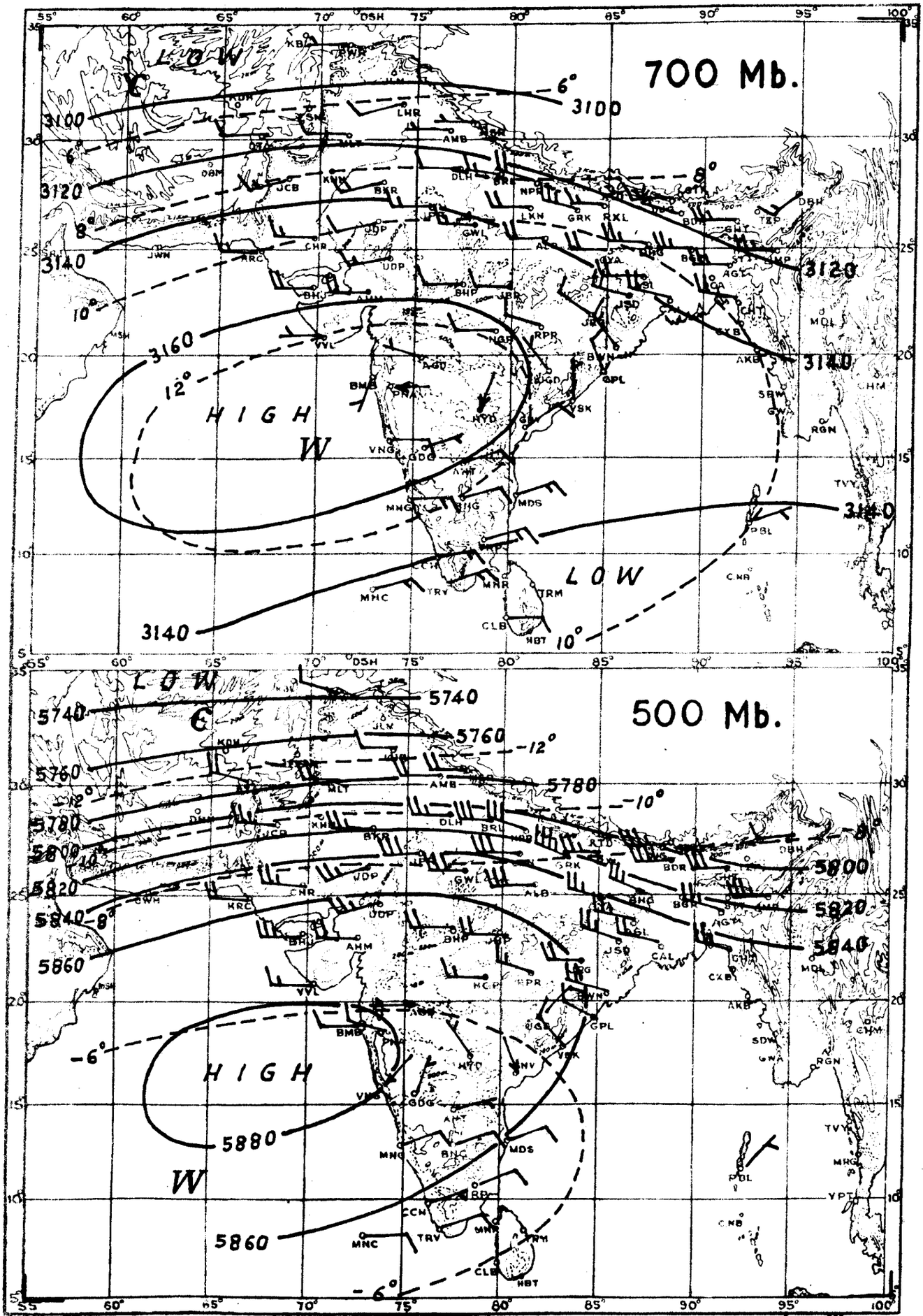
- - - - - - - - Isotherms in degrees centigrade ———— Contours in geopotential metres.

PROC/2357(ii):4:65

MONTHLY MEAN CONSTANT PRESSURE CHARTS

APRIL 1961

I.Met.D. *Plate* II



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

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

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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

May

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Chief features—

(i) Development of two severe cyclonic storms in the Bay of Bengal and third severe cyclonic storm in the Arabian Sea,

(ii) Early onset of the monsoon over the south Peninsula, and

(iii) Heat wave in Bihar State.

In association with an easterly wave, a depression developed in the Andaman Sea with centre about 350 kms east of Port Blair on 5th May. Moving in a northwesterly direction, it intensified into a cyclonic storm on the evening of 6th which became severe by the evening of 7th. It moved in a northerly direction and crossed the Sunderbans coast near Barisal early on the morning of 9th. Thereafter, it weakened rapidly and moved away as a low pressure wave across Assam on the 10th May. In association with it, the north Bay Islands experienced a spell of very heavy rains from 4th to 7th. Local or scattered thundershowers also occurred in Orissa, West Bengal and Assam from 8th to 10th. A few noteworthy amounts were Mayabandar 12 cm each on 5th and 6th and 40 cm on 7th, Long Island 15 cm on 7th, Haflong 16 cm, Chaparmukh 14 cm, Shillong 13 cm and Cherrapunji 11 cm on 10th. A severe squall of 90 knots caused extensive damage at Agartala Airport on 10 th. According to press reports, a tidal bore 16 feet high "roared menacingly over the shore islands of Ramgati, Hatia and Sonedwip" in East Pakistan when the storm struck the coast.

Another easterly wave entered the Andaman Sea on 12th May, crossed the south Peninsula by 16th and gave rise to a trough of low pressure in southeast Arabian Sea off the Malabar coast on 17th. This trough gradually shifted northwards along the west coast. It concentrated into a depression and then rapidly into a cyclonic storm centred about 150 kms westsouthwest of Honavar on the morning of 23rd. It intensified further into a severe cyclonic storm of small extent that evening and crossed coast between Devgad and Ratnagiri on the night of 24th-25th May. Later, it took an easterly course, gradually weakened and became unimportant near coastal Andhra Pradesh by 28th. Under the influence of this system, considerable thunderstorm activity occurred in the south Peninsula from 14th to 17th. The Arabian Sea branch of the monsoon advanced into extreme south Kerala on 18th and rapidly extended northwards upto Lat. 16° N by 22nd about ten to fourteen days earlier than the normal date. A few noteworthy amounts of rainfall were: Karwar 17 cm on 21st, Vengurla 30 cm, Karwar 21 cm, Honavar 17 cm and Fort Cochin and Palghat 15 cm each on 22nd; Amini Devi 15 cm on 23rd; Devgad 18 cm and Kolhapur 16 cm on 25th and Mercara 16 cm on 26th. As a result of the gales accompanying the the severe cyclonic storm, about five lakh fruit trees were reported to have been razed to the ground in the four talukas of Sawantwadi, Vengurla, Malwan and Kudal. About 1700 houses were reported to have been completely destroyed and about 25,000 houses partially damaged.

In association with another easterly wave, a depression developed over north Andaman Sea centred near Lat. 15° N and Long. 95° E on the morning of 27 May. Moving northwestwards, it concentrated into a cyclonic storm by 28th morning and became severe during the next 24 hours. Later, it recurved and crossed the East Pakistan coast near Chittagong on the morning of 30th. Thereafter, it weakened rapidly and lay as a shallow low over central Assam on the 31st. It became unimportant by 1st June. Under its influence, the Bay branch of the monsoon strengthened and advanced into Assam on 31st May. A few heavy to very heavy falls of rain were reported from the Bay Islands and Assam, noteworthy amounts being Port Blair 18 cm on 27th and Cherrapunji 22 cm and Agartala 15 cm on 31st May. Heavy to very heavy rains accompanied by gales and squalls occurred in the coastal districts of East Pakistan. According to newspaper reports, winds reaching 100 m.p.h. accompanied by a tidal wave were experienced at some places in the coastal districts of East Pakistan along and near the track of the storm.

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Five western disturbances moved across north India during this month. They caused good thunderstorm activity in northwest India during the second week and in Assam during the second and third week of the month. The description of each is given in the accompanying table.

Statement showing the movement and activity of western disturbances during May 1961

S. No.	Period	Course	Region affected	Nature of precipitation	Period	Remarks
1	—5th	Sind-Rajasthan, Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Uttar Pradesh	Scattered thundershowers	1st, 2nd	
			Bihar State	Local or scattered thundershowers	2nd-4th	
			West Bengal	Fairly widespread or local thundershowers	2nd-4th	
			Assam	Fairly widespread thundershowers	3rd, 4th	
				Scattered thundershowers	5th	
2	4th—12th	Southeast Iran-Baluchisthan - Sind-Rajasthan - Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas.	Rajasthan, Punjab(I)	Scattered thundershowers	6th, 8th	
			Jammu and Kashmir	Scattered thundershowers	7th-9th	
			Uttar Pradesh	Scattered thundershowers	7th-10th	
			Bihar State-Orissa, West Bengal	Scattered thundershowers	11th, 12th	
			Assam	Fairly widespread or local thundershowers	11th, 12th	
3	12th—18th	Sind-Rajasthan-Punjabs - Western Himalayas - Nepal Himalayas - Assam Himalayas	Rajasthan, Uttar Pradesh, Punjab(I) Himachal Pradesh, Jammu and Kashmir	Scattered thundershowers	12th, 14th	
			Bihar State, Orissa, West Bengal	Scattered thundershowers	14th, 15th	Cherrapunji reported 17 cm. of rain on 14th.
			Assam	Fairly widespread or local thundershowers	14th, 16th	
4	15th—19th	Sind-PunjabsWestern Himalayas - Nepal Himalayas - Assam Himalayas	Punjab(I)	Scattered thundershowers	15th, 16th	
			Uttar Pradesh	Scattered thundershowers	16th	
			Sub-Himalayan West Bengal	Scattered thundershowers	17th-19th	
			Assam	Local thundershowers	17th-19th	
5	20th—26th	Baluchistan - Sind-Rajasthan - Punjabs-Western Himalayas-Nepal Himalayas-Assam Himalayas	Punjab(I), Jammu & Kashmir	Scattered thundershowers	22nd	
			Himachal Pradesh	Local thundershowers	22nd	
			Rajasthan	Scattered thundershowers	23rd	
			Sub-Himalayan West Bengal, Assam	Local thundershowers	24th-26th	

Day temperatures were generally above normal in Bihar State and neighbourhood from 11th May to 3rd June, being appreciably so at a number of places from 13th to 22nd May and again from 26th to 31st May. The temperatures were markedly above normal at a few places in Bihar State and neighbourhood from 19th to 21st May and again from 26th to 28th May. According to press reports, this hot spell was responsible for over seventy-five deaths in Bihar State and for a few deaths in the adjoining States.

The rainfall during the month was in large defect in east Uttar Pradesh, east Rajasthan, Gujarat State, in moderate defect in west Uttar Pradesh, Jammu & Kashmir and coastal Andhra Pradesh, in slight defect in Gangetic West Bengal and Bihar State and normal in Assam, Sub-Himalayan West Bengal, west Rajasthan and east Madhya Pradesh. It was in slight excess in Orissa, the Punjab (I), west Madhya Pradesh, and the Madras State and in large excess over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Bihar Plateau and east Uttar Pradesh, below normal in Jammu and Kashmir, Madhya Maharashtra, Marathwada, Rayalaseema and Mysore State and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in coastal Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Bay Islands, the Punjab(I), east Madhya Pradesh, Saurashtra and Kutch, Madhya Maharashtra, Marathwada, Vidarbha, Andhra Pradesh and the Mysore State and normal over the rest of the country outside Himachal Pradesh.

Errata to M.W.R. for May 1961 (Vaisakha 11 - Jyaistha 10, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Sub-Division					
232	Gangetic West Bengal		4	+0.31	+0.3
Table II					
233	Imphal (Tulihal)		11	189.0	189.1
233	Imphal (Tulihal)		12	-41.65	-41.6
233	Cooch Behar		10	23.0	23.9
234	Sagar Island		16	+0.5	-0.5
234	Motihari		3	+0.7	-0.7
234	Gorakhpur		12	+2.1	-2.1
235	Bareilly		22	(Blank)	1
236	Jagdalpur		9	3	7
236	Deesa		29	1	0
238	Pusad		11	34.2	31.2
239	Calicut		10	41.2	341.2
239	Palghat		10	13.9	213.9
239	Trivandrum		6	(Not clear)	24.2
Table III					
242	Tangla	0830	13	4.	4.5
244	Barrackpore Aerodrome	1130	7	23.9	33.9
246	Lucknow (Amausi)	0530	10	7.9	17.9
246	Lucknow (Amausi)	0830	5	288.3	988.3
248	Pathankot	1130	11	10	20
248	Halwara (Aerodrome)	1730	5	924.1	974.1
248	New Delhi (Safdarjung)	0230	2	02330	0230
249	Palam (Aerodrome)	2030	8	(Not clear)	21.7
249	Nagaur	0830	1	Nagpur	Nagaur
250	Ajmer	0830	6	+1.1	-1.1
250	(Foot note)	-	-	(a)Mean of 30 days.	(deleted)
251	Nowgong	1730	10	15.5	15.8
251	Ratlam	0830	4	1004.3	1004.8
251	Hoshangabad	0830	15	44.7	4.7
251	Indore	0830	10	20.3	20.8
251	Sutna	0530	18	10	20
252	Pendra	1130	4	100.12	1001.2
254	Kolhapur	0830	11	4	74
254	Kolhapur	2330	4	100.7	1006.7
255	Sironcha	1730	10	4	18.4
255	Gannavaram	0530	21	(Blank)	8
255	Nagarjuna Konda	0830	3	12.6	126
255	Nagarjuna Konda	0830	19,20	(Blanks)	3,1
255	Nagarjuna Konda	1730	19,20	(Blanks)	1,2
256	Hanamkonda	1730	10	25.5	23.5
256	Hakimpet (Aerodrome)	1730	15	23.3	12.3
258	Belgaum	0830	4	1000.7	1007.7
258	Belgaum (Samra)	1730	8	21.5	21.7
258	Cochin (Naval Air Station)	1730	23	3	2
259	Mukteswar (Kumaon)	1730	25	6	16
259	Darjeeling	0830	18	(Blank)	2
261	Gorkha	0830	1	Gorkha	Gorkha ‡
261	Dadeldhura	1730	9	8.6	8.0
261	Taplejung	1130	28	(Blank)	0
261	(Foot note)	-	-	(Not given)	‡ Data not reliable

Contd.2 (P.T.O.)

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
Table IV						
264	Ambala	1730	3.6	v	4.6	9.6
267	Bhubaneshwar	0530	0.9	V	16.3	6.3
267	Bhubaneshwar	0530	0.9	v	4.9	5.1
269	Dehra Dun	0530	6.0	n	24	16
269	Dehra Dun	1730	6.0	V	7.9	9.7
269	Dum Dum	0530	4.5	n	26	29
269	Dum Dum	0530	5.4	n	26	29
269	Dum Dum	2330	9.0	V	8.5	8.0
271	Gwalior	1730	3.0	n	22	29
272	Jagdalpur	0530	4.5	D	835	035
274	Nanpara	1730	9.0	V	17.3	18.3
275	Raipur	1730	0.6	D	325	315
276	Santa Cruz	1730	0.15 ag	D	200	300
278	Veraval	2330	2.1	D	267	276
278	Visakhapatnam	0530	9.0	n	22	25
Table V						
279	Dum Dum	1130 and 1730	Height in Km.		Levels are printed slightly up.	
279	Gadag	0530 and 1730	Height in Km.		Levels are printed slightly up.	
280	Mohanbari	1730	10.5	V	14.0	41.0
				v	14.0	41.0
280	Nagpur	0530	-	-	0530 hr	0530 hr*
280	Nagpur	1130	12.0	D	300	200
280	New Delhi	1730	-	-	1730 hr.	1730 hr*.
280	Santa Cruz	0530	-	-	0530 hr.	0530hr.*
280	Santa Cruz	1130	-	-	1130 hr.*	1130 hr.
280	Trivandrum	0530	10.5	n	17	27
280	Trivandrum	0530	14.1	n	5	15
Table VI - RADIOSONDE DATA						
286	New Delhi	12 GMT	1000 Mb.	Ht. in gpm	012	-012
286	Visakhapatnam	12 GMT	Surface	-do-	014	041

The mean cloud amount in the morning was below normal in Gangetic West Bengal and Bihar plains, normal in Assam, Sub-Himalayan West Bengal, Orissa, Bihar Plateau, west Uttar Pradesh, the Punjab(I), coastal Andhra Pradesh, Rayalseema and coastal Mysore and above normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5.

The 20th October, 1961.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	331·7	108	30·0	22·3	82	77	5·9	4·6
	+24·5		−0·2	+0·3	+1		+0·3	
2. West Bengal	144·1	90	35·8	25·7	70	60	3·2	3·7
	−15·7		+0·2	+0·4	−2		0.7	
3. Orissa	80.9	112	37·4	36·8	66	55	3·8	4·7
	+8.9		+0·4	+0·4	−1		+0·4	
4. Bihar	43·5	84	39·2	25·9	53	39	2·2	2·9
	−8·0		+1·2	+0·8	+3		−0·2	
5. Uttar Pradesh	8·7	49	41·1	25.8	40	23	1·5	1·6
	−9·1		+0·9	+0·4	0		+0·2	
6. Punjab (India) (Including Delhi)*	15·8	122	39·7	24·3	40	24	1·0	1·9
	+2·8		−0·8	−0·6	+7		−0·2	
7. Jammu and Kashmir	25·3	60	19·8	7·5	55	34	3·7	4.5
	−17·2		−1·5	+0·9	−3		+0·8	
Sub-Division								
1. Bay Islands	1060·6	276	29·5	23·8	88	91	7·4	7·7
	+676·3		−0·9	−0·1	+10		+1·8	
2. Assam (Including Manipur, Tripura)	331·7	108	30·0	22·3	82	77	5·9	4·6
	+24·5		−0·2	+0·3	+1		+0·3	
3. Sub-Himalayan West Bengal	270·3	99	33·1	23·6	73	63	3·8	3·0
	−3·8		0	+0·4	−2		−0·4	
4. Gangetic West Bengal	98·2	83	36·6	26·3	69	59	3·1	3·9
	−20·1		+0·31	+0·4	−1		−0·8	
5. Orissa	80·9	112	37·4	26·8	66	55	3·8	4·7
	+8·9		+0·4	+0·4	−1		+0·4	
6. Bihar Plateau	49.3	82	40·2	26·1	47	37	2·6	4·0
	−10 5		+1·5	+0·9	−5		+0·3	
7. Bihar Plains	40·1	86	38·3	25·7	59	41	1·9	1·9
	−6·5		+0·9	+0·8	0		−0·7	
8. Uttar Pradesh (East)	7·5	39	41·7	26·6	41	23	1·6	1·2
	−11·7		+1·3	+0·7	−3		+0·3	
9 Uttar Pradesh (West)	10·0	61	40·4	25·1	39	24	1·4	2·0
	−6·3		+0·4	+0·1	+3		+0·1	
10. Punjab (India) (Including Delhi).	15·8	122	39·7	24·3	40	24	1·0	1·9
	+2·8		−0·8	−0·6	+7		−0·2	
11. Himachal Pradesh	25·2	..	35·7	17·7	53	35	1·5	3·4
	..	..	..	..	..	..	..	..
12. Jammu and Kashmir	25·3	60	19·8	7·5	55	34	3·7	4·5
	−17·2		−1·5	+0·9	−3		+0 8	
13. Rajasthan (West)	10·2	104	41·3	26·2	45	20	1·1	2·1
	+0·4		−0·3	+0·1	+4		+0·3	
14. Rajasthan (East)	3·2	23	40·2	27·2	34	21	1·6	3·4
	−10·7		−0·4	+0·5	−5		+0·7	
15. Madhya Pradesh (West)	14·2	117	40·7	26·4	39	25	2·9	4·4
	+2·1		−0·1	+0·4	+3		+1·5	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	6·7	57	40·7	26·7	39	20	1·3	2·8
	−5·1		−0·4	+0·3	−1		+0·6	
9. Madhya Pradesh	18·0	113	40·6	26·5	40	26	3·3	4·6
	+2·1		−0·1	+0·5	+4		+1·6	
10. Gujarat State	2·1	26	38·8	26·3	71	47	2·6	1·6
	−6·0		+0·2	+0·5	+2		+0·6	
11. Maharashtra State	89·8	348	37·0	25·8	61	43	4·7	5·0
	+64·0		+1·0	−0·1	+6		+2·9	
12. Andhra Pradesh	49·2	123	38·5	27·3	60	47	3·8	4·6
	+9·2		−0·8	−0·3	+5		+0·3	
13. Madras State	62·4	112	35·9	26·2	67	58	5·2	5·8
	+6·5		−0·9	+0·1	−1		+1·8	
14. Mysore	251·5	307	33·5	22·8	75	53	5·3	6·1
	+169·7		−2·0	−0·4	+7		+1·8	
15. Kerala	588·3	234	31·0	24·8	84	79	6.2	6·7
	+336·5	—	−0 6	−0·8	+3		+1·1	
Sub-Division—*contd.*								
16. Madhya Pradesh (East)	22·9	110	40·6	26·7	42	29	3·9	4·9
	+2·1		−0·1	+0·5	+6		+1·7	
17. Gujarat Region	2·3	24	40·0	24·5	60	29	2·7	1·5
	−7·2		+0·6	+0·7	−5		+0·9	
18. Saurashtra and Kutch	2·0	28	37·9	26·2	80	61	2·5	1·7
	−5·2		−0·1	+0·3	+7		+0·5	
19. Konkan	105·6	377	32·1	26·3	77	73	5·4	4·3
	+77·6		−0·2	−0·1	+2		+1·6	
20. Madhya Maharashtra	129 5	366	36·6	23·1	65	43	4·4	5·7
	+94·1		−1·7	0	+9		+2·3	
21. Marathwada	80·3	427	38·3	24·6	53	37	4·6	5·8
	+61·5		−1·4	+0·3	+9		+2·9	
22. Vidarbha	43·6	237	40·9	27·7	46	26	4·5	4·8
	+25·2		−1·0	−0·3	+7		+2·1	
23. Coastal Andhra Pradesh	29·0	59	37·7	27·7	64	58	3·5	4·6
	−20·3		−0.4	−0·1	+5		−0·4	
24. Telangana	55·6	220	39·1	26·7	53	32	4·1	4·6
	+30·3		−0·9	−0·3	+7		+1·4	
25. Rayalaseema	76·5	195	39·1	27·1	60	40	3·6	4·7
	+37·3		−1·5	−0·7	+6		+0·5	
26. Madras State	62·4	112	35·9	26·2	67	58	5·2	5·8
	+6·5		−0·9	+0·1	−1		+1·8	
27. Coastal Mysore	685·4	556	31·3	24·5	81	75	6·1	6·3
	+562·1		−1·3	−1·5	+6		+1·0	
28. Interior Mysore (North)	110·0	301	35·9	23·7	68	47	5·3	6·2
	+73·5		−2·3	−0·3	+8		+2·7	
29. Interior Mysore (South)	176·2	166	31·7	21·3	80	52	4·9	6·0
	+69·8		−1·9	−0·1	+7		+0·9	
30. Kerala	588·3	234	31·0	24·8	84	79	6·2	6·7
	+336·5		−0·6	−0·8	+3		+1·1	
31. Arabian Sea Islands	421·1	290	31·7	26·1	79	77	6·3	6·3
	+275·7		−0·4	−0·7	+5		+1·8	

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

*Date of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Maya Bandar	30·3	..	33·9	11	24·4	..	22·0	12	389·2	1243·2	..	402·0	7	20	..	14·2	12·3	..	0	22	0	0	11	0	0	0	0	0	0
Long Island	30·4	..	35·0	15	24·8	..	22·8	30	447·6	974·0	..	149·0	7	19	..	..	..	..	0	21	0	0	13	0	0	0	0	0	0
Port Blair	29·5	−0·9	32·4	2	23·8	−0·1	17·1	29	417.1	1060·6	+676·3	181·0	27	24	+7·7	18·3	14·8	+1·0	2	27	0	0	13	0	0	0	0	8	3
Car Nicobar	30·3	..	31·9	3	24·3	..	22·8	9	242·3	155·2	..	70·3	9	18		4·8	3·1	..	0	24	0	0	4	0	0	0	0	0	0
Nancowry	29·7	..	33·9	1	24·9	..	23·3	6,19, 22	254·6	605·6	..	96·2	19	18	..	12.3	10·2	..	0	22	0	0	4	0	0	0	0	0	0
Kondul	29·3	..	31·0	1	24·8	..	22·9	19, 22	362·4	716·2	..	122·8	2	22	..	..	..	..	0	25	0	0	8	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	27·7	..	37 4	29	21·0	..	13·9	5	158·6	492·3	..	83·6	20	18	..	7·5	9·9	..	0	20	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari Aerodrome)	27.9	−1.3	35.6	29	21·3	−0.2	15·9	5	82·6	415·2	+108·1	74·7	20	19	+3·4	7·4	5·0	0	0	22	0	0	7	1	0	0	0	0	0
Dibrugarh	28·3	−0·9	36·6	29	21·4	−0 1	17·2	5	94·0	378 0	−70·9	36·5	11	20	+4·4	3·4	2·3	+0·4	0	22	0	0	5	0	0	0	0	0	0
Digboi (R)																														
North Lakhimpur	28·4	−0.2	36 7	29	21·4	−0·3	16·2	5	167·0	722·0	+190·7	146 8	20	17	−2·4	..	..	..	0	21	0	0	5	0	0	0	0	0	0
Sibsagar	29·0	−0·6	35·9	29	22·5	+0.4	18·5	5	69·5	339·5	−33 2	62·5	20	18	+2·4	6·5	5·3	+1·4	0	22	0	0	6	0	0	0	0	0	0
Golpur	29·2	..	34·9	29	21·8	..	17·7	1,5	36·5	317.4	..	76·4	3	13	..	9·0	6·8	..	0	13	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	54·4	480·4	..	75·0	10	19	.	10 2	7·0	..		19	0	0	2	0	0	0	0	0	0
Jorhat (Aerodrome)	29.0	..	35 2	29	22·2	.	18·3	5	23·9	556.1	..	55 9	10	18	..	..	..	..	0	22	0	0	12	0	0	0	0	0	0
Tangla	31·1	..	36·2	29	22·3	..	18·3	5	8·2	167 8	..	41·8	31	15	..	2·3	2·6	..	0	19	0	0	0	0	0	0	0	0	0
Tezpur	30·4	0	35·0	8	23·7	+1·3	20·1	5	23·8	205 0	−65·	36·2	16	16	−5·3	8·5	8·5	+1·0	0	17	0	0	0	0	0	0	0	0	0
Golaghat	29.8	..	36·1	28,29	22·2	..	18.9	5	21·6	265·4	..	63 0	10	15	..	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Rangia (R)																														
Chaparmukh	32·2	..	36·7	8,29	23·3	..	18·8	5	30·8	239·3	..	138·2	10	11	..	7·7	5·7	..	0	15	0	0	0	0	0	0	0	0	0
Goalpara	31·6	..	35·3	9	21·7	..	18.0	25, 27	63·2	441·0	..	107·6	31	19	..	7·0	5·0	..	9	19	0	0	0	0	0	0	0	0	0
Gauhati	31·0	+0.1	35·3	9	23·4	+1·0	19·8	5	21·0	200·6	−35·1	47.4	31	15	+1·5	0	0	−3·1	0	19	0	1	0	0	0	0	0	0	0
Gauhati (Bhorjor)	30·8	..	34.9	29	22·9	..	19·6	5	33·1	254·1	..	51·7	31	17	..	9·2	7·3	..	0	20	0	1	19	0	0	0	0	1	0
Dhubri (Rupsi)	31·9	..	36·0	9	22·5	..	19·3	5	19·8	404·1	..	80·1	25	17	..	7·9	5·6	..	1	21	0	0	22	0	0	0	0	2	0
Dhubri	29.9	0	33·8	20	23·4	+0·6	21·1	4,13, 25	31·7	367·3	−33·3	76·2	25	18	+2.5	7·1	5·7	−3 5	0	18	0	0	4	0	0	0	0	0	0
Lumding	33.1	+1.0	38·0	8	22·5	+0.6	18·9	6	49·7	190·3	+26·0	129·0	10	9	−1·7	5·4	4·5	..	0	11	0	0	1	0	0	0	0	0	0
Dharoi	27·9	..	31·8	20	18.6	..	13·1	5	89 2	212·3	..	94·8	10	11	..	9·4	6.1	..	1	22	0	0	15	9	0	0	0	0	0
Tura	31·0	..	35·2	29	20·9	..	17·2	2,4	82·9	475·9	..	72·5	31	18	..	8·7	10·3	..	0	19	0	0	0	0	0	0	0	0	0
Hailong	28·3	..	31·7	27,29	20·1	..	16·8	2	93 9	469·4	..	159.8	10	15	..	..	..	:	0	21	0	0	4	1	0	0	0	0	0
Silchar (Kumbhigram)	32·2	..	37·3	30	22·4	..	19·4	4	199·9	819·5	..	178·4	21	17	..	7·4 (b)	7·1 (b)	..	0	21	0	2	17	0	0	0	0	2	0
Silchar	31·3	−0·2	34 1	26	23·5	+0·9	20·5	2	(b) 83·4	(c) 360·9	..	..	.	..	..	3·3	7·8	..	..	..	0	0	10	0	0	0	0	0	0
Imphal (Tulihal)	28·8	−0·1	33 8	28	19·3	+0.2	15·7	3	26·2	189·0	−41·65	34·2	29	14	+0·7	8·9	6·0	−1·9	1	15	0	0	11	0	0	0	0	2	0
Kailashahar	32·9	..	37·2	29	23·8	..	19·8	2	139·9	285·4	..	62·8	25	13	..	5·7	4·3	..	0	17	0	0	13	0	0	0	0	0	0
Agartala	33·1	−0·2	36 2	29	24·4	0	18·7	31	105·7	309·0	−7·6	45·1	23	10	−1·1	14·1	10·5	−2·3	2	15	0	0	13	0	0	0	0	2	0
Sub-Himalayan (West Bengal)																														
Baghdogra	32·4	+0·4	36.0	8	22·6	−0.3	19·2	13	14·1	175·7	−77·7	48·9	25	9	−2·1	16·7	13·0	+3·3	0	14	0	0	12	0	0	0	0	2	0
Jalpaiguri	30·2	−1·7	33·7	29	23·1	+0·5	20·6	2,15	17·0	279·0	−21·2	42·0	22	14	+0·9	14·5	10·3	+6·3	0	15	0	0	14	0	0	0	0	0	0
Cooch Behar	31·6	..	35·2	9	22 1	..	17·5	2	23·0	574·1	+148·1	137·8	25	17	+1·5	8·3	6·3	..	1	19	0	0	20	0	0	0	0	2	0
Balurghat	35·0	..	42·8	21	23·5	..	19·2	2,4	10·6	95·8	..	40.0	22	4	..	10·6	8·3	..	0	10	0	1	8	0	1	0	0	0	0
Malda	36·6	+1·4	43·3	21	25·2	+1·1	20·6	2	25·8	52·4	−64.4	18·2	2	5	−0.6	10·5	9·3	+0·3	2	6	0	0	11	0	0	0	0	2	0
Gangetic West Bengal																														
Berhampore	37·6	+1·4	43·7	21	24·7	−0·1	20·1	2	56·9	119·0	−16 4	21·3	13	9	+1·7	7·3	6·0	−0·1	0	10	0	0	4	0	0	0	0	0	0
Suri	39·1	..	44·6	20	25·6	..	18·2	2	38·4	62·2	..	25·6	2	3	..	11·8	9·6	..	0	5	0	0	7	0	0	0	0	0	0
Asansol	39·8	+0·8	44·4	20	26·6	+0·9	21·8	7	52·7	64·5	−9.9	29·5	14	6	+1 6	10·9	8·2	−1·0	0	8	0	1	10	0	0	0	0	7	0
Shanti Niketan	38·9	..	44·5	20	25·7	..	19·6	3	44·4	77·1	..	30·0	31	6	..	11·9	11·5	..	0		0	0	11	0	0	0	0	2	0
Krishnanagar	36·8	+0·9	43·3	20	25·5	+0.7	21·6	4	40·3	181·1	+10·7	43·6	12	13	+5·1	7·7	7·4	−1·6	0	15	0	0	8	0	1	0	0	1	0
Purulia	40·0	−0·3	44·1	20	26·9	−0·1	21·3	4	47·5	51·1	+10·8	24 0	24	6	+2·5	8·8	6·9	+0·1	0	8	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	81·4	−22·0	36·0	24	5	−0·6	..	..	..	0		0	0	0	0	0	0	0	0	0
Burdwan	34.5	−2·2	41·6	21	25.7	+0.4	21·4	4	34·6	(c) 115·8	−35·6	..	..	..	..	(c) 18·8	(c) 10·6	+5·5	..	..	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	36.0	..	41.9	21	25·6	..	18·8	12	83·5	218·0	..	79·2	23	9	..	..	..	..	0	9	0	0	10	0	0	0	0	6	0
Calcutta (Dum Dum)	35·8	0	42·3	21	25·9	−0·4	21·2	4	38·8	113·7	−1·7	37·4	9	7	+1·1	12·3	10·5	−6.0	1	9	0	0	8	0	0	0	0	3	0
Calcutta	36·1	+0·8	42·7	21	26·7	+1·4	21.7	4	48·0	147 0	+7.5	36·8	23	8	+1·1	13·1	9 0	+1·0	0	11	0	0	7	0	0	0	0	9	0
Midnapore	39·3	+1·6	45.1	20	26·5	+0·6	21·1	1	23·2	64·7	−55·7	31·4	1	4	−2·9	8·6	8·2	+1·3	0	5	0	0	0	0	0	0	1	0	0

(e) Total or Mean of 26 days. (b) Total or Mean of 29 days. (c) Total or Mean of 28 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days upto (2·5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*contd.*																															
Contai	34·0	+0·6	40·8	21	26·7	−0·3	21·2	4	36·2	71·4	−64·1	32·4	23	5	+0·2	19·2	16·2	−3·3	0	9	0	0	0	0	0	0	0	0	0
Sagar Island	32·3	−0·5	34·2	29	27·5	+0·5	21·6	4	26·7	70·3	−44·5	25·2	4	5	+0·5	29·5	29·5	+7·6	0	6	0	0	3	0	3	0	0	0	0
Sandheads	31·8	..	35·5	8	27·9	..	22·3	4	5·2	31·0	−19·0	15·4	30	3	−0·2	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Orissa																															
Baripada	38·8	..	44·4	20	25·7	..	21·1	2	64·6	144·8	..	30·0	4	10	..	4·1	3·4	..	0	12	0	1	18	0	0	0	6	0	0
Jharsuguda	41·6	−0·4	44·5	18	28·7	+1·0	26.5	3	10·6	10·6	−13·0	7·6	21	1	−0·7	11·3	5·6	+0.8	0	3	0	0	6	0	1	0	0	2	0
Keonjhargarh	37·8	..	43·9	20	25·2	..	20·2	5	47·4	73·1	..	23·6	5	7	..	9·8	7·3	..	0	9	0	0	8	0	0	0	0	0	0
Balasore	36·7	+0·5	32·2	21	26·4	+0·4	21·9	5	68·9	153·7	+36·1	43·5	23	9	+3·1	13·4	9·3	+0·1	0	9	0	0	15	0	0	0	0	0	0
Sambalpur	41·7	+0·3	45·1	19	29·3	+2·0	23·6	10	0	3·8	−23·6	2·0	24	0	−2·3	8·0	6·8	+1·5	0	3	0	0	0	0	0	0	0	0	0
Angul	40·0	+0·3	43·4	19	27·4	+1·3	22·2	16	48·2	103·8	+44·1	42·1	23	6	+1·3	10·8	9·6	+0·6	0	7	0	0	8	0	0	0	0	0	0
Cuttack	39·6	+1·9	43·7	20	27·0	+0·4	22·2	6,7	58·6	165·8	+75·1	41·8	6	7	+1·8	11·1	9·8	+3·7	0	8	0	0	4	0	0	0	0	0	0
Chandbali	38.2	+1·9	44·4	22	25·2	−1·0	20·0	5,6	0	103·5	−38·2	52·1	23	4	−1·4	16·7	14·4	−1·9	0	5	0	0	0	0	0	0	0	0	0
Bolangir	41·3	..	44·6	19	29·0	..	24·9	3	19·8	21·2	..	17·8	26	2	..	10·5	10·4	..	0	3	0	0	8	0	0	0	0	0	0
Phulbani	38·9	..	41·1	18	25·1	..	21·8	3	97·2	106·5	..	53·0	15	3	..	7·6	4·5	..	0	4	0	1	5	0	0	0	0	0	0
Titlagarh	42·4	..	44·5	19	23·0	..	24·0	11	26·8	29·1	..	18·6	25	2	..	8·6	4·1	..	0	3	0	0	0	0	0	0	0	0	0
Bhubaneswar	38·2	+0·2	43·2	22	26.5	−0·6	13·3	7	5·4	85·1	+24·3	35·8	6	6	+3·6	25·3	22·5	−5·1	1	7	0	0	13	0	0	0	0	2	0
Puri	32·1	+0·1	36·3	9	27·7	+0·4	23·4	14	0	16·0	−56·6	9·0	23	2	−1·2	30·5	24·3	+2·9	0	2	0	0	1	0	0	0	0	0	0
Gopalpur	32·4	0	36·1	9	27·1	+0·4	23·1	23	21·2	85·6	+31·5	62·0	23	2	−1·1	25·3	23·4	+2·8	1	4	0	0	6	0	0	0	0	1	0
Koraput	33·8	−0·3	36·1	21	22·3	−0·3	16·9	23	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Bihar Plateau																															
Dumka	39·3	+2·1	44·2	21	26·1	+0·9	19·9	2	63·2	107·5	+15·8	50·2	15	3	−1·1	11·1	8·1	+3·3	0	5	0	1	5	0	0	0	0	0	0
Daltonganj	41·8	+0·6	44·3	20	27·0	+1·1	20·7	1	0	4·0	−10·5	4·0	7	1	−0·3	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Hazaribagh	38·5	+1·1	41·5	20	25·5	+1·3	19·7	7	8·2	27·2	−22·6	17·2	7	2	−1·4	13·2	9·5	−1·9	0	5	0	0	6	0	0	0	0	0	0
Dhanbad	39·4	..	43·8	20	26.2	..	20·0	7	31·9	64·8	..	19·5	7	7	..	10·3	7·2	..	0	7	0	0	8	0	4	0	0	0	0
Ranchi	39·3	+2·3	41·6	20	23·6	−0·5	19·8	3,8	8·3	16·6	−37·3	6·2	5	3	−1·1	5·6	5·0	−2·9	0	3	0	1	1	0	0	0	0	0	0
Ranchi (Aerodrome) (R)																															
Jamshedpur	41·1	+1·7	44·9	90	27·3	+1·1	23·1	4	75.4	90·1	+10·6	31·3	30	6	+0·9	9·6	7·5	+0.7	0	6	0	0	0	0	4	0	0	4	0
Jamshedpur (P.B.O.)	40·5	..	44·6	20	26·9	..	20·4	4	68·6	71·8	..	27·6	30	5	..	10·7	8·3	..	0	8	0	1	16	0	0	0	0	5	0
Chaibasa	41·1	+1·1	44·7	19	27·4	+1·2	20·5	3	40·4	50·5	−19·1	25·1	24	3	−2·2	7·6	4·5	+0·3	0	8	0	0	0	0	0	0	0	0	0
Bihar Plains																															
Motihari	35·5	+0·7	40·6	21,26	23·9	+0·2	21·1	2,4, 23	0	0	−67·1	0	0	0	−3·8	5·1	3·0	−5·0	0	0	0	0	2	0	0	0	0	0	0
Forbesganj	36·6	..	41·9	21	24·1	..	19·1	4	1·4	80·8	..	37·2	4	5	..	12·2	9·5	..	0	7	0	0	10	0	0	0	0	0	0
Darbhanga (R)																															
Muzaffarpur	..	..	..	..	..	..	..	..	..	135·7	+85·4	55·9	23	5	+1·9	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Chapra	40·2	..	44·8	21	27·1	..	20·1	2	15·6	15·6	−17·1	15·2	10	1	−0·8	1·4	2·3	..	0	2	0	0	2	0	1	0	0	0	0
Purnea	36·0	+1·1	41·3	21	24·4	+0·8	18·9	4	4·4	134·6	+28·4	56·0	4	6	+0·5	8·6	6·7	+1·2	0	7	0	0	4	0	0	0	0	0	0
Patna	40·2	+2·3	44·2	21	26·9	+1·3	21·9	2	8·0	9·4	−26·2	8·0	12	1	−1·3	8·2	8·7	+0·5	0	2	0	0	4	0	4	0	0	0	0
Patna (Aerodrome)	40·3	..	44·8	21	26·5	..	22·7	2	0	0	..	0	..	0	..	11·6	9·1	..	0	0	0	0	3	0	2	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	6·0	−25·2	6·0	7	1	−0·8	..	..	.	0	1	..	..	..	..	..	..	..	..	..
Bhagalpur	38·1	−0·2	43·3	21	25·8	0	20·4	2	9·1	42·5	−5·6	30.2	4	4	+1·1	11·4	8·6	−1·5	1	4	0	0	6	0	1	0	0	1	0
Sabaur	38·2	+1·4	43·8	21	25·5	+1·2	20·6	2	6·2	32·6	−22·0	21·0	4	3	−0·6	9·9	7·5	−3·6	0	6	0	0	7	2	0	0	0	0	0
Jamui	40·5	..	44·9	21	25·0	..	19·1	16	10·2	21·2	..	11·0	7	2	..	11·3	8·0	..	0	3	0	0	2	0	2	0	0	0	0
Dehri	41·6	..	44·4	21	28·3	..	23·7	7	1·2	12·2	−3·8	7·0	7	2	+0·8	11·3	7·1	..	0	3	0	0	0	0	1	0	0	0	0
Gaya	41·8	+1·5	45·2	21	27·8	+1·2	22·7	7	3·7	12·3	−11·3	7·8	7	2	+0·3	15·3	12·2	+2·5	0	3	0	0	8	0	3	0	0	6	0
Uttar Pradesh (East)																															
Kheri	40·5	0	43·4	21	24.5	−0·9	20·0	2	0	6·4	−15·5	4·6	8	1	−0·1	7·7	4·8	−0·6	0	3	0	0	4	0	4	0	0	3	0
Bahraich	41·2	+2·1	44·5	21	25·5	+0·4	21·3	2	0	0	−30·7	0	0	0	−2·1	12·3	8·6	+3·0	0	0	0	0	0	0	0	0	0	0	0
Nautanwa	40·5	..	44·3	21	25·0	..	21·4	16	0	4·8	..	4·8	23	1	..	13·0	9·1	..	0	1	0	0	0	0	6	0	0	0	0
Hardoi	41·2	+0·1	43·4	21	25·3	0	20·0	2	0	5·6	−3·2	3·2	12	1	+0·4	11·5	7·1	−0·7	1	2	0	0	2	0	1	0	0	0	0
Gonda	41·1	+1·8	44·4	21	25·8	+0·4	20·8	1	0	4.6	−21·6	4·6	1	1	−0·9	..	..	..	0	1	0	0	2	0	0	0	0	0	0
Lucknow	40·5	−0·3	42·8	21	25·7	0	21·7	2	0	0·4	+19·2	0·4	22	0	−1·3	6·0	3·8	−0·2	0	1	0	0	2	0	2	0	0	0	0
Lucknow (Amausi)	41·0	+0·5	43·9	21	24·9	+0·1	20·0	2	0	20·4	+0·8	18·0	22	1	−0·3	11·0	7·1	..	1	1	0	1	6	0	2	0	0	2	0
Faizabad	39·7	..	43·3	21	23·1	..	17·7	1,2	4·0	16·8	.	11·0	1	2	..	7·8	5·3	..	0	3	0	0	4	0	2	0	0	0	0
Gorakhpur	40·9	+2·5	45·6	22	27·2	+2·3	20·1	1	0	33·0	+2·1	30·0	1	2	−0·5	..	..	..	0	2	0	0	1	0	0	0	0	0	0
Kanpur	42·0	+0·8	44·1	17,21	27·2	+0·3	23·1	2	0	0	−8·1	0	..	0	−1·0	15·9	11·7	−1·0	0	0	0	0	2	0	1	0	0	0	0
Kanpur (Aerodrome)	42·0	..	44·4	21	27·6	..	23·3	2	2·5	5·0	..	5·0	8	1	..	..	..	..	0	1	0	0	6	0	3	0	0	0	0
Sultanpur	41·6	..	44·5	21	26·6	..	21·9	9	0	15·6	..	13·2	9	1	..	7·8	5·6	..	0	2	0	0	3	0	0	0	0	0	0

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 mm. or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Azamgarh	41·8	..	44.6	18	23.8	..	20.7	2	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	42·6	+0·8	45·0	1,21	27·0	+0·1	24.2	8	0	1·0	−2·6	1·0	9	0	−0·6	10.7	5·9	−0·5	0	1	0	0	0	0	1	0	0	0	0
Ballia	41·7	..	45·5	21	26·5	..	23·5	2	12·4	16·6	..	12·4	10	2	..	9·7	6·3	..	0	2	0	0	0	0	3	0	0	0	0
Banda	43·3	..	45.6	21	23·0	..	23·6	2	0	0	..	0	0	0	..	8·1	4.6	.	0	0	0	0	0	0	1	0	0	0	0
Allahabad (Bamhrauli)	42·8	+1·1	46·4	31	27·2	+0·6	24·8	8	0	3·8	−12·2	2·0	22	0	−1·2	9·2	5.4	−2·2	0	3	0	0	6	0	4	0	0	2	0
Varanasi ((Babatpur)	42·1	+0.5	46·2	26	27·3	+0·2	25·2	8,16	1.7	3·1	−5·1	1.7	8	0	−0.4	17·4	12·7	0	0	2	0	0	4	0	4	0	0	0	0
Varanasi	43·0	+2·2	43·9	19,20	28.5	+2·3	25·4	8,12	0	4.2	−9.3	2·2	8	0	−1·1	9·5	6·5	+0·2	0	2	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	36·4	+0·8	40·4	31	20·5	−0·7	17·5	15	1·8	5.9	−30·9	1·8	12, 23	0	−3·0	6·8	5·3	+1·6	0	4	0	0	6	0	2	0	0	0	0
Roorkee	39·7	+0.7	43·3	21	23·4	+0·1	19·7	2	0	10·7	−8.6	6·9	13	2	+0·3	9·5	6·6	+1·5	0	2	0	0	3	0	0	0	0	0	0
Najibabad	39·9	..	42·9	31	22.3	..	16·2	1	0	5·0	..	4·8	13	1	..	9·7	5.5	..	1	1	0		3	0	0	0	0	0	0
Meerut	39·4	−0.1	42·2	21,31	23.7	−0·5	19·3	7	..	19·4	+4·2	19·0	13	1	−0·5	.	7·3	..	0	2	0		0	0	0	0	0	0	0
Bareilly	40·7	+1·2	43·6	21	25·3	+0·2	20·6	8	6·2	33·2	+16·4	27·0	8	2	+0·5	6·7	3·8	−0·9	0	2	0		3	0	4	0	0	0	0
Aligarh	41·0	+0·3	44·0	21	25.3	−1·0	21·0	8	0	0	−10·4	0	..	0	−1·2	10·7	7·9	−0·5	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	42·1	+0.2	44·6	17,27	26·0	+0·3	20·6	4	0	0	−12·9	0	..	0	−1·2	8.2	4·9	+0.6	0	0	0	0	0	0	1	0	0	0	0
Agra	41·3	+0·1	43·5	27	26·7	+1·0	23·0	14	0	2·1	−7·6	2·1	14	0	−1·1	8·4	5·6	−1·6	0	1	0	0	0	0	2	0	0	0	0
Agra (Aerodrome)	41·3	..	43·5	31	25·6	..	19.7	11	6·0	14·3	..	6·3	11	2	..	..	.	..	0	3	0	0	4	0	4	0	0	0	0
Orai	41·3	..	44·4	25	28·0	..	25·2	2	0	0	..	0	..	0	..	14·5	9·7	..	0	6	0	0	0	0	0	0	0	0	0
Jhansi	42·4	−0·1	44·5	28	29·3	+1.2	23·8	9	8·8	8·8	−0.6	6·4	9	1	0	9.7	6.6	−0·3	0	3	0	0	2	0	3	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	38·3	−0·7	42·6	31	23·0	−0·2	17·0	17	2·3	4·7	−12·4	2·3	16	0	−1·4	12.7	12·4	+0.6	1	3	0	0	8	0	5	0	0	0	0
Amritsar (Rajasansi)	38·4	−1·0	42·9	21	21·2	−0·6	16.1	16	0	8·9	−0.6	6·0	12	1	−0.2	11.6	9.5	−2.0	0	3	0	0	8	0	3	0	0	1	0
Adampur (Aerodrome) (R)																													
Ludhiana	40·7	+0·6	44·6	21	23·1	−1·2	19·5	17	0	1·9	−11·6	1·2	13	0	−1·5	8·8	5·5	+2·0	0	3	0	0	0	0	3	0	0	0	0
Ferozpur	38·9	..	43·2	31	20.2	..	16.9	1	0	4·4	..	4·4	6	1	..	4·6	3·5	..	0	1	0	0	1	0	2	0	0	0	0
Halwara (Aerodrome)	39·3	..	43·2	21	21·6	..	15·8	16	0	7·5	..	6·5	13	1	..	..	..	..	0	2	0	0	9	0	3	0	0	0	0
Chandigarh	38·9	+0.6	40·5	5,12	23·7	+0·1	19·9	2	0	4·2	−8.9	4·2	12	1	−0·4	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Ambala	39·6	−0·3	43·1	31	24·6	+0.3	21.7	3	0	2·0	−16·5	2.0	16	0	−1·5	10·7	8·7	+2·7	0	1	0	0	2	0	0	0	0	0	0
Ambala (Aerodrome)	38·9	..	42·8	31	22·7	.	19·4	17	0	0·5	.	0·5	12	0	..	..	..	..	0	1	0	0	5	0	4	0	0	0	0
Patiala	39·4	..	42·9	21	23.7	..	19·7	2	0	11·5	+5.2	9·0	16	1	+0.2	13·9	9·7	..	1	3	0	0	4	0	0	0	0	0	0
Bhatinda	39·7	..	43·9	31	23·4	.	19·5	16	0	3·1	..	3·1	13	1	..	9·5	6·9	..	0	1	0	0	5	0	2	0	0	0	0
Karnal	39·3	..	44·0	5	..	..	..	..	0	2·7	..	2·7	13	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Hissar	39·2	−1.5	42.6	31	23.7	−0·7	20.2	13	16·2	37.2	+23.5	21·0	13	2	+0.6	9.5	8.3	+0.3	0	2	0	0	6	0	4	0	0	0	0
New Delhi (Safdarjung)	39.2	−2.0	41·8	21	25·8	−0·9	19·5	13	0	26·6	+13.4	24·4	13	1	+0·6	14.7	10·3	−3.4	1	2	0	0	6	0	4	0	0	6	0
Palam (Aerodrome)	40·3	.	43·3	21,31	24.9	..	19·7	8.13	1·5	17·2	..	15.7	13	1	..	..	..	..	0	2	0	0	4	0	1	0	0	0	0
Himachal Pradesh																													
Mandi	34·5	−0·3	38·4	31	17·3	0	14.9	14	17.6	45·7	0	18.4	13	3	−0·7	3·8	3·5	−0·3	1	8	0	1	11	0	0	0	0	0	0
Bilaspur	36·9	..	40·8	31	18.2	..	15·1	2	0.8	4·7	..	2·4	13	0	..	..	..	..	0	3	0	0	11	0	3	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Drass	..	.	..	..	..	..	..	..	..	4·4	−57·1	2.4	13	0	−5·4	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	15.7	−1.9	20.6	31	4.1	+1.3	−1.3	1	6.9	16.9	+11.3	5.0	7	3	+2.3	10.7	7.1	+2.6	0	6	0	2	2	.	.	6	0	0	0
Srinagar	23.9	−1.1	28.7	31	10.9	+0.4	8.1	2	4.4	54.7	−5.8	20.3	15	6	+0.6	6.3	5.0	+0.5	0	9	0	0	5	0	0	0	0	0	0
Srinagar (Aerodrome)	23.2	..	28·2	31	10·7	..	7·9	15	9.7	52·6	..	16·8	15	6	..	..	..	..	0	8	0	0	8	0	0	0	0	1	0
Gulmarg	Closed during winter months																												
Jammu	39.1	+1.4	42·1	21	..	..	..	..	..	7·8	−15·8	3·0	15	1	−1·2	..	8·6	..	0	4	0	0	9	0	1	0	0	0	0
Jammu (Aerodrome)	37·9	..	41·9	21,31	23·9	..	17·8	15	1·5	6·6	..	5·1	15	1	..	..	..	..	0	2	0	0	7	0	3	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more.)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																													
Ganganagar	40·4	−1·7	44.3	4,21	24·3	+0·4	19·6	16	10·4	16·2	+10·4	9·2	6	2	+1·2	7·7	5·4	−5·4	1	5	0	0	9	0	0	0	0	0	0
Churu	40.1	..	43.4	31	25.4	..	20.2	7	11·5	26·3	..	6·4	24	3	..	15·2	10·2	..	0	5	0	0	8	0	6	0	0	0	0
Bikaner	41·3	−0.8	44.5	31	26·1	−1·5	20·0	7	3·3	22·4	+7·4	12·3	21	3	+1·7	9·8	8·3	−1·8	0	4	0	0	9	0	0	0	0	0	0
Nagaur	40·7	..	43.1	18	26 5	..	22.8	21	0	6·0	..	4 0	21	1	..	15·1	12.0	..	0	2	0	0	3	0	5	0	0	0	0
Phalodi	41·3	..	43·4	30	27·1	..	23·1	5, 21	0	2 2	−6 7	2·2	21	0	−0·8	21.8	18·9	..	0	1	0	0	1	0	4	0	0	0	0
Jaisalmer	41·5	..	44·4	23	26·3	..	22·9	5	0	0	..	0	..	0	..	20·4	17·8	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	41·7	+0·9	43·2	26	27.3	+1·0	24·8	3	0	10·4	0	5·2	30	2	+0·9	14.6	13.7	−3·5	0	4	0	0	5	0	6	0	0	1	0
Barmer	41·6	+0.3	44·2	26	27.1	+0·4	23.1	5	0	0	−8·9	0	..	0	−0·7	11.1	11·1	0	0	0	0	0	3	0	1	0	0	0	0
Munabao	42·2	..	45·0	23	..	..	..	..	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	39,9	..	43·9	31	24 9	..	19·1	13	0	10·1	..	10.1	13	1	..	16·4	12·8	..	0	1	0	0	0	0	5	0	0	0	0
Sikar	38·5	..	40·9	30	24·5	..	18.4	7	2·1	5·2	..	3·1	19	1	..	12.1	9·3	..	0	2	0	0	0	0	0	0	0	0	0
Alwar	40·9	..	43·1	27	27·5	..	21·7	8	11·5	14·6	..	5·8	24	4	..	7.6	5·0	..	0	5	0	0	3	0	0	0	0	0	0
Jaipur (Sanganer)	40·6	−0·1	42·8	31	25·6	+0·7	22·6	6	2·0	3·4	−11·1	1·4	14, 22	0	−1·6	..	..	..	0	3	0	0	5	0	13	0	0	2	0
Dholpur	42·0	..	44·3	21	26·7	..	23·1	9	0	7·3	..	4.5	14	1	..	5·0	2.8	..	0	4	0	0	5	0	0	0	0	0	0
Ajmer	39·8	+0.4	41·9	30	27·8	+1·0	22·2	8	2.2	4.8	−11·5	2.8	8	1	−0·5	15·8	13·0	+2·5	0	2	0	0	7	0	1	0	0	0	0
Tonk	42·0	..	43·9	12	26.9	..	23.8	7	0	0	..	0	..	0	..	11·1	8·4	..	0	0	0	0	7	0	0	0	0	0	0
Kota	40·2	−1.8	43·8	27	29·2	0	25·6	8	1·5	3·1	−8·8	1·5	8	0	−1 0	9.9	3.7	+2.1	0	3	0	0	4	0	0	0	0	0	0
Erinpura (Jawai Dam)	40.0	.	42·2	25	26 8	..	20·8	28	0	23.1	..	20.5	28	2	..	11·3	8 7	..	0	2	0	0	3	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	41·3	..	43 1	17	28·4	..	23.6	22	3·7	7.3	..	3 7	5	2	..	13·8	10 0	.	0	3	0	0	7	0	0	0	0	0	0
Udaipur	38·5	−0·7	40·3	24	25·3	−0·7	20·7	6	3.0	3.6	−14·7	2.6	30	1	−0·5	7.5	5·0	..	0	3	0	0	7	0	0	0	0	0	0
Jhalawar	42·0	+0.3	44·5	24	28·2	+1·3	23·7	8	0	1·3	−7·6	1·2	6	0	−0·9	10·5	8·7	+0·3	1	1	0	0	4	0	1	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	42·1	−1·0	44·1	27	27·8	−0·8	22·4	7	0	6.4	−0·5	5·6	14	1	+0·1	12.0	8.3	..	0	2	0	0	8	0	1	0	0	0	0
Sheopur	41·9	−0·5	43·6	12,17	26·7	−0.1	23·5	7	8·6	10·6	+0·6	7·8	20	1	+0·4	11·7	8·5	−1·0	0	3	0	0	9	0	4	0	1	0	0
Shivpuri	40·0	..	42·0	18,27, 28	..	..	..	..	2·0	3·3	..	3·3	20	1	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Nowgong	42·3	+0·4	44·0	17,31	26.6	+0·3	23.1	2	0·4	0·4	−9·0	0.4	22	0	−1·0	9·5	6·5	+2·0	0	1	0	0	3	0	0	0	0	0	0
Guna	41·4	+0·1	43·3	18	25·6	+0·3	20·1	7	2·0	4·0	−9·7	2.0	5	0	−1·2	14·9	11·1	..	0	3	0	0	8	0	0	0	0	1	0
Neemuch	39·8	+0·1	41 7	26	26.5	+1·3	23·4	7	36·4	36.4	+21·4	29.4	30	2	+0.8	14.3	11.6	−1·8	0	2	0	0	7	0	4	0	0	0	0
Rajgarh	42·4	..	44 7	18	27·3	..	22·3	8	2·4	11·7	.	6·8	21	2	..	15·3	11·2	..	1	4	0	0	1	0	0	0	0	0	0
Sagar	40 3	−0·1	43·0	18	26 6	+0·6	22·4	21	2 0	5·1	−5·6	3·0	21	1	−0·1	8·6	6·3	..	1	2	0	0	9	0	0	0	0	0	0
Ratlam	40·2	+0·6	43·1	25	25·3	−0.1	21·0	30	8·0	20·4	+9·8	20 4	30	1	+0·1	9·5	6·5	−4·6	0	1	0	0	2	0	0	0	0	0	0
Bhopal (Bairagarh)	40·4	0	43·5	19	25·1	−1·0	21·3	7	7·7	16·5	+2 0	11·6	21	2	+0·8	27.5	23.0	+9.3	2	4	0	0	7	0	2	0	0	4	1
Ujjain	40·3	..	42 0	19,25	25·9	..	22·0	6	..	0·8	..	0 8	20	0	..	..	15·7	..	0	1	0	0	2	0	0	0	0	0	0
Hoshangabad	42·0	+0·4	45·2	19	29·2	+1.0	24·3	12	4·4	11·6	−0 9	6.9	21	2	+0·8	(a) 9·4	6·9	+1·8	0	3	0	0	0	0	0	0	0	0	0
Indore	39·6	−0·5	42·7	19	25·3	+1.1	22·5	5	10.5	25 0	+12·1	10.0	5	3	+1·7	20·5	19·4	..	0	6	0	0	9	0	0	0	1	0	0
Rajpur (Jhabua)	39·5	..	42.0	24,25	26·1	..	24·0	7	0	0·4	..	0 4	25	0	..	14·7	13.1	..	0	1	0	0	2	0	0	0	0	0	0
Chhindwara	39·0	−0·3	41·9	19	26·1	+0·6	22·7	21	8.0	15·6	+0 4	5.5	21	3	+1.8	10·1	7·5	−0.2	0	8	0	0	8	0	0	0	0	0	0
Seoni	39·4	−0.4	42·3	19	25·6	+1·0	22·3	24	19·3	33.0	+13·7	19.3	24	3	+1·3	9·5	6·6	+0·5	0	7	0	0	10	0	0	0	0	0	0
Betul	39·3	+0·2	43·0	19	25·1	+0·4	21·8	7	4.0	11·6	+1·3	4·2	23	3	+2·0	9·7	7·0	−0·1	0	4	0	0	6	0	1	0	0	0	0
Khandwa	41·5	−0·1	45·0	19	28·9	+1·6	25·0	7	2.4	2.4	−5·5	2·4	29	0	−0·7	15·5	13·5	+0 6	0	1	0	0	2	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	42·3	+1·3	43·8	19	26·9	+0·3	22·2	7	0	3·8	−8·1	2.0	22	0	−1·3	9·7	6·8	−0·4	0	2	0	0	8	0	0	0	0	0	0
Sidhi	42·0	..	44·7	18	26·4	..	22·0	9	0	0·5	..	0·5	14	0	..	11·4	6·5	.	0	1	0	0	2	0	0	0	0	0	0
Umaria	41·5	+0·7	43·9	19	26·8	+0·7	22·6	2	0	5·9	−5 0	3·2	14	1	+0·3	8·4	5·5	−0·1	0	4	0	0	5	0	0	0	0	0	0
Jabalpur	42·1	+1·3	44·4	19	27·0	+1·8	22·7	9	2.0	5·0	−10·7	2 1	8	0	−1·4	8·8	6·3	+1·5	0	3	0	0	5	0	0	0	0	0	0
Ambikapur	39·2	−0·4	42·4	19	25·6	+0·8	22·0	23	1·9	2·7	−12·1	1·8	23	0	−1·5	12·2	9·6	−0·1	1	2	0	0	3	0	1	0	0	0	0
Pendra	38·6	+0·7	41·6	19	26·0	+0·8	20·7	24	28.2	30.5	+9·2	22·2	24	1	−1·1	10·4	8·6	..	0	7	0	0	14	0	0	0	0	1	0
Mandla	40·2	−1·1	42·4	18,19, 20	24·4	+0·1	21·1	2	21.2	25.8	+18·1	19.6	24	2	+1·1	7·4	4·7	−0·2	1	3	0	0	6	0	0	0	0	0	0
Champa	42·0	−0 9	44·7	19	28·0	−0.7	22·4	7	0	29.0	+16.8	19·2	7	3	+1·7	9·9	8·6	+1·0	0	3	0	0	6	0	0	0	0	0	0
Raigarh	42·4	−0·4	45·6	3	28·4	−0·5	24·3	25	0	5·8	−7·9	3.0	23	2	+0·3	8·9	6·6	+0·3	0	2	0	0	0	0	0	0	0	0	0
Raipur	41·5	−0·3	43·4	19	28·3	+0·5	24·3	7	0.4	27·3	+4·7	17.2	19	2	−0·1	10·9	10·5	−0·9	0	3	0	0	8	0	1	0	0	1	0
Kanker	39·2	−1.0	41·4	20,30	27·8	+1·5	23·4	3	0	6.5	−31·4	2.2	1	0	−2·7	11·6	9·5	+2.3	0	4	0	0	5	0	0	0	0	0	0
Jagdalpur	37·4	−0·9	39·5	30	24·4	+0·2	20 5	18	20.3	109·2	+49·3	36.2	27	9	+4·2	8·0	5·9	..	1	12	0	2	22	0	0	0	0	0	0
Gujarat Region																													
Deesa	41·2	..	43.8	25	26·0	..	22·0	1	0	0	..	0	..	0	..	12.5	10·8	..	0	0	0	0	0	0	0	0	0	0	1
Radhanpur	41.3	..	44·0	26	25·6	..	21·2	3	0	0	..	0	..	0	..	13·7	11·3	..	0	0	0	0	0	0	0	0	0	0	0
Idar	40·7	..	43·5	25	26·3	..	23·8	1	0	0	..	0	..	0	..	13·2	10·5	..	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830 1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat Region (Contd.)																													
Ahmadabad	41·6	0	44·8	25	26·6	+0·7	23·4	1	4·6	9·2	−0·7	4·6	10	2	+1·3	(a) 9·5	(b) 8·9	−0·6	1	2	6	0	5	0	0	0	0	1	0
Dohad	40·1	+0·6	42·5	26	26·2	+0·1	24·0	12	0	0	−10·1	0	..	0	−0·4	23·4	22·6	−3·5	0	0	0	0	2	0	1	0	0	0	0
Baroda Aerodrome	40·7	..	43·6	19, 24,25	26.9	..	22·1	6	0	0	..	0	..	0	..	10·6	11·0	..	0	0	0	0	1	0	1	0	0	0	0
Baroda	41·4	+0·7	45·0	25	27·4	+1·3	22·8	6	0	0	−5·1	0	..	0	−0·5	(c) 9·3	(d) 7·6	−0·8	0	0	0	0	1	0	0	0	0	0	0
Broach	40·1	+0·4	44·8	24	27·0	+0·1	22·5	6	0	0	−17·0	0	..	0	−0·5	12·5	11·3	0	0	0	0	0	0	0	0	0	0	0	0
Surat	36·8	+0·5	41·6	25	25·8	−0·3	22·3	6	0	0	−6·1	0	..	0	−0·3	10·8	11·6	+1·0	0	0	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhirmasar	40·7	..	44·6	25	25·9	..	22·0	1	7·0	8·0	..	8·0	7	1	..	26·2	23·9	..	0	1	0	1	1	0	0	0	0	0	0
Naliya	33·8	..	37·0	25	25·7	..	21·5	25	0	5·5	..	0	..	0	..	27·2	20·4	..	0	0	0	0	1	0	0	0	0	0	0
Bhuj (Rudramata)	39·8	+0·1	42·6	24	25·4	+0·3	22·3	5	0	0·5	−6·6	0	..	0	−0·3	23·2	20·2	+1·0	0	0	0	0	1	0	0	0	0	0	0
Kandla Aerodrome	39·9	..	43·7	25	25·2	..	21·6	5	..	1·1	..	1·1	18	0	..	..	19·0	..	0	1	0	0	1	0	2	0	0	0	0
New Kandla	34·9	..	41·7	25	26·1	..	23·3	5	0	0	..	0	..	0	..	33·3	28·4	..	0	0	0	0	1	0	0	0	0	0	0
Mandvi	31·9	−0·8	34·5	25	26·5	+0·3	22·7	5	0	0	0	0	..	0	0	34·9	32·3	+2·2	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	41·3	−0·5	44·0	25	26·2	+0·1	23·7	1	0	3·6	−1·5	3·6	28	1	+0·6	17·5	18·6	+0·3	0	1	0	0	5	0	2	0	0	0	0
Jamnagar Aerodrome	36·1	0	38·3	12	25·7	+0·9	23·1	3	0	0	−7·6	0	..	0	−0·3		..	..	0	0	0	0	1	0	0	0	0	0	0
Dwarka	31·3	+0·2	32·2	17,24	26·4	−0·6	25·2	5	0	0	−0·5	0	..	0	−0·1	20·2	19·5	+1·2	0	0	0	0	0	0	0	0	0	0	0
Rajkot	39·9	−0·7	42·0	25	24·8	0	21·5	1	0	0	−2·5	0	..	0	−0·3	28·7	27·7	+1·5	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar Aerodrome	39·8	..	42·8	26	27·0	..	24·2	7	1·0	5·0	..	5·0	27	1	..	21·7	21·4	..	0	1	0	0	1	0	1	0	0	0	0
Bhavnagar	41·1	+0·4	43·8	19	26·0	+0·4	22·6	5	0	7·2	−3·2	7·2	27	1	+0·3	11·5	12·5	+0·9	0	1	0	0	3	0	0	0	0	0	0
Porbander Aerodrome	32·6	..	35·2	25	26·0	..	20·5	3	0	0	..	0	..	0	..	23·1	16·8	..	0	0	0	0	0	1	0	0	0	0	0
Porbander	31·7	−0·6	32·7	30	26·3	−0·2	23·5	3	0	0	−0·1	0	..	0	0	19·3	14·9	−1·6	0	0	0	0	0	0	0	0	0	0	0
Keshod	36.7	..	41·6	25	24·9	.	21·8	2,5	0	0·1	..	0·1	1	0	..	28·1	22·8	..	1	0	0	0	0	2	0	0	0	0	0
Mahuva	35·2	..	40·0	25	24·8	..	20·2	4,6	0	0	..	0	..	0	..	18·8	14.8	..	0	0	0	0	2	0	0	0	0	0	0
Veraval	31·3	..	33·0	22,26	25·4	..	22·3	3	0	1·2	−5·9	1·2	2	0	−0·3	20·9	18·7	..	0	1	0	0	2	0	0	0	0	0	0
Konkan																													
Dahanu	32·4	−0·6	33·7	18	26.9	+0·1	24·8	2	0	0	−5·8	0	..	0	−0·5	20.1	15·9	−0·8	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	32·9	+0.5	34·6	7	25·8	+0·7	23·1	7	13·8	28·4	+8·6	15·7	25	3	+1·5	17.8	11·8	..	1	6	0	0	4	0	0	0	0	1	0
Bombay	33·4	+0·6	34·4	25	26·9	+0·5	25·0	19	0·4	12·3	−4·2	3·7	25	3	+2·2	12·6	9·3	−1·5	0	5	0	0	7	0	0	0	0	0	0
Alibag	31·7	+0·1	33·5	25	26·0	−0·2	23.1	9	..	76·0	+49·6	50·3	20	5	+4·2	.	12.9	−0·5	0	5	0	0	4	0	0	0	0	0	0
Harnai	30·5	−0·2	33·6	6	26·6	−0·3	24·1	25	13·2	37·0	−7·0	19·0	25	4	+1·3	22.1	18·3	+2·3	0	6	0	0	6	0	0	0	0	0	0
Ratnagiri	32·0	..	33·1	18,20	25·6	.	23·3	24, 25	22·4	180·6	+152·7	125·7	25	7	+5·6	(o) 13·0	(p) 10·4	..	0	9	0	0	9	0	0	0	0	0	0
Devgarh	31·5	−1·2	33·9	1	25·8	−1·4	20·0	25	127·0	404·8	+351·7	181·2	25	12	+8·9	22·3	18·3	+0·8	0	13	0	0	9	0	0	0	1	0	0
Vengurla	32·2	−0·4	34·2	14	25·1	−0·9	22·3	29	272·9	633·4	+548·3	299·0	22	10	+5·7	15.3	9·5	..	1	13	0	0	12	0	0	0	1	0	0
Madhya Maharashtra																													
Nandurbar	40·6	..	43·8	19	..	..	..	.	0	0	..	0	..	0	..	14·5	13·8	..	0	0	0	0	0	0	0	0	0	0	0
Jalgaon	42·1	−0·5	45·3	19	27·7	+0·4	24·4	20	0·2	10·2	−0·4	7·3	20	2	+1·1	22.4	21·1	−0·5	1	2	0	0	6	0	0	0	0	1	0
Malegaon	40·5	−0·1	42·5	1	24·9	+1·0	23·0	7,12, 15	0	7·0	−11·5	3·0	20	1	−0·2	14·1	13·0	−1·0	0	3	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	36·9	..	39·6	3	23·2	..	20·9	8	34·0	62·7	..	27·7	15	4	..	15.2	13·8	..	0	5	0	0	9	0	0	0	0	0	0
Ahmednagar	37·6	−1·2	41·7	1	22·7	+0·4	20·6	7	32·8	98·4	+75·3	32·5	21	1	−0·6	11.9	9·2	−3·4	0	10	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	59·4	+39·3	20·8	21	6	+4·7	..	.	..	0	8	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	35·8	..	39·3	2	22·5	..	20·3	8	132·1	174·1	..	64·7	20	8	..	..	..	.	0	9	0	0	15	0	0	0	0	0	0
Poona	35·8	−1·3	39·6	2	22·5	+0·1	19·7	8	89·7	148·8	+121·9	47·8	15	9	+7·3	5·8	4·5	−10·1	0	10	0	2	12	0	0	0	0	7	0
Jeur	37·3	−2·4	40·2	5,6	23·6	−0·6	20·4	26	30·0	187·2	+143·3	81·4	26	9	+6·2	11·3	11·5	−2·9	0	11	0	0	11	0	0	0	0	0	0
Baramati	.	..	..	..	22·9	−0·8	20·0	6	2·6	79·4	+37·9	24·0	25	6	+3·4	11·4	12·5	−1·9	0	7	0	0	12	0	0	0	0	0	0
Sholapur	37·1	−3·3	41·3	5	24·4	−0·6	20.8	25	25·5	97·4	+74·8	36·8	15	5	+3·1	12·9	10·9	−2·3	0	8	0	0	3	0	0	0	0	0	0
Miraj	34·7	−2·6	39·0	5	22·0	−0·5	17·9	11	33·6	189·2	+141·2	67·0	25	9	+6·1	..	..	..	0	10	0	0	10	0	0	0	0	0	0
Kolhapur	34·1	−1·5	38·8	7	22·0	−0·3	20·1	25	101·1	295·8	+217·6	163·6	25	10	+5·5	14·9	13·4	−3·5	0	10	0	0	12	0	2	0	2	0	0
Marathwada																													
Aurangabad	38·3	−1·4	41·5	19	24·6	+0·3	20·4	21	112·3	121·9	+103·6	75·5	21	4	+2·7	13·7	13·7	−2·2	1	9	0	0	7	0	0	0	0	0	0
Aurangabad (Chikalthan)	37·9	..	41·1	1	24·5	..	20.8	21	79·9	98·7	..	58·8	21	6	..	16·6	15·2	..	0	8	0	0	10	0	0	0	0	0	0
Parbhani	40·0	−1·8	42·7	18,19	24·9	−1·8	22·3	24	31·8	38·8	+17·7	10·8	22	6	+4·4	12·6	10·7	−1·9	0	10	0	0	15	0	0	0	0	0	0
Nander	40·8	..	44·0	19	28.0	..	..	..	6·5	39·4		12·2	22	4	..	9·6	7·0	..	0	9	0	0	8	0	0	0	0	0	0
Bir (R)																													

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days. (d) Mean of 27 days. (o) Mean of 16 days. (p) Mean of 15 days. (R) Register not received.

Division and Station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha—																													
Gondia	41·4	−0·7	44·0	19	28·9	+0·1	24·8	22	0	3·1	−3·0	2·5	19	1	+0·3	7·6	6·3	+0·5	1	2	0	0	2	0	0	0	0	0	0
Nagpur (Sonegaon)	41·7	−1·6	45·4	2	28·0	−0·7	23·9	22	29·0	47·0	+27·7	21·5	22	4	+2·0	15·6	13·3	..	3	7	0	0	14	0	0	0	0	7	0
Amraoti	41·4	−0·6	45·0	19	27·1	0	22·9	22	3·8	16·3	+3·1	11·0	31	3	+1·7	15·7	13·2	+3·9	0	3	0	0	9	0	1	0	0	0	0
Akola	41·5	−0·8	45·0	19	28·1	+0·7	23·7	22	5·0	28·1	+17·7	14·5	22	3	+2·0	13·5	11·2	−0·5	0	5	0	0	1	0	0	0	0	0	0
Bramhapuri	41·7	..	44 6	19	28·8	..	22·8	15,	0	34·1	..	15·0	22	3	..	8·9	7·7	..	0	4	0	0	4	0	4	0	0	0	0
Buldhana	37·6	−0·7	41·0	19	25·1	−1·1	21·4	29	47·7	59·7	+41·6	44·2	25	4	+2·3	13·5	13·2	−1·7	0	4	0	0	0	0	0	0	0	0	0
Yeotmal	40·3	−1·6	43·7	19	27·1	−1·2	22·8	8	6·8	109·7	+96 9	50·0	21	4	+3·0	14·8	14·2	−1·5	0	7	0	0	0	0	0	0	0	0	0
Chanda	41·9	−1·1	44·6	20	28 7	+0·9	23·1	15	2·6	50·4	+34·9	11·4	15	8	+6·6	11·2	8·8	+2·4	0	8	0	0	12	0	0	0	0	0	0
Pusad	42·1	..	46·0	6,7	26·3	..	21.0	5	6·4	34·2	..	16·4	21	3	..	11·8	9·8	..	0	5	0	0	7	0	0	0	0	3	0
Sironcha	41·3	−0·8	44·0	20	28·6	−0·7	22·8	7	0	34·5	+18·0	9·8	30	4	+2·7	8·4	6·9	−0·2	0	7	0	0	7	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	34·6	0	39·4	22	27·2	+0·1	22·3	7	0	39·5	−25·5	29·6	30	2	−1·2	21·5	16·9	+2·9	0	4	0	0	3	0	1	0	1	0	0
Vishakhapatnam	36·9	+0·5	41·1	26	28 0	+0.7	25·4	5	4·9	7·2	−43·6	5·2	10	1	−1·7	23·9	16·8	+3·0	0	3	0	0	9	0	0	0	0	2	0
Kakinada	38·4	..	43·3	21	27·1	−0·5	24·5	10	0	3·2	−35·9	3·2	10	1	−1·5	15·8	11·4	+2·2	0	1	0	0	2	0	2	0	0	0	0
Nidadavole	39·4	..	43·7	21	27·1	..	24.0	5	0	2·4	..	2·4	5	0	..	11·9	8·3	..	0	1	0	0	7	0	0	0	0	0	0
Rentachintala	40·3	−1·3	43·0	20,21	28·1	−0.9	22·1	7	15·6	80·4	+16·4	44·0	26	5	+2·2	10·0	10·0	−2 7	0	5	0	0	2	0	0	0	0	0	0
Gannavaram	39·6	−0·1	43·6	21	27 9	+0·2	23·4	14	1·9	34·8	+0·1	28·3	14	2	−1·1	17·0	15·1	−0 4	0	4	0	0	10	0	1	0	0	0	0
Nagarjuna Konda	40·3	..	42·9	21	29·1	..	22·6	7	16·3	61·8	..	23·6	26	4		16·2	17·5	..	0	8	0	0	10	0	1	0	1	0	0
Masulipatam*	37·4	−0·1	43·0	21	27·1	−0·5	25·0	2,7	3·0	6·0	−27·5	3·0	27	1	−1·0	..	..	..	0	3	0	0	9	0	0	0	0	0	0
Ongole	39·2	..	43·9	20	28·5	..	25·1	27	15·7	16·7	..	15·4	8	1	..	15·4	11·2	..	0	2	0	0	0	0	0	0	0	0	0
Nellore	39·1	−1·0	42·9	21	28 0	+0·3	..	..	2·6	14 6	−13·1	13·0	27	1	−0·4	12·3	10·3	+1·3	0	2	0	0	0	0	0	0	0	0	0
Telangana																													
Ramgundam	41·4	−1·3	44·2	20	28·7	−0·8	22·2	7	0	38·0	+3·9	10·2	15	6	+3·8	8·5	8·9	+0·3	0	6	0	0	4	0	2	0	0	0	0
Nizamabad	39·9	−1·5	43·0	20	26·9	−0·5	22·8	23	32·5	58·8	+41·5	31·0	23	5	+3·6	10·1	7·7	+0·8	0	6	0	0	6	0	2	0	0	0	0
Hanamkonda	40·6	+0·3	44·2	21	27·9	+0·3	22·9	7	17·7	27·9	−3·1	15·4	16	4	+2·0	11·7	11·3	+1·2	0	6	0	0	7	0	1	0	0	0	0
Hakimpet (Aerodrome).	36·3	..	38·8	19	24·8	..	19·9	13	4·1	106·5	..	52·1	13	5	..	..	..	..	0	9	0	0	10	0	0	0	0	1	0
Bhadrachalam	40 4	−0·4	43·8	21	27·7	−0·3	23·0	8	43·0	84·0	+58·6	29·0	22	6	+3·7	8·8	7·8	−2·3	0	6	0	0	10	0	0	0	0	0	0
Hyderabad (Begam Pet)	36·9	−1·6	39 5	20	25·3	−0·7	20·6	26	7·9	80·1	+52·4	18·2	26	7	+4·7	14·3	12·5	+1·1	0	8	0	0	11	0	0	0	0	5	0
Khammam	40·4	..	44·1	21	28·1	..	25·0	27	17·2	41·2	..	20·0	27	3	..	7·8	7·7	..	0	3	0	0	3	0	4	0	0	0	0
Mahbubnagar	37·4	..	40 0	5,6,12	25·3	..	21·2	14	3·5	69·5	..	38·1	26	2	..	12·9	11·8	..	0	3	0	0	6	0	2	0	0	0	0
Rayalaseema																													
Kurnool	38·7	−1·6	41 3	14	26·2	−1·0	21·7	14	31·4	74·1	+46·7	42·5	2	4	+1·5	15·3	13·1	+2·2	1	5	0	0	6	0	6	0	1	0	0
Anantapur	37·4	−0·9	40 2	14	26·1	+0·2	22·3	14	1·8	122·2	+64·8	79·6	14	4	+0·1	15·0	15·3	+1·4	0	5	0	0	6	0	1	0	0	0	0
Cuddapah	39·6	−1·3	42·3	7	28·0	−0·4	23·1	10	3·6	32·2	−5·1	22·6	10	3	+0·4	9·7	8·1	−1·7	0	4	0	0	0	0	0	0	0	0	0
Arogyavaram	34·5	..	37·2	7	23·5	..	21·1	10	43·8	73·8	..	24·0	14	5	..	13·3	11·4	..	0	10	0	0	5	0	0	0	0	0	0
Madras State																													
Madras	36·2	..	41·8	21	26·9	..	25·1	27	..	22·2	..	20 2	21	1	..	..	10·7	..	0	2	0	0	2	0	0	0	0	0	0
Madras (Mi[illegible]ambakkam).	37·4	−1·1	42·0	21	27·5	−0·1	25·3	8	3·5	5·3	−20 9	2 1	21	0	−1·1	17·6	13·6	−0·6	0	4	0	0	2	0	0	0	0	2	0
Vellore	37·9	−0·9	40 5	12, 13, 14	25·9	−0·2	22·9	14	26·8	72·6	+14·4	40·8	21	5	+1·2	7·2	10·0	+3·9	0	6	0	0	11	0	0	0	0	0	0
Tambaram (Aerodrome)	38·7	..	43·6	21	27·9	..	22·8	8	7·6	12·4	..	3·8	8	4	..	..	..	..	0	5	0	0	3	0	0	0	0	1	0
Tirupattur	36·4	..	39 6	13	23·6	..	21·4	14	28·1	64·9	..	20·6	16	5	..	9·4	6·7	..	0	5	0	0	6	0	0	0	0	0	0
Cuddalore	36·1	−0·5	39·9	21	26·9	0	24·5	8	11·3	18·4	−7·0	12·7	29	2	+0·7	15·0	12·5	+4·0	1	4	0	0	4	0	0	0	0	0	0
Kallakurichchi	38·1	..	40·6	13	26·5	..	23 2	9	13·2	34·8	..	17·2	9	2	..	10·8	9·8	..	0	6	0	0	5	0	0	0	0	0	0
Salem	35·9	−1·5	39·0	4	25·5	+0·5	23·2	23	47·6	75 1	−41·7	26·8	16	7	−0·1	10·7	9·1	+3·3	1	8	0	0	14	0	0	0	0	0	0
Coimbatore (Pilamedu)	33·3	..	37·1	14	23·0	..	20·2	22	13.0	81·5	..	26·6	18	5	..	25·1	23·3	..	0	9	0	0	6	0	0	0	0	0	0
Coimbatore	33·2	−1·5	37·2	14	22·7	−0·4	20·1	22	23·5	138·5	+75·8	60·0	14	7	+2·5	13·9	11·3	+5·2	1	10	0	0	6	0	0	0	0	0	0
Nagapattinam	35·9	−0·4	39·0	13,21	27 3	+0·2	24·3	22	2·5	31·9	−8·0	13·0	9	4	..	17·6	14·2	+3·9	0	4	0	0	3	0	0	0	0	0	0
Tiruchirapalli	36·9	−1·2	40·6	8	26·5	+0·3	22·7	16	42·9	78·2	−5·9	42·9	16	5	+0·9	10·3	18·2	+2·8	0	5	0	0	11	0	0	0	0	0	0
Vedaranniyam	34·5	..	37·8	13	26·5	..	22·5	9	1·4	10·7	..	5·2	3	2	..	15 5	12·5	..	0	4	0	0	0	0	0	0	0	0	0
Atirampattinam	34·1	..	38·5	11	26·9	..	24·5	8,9, 22	4·0	13·3	..	5·8	15	3	..	20·5	15·4	..	2	4	0	0	13	0	0	0	0	0	0
Madurai	36·7	−0·4	39 2	8	26·0	+0·4	21·8	8	7·0	169·1	+99·5	102·0	8	5	+0·3	7·8	6·3	−0·6	0	6	0	0	2	0	0	0	0	0	0
Madurai Aerodrome	36·2	..	39·5	8	25·7	..	21·2	8	53·4	145·6	..	66·4	8	4	..	14·3	12·2	..	0	5	0	0	5	0	0	0	0	0	0
Tondi	33·6	..	39·2	31	26·3	..	23·6	15, 17	34·4	84·4	..	44·0	15	5	..	18·9	17·1	..	0	6	0	0	6	0	0	0	0	0	0
Pamban	33·0	−0·2	34·4	1,11	27·3	0	23·0	15	0	25·8	+1·2	15·4	8	2	+0·3	19·2	17·0	+0·7	0	2	0	0	3	0	0	0	0	0	0
Tuticorin	34·1	−0·2	37·8	12	26·1	−0·8	23·3	8	2·0	2·0	−35·2	2·0	16	0	−3·2	20·9	15·0	+1·1	0	1	0	0	0	0	0	0	0	0	0

*Data extracted from daily Telegrams.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madras State— *Contd.*																													
Palayankottai	36·6	+0.1	30·0	13	25·7	—1·3	23 4	17	5·6	9·0	—31·2	5·4	17	1	—1·5	11·9	7·8	—2·1	0	5	0	0	5	0	0	0	0	0	0
Kanniyakumari	31·2	..	35·6	14	25·3	..	22·2	28	38·4	152·5	..	40·1	21	10	..	20·1	18·0	..	0	10	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	31·3	—0·2	33·2	14	25·1	—1·2	23·2	18	235·5	704·2	+608·0	210·2	22	13	+9·1	17·1	14·0	..	0	17	0	0	0	0	0	0	0	0	0
Honavar	31·1	—1·4	33·9	20	24·3	—1·8	22·0	22	185·3	754·9	+624·1	171·[illegible]	22	14	+8·4	14·5	11·5	+5·7	0	17	0	0	12	0	0	0	0	0	0
Mangalore (Bajpe)	31·5	..	35·2	24	24 0	..	21·8	22	202·6	543·3	..	155 7	24	14	..	10·8	8·3	..	0	17	0	0	9	0	0	0	0	0	0
Mangalore	31·6	—1.1	33·4	2,3,5	24·7	—1 3	22·0	4,23	159·1	597·0	+440·0	137·8	24	13	+6·3	12·7	10·3	+1·4	0	16	0	0	7	0	0	0	0	0	0
Interior Mysore North																													
Bidar	36·7	—2·3	39·8	20	24·6	—1.1	20·5	26	3·8	58·4	+35·0	32·8	26	4	+1·6	14·5	14·0	+1·3	0	4	0	0	3	0	0	0	0	0	0
Gulbarga	37·9	—2·6	42·0	19	24·9	—1·0	21·6	26	5·0	43 0	+14·5	30·0	26	2	—0·4	15·2	14·5	+1·1	0	2	0	0	9	0	0	0	0	0	0
Bijapur	36·5	—2·2	40·0	9	23·7	+0·1	20·2	25	30·2	113·0	+84·5	46·2	26	9	+6·8	10·2	9·5	—1·3	0	12	0	0	6	0	2	0	0	0	0
Raichur	37·9	—1·9	41·0	18	25.9	—0·3	21·9	14	11·0	58·6	+31·4	18·4	14	5	+2·7	14.2	15·1	+1·9	0	5	0	0	2	0	0	0	0	0	0
Belgaum	31·8	—2·8	37·6	7	21·2	+1·0	19·3	8	163·0	258·2	+199·8	65·4	25	14	+9·7	12·0	9·4	—0·8	0	18	0	0	6	0	0	0	0	0	0
Belgaum (Samra)	31·7		37·0	7	20·9	..	19.0	18	123·3	218·0	..	53·0	25	13	..	..	..	..	1	17	0	0	18	1	0	0	1	0	0
Gadag	34·7	+2·1	38·7	5	22·0	—0·6	19·9	16	51·5	128·6	+75·5	60·3	16	8	+3·9	13·8	13·1	—0.6	0	12	0	0	5	0	0	0	0	1	0
Interior Mysore South																													
Bellary	36·3	—2·6	39·8	19	25·2	—0·2	22·4	26	17·0	103·0	+55·0	57.0	14	7	+3·7	12·2	11·7	+2·0	0	8	0	0	5	0	0	0	0	0	0
Chitradurga	32·6	—2·5	36·8	5	22·4	+0·2	20·6	30	0·6	173·6	+98·9	107·0	30	5	+0·6	11·2	10·6	+0·8	1	7	0	0	9	0	0	0	0	0	0
Shimoga	32·3	—1·2	36·6	4	21·2	—1·3	19·2	5	81·7	170·1	+52·5	70 5	30	7	+0·4	8·3	6 5	+0.2	0	10	0	0	0	0	0	0	0	0	0
Balehonnur	27·9	—1·3	31·4	14	18·9	—0·6	17·4	23	..	368·1	+262·7	110·7	26	13	+7·0	..	..	..	0	18	0	0	0	0	0	0	0	0	0
Hassan	29.5	—2·4	33 5	7,13	19·3	—0·5	17·5	22,31	73·8	169·0	+51·7	42·2	14	9	+1·8	10·5	9·3	+0·8	0	12	0	0	10	0	0	0	0	0	0
Bangalore	31.8	—1·1	35·6	7	21·3	+0·3	19·2	14,23	55·0	150·5	—0·2	67·1	14	4	—2·6	14·8	12·7	+3·8	0	9	0	0	7	0	0	0	0	0	0
Bangalore Aerodrome	32.2	..	36·0	5	21·1	..	18·9	23	41·4	72·6	..	31·7	14	5	..	..	..	..	0	10	0	0	9	0	0	0	1	1	0
Mysore	32·1	—1·2	35·3	13	20·7	—0·4	19·3	25	50·3	92·9	—49·1	60·2	16	6	—1·9	10·0	10·1	+0·3	0	10	0	0	5	0	0	0	0	0	0
Kerala																													
Calicut	31·3	—1·0	34·7	7	25·1	—0·6	21·9	22	41 2	690·6	+454·9	137·2	22	14	+5·3	15·8	12 7	+1·4	0	18	0	0	12	0	0	0	0	0	0
Palghat	32·4	..	36·7	14	21·4	..	21 8	22	13·9	374 8	..	146·2	22	15	..	15·3	12·2	..	0	17	0	0	8	0	0	0	0	0	0
Fort Cochin	30·5	—0·3	32·5	13,14	25·1	—0·6	22 4	22	274·0	570·9	+374·2	154·9	22	17	+4·7	12·1	9·6	+1·1	0	20	0	0	16	0	0	0	0	0	0
Cochin (Naval Air Station).	31.2	..	33·4	4	25·0	..	22·7	22	292 7	677·4	..	189·3	22	14	..	11·9	9 3	..	0	20	0	0	15	0	0	0	0	4	0
Alleppey	31·2	—0 7	33·4	4 days	24 9	—0·3	21 7	22	445 1	475·7	+101·7	82 8	23	14	+0 3	16·3	13·6	+0·7	0	21	0	0	5	0	0	0	0	1	0
Punalur	32·5	..	35·9	13,14, 17	23·9	..	21·8	22	23 4	371·8	..	120·2	21	14	..	5·9	3 8	..	0	14	0	0	1	0	0	0	0	0	0
Trivandrum	31·3	—0 6	34·4	2	2[illegible]	—1·1	22·1	22,28, 30	54 6	403 4	+180·4	110 2	21	13	+2·9	14·2	9·5	+1·3	0	17	0	0	12	0	0	0	0	0	0
Trivandrum Aerodrome	31.5	..	33·7	14	24·6	..	22·3	28	..	343·1	..	82·0	28	12	..	..	6 4	..	0	17	0	0	5	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousei	25·9	0	30·0	31	14·5	—1·2	8·8	15	40·8	68·0	+21·3	25·0	5	6	+2·2	4·7	6 6	—0·2	0	9	0	0	1	0	0	0	0	0	0
Dharmsala	29·9	—0·9	34·2	21	20·6	—0·7	17·3	12,13, 22	1·6	21·2	—33·4	6·6	12	4	+0·1	7·5	5·9	—0·5	0	5	0	0	15	0	0	0	0	0	0
Simla	22·5	—0·4	26 6	21	14·2	—0·1	9·1	22	8·8	30·1	—34·2	13·5	22	3	—2·2	5.9	4.5	+1·8	1	7	0	0	8	0	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	14·2	—35·1	12·2	22	1	—2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lokpal	4·6	..	7·8	31	—2·2	..	—3·7	1	..	39·4	..	15·0	13	4	..	..	..	..	2	6	4	9	2	0	0	25	0	0	0
Badrinath (R)																													
Joshimath	26·0	..	30·7	31	13·4	..	9·6	14	16·9	44·2	..	21·5	13	5	..	9·1	9·3	..	0	7	0	0	0	0	0	0	0	0	0
Mussoorie	24·4	—0·3	27·3	31	14·6	—0·2	9·3	12	9·0	35·0	—7.4	16·2	11	5	+0·7	6 0	5·2	—4·5	0	6	0	0	7	0	0	0	0	0	0
Mukteswar (Kumaun).	23·9	+1·1	27·6	30	13·1	—0·1	6·9	1	22·0	49·2	—9·2	19·2	13	5	—0·1	17.2	15·1	+3·8	0	9	0	3	11	0	0	0	0	0	0
Nainital	23·9	—0.1	26·8	31	14·7	—0·7	10·9	10	51·0	86·0	+10.5	39·0	10	6	+2·5	8·9	7·7	—0·3	0	8	0	0	0	0	0	0	0	0	0
Walong (R).																													
Kalimpong	27·4	+3·7	30·0	21,22	18·1	+1·0	13·4	10	45·7	101·6	—57·7	50·8	27	5	—6·8	5·5	4.5	—6·4	0	5	0	0	0	0	0	0	0	0	0
Darjeeling	19·7	+1·9	22·7	22	13·1	+0·8	10·3	4	18·8	69.6	—175·0	27·6	6	6	—8·4	4.0	3·3	+0·7	0	14	0	0	3	16	0	0	0	0	0
Kohima	24·6	..	28·3	21,29	19·4	..	13·9	4	54·4	171.4	..	66·2	10	12	..	..	..	..	0	15	0	0	0	1	0	0	0	0	0
Shillong (R)																													

*Data given as addenda in December 1961 issue. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squal	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	2	27	28	29
Hill Stations excluding Kashmir — *Contd.*																													
Cherrapunji (R)																													
Abu	31.8	+0.7	33.9	20	20.3	−1.4	16·4	9, 13	0	0	−23.6	0	..	0	−1·3	16·0	10.8	−0.9	0	0	0	0	0	0	0	0	0	0	0
Aijal	27.1	..	30.5	27	19·2	..	10.0	10	44·0	184·1	..	31·0	31	16	..	10.1	12.1 (a)	..	0	19	0	0	0	0	0	0	0	0	0
Pachmarhi	35·8	+0·4	37.7	4	22.6	−1.3	17•7	8	13.4	29·1	+13·4	19·5	21	2	+0.4	7.7	6.4	−2·1	0	6	0	0	4	0	0	0	0	0	0
Mahabaleshwar	29.6	+0 8	35.3	3	18.2	0	16.3	22	74·5	175·1	+134.5	56·4	25	10	+7.6	10.9	11.3	−2·4	0	18	0	0	11	10	0	0	0	0	0
Mercara	25·3	−1.4	29·5	2	17·6	−0.5	16·0	22	246·5	461·0	+328·7	158·5	26	14	+5·5	13·5	9·7	+3·6	0	17	0	1	5	0	0	0	0	0	0
Ootacamund	20.1	−1.2	23·3	21	11·1	−0.3	9·3	10	72·6	175·8	+16.0	25·2	14	13	+1·0	8·7	5.5	+1·2	0	18	0	0	8	0	0	0	0	0	0
Coonoor	23·8	0·8	26·4	21	15·3	−1·3	12·8	31	..	124.1	+18·2	37·3	18	9	+1·3	..	8.9	+3.6	0	12	0	0	0	0	0	0	0	0	0
Kodaikanal	19·8	−0.4	23·4	20	12·4	−0.2	11·0	8,31	38.9	59.5	−102.3	9.3	17	11	+0.4	13.3	13.8	+2.4	0	14	0	0	15	3	0	0	0	0	0
Nepal																													
Katmandu	30.5	.	34.3	22	15.0	..	11.2	1	5.2	39.9	..	15.4	13	5	..	4.5	2.7	..	2	9	0	0	14	0	0	0	0	0	0
Sikkim																													
Lachen	16.3	..	19·4	9	8.5	..	5.0	4	..	122.6	..	13·8	23	15	..	..	..	..	1	25	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	39·4	..	42.2	20	27·0	..	20·7	7	0	29.4	.	28·4	7	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hazaribagh	37·8	..	40.6	20	24·7	..	18.9	7	11.0	43·6	..	31·2	7	3	..	..	..	..	1	3	0	1	5	0	1	0	0	0	0
Konar	..	..	..	..	..	..	..	..	38.6	84·4	..	43·4	7	2	..	..	..	..	1	3	0	0	2	0	0	0	0	0	0
Bokaro	40·6	..	44·5	20	26.3	..	21·2	4	8·6	8·6	..	4·8	15	1	..	..	..	.	1	3	0	0	8	0	0	0	0	0	0
Maithon	38·5	..	43·3	20, 21	25.3	..	20.0	1,9,10	23·4	29.4	..	16.3	14	3	..	..	..	..	0	3	0	0	2	0	1	0	0	0	0
Ramgarh	40.9	..	43·7	20	26.0	..	20·7	7	2.3	22.6	..	20.0	7	1	..	6.5	3.9	..	0	4	0	0	0	0	0	0	0	0	0
Panchet Hills	41·3	..	46.9	26, 28	26 9	.	22·3	15	33.0	47·9	..	14·8	14	4	..	12·1	9·7	..	0	7	0	0	4	0	0	0	0	0	0
Durgapur	40·3	..	45.0	22	26.0	..	21·1	4	13·5	27·8	..	13 0	12	2	..	..	..	..	0	4	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	40·9	..	43·9	19, 20	25.8	..	23.3	9,23	..	1.5	..	1.5	6	0	..	..	..	..	0	1	..	..	.	..	.	..	..	..	..
Hirakund	41·4	..	44·4	19	29·1	..	24.8	24	0	24.8	..	21.6	24	1	..	6.5	6.0	..	0	3	0	0	2	0	0	0	0	0	0
Bhimkud	38.1	..	42.5	20	25.0	..	20.6	5	55.1	67.1	..	17.0	23	8	..	3·2	1.9	..	0	9	0	1	9	0	0	0	0	9	0
Sonepur	41·3	..	44·2	19	28·6	..	25·0	3	..	53.6	..	49·8	23	2	..	..	7.7	..	0	2	..	..	..	..	..	.	..	..	..
Khijrawan	39·8	..	41.9	20, 30	27·0	..	22.4	9	9.6	17.9	..	7.8	17	3	..	(a) 13·6	8.9	..	0	7	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	42.3	..	45.5	19	28·5	..	25·1	5	18·2	19·2	..	13·6	21	2	..	8·8	6·0	..	0	2	0	0	2	0	2	0	0	0	0
Punasa	42.9	..	47·2	29, 30	..	..	..	..	2·5	2·5	..	2 5	31	1	..	6·1	4.3	..	0	1	0	0	0	0	0	0	0	0	0
Thikri	42·0	..	45·6	19	28·9	..	25·8	3	..	17·5	..	17·5	20	1	..	..	..	..	0	1	0	0	2	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	42.1	..	43.8	22, 23	27·9	..	25.4	5	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim (R)																													
Tehri (R)																													
Gandak Catchment																													
Jomosom	23.8	..	26.9	18	6.7	..	4.9	4,8,12	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	56·6	260·4	..	89·0	13	13	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Timure	27·2	..	30·1	19, 22	15.6	..	13.1	1,4	3·8	39·4	..	10·9	31	6	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Pokhara	31·3	..	35·1	22	19·2	..	13.0	1	91·0	141·4	..	25·8	26	12	..	6·8	5.4	..	1	17	0	1	25	0	0	0	0	0	0
Gorkha†																													
Nuwakot	33.3	..	37.0	22	19.6	..	16.1	7	17.6	30.2	..	15.8	7	3	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment																													
Mansiari (R)																													
Dadeldhura	26 5	..	30.1	31	(e) 16·6	..	8.9	1	12.4	49.6	..	15·8	13	6	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Sallayana	30·8	..	34·4	19	(a) 20·0	..	14·3	2	0.5	2.0	..	1.5	8	0	..	..	..	..	0	2	..	..	..	..	..	.	..	..	..
Butwal	39·3	..	43·4	21	25·9	..	16·5	4	40.4	55·0	..	33.6	4	4	..	..	..	..	0	5	..	.	..	..	..	..	..	..	..

(a) Mean for 30 days. (e) Mean of 26 days. (R) Register not received. †Data not reliable.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from norma	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder 1 ard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																													
Baghmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	29.7	..	33·6	19	17·1	..	12·2	1	2·5	26·1	..	8·9	6	3	..	..	..	..	0	8	..	..	..	..	..	..	..	..	
Chepua	..	..	..	..	..	..	..	..	26·8	248·8	..	40 0	23	21	..	..	..	..	1	25	..	..	..	..	..	..	..	..	
Walungchung Gola	14·9	..	18·4	22	6.2	..	3.3	2	26.6	27·6	..	11 6	10	12	..	..	..	..	1	19	..	..	..	..	..	..	..	..	
Taplethok	26·9	..	29·2	20	17.6	..	13 8	5	41.8	188·2	..	34.4	20	17	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..
Bhojpur	24.9	..	28.8	21	16.1	..	11.7	4	67.4	133.1	..	36.0	4	11	..	..	..	..	3	13	..	..	..	..	..	..	..	..	..
Taplejung	24.3	..	26.9	21,22	13.2	..	11·4	1	63.2	221.3	..	45.4	26	18	..	..	..	..	3	20	..	..	..	..	..	..	..	..	..
Okhaldhunga	24·7	..	28·3	22	15·9	..	10·6	1	52·0	174·8	..	70·8	30	12	..	6·3	5·7	..	0	17	0	1	17	0	0	0	3	1	0
Chainpur	29·1	..	31·7	18,22	18·6	..	16·2	6,9,12	49 2	171·6	..	36·0	11, 12	11	..	..	..	..	0	15	..		..	..				..	..
Angbung	29.1		32·5	21	18.1	..	14.6	6	53·4	226·3	..	56·8	28	16	..	..	..	..	0	16	..	.	..	..	..	.	..	..	..
Barahakshetra	34.9	..	39·2	21	23·6	..	20.0	2	11·1	111·9	..	6·1	31	9	..	13·5	8·5	..	0	15	0	0	23	0	0	0	0	4	0
Tista Catchment																													
Gangtok	22·5	..	25·3	9	11·1	..	11·3	4	83·6	455·2	..	78·3	25	24	..	3·9	3·1	..	0	28	0	1	14	5	0	0	0	0	0
Gezing	26·3	..	30·2	9	15·8	..	12·7	4	51.4	189·8	..	22·5	22	19	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..

*Data included under "Nepal".

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Bay Islands																										
Maya Bandar	0830	28	1007·3	1004·2	..	27·5	25·9	25·0	31·7	85	..	5·5	..	6·6	0	2	20	0	5	0	0	0	17	0	0	9
	1730	,,	1005·0	1001·8	..	26·9	25·2	24·5	30·7	87	..	5.4	..	7·2	0	3	21	0	3	0	1	0	17	2	1	7
Long Island	0830	25	(f) 1007·5	(f) 1004·7	..	27·7	26·1	25·4	32·4	88	..	7·2	..	5·7	0	3	13	0	0	0	0	0	7	1	0	15
	1730	,,	(g) 1005·0	(g) 1002·2	..	27·5	25·8	25·0	31·7	87	..	7·6	.	4·9	0	1	15	0	0	0	0	1	4	1	0	15
Port Blair	0530	79	1006·1	997·2	..	25·1	24·7	24·6	30.9	96	..	7·5	..	9·7	0	4	14	0	1	0	0	2	8	4	3	13
	0830	,,	1007·7	993·8	−1·0	27·1	25·6	24·9	31·5	88	+10	7·1	+1·8	14·8	0	9	17	3	0	0	0	3	12	5	3	5
	1130	,,	1006 8	997·9	..	28·0	26·1	25·4	32.4	86	..	7·6	..	17.5	0	9	21	2	1	1	4	1	10	7	4	1
	1730	,,	1005·4	996·5	..	26·4	25·3	24·7	31·1	91	..	7·7	..	13·5	0	6	21	2	2	0	0	3	12	6	2	4
	2330	,,	1006·6	997·7	..	25·5	25·0	24·7	31·1	96	.	6·3	..	11·4	0	5	15	1	0	0	0	2	11	4	2	11
Car Nicobar	0830	10	1008·6	1007·4	..	28·2	25·9	25·1	31·9	83	..	6·5	..	4·9	0	0	23	0	0	0	0	1	13	7	2	8
	1730	,,	1006·7	1005·5	..	26·9	25·2	24·4	30·5	86	..	6·8	..	1 8	0	0	13	0	0	0	0	0	8	4	1	18
Nancowry	0830	26	1009·1	1006 2	..	27·6	25·5	24·6	30·9	83	..	6·4	..	9·7	0	4	19	0	0	0	0	1	18	3	1	8
	1730	,,	1007·1	1004·2	..	26·8	25·0	24·2	30·2	86	..	5·8	..	6·3	0	2	21	0	0	0	0	1	16	5	1	8
Kondul	0830	8	1008·8	1007·9	..	27·6	25·8	25·0	31·7	87	..	6·8	..	3·0	0	0	15	0	3	0	0	0	12	0	0	16
	1730	,,	1007·1	1006·2	..	26·7	25·1	24·5	30·7	87	..	6·8	..	3·3	0	0	16	0	0	1	2	2	10	0	0	15
Assam (Including Manipur, Tripura)																										
Pasighat	0830	157	1007·0	989·2	..	24·2	21·6	20·3	23·8	80	..	6·5	..	9·8	0	5	20	1	1	0	1	1	0	0	21	6
	1730	,,	1003·1	985·5	..	25·3	23·0	21·9	26·3	81	..	6·0	..	4·0	0	2	16	0	0	0	0	0	1	0	17	13
Dibrugarh (Mohanbari)	0230	111	1004·5	991·9	..	22·1	21·3	20·9	24·7	93	..	6·9	..	3·9	0	9	15	2	11	1	1	0	0	0	0	16
	0530	,,	1005·7	993·0	..	22·2	21·3	20·8	24·7	92	..	7·0	..	4·0	0	0	16	0	12	2	2	0	0	0	0	15
	0830	,,	1007·0	994·3	−1.0	24·6	22 2	20·9	24·9	82	−1	6·8	+1·4	7·5	0	9	28	1	20	3	1	1	1	0	1	3
	1130	,,	1006·1	993·6	..	26·0	22·9	21·3	25·6	77	..	6·4	..	5·8	0	9	24	0	17	4	1	1	0	0	1	7
	1730	,,	1003·1	990·6	..	25·9	23·1	21 6	25·8	78	..	5·6	..	3·7	0	0	19	3	11	3	1	1	0	0	0	12
	2330	,,	1004·8	992·2	..	22·9	21·9	21·4	25·5	90	..	6·5	..	3·2	0	9	13	2	8	1	1	0	1	0	0	18
Dibrugarh	0830	106	1006·1	994·1	−1·7	24·8	22·1	20·8	24·4	79	−4	6·4	+1·0	2·3	0	0	24	0	17	2	1	0	2	0	2	7
	1730	,,	1002·8	990·8	.	25·9	22·7	21·1	25·0	76	..	5·5	..	0·9	0	0	10	0	4	5	0	0	1	0	0	21
Digboi (R)	0830	152																								
(R)	1730	,,																								
North Lakhimpur	0830	102	1007·0	995·4	+0·4	24·8	22·8	21·8	25 9	85	0	6·5	−0·3	..	0	0	25	8	7	5	2	..	2	0	1	6
	1130	,,	1006·3	994·8	..	26·5	23·3	21·8	25·9	77	..	6·2	..	..	0	0	31	4	10	7	5	4	0	0	1	0
	1730	,,	1003·6	992·1	..	25·9	23·5	22·5	27·1	82	..	5·2	..	..	0	0	24	4	11	5	1	1	1	1	0	7
Sibsagar	0830	97	1007·0	996·1	−0·5	25·2	23·4	22·4	27·1	86	+2	6·8	+0·5	3·8	0	0	27	6	12	4	2	1	2	0	0	4
	1730	,,	1003·4	992·6	..	27·0	24·2	22·7	27·6	78	..	6 2	..	3·8	0	0	23	3	14	3	1	1	1	0	0	8
Gohpur	0830	..	..	..	..	25·1	23·3	22·3	27·1	85	..	2·5	..	3·0	0	0	31	0	3	27	1	0	0	0	0	0
	1730	..	..	..	..	26·7	24·0	22·7	27·6	79	..	2·3	..	3·3	0	1	27	0	2	25	1	0	0	0	0	3
Majbat	0830	77	..	..	..	.		..	..	..		4·9	..	4·4	0	0	27	5	6	7	4	2	2	0	1	4
	1730	,,	..	..	..	..	..	..	..	..	..	3·6	..	1·7	0	0	14	0	5	0	6	0	2	1	0	17
Jorhat Aerodrome	0530	90	1004·6	994·4	..	22·7	22·3	22·0	26·6	97	..	6·7	..	6·1	0	0	23	3	17	1	0	0	0	2	0	8
	0830	,,	1006·2	996·0	..	25·2	23·4	22·6	27·4	86	..	6·8	..	7 2	0	0	29	3	20	3	0	0	0	1	2	2
	1130	,,	1005·1	995·1	..	27·3	24·3	22·9	27.9	80	..	6·3	..	11·1	0	0	29	4	23	1	0	0	1	1	1	0
	1730	,,	1001·7	991·7	..	26·6	23·7	22·3	26·9	78	..	5·3	..	13·3	0	0	27	1	25	0	0	0	3	1	0	1
	2330	,,	1004·1	993·9	..	23·5	22·7	22·3	26·9	91	..	5·6	.	6·6	0	1	18	1	13	3	0	0	1	1	0	12
Tangla	0830	78	1005·3	996 8	..	26·5	23·8	23·3	27 3	80	..	4·.	..	1·1	0	0	5	0	1	3	1	0	0	0	0	26
	1730	,,	1001·0	992·6	..	28·4	24·7	23·0	27·9	73	..	3·3	..	0·4	0	0	2	0	1	1	0	0	0	0	0	29
Tezpur	0830	79	1006·4	997 5	−1·5	25·3	24·8	24·6	30·9	96	+15	5·9	+0 7	6·4	0	0	25	0	16	1	3	0	0	0	0	6
	1730	,,	1001·9	993·1	..	28·3	28·0	27·5	37·5	98	..	4 9		4·6	0	0	28	0	15	5	1	0	2	0	0	3
Golaghat	*0830	..	..	..	..	25·3	24·1	23 7	29 3	91	..	(c) 4·5	.	..	0	0	0	0	0	0	0	0	0	0	0	28
	†1730	..	.	..	..	27·2	26·3	25·8	32·4	90	..	[l] 5·3	..	..	0	0	0	0	0	0	0	0	0	0	0	19
Rangia (R)	0830	..																								
(R)	1730																									
Chaparmakh	0830	66	1006·6	991·1	..	26·9	24·2	22·9	27·9	80	..	5·7	..	4·5	0	0	31	6	1	14	0	8	0	2	0	0
	1730	,,	1001·7	994·4	..	29·6	25·0	22·9	27·9	69	..	4·4	..	5·4	0	0	31	15	5	5	2	2	0	0	2	0
Goalpara	0830	38	1005·8	1001·7	..	24·7	23 2	22·2	27·3	87	..	5·4	..	4·8	0	0	30	1	16	3	8	0	1	1	0	1
	1730	,,	1001·4	997·1	..	29·5	25·2	23·1	28 6	71	..	[b] 4 1	.	(b) 4·5	0	0	25	0	9	3	5	0	3	3	2	4
Gauhati	0830	55	1005·9	999·9	−0·8	26·3	23·7	22·4	27·1	80	+1	5 3	+0·3	0 8	0	0	8	0	4	3	0	0	0	0	1	23
	1730	,,	1002·1	995·9	..	29·1	24·8	22·8	27·8	70	..	3 5	.	0·9	0	0	9	0	4	3	2	0	0	0	0	22

(R) Register not received. *Wind observation for 28 days. †Wind observations for 19 days. (f) Mean of 25 days. (g) Mean of 24 days. (c) Mean of 28 days. (b) Mean of 29 days. (l) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1003·1	996·9	..	24·0	23·1	22·6	27·6	92	..	5·5	..	6·3	0	0	23	0	14	4	0	3	0	2	0	8	0
	0530	"	1004·3	998·1	..	23·5	22·8	22·4	27·3	93	..	6·5	..	5·2	0	0	21	3	9	4	0	1	0	2	2	10	0
	0830	"	1005·8	999·6	..	26·1	23·7	22·6	27·3	82	..	5·7	..	7·5	0	1	26	6	13	2	0	4	1	2	1	2	0
	1130	"	1004·6	998·6	..	28·5	24·6	22·8	27·6	72	..	4·7	..	8·9	0	0	29	6	13	4	0	0	0	3	3	2	0
	1730	"	1001·0	994·9	..	28·8	25·0	23·2	28·6	72	..	4·1	..	7·5	0	1	25	7	13	3	0	0	0	0	3	5	0
	2330	"	1003·5	997·3	..	25·0	23·8	23·1	28·4	90	..	4·8	..	7·0	0	0	19	0	12	2	1	1	1	0	2	12	0
Dhubri (Rupsi)	0530	36	1003·4	999·3	..	23·3	22·3	21·7	26·1	92	..	5·3	..	2·4	0	0	20	0	5	7	3	1	0	2	2	11	0
	0830	"	1004·7	1000·6	..	26·5	23·9	22·7	27·6	80	..	5·1	..	6·0	0	0	27	0	2	19	4	0	2	0	0	4	0
	1130	"	1003·7	999·6	..	29·8	25·0	22·9	27·7	69	..	3·7	..	6·2	0	0	30	0	0	10	14	4	2	0	0	1	0
	1730	"	1000·0	996·0	..	29·6	25·5	23·6	29·1	71	..	3·8	..	3·0	0	0	18	0	1	7	4	2	2	0	2	13	0
Dhubri	0830	35	1006·0	1002·0	—0·8	25·9	24·0	22·9	28·3	85	+3	4·8	—0·2	5·2	0	1	24	1	17	4	1	1	0	0	1	6	0
	1730	"	1001·1	997·2	..	28·6	25·8	24·5	30·9	80	..	2·8	..	3·7	0	1	15	1	8	4	0	2	1	0	0	15	0
Lumding	0830	149	1005·4	989·3	..	27·0	24·2	22·9	27·9	79	+1	5·9	..	2·9	0	0	23	0	4	5	7	3	0	2	2	8	0
	1730	"	1001·6	985·1	..	29·9	26·3	24·6	31·3	74	..	4·7	..	2·5	0	0	20	1	0	6	5	2	2	1	3	11	0
Umroi	0830	899	..	..	..	23·5	20·5	18·8	21·9	76	..	6·0	..	6·5	0	2	26	1	3	8	4	1	2	4	5	3	0
	1130	"	..	..	..	25·5	21·2	19·0	23·7	68	..	6·2	..	9·5	0	1	29	4	6	3	4	0	4	7	2	1	0
	1730	"	..	..	..	23·9	20·3	19·3	21·1	76	..	5·6	..	6·5	0	1	28	3	5	5	0	1	2	7	6	2	0
Tura	0830	370	1005·7	964·2	..	26·1	23·6	22·1	26·9	79	..	5·8	..	5·7	0	0	25	0	1	4	5	6	3	4	2	6	0
	1730	"	1002·6	960·7	..	29·1	26·5	25·3	32·6	80	..	5·6	..	7·9	0	1	27	0	2	4	4	7	7	3	1	3	0
Haflong	0830	682	1006·1	931·2	..	22·9	20·9	20·0	23·2	84	..	5·3	..	6·9	0	2	29	2	3	0	1	3	22	0	0	0	0
	1730	"	1001·0	927·2	..	25·4	21·9	20·1	23·8	74	..	3·5	..	4·7	0	0	31	0	0	0	0	3	28	0	0	0	0
Silchar (Kubhigram)	0530	97	1003·4	992·5	..	23·4	22·5	21·9	26·6	91	..	5·8	..	7·8	0	1	26	1	3	17	1	0	2	1	2	4	0
	0830	"	1004·6	993·7	..	27·0	23·8	22·5	26·9	77	..	5·2	..	8·9	0	0	29	1	3	15	5	2	0	1	2	2	0
	1130	"	1003·5	992·8	..	29·7	24·9	22·7	27·6	67	..	4·5	..	8·0	0	0	30	0	4	9	2	3	5	5	2	1	0
	1730	"	1000·0	989·3	..	29·5	25·6	23·6	29·1	72	..	3·7	..	4·7	0	0	26	1	1	7	2	2	2	9	2	5	0
Silchar	0830	29	1006·1	1002·8	—1·5	28·1	24·7	23·2	28·3	75	—5	4·7	—0·3	(b) 2·2	0	0	20	1	6	4	4	2	0	1	2	9	0
	1730	"	1001·5	998·2	.	29·8	26·0	24·3	30·5	72	..	(b) 2·2	..	[b] 1·4	0	0	14	6	4	0	1	0	1	1	1	15	0
Imphal (Tulihal)	0530	801	1006·9	920·6	..	19·9	19·1	18·6	21·4	93	..	6·4	..	1·8	0	0	14	1	4	2	2	2	0	1	2	17	0
	0830	"	1006·9	921·8	—0·3	23·9	21·0	19·5	22·7	77	+3	5·9	+0·3	3·1	0	0	25	3	2	3	0	2	5	7	2	6	1
	1130	"	1004·8	920·6	..	26·7	21·9	19·5	22·4	65	..	6·1	..	5·2	0	0	23	1	2	3	1	1	1	7	4	8	3
	1730	"	1001·7	917·6	..	26·1	21·6	19·3	22·4	67	..	5·1		5·1	0	0	30	5	2	0	0	1	3	8	10	1	1
	2330	"	1005·5	919·9	..	21·6	20·3	19·6	22·7	88	..	4·6		3·1	0	1	16	2	3	1	1	0	1	3	6	14	0
Kailashar	0530	29	1004·7	1001·4	..	24·7	23·8	23·3	28·6	93	..	5·2	..	4·1	0	0	15	4	1	0	0	6	1	2	1	16	0
	0830	"	1006·2	1003·0	..	29·1	25·5	24·1	29·7	77	..	4·8	..	5·8	0	0	27	2	2	0	6	9	1	2	5	4	0
	1130	"	1005·3	1002·0	..	30·5	26·4	24·6	31·1	70	..	5·5	..	7·7	0	1	26	3	1	2	2	9	3	2	5	4	0
	1730	"	1001·3	998·1	..	30·1	26·9	24·5	35·4	69	..	4·2	..	3·9	0	0	17	3	1	0	2	7	1	2	1	14	0
Agartala	0230	16	1002·3	1000·5	..	25·6	24·5	24·1	29·8	92	..	4·5	..	9·2	0	3	24	1	3	1	7	11	3	0	1	4	0
	0530	"	1003·3	1001·5	..	25·2	24·3	23·9	29·7	93	..	5·0	..	7·5	0	0	26	1	3	5	7	7	3	0	0	5	0
	0830	"	1004·7	1002·9	—0·4	29·4	26·2	24·9	31·3	77	0	5·7	+0·1	12·7	0	5	24	1	1	6	5	8	6	0	2	2	0
	1130	"	1003·5	1001·7	..	31·3	26·7	24·7	31·3	69	..	6·0	..	15·9	0	7	24	5	2	1	5	11	6	0	1	0	0
	1730	"	1000·3	998·5	..	30·4	26·5	24·8	31·5	73	..	4·6	..	12·5	0	4	27	5	1	0	3	12	4	3	2	0	0
Sub-Himalayan West Bengal.	2330	"	1003·1	1001·3	..	26·3	25·1	24·5	30·9	90	..	5·1	..	16·3	0	3	25	3	1	0	8	6	8	1	1	3	0
Bagdogra	0230	131	1002·5	987·6	..	..	..	.	..	..	..	4·5	..	6·1	0	0	30	7	11	11	0	0	0	1	0	1	0
	0530	"	1003·4	988·6	.	23·8	22·7	22·2	26·7	90	..	5·2	.	7·6	0	1	26	4	9	11	0	1	1	0	1	4	0
	0830	"	1004·7	990·1	—0·2	28·2	24·3	22·4	27·1	72	—2	4·5	—0·7	12·1	0	4	27	1	5	22	2	1	0	0	0	0	0
	1130	"	1003·5	988·9	..	31·2	25·6	23·1	28·3	63	..	5·0	..	13·3	0	3	28	1	2	21	4	2	0	0	1	0	0
	1730	"	1000·0	985·5	..	29·7	25·5	23·6	29·1	70	..	3·6	..	9·5	0	1	28	0	8	16	1	2	1	1	0	2	0
	2330	"	1002·8	988·0	..	..	..	..	..	..	..	4·6	..	8·4	0	1	27	9	9	8	0	1	0	1	0	3	0
Jalpaiguri	0830	83	1004·9	995·6	—1·5	26·3	23·5	22·2	26·7	79	0	3·5	—0·3	9·9	0	0	29	4	11	13	0	0	0	0	1	2	0
	1730	"	1000·1	990·9	..	30·0	25·2	22·9	27·9	67	..	2·2	..	7·7	0	0	29	1	9	13	4	1	0	0	1	2	0
Cooch Behar	0830	43	1005·2	1000·4	..	26·9	24·1	22·9	27·9	79	..	5·2	.	10·5	0	1	30	0	9	16	2	1	0	1	0	0	2
	1130	"	1004·1	999·3	..	29·5	25·3	23·5	28·9	70	..	4·4	..	6·9	0	3	28	0	8	16	5	1	0	0	0	0	1
	1730	"	1000·6	995·8	..	29·3	25·6	23·9	29·7	74	..	3·5	..	5·5	0	1	18	0	5	7	2	1	1	1	0	12	2
Balurghat	0830	..	..	..	..	29·3	25·3	23·5	28·9	72	..	3·6	..	9·8	0	0	31	2	5	11	8	4	1	0	0	0	0
	1730	..	..	..	..	32·3	25·8	22·3	26·9	60	..	2·7	..	5·0	0	0	29	1	4	5	12	3	2	0	2	2	0
Malda	0830	21	1003·5	1000·1	—1·6	30·0	25·2	23·0	28·1	67	—4	3·3	—0·1	8·8	0	1	30	2	9	9	4	2	5	0	0	0	0
	1730	"	999·1	995·6	..	33·5	25·7	22·1	26·6	53	..	3·3	..	7·9	0	0	31	1	6	13	4	3	2	0	2	0	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in Meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km p.h.): 62 or more	Wind speed (km p.h.): 20 to 61	Wind speed (km p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1003·5	1001·5	−1.6	29·8	26·0	24·4	30·5	73	0	2·8	−1·6	5·4	0	0	30	1	2	8	1	16	1	1	0	1	0
	1730	"	999·4	997·3	..	32·1	25·1	21·9	26.3	58	..	4·3	..	6·3	0	1	30	0	3	11	1	10	2	4	0	0	0
Suri	0830	77	1003·8	995·3	..	31·3	24·9	21·9	26·3	59	..	3·3	..	8.6	0	0	31	0	4	5	8	6	6	1	1	0	0
	1730	"	999·4	991·0	..	34·7	23·9	18 0	20·6	42	..	6·1	..	10·0	0	0	31	2	3	7	7	6	3	2	1	0	0
Asansol	0230	126	1001·2	987·1	..	28·0	24·2	22·4	27·1	72	..	2·1	.	4.8	0	0	17	0	0	2	9	5	0	1	0	14	0
	0530	"	1001·9	987.8	..	27·1	24·3	23·1	28·3	79	..	4·0	..	4·9	0	0	18	0	0	2	10	3	1	1	1	13	0
	0830	"	1003 0	989 1	−0 9	32·4	25·3	22·2	26 7	56	− 7	2 4	−0.7	9.0	0	1	27	0	1	9	8	1	5	2	2	3	0
	1130	"	1002·0	988·3	..	37·0	26·0	20·8	24 6	41	..	2·1	..	9·5	0	1	29	1	2	8	7	2	3	5	2	1	0
	1730	"	996·5	934 8	..	35·3	24 8	19·7	22·9	44	..	4 2	..	9.0	0	2	22	1	1	7	5	1	1	4	4	7	0
	2330	"	1001·7	937·7	.	29·4	24·4	22·0	26·4	66	..	3 1	..	7·2	0	0	22	0	0	3	11	6	0	2	0	9	0
Shanti Niketan	0830	59	1003.7	997 1	..	31·2	26·0	23·7	29·3	65	..	3·1	..	9.9	0	1	30	1	3	6	7	4	8	1	1	0	0
	1130	"	1002.8	996·3	..	35·1	25·8	21 4	25.5	48	..	2·4	..	10.0	0	1	30	0	5	3	4	8	6	3	2	0	0
	1730	"	999·2	992.8	..	33 5	24·2	19 4	22·5	38	..	4·5	..	10·7	0	0	30	2	2	2	10	5	2	4	3	1	0
Krishnanagar	0830	15	1004·0	1002·4	−0·9	30·1	26 6	25·3	32·2	76	+1	2·8	−1 2	3.5	0	1	29	1	2	2	0	15	2	1	0	7	0
	1730	"	999·8	998·2	..	32·6	25·7	22·5	27·3	58	..	3·2	..	3 5	0	0	25	1	0	1	2	19	0	0	2	6	0
Purulia	0830	255	1002·8	975·3	−0 4	32·4	23 9	18·8	21 7	48	−4	3·8	+1·3	3·7	0	0	30	1	0	0	14	2	1	1	11	1	0
	1730	"	998·2	970·9	..	34·4	23·8	18·1	20 8	39	..	4·3 (c)	.	4·9 (c)	0	0	31	1	0	3	17	2	1	0	7	0	0
Burdwan	0830	32	1003·7	1000·1	−1·0	31·3	26·2	24 0	29 8	67	—7	1·7	−2 5	9 9	0	0	25	0	2	7	2	4	10	0	0	1	0
	1730	"	999·6	996·1		33·4	25·4	21·6	25 8	51	..	3·8	.	7·0	0	1	29	2	1	6	5	4	1	0	1	11	0
Barrackpore Aerodrome	0530	7	1002·5	1001·7	.	27 0	25·7	25·1	31·9	89	..	4·8		3 1	0	1	24	1	2	1	5	8	7	0	1	6	0
	0830	"	1003·3	1002·6	−0·4	30 7	27·1	25·6	32·8	75	+2	3.7	−0·2	11·6	0	4	26	1	2	2	4	6	13	1	1	1	0
	1130	"	1003 2	1002·5	..	23·9	27·6	25·0	31·7	59	..	3·3	.	11.8	0	2	28	3	2	2	3	7	9	2	2	1	0
	1730	"	999 8	999 1	..	32·5	27·0	24·7	31·1	65	..	4.2	..	9 9	0	1	26	1	0	4	7	9	6	0	0	4	0
	2330	"	1002·4	1001.7	..	28·5	26·5	25·7	33 0	86	..	2.9	..	8·3	0	2	22	0	1	1	8	11	3	0	0	7	0
Calcutta (Dum Dum)	0230	6	1001·3	1000 6	..	27·0	25·5	25 0	31·7	89	..	3.4	..	7.5	0	1	28	2	0	0	8	14	3	1	1	2	0
	0530	"	1002·1	1001 4	..	26·9	25·7	25 2	32·1	91	..	5·1	..	5 5	0	1	23	2	2	2	4	9	5	0	0	7	0
	0830	"	1003·3	1002 6	−1·2	30 8	27·1	25 5	32·6	74	0	3·9	−0 5	9.0	0	2	27	0	4	1	3	11	7	2	0	2	1
	1130	"	1002·9	1002 2	..	33·6	27·6	25 1	31 9	63	..	3·6	..	9 0	0	0	31	1	4	2	4	13	3	2	2	0	0
	1730	"	999·7	999 0	..	32·4	27·0	24 7	31·1	65	..	4·1	..	8 9	0	1	30	0	2	4	6	18	1	0	0	0	0
	2330	"	1002·2	1001 5	.	27·6	25·6	24·8	31·3	85	..	4 3	..	9 6	0	2	27	1	0	1	8	14	4	0	1	2	0
Calcutta	0830	6	1003·5	1002·8	−1·5	31·0	27·0	25·4	32·4	71	—3	3·5	−0·7	9 9	0	1	28	0	1	3	2	9	13	0	1	2	0
	1130	"	1002·7	1002·0	..	34 2	27·6	24 9	31 5	59	..	3·3	..	9·2	0	1	23	1	2	1	5	9	8	3	0	2	0
	1730	"	999 6	998·9	..	32 6	27·1	25·0	31·7	64	..	4·3	.	8·9	0	0	23	0	2	3	4	14	5	0	0	3	0
Midnapore	0830	45	1003 3	998 4	−1·2	31 1	26·2	24 0	29 8	67	−2	2·3	−0·6	5·5	0	0	24	1	2	2	0	13	5	1	0	7	0
	1730	.	999·2	994 2	.	34·7	25·8	21·7	25 9	50	..	3·5	..	8·9	1	2	20	1	1	0	3	13	5	0	0	8	0
Contai	0830	11	1004 0	1002·8	0	31 2	27·5	25·9	33·4	74	−3	2·3	−1·8	11·1	0	3	25	3	0	1	4	3	16	1	0	3	0
	1730	"	1000·5	999·3	..	30·5	27·5	26 4	34·4	79	..	2·7	..	12 4	0	2	28	0	2	1	7	12	8	0	0	1	0
Saga Island	0830	3	1003·7	1003·4	−1·3	30·3	27·6	26 7	35 0	82	+7	4·8	−0·2	26 9	0	22	9	2	2	1	2	10	12	1	1	0	0
	1730	"	1000·1	999·8		30·3	27·7	26 8	35·2	81	..	4·3	..	28.8	0	25	6	0	1	2	6	14	8	0	0	0	0
Sandheads	0530	10	993·5	997·4	..	28 9	26·9	26·2	34.0	85	..	4·5	..	18 8	0	15	14	0	1	1	1	6	16	2	2	2	0
	0830	"	1003·9	1002 8	−1.4	29·9	27.5	26 6	34·8	84	+5	4·1	+0·3	17 6	0	9	22	1	1	1	0	5	18	2	3	0	0
	1130	"	1003.4	1002·3	..	30·3	27·5	26·5	34·6	80	..	4·1	..	10·2	0	9	21	1	1	1	1	4	19	2	1	1	0
	1730	"	999·8	998·7		29·8	27·5	26·5	34·6	83	..	3·7	..	20·3	0	17	13	0	3	0	1	8	18	0	0	1	0
	2330	"	1002.4	1001·3	..	29·1	27·1	26·4	34.4	85	..	5·1	..	21.2	0	19	12	0	2	0	3	9	15	1	1	0	0
Orissa																											
Baripada	0830	54	1004·3	998·2	..	31 1	26·0	23·7	29·3	66	..	3·6	..	2·0	0	0	13	4	0	2	2	4	5	0	1	13	0
	1730	"	1000·1	994·2	..	33·1	25·9	22·6	27·4	57	..	4·1	..	3·3	0	0	24	3	2	1	10	4	3	1	0	7	0
Jharsuguda	0230	230	1000·9	975·6	..	29·9	23·0	19·3	22·4	53	..	4·4	..	4·8	0	0	23	2	1	3	7	3	5	2	0	8	0
	0530	"	1002·0	976·6	..	29·0	23·0	19.9	23·2	59	..	5·8	..	4.6	0	0	25	0	2	5	6	4	3	4	1	6	0
	0830	"	1003·3	978·3	+0·1	32·9	24·0	19.4	22·5	45	−1	4·7	+2·2	6·9	0	0	30	1	1	3	5	4	8	7	1	1	0
	1130	"	1001·8	977·1	..	38·0	24·7	17.7	20·2	32	..	4 4	..	8·3	0	0	29	2	4	0	0	2	9	10	2	2	0
	1730	"	997·7	972·9	..	38·1	23·6	15·2	17·3	27	..	2·8	..	9·0	0	0	29	5	0	3	1	2	11	5	2	2	0
	2330	"	1001·4	976·3	..	32·0	23·3	18·4	21·1	47	..	4·8	...	10·0	0	1	28	1	3	3	7	5	9	1	0	2	0
Keonjhargarh	0830	463	1000·6	950·5	..	30·6	24·6	22·0	26·4	61	..	2·5	..	4·2	0	0	20	1	0	2	1	1	1	12	2	11	0
	1730	"	996.5	947.1	..	33·4	25·1	21·7	25·9	51	..	4·7	..	4·0	0	0	30	1	0	0	3	5	4	13	4	1	0
Balasore	0830	20	1003·4	1001·2	−1·2	31·2	27·0	25·3	32.2	71	+1	3·8	+0·3	13·4	0	8	21	1	1	0	0	11	14	0	2	2	0
	1730	"	998·8	997·6	..	31·4	37·1	25.3	32.2	71	..	4·8	..	13·2	0	8	20	2	1	0	7	15	2	0	1	3	0
Sambalpur	0830	148	1013·6	987·3	−0.6	33·6	24·3	19.7	22.9	44	−4	2·8	+0·4	2·3	0	0	19	2	0	0	0	3	10	2	2	12	0
	1730	"	998.1	982·2	..	38·8	24·3	16.5	18.8	27	..	3 7	..	1.7	0	0	15	2	3	1	0	1	4	1	3	16	0

(c) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Angul	0830	139	1004·1	988·8	−0·2	31·0	25·3	22·6	27·4	62	−4	3·8	+0·3	5·0	0	0	30	0	6	5	5	8	0	1	5	1	0
	1730	,,	1000·3	985·1	..	36·5	25·4	19·9	23·2	41	..	6·0	..	8·5	0	1	30	0	2	2	5	10	1	4	3	0	0
Cuttak	0830	27	1003·9	1000·9	−1·3	31·2	27·2	25·6	32·1	72	+2	3·5	−0·4	1·9	0	0	6	0	0	0	0	1	5	0	0	25	0
	1730	,,	1000·3	997·3	..	34·7	27·0	23·7	29·3	55	..	4·2	..	7·2	0	1	17	0	1	0	0	5	11	1	0	13	0
Chandbali	0830	6	1003·9	1003·2	−0·7	30·6	27·2	25·8	33·2	75	+2	4·3	−0·4	8·2	0	3	27	0	1	0	2	2	23	0	1	1	1
	1730	,,	1000·4	999·7	..	34·4	27·7	24·9	31·5	59	..	3·5	..	15·5	0	11	19	0	2	0	21	1	2	2	2	1	0
Bolangir	0830	190	1003·8	982·9	..	33·2	26·8	24·1	30·0	60	..	4·7	..	9·7	0	1	30	1	1	0	7	13	7	0	2	0	0
	1730	,,	998·8	978·4	..	38·1	27·8	23·4	28·8	44	..	5·1	..	9·8	0	3	28	7	2	0	3	6	3	1	7	0	2
Phulbani	0830	464	1001·4	951·3	..	30·2	24·4	21·9	26·3	61	..	2·7	..	0·7	0	0	3	0	0	0	0	0	1	0	2	28	0
	1730	,,	996·5	947·0	..	33·4	25·3	21·6	24·3	52	..	5·1	..	3·1	0	0	14	0	0	0	4	0	3	6	1	17	0
Titlagarh	0830	211	1003·9	980·8	..	32·3	25·1	21·7	25·9	53	..	2·3	..	3·0	0	0	30	1	22	1	5	0	0	0	1	1	0
	1730	,,	999·1	976·4	..	36·6	26·0	21·0	24·9	43	..	3·4	..	2·8	0	0	29	2	20	0	5	1	1	0	0	2	0
Bhubaneswar	0230	46	1002·0	996·8	..	27·9	25·9	25·2	32·1	85	..	4·5	..	14·1	0	9	17	0	0	0	0	4	15	6	1	5	0
	0530	,,	1002·7	997·5	..	27·9	25·6	24·6	30·9	86	..	5·7	.	10·9	0	6	19	0	1	1	0	5	16	2	0	6	0
	0830	,,	1004·3	999·1	+0·1	31·5	26·9	25·1	31·9	69	+1	3·9	−0·4	15·6	0	8	23	1	1	0	0	2	21	6	0	0	0
	1130	,,	1003·3	998·3	..	35·8	27·1	23·5	28·9	51	..	3·5	..	15·3	0	6	23	2	0	1	0	1	17	6	1	2	1
	1730	,,	1000·5	995·3	..	32·7	26·1	23·3	28·6	58	..	5·4	..	27·2	1	15	15	1	0	2	1	6	20	1	0	0	0
	2330	,,	1003·1	997·9	..	28·6	26·0	24·9	31·5	80	..	4·6	..	17·5	0	10	20	1	0	5	1	1	19	2	1	1	0
Puri	0830	6	1004·6	1003·9	−0·5	30·1	27·6	26·6	34·8	82	+1	4·7	+0·9	19·7	0	10	21	1	0	0	0	0	30	0	0	0	0
	1730	,,	1001·4	1000·7	..	29·8	27·8	27·0	35·7	84	..	6·6	..	27·9	0	25	6	2	1	0	0	1	26	1	0	0	0
Gopalpur	0530	17	1002·8	1000·9	..	27·8	26·7	26·2	34·0	92	..	5·5	..	18·0	0	17	9	1	1	0	0	10	14	0	0	5	0
	0830	,,	1004·5	1002·6	−0·5	29·9	27·3	26·1	35·0	81	+2	4·1	+1·7	16·2	0	12	16	1	1	0	0	13	13	0	0	3	0
	1130	,,	1003·8	1001·9	..	31·6	28·4	27·2	36·1	78	..	3·1	..	23·1	0	21	9	1	0	1	0	15	13	0	0	1	0
	1730	,,	1001·3	999·4	..	29·6	27·8	27·0	35·7	87	..	5·3	..	25·2	0	22	9	0	0	1	3	11	13	3	0	0	0
	2330	,,	1003·3	1001·4	..	28·2	26·9	26·4	34·4	90	..	4·8	..	23·1	0	19	10	2	0	2	1	11	12	0	1	2	0
Koraput	0830	913	1488·6	907·4	+0·1	27·6	21·1	17·7	20·2	56	−7	2·6	−0·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1474·7	905·7	..	29·9	20·1	14·4	16·4	41	..	4·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1002·8	986·3	−1·6	31·4	24·8	21·7	25·9	58	−4	2·1	−0·6	6·8	0	0	29	1	6	2	10	2	6	2	0	2	0
	1730	,,	998·8	982·7	..	34·7	24·4	19·0	22·0	43	..	3·5	..	8·4	0	0	29	1	4	4	11	0	4	5	0	2	0
Daltonganj	0830	221	1002·0	978·0	−1·1	34·8	24·1	18·7	21·6	39	−1	2·2	+0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	997·9	974·3	..	38·1	25·0	18·3	21·0	32	..	2·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1001·9	936·7	−0·2	32·5	21·5	15·7	17·8	38	−7	2·8	+0·4	10·9	0	1	28	1	1	0	2	3	10	4	8	2	0
	1730	,,	997·4	933·0	..	35·0	21·1	13·1	15·1	28	..	3·3	..	11·1	0	2	27	5	0	3	0	4	0	0	17	2	0
Dhanbad	0830	257	1002·4	974·4	..	31·8	24·7	21·1	25·0	56	..	2·5	..	6·9	0	0	31	2	0	6	6	5	0	9	3	0	0
	1730	,,	998·3	970·6	..	35·4	24·4	18·7	21·7	41	..	3·5	..	9·8	0	3	28	5	1	13	3	1	0	5	3	0	0
Ranchi	0830	655	1000·9	931·0	−1·7	31·2	22·7	18·5	21·3	49	+2	2·6	+0·4	1·3	0	0	10	0	0	5	0	1	1	3	0	21	0
	1730	,,	998·3	929·1	..	33·1	22·0	16·1	18·3	38	..	3·8	..	0·6	0	0	6	0	0	0	0	1	1	2	2	25	0
Ranchi Aerodrome (R)	0530	652	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamshedpur	0830	129	1003·1	988·9	−0·4	31·9	24·9	21·7	25·9	54	−4	2·9	+0·1	6.0	0	0	28	0	1	6	1	0	5	11	4	3	0
	1730	,,	998·1	984·1	..	35·3	24·6	19·2	22·2	42	..	5·3	..	8·0	0	1	24	1	3	11	4	1	1	4	0	6	0
Jamshedpur (P.B.O.)	0530	142	1001·9	986·2	..	27·7	23·7	21·9	26·3	70	..	4·4	..	3·8	0	0	25	0	5	5	3	1	3	6	2	6	0
	0830	,,	1000·8	987·5	..	32·3	24·5	20·9	24·7	51	..	3·5	..	5·6	0	0	27	0	0	3	3	7	8	4	2	4	0
	1130	,,	1001·6	986·3	..	37·3	24·7	18·3	21·0	33	..	2·7	..	7·6	0	0	30	0	3	1	4	2	10	5	5	1	0
	1730	,,	998·4	983·0	..	35·6	23·9	17·8	20·4	39	..	6·1	..	10·9	0	1	28	2	7	5	2	2	6	2	3	2	0
	2330	,,	1001·7	986·1	..	29·9	23·8	20·7	24·4	60	..	3·4	..	5·9	0	0	25	1	11	4	3	0	1	2	3	6	0
Chaibasa	0830	226	1002·7	978·0	−0·9	32·5	24·0	19·6	22·8	45	−14	2·9	+0·4	5·7	0	1	25	0	4	0	4	0	14	0	4	5	0
	1730	,,	998·7	974·3	..	35·3	23·3	16·5	18·8	36	..	5·3	..	8·9	0	2	27	1	10	0	6	0	7	0	5	2	0
Bihar Plains																											
Motihari	0830	66	1003·6	996·0	−0·8	29·7	24·7	22·4	27·1	65	+2	0·5	−1·3	3·5	0	0	16	0	0	15	1	0	0	0	0	15	0
	1730	,,	998·1	990·8	..	35·3	27·1	23·6	29·1	51	..	0·2	..	2·0	0	0	8	0	1	4	0	0	0	3	0	23	0
Forbesganj	0830	61	1003·8	997·0	..	29·7	24·5	22·0	26·4	65	..	2·9	..	7·5	0	0	31	0	0	23	8	0	0	0	0	0	0
	1730	,,	998·7	992·1	..	34·1	25·4	21·2	25·2	48	..	2·1	..	4·9	0	0	31	0	5	19	4	0	0	3	0	0	0
Darbhanga (R)	0830	49	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chapra	0830	..	..	..	..	32·2	24·0	19·8	23·1	49	..	0·7	..	2·5	0	0	14	0	1	10	1	0	0	1	1	17	0
	1730	..	..	..	..	37·8	23·8	15·9	18·1	30	..	0·7	..	0·3	0	0	3	0	0	2	0	0	0	1	0	2	0

(R) Register not received.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains —*Contd.*																											
Purnea	0830	38	1003·8	999·7	—1·4	29·2	24·8	22·8	27·7	67	—5	2·7	—0·7	4·5	0	0	29	0	1	25	2	0	1	0	0	2	0
	1730	"	999·1	994·9	..	33·3	26·1	22·9	27·9	55	..	1·9	..	3·1	0	0	17	1	2	12	1	0	0	1	0	14	0
Patna	0830	53	1002·8	996·9	—1·2	31·2	24·1	20·7	24·4	55	—3	1·3	—0·5	7·8	0	0	29	1	15	6	0	1	1	4	1	2	0
	1730	"	997·8	990·1	..	38·4	24·6	17·3	19·7	30	..	1·3	..	5·3	0	0	28	4	13	2	0	0	0	8	1	3	0
Patna (Aerodrome)	0530	60	1000·8	994·0	..	27·0	22·2	19·6	22·8	66	..	1·3	..	6·3	0	0	20	0	5	11	1	0	0	2	1	11	0
	0830	"	1002·3	995·7	..	32·0	23·9	19·7	22·9	51	..	1·2	..	11·9	0	2	27	2	6	11	5	1	2	0	2	2	0
	1130	"	1001·6	995·0	..	36·7	24·4	17·9	20·5	36	..	1·1	..	16·3	0	6	25	2	7	9	2	0	0	3	7	0	1
	1730	"	997·4	990·8	..	38·4	23·6	15·0	17·0	27	..	0·9	..	11·0	0	2	26	1	9	6	0	0	0	1	11	3	0
	2330	52	1000·6	994·9	..	31·1	22·6	18·4	21·1	49	..	0·7	..	9·5	0	6	13	0	2	12	4	0	0	0	1	12	0
Bhagalpur	0530	49	1002·2	996·7	..	26·5	23·7	22·3	26·9	79	..	2·9	..	6·9	0	0	26	0	3	16	3	1	1	2	0	5	0
	0830	"	1003·6	998·2	—0·2	31·4	25·2	22·2	26·7	59	—1	2·5	—0·2	7·6	0	1	26	1	0	13	7	3	2	0	1	4	0
	1130	"	1002·7	997·3	..	35·6	25·6	20·8	24·6	44	..	2·2	..	10·0	0	2	26	1	4	13	3	0	0	3	4	3	0
	1730	"	998.6	993·2	..	35·7	24·9	19·5	22·7	40	..	2·6	..	9·7	0	3	26	3	2	13	4	2	0	2	3	2	0
	2330	"	1001·9	996·4	..	29·3	22.2	21·4	25·5	62	..	1·5	..	8·1	0	0	27	0	0	13	8	3	3	0	0	4	0
Sabaur	0830	37	1003·1	999·0	—1·0	30·9	25·5	23·1	28·3	62	—2	2·2	—1·6	8·4	0	1	22	0	1	16	3	0	1	1	1	8	0
	1730	"	998·3	994·3	..	35·4	26·0	21.7	25.9	44	..	2·5	..	8·5	0	1	23	1	4	11	3	0	0	0	5	7	0
Jammu	0830	82	1002·9	993·5	..	33·3	25·3	21·5	25·6	51	..	1·2	..	3·3	0	0	25	0	1	15	4	0	0	5	0	6	0
	1730	"	997.4	988·2	..	37·9	25·8	20·0	23·4	37	..	1·5	..	4·4	0	0	27	4	1	5	1	0	0	7	9	4	0
Dehri	0830	107	1003·5	991·7	..	34·0	23·0	16·8	19·1	38	..	2·1	..	3·9	0	0	31	1	4	3	6	7	1	6	3	0	0
	1730	"	999·7	988·2	..	39·4	23·0	12·7	14·7	22	..	2·6	..	3·8	0	0	31	4	2	4	1	1	0	15	4	0	0
Gaya	0230	116	1000·5	987·5	..	29·8	22·5	18·7	21·6	54	..	1·3	..	8·1	0	4	18	1	3	5	10	0	1	0	2	9	0
	0530	"	1001·1	988·1	..	28·1	22·0	18·7	21·6	57	..	1·9	..	6·0	0	1	22	0	1	6	5	3	5	3	0	8	0
	0830	"	1002·5	989·8	—0·5	35·2	24·7	19.6	22·8	43	+7	1·9	+0·3	11·9	0	5	22	0	1	6	5	2	3	5	5	4	0
	1130	"	1001·6	989·0	..	39·5	25·5	18·1	20·8	29	..	2·6	..	14·3	0	7	24	5	3	3	1	2	1	9	6	0	1
	1730	"	997.6	985·1	..	39·9	25·5	18·4	21·1	29	..	2·9	.	14·3	0	9	20	5	3	3	0	0	0	3	15	2	0
	2330	"	1000·9	988·0	..	32·1	23·3	18·8	21·7	47	..	1·9	..	9·2	1	3	16	0	3	7	4	2	1	2	1	11	0
Uttar Pradesh (East)																											
Kheri	0830	147	1002·5	986·1	—0·2	29·7	22·6	18·6	21·6	52	+5	0.9	—0·2	3·1	0	0	25	1	2	7	2	1	0	11	1	6	0
	1730	"	997·5	981·6	..	38·2	24.5	16·6	19·4	30	..	0·7	..	3·3	0	0	26	0	3	2	1	0	2	18	0	5	0
Bahraich	0830	124	1002·9	989·1	—0·5	31·3	22·2	16·7	19·4	43	—8	1·5	+0·3	7·3	0	0	26	0	0	19	1	0	0	5	1	5	0
	1730	"	998.3	984·9	..	37·1	22·3	12·1	15·0	24	..	1·4	..	4·6	0	0	28	3	0	4	0	1	1	18	1	3	0
Nautanwa	0830	99	1003·3	992·3	..	30·9	22·9	18·0	21·1	48	..	0·5	..	8·7	0	0	31	3	1	12	13	0	0	1	1	0	0
	1730	"	998·2	987·4	..	38·3	22·6	12·5	14·7	23	..	(a) 0.3	..	9·1	0	0	31	3	1	3	3	0	5	11	5	0	0
Hardol	0830	142	1002·4	986·6	+0·4	31·4	22·4	17·2	19·7	44	+1	1.3	+0·2	8·1	0	0	30	6	0	8	1	2	1	8	4	1	0
	1730	"	997·6	982·4	..	39·4	24·3	15.4	18·1	26	..	0·8	..	8·7	0	1	26	12	0	0	1	0	0	8	6	4	0
Gonda	0830	110	1002·7	990·6	..	32·1	23·3	18·2	21·3	47	0	0·7	—0·8	..	..	..	..	4	0	19	1	0	0	0	5	2	0
	1730	"	997·4	985·6	..	39·1	23·3	12.3	15·7	24	..	0·6	..	..	..	..	..	3	0	4	0	0	0	3	12	9	0
Lucknow	0830	111	..	..	..	31·3	22·3	16·9	19·3	43	+3	1·3	+0·1	3·1	0	0	28	1	3	4	1	2	3	10	4	3	0
	1730	"	..	..	..	39·0	23·4	13·7	15·7	23	..	0·7	..	3·7	0	0	28	0	2	2	0	1	2	16	5	3	0
Lucknow (Amausi)	0230	128	999·7	985·5	..	27·7	20·4	15·8	17·9	48	..	1·0	..	9·3	0	6	13	2	1	5	1	1	1	6	2	12	0
	0530	"	1000·7	986·7	..	26·1	19·9	15·8	7·9	54	..	2·5	..	9·2	0	4	19	1	3	5	1	0	7	3	3	8	0
	0830	"	1002·4	288·3	—0·8	32·3	22·1	15·8	17·9	39	+3	1·8	+0·6	17·2	0	9	20	4	6	4	1	1	4	5	4	2	0
	1130	"	1001·7	987·8	..	37·6	23·0	14·0	16·0	27	..	1·0	..	18·5	0	12	17	3	3	5	2	1	0	6	9	2	0
	1730	"	997.4	983·7	..	39·3	22·7	11·7	13·7	20	..	1·3	..	17·4	0	13	15	2	1	3	0	1	0	7	14	3	0
	2330	"	1000·1	985·9	..	30·2	20·9	14·8	16·8	41	..	0·5	..	8·9	0	4	15	0	1	2	4	0	4	5	3	12	0
Faizabad	0830	102	1003·2	991·9	..	30·5	22·7	18·4	21·0	50	..	1·4	..	6·2	0	0	29	1	2	4	12	0	2	6	2	2	0
	1730	"	997·6	986·6	..	37·7	23.8	15·4	18·1	29	..	1·2	..	5·2	0	0	26	4	1	2	1	0	0	13	5	5	0
Gorakhpur	0830	77	1003·4	994·8	—0·6	32·8	24·2	19·2	22·5	47	—11	1·0	—0·4	..	0	0	31	0	4	12	6	0	3	2	3	0	1
	1730	"	997·3	988·8	..	39·0	24·1	15·2	17·7	26	..	0·1	..	..	0	0	30	1	0	0	1	5	6	6	7	1	4
Gorakhpur (P.B.O.)	0230	78	1000·0	991·3	..	29·2	22·2	18·7	21·8	55	..	0·8	..	6·1	0	0	26	1	8	7	3	0	1	6	0	5	0
	0530	"	1000·8	992·3	..	27·2	21.7	18·8	21·8	62	..	1·2	..	5·7	0	0	27	2	16	5	0	0	1	3	0	4	0
	1130	"	1002·0	993·4	..	35·6	24·2	19·4	22·2	40	..	1·3	..	9·5	0	1	30	0	3	4	5	9	3	6	1	0	0
	2330	"	1000·3	991·7	..	31·0	22·6	18·5	21·8	50	..	0·8	..	5·6	0	0	25	0	7	8	0	2	1	6	1	6	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 26 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variab
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Kanpur	0830	126	1003·2	989·3	+0·2	33·0	23·6	18·3	21·0	43	+6	2·5	+1·8	8·6	0	0	31	4	3	3	3	1	4	8	5	0	0
	1730	,,	998·6	985·1	..	40·5	25·7	17·7	20·2	28	..	2·2	..	9·0	0	1	30	4	1	0	0	1	0	13	12	0	0
Kanpur (Aerodrome)	0530	126	1000·9	986·6	..	28·3	20·2	14·9	17·1	46	..	1·9	..	7.4	0	1	26	0	3	4	1	1	2	9	7	4	0
	0830	,,	1002·6	988·6	..	33·3	22·3	15·2	17·9	36	..	1·9	..	14.1	0	4	27	2	4	6	1	1	3	9	5	0	0
	1130	,,	1001·9	983·2	..	38·7	23·5	13·9	16·5	25	..	1·1	..	16.0	0	5	26	3	5	4	3	1	0	6	9	0	0
	1730	,,	998·0	984·2	..	40·0	23·2	12·2	14·7	21	..	1·3	..	13.7	0	4	26	4	1	1	1	0	0	6	17	1	0
	2330	,,	1000·6	986·5	..	32·0	21·4	14·7	16·8	37	..	1·0	..	5·4	0	0	18	0	1	5	3	0	1	3	5	13	0
Sultanpur	0830	97	1003·2	992·5	..	32·7	23·1	17·4	20·1	42	..	1·2	..	3·9	0	0	26	0	2	10	0	0	6	3	5	5	0
	1730	,,	997·6	987·2	..	40·1	23·5	12·5	13·5	21	..	0·9	..	3·9	0	0	26	1	3	1	0	1	1	5	14	5	0
Azamgarh	0830	78	1002·1	993·4	..	32·7	26·0	22·6	27·3	58	..	1·1	..	..	0	0	31	1	3	14	0	0	0	13	0	0	0
	1730	,,	997·4	989·2	..	40·0	27·0	20·8	24·6	39	..	0·3	..	..	0	0	30	2	0	4	0	0	0	21	3	1	0
Fatehpur	0830	114	1002·2	989·6	..	33·9	22·2	15·4	17·3	34	—10	1·3	0	7·5	0	0	27	1	4	3	2	1	3	5	8	4	0
	1730	,,	997·5	985·2	..	40·6	22·9	10·9	13·4	17	..	1·4	..	9·1	0	0	29	3	4	0	1	0	1	3	17	2	0
Ballia	0830	64	1002·8	995·7	..	31·5	24·5	20 6	25·0	53	..	0·4	..	4·3	0	0	29	0	5	10	3	0	0	8	3	2	0
	1730	,,	998·4	991·4	..	39·7	27·1	21·2	25·5	36	..	0·5	..	3·4	0	0	31	2	7	5	0	0	0	9	8	0	0
Banda	0830	121	1002·3	989·1	..	35 0	25·0	20·4	23·5	41	..	2·4	..	4·2	0	0	26	0	5	0	1	1	7	3	9	5	0
	1730	,,	998·1	985·2	..	41·3	26·6	19·3	22·7	29	..	2·7	..	5·1	0	0	31	0	3	0	1	0	7	1	19	0	0
Allahabad (Bamhrauli)	0230	98	999·9	989·0	..	29·8	21·1	15·5	17·6	43	..	1 2	..	2.1	0	0	8	2	1	1	0	0	1	3	0	23	0
	0530	,,	1000·7	989·8	..	28·3	20·3	15·1	17·1	46	..	2·9	..	3·5	0	0	13	1	1	2	2	1	0	6	0	18	0
	0830	,,	1002.4	991·7	—1·0	34·1	22·5	15·3	17 4	34	—2	2·4	+1·0	7·5	0	1	28	5	4	3	0	4	1	11	1	2	0
	1130	,,	1001·8	991·2	..	39·9	23·4	12·9	14·9	22	..	2 0	..	10·4	0	1	30	5	1	4	0	2	1	11	7	0	0
	1730	,,	997·5	987·0	..	40·7	23·0	11·1	13·2	18	..	1·9	..	11·3	0	3	26	8	1	0	1	2	0	3	14	2	0
	2330	,,	1000 4	989·6	..	31·9	21·6	15·1	17·1	37	..	1 2	..	2·6	0	0	15	1	0	4	1	1	2	4	2	16	0
Varanasi (Babatpur)	0530	85	1001·7	992·0	..	27·6	20·7	16 1	18·3	49	..	2 1	..	8·3	0	0	30	0	2	5	4	6	6	5	2	1	0
	0830	,,	1003·1	993·6	+0·5	33·8	23·2	17·0	19·4	39	+1	1·7	+0·3	14·4	0	3	27	0	1	7	5	1	5	7	4	1	0
	1130	,,	1002·5	993·1	..	38·7	24·1	15·7	17·8	27	..	1 6	..	16 4	0	6	25	2	3	5	2	0	3	8	8	0	0
	1730	,,	998·1	989·1	..	40·3	23·6	12·9	14·9	21	..	2·0	..	18·6	0	11	20	2	2	2	1	0	2	4	18	0	0
	2330	,,	1001·2	991·6	..	31·4	21 5	15·2	17·3	39	..	1·7	..	10·1	0	4	26	1	1	6	5	5	2	6	4	1	0
Varanasi	0830	76	1002·3	993·9	—1·0	33·7	24·0	18·2	20·9	43	—2	1·5	+0·1	4.2	0	0	30	1	3	5	4	1	0	15	1	1	0
	1730	,,	998·0	989·8	..	39·7	24 6	15·2	17·3	26	..	1·6	..	4.0	0	0	29	0	3	2	3	1	1	16	3	2	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	1002·7	927·4	..	21·9	15·4	10·5	12·8	49	..	1·7	..	1.5	0	0	14	6	3	0	1	0	0	4	0	17	0
	0830	,,	1002·6	929·0	—0·1	27·8	18·3	11·9	14·1	38	—6	1·6	—0·3	0.9	0	0	9	5	1	0	0	1	0	2	0	22	0
	1130	,,	1001·4	929·0	..	33·3	19·3	9·3	12·1	24	..	1 7	..	5·1	0	0	29	1	3	0	2	1	12	8	2	2	0
	1730	,,	997·5	925·6	..	34·3	19·4	8 9	11·5	22	..	1 7	..	4·8	0	2	18	4	1	0	0	0	6	6	3	11	0
	2330	,,	1001·4	927·2	..	25·6	16·9	10·7	12·9	40	..	0 7	..	2·8	0	0	21	10	6	0	0	0	1	3	1	10	0
Roorkee	0830	274	1002·7	972·4	—0·5	29·5	20·1	13·8	15·9	40	+1	2·5	+1·2	1·5	0	0	16	0	0	0	2	0	0	0	14	15	0
	1730	,,	999·0	969·7	..	37·9	22·5	12·3	15·6	23	..	2·8	..	2·5	0	0	26	0	0	0	1	0	1	0	24	5	0
Najibabad	0830	270	1002·8	973·1	..	30·2	20·5	14 1	16·2	39	..	0·9	..	3·1	0	0	15	0	2	1	7	0	1	0	4	16	0
	1730	,,	998·3	969·5	..	38·4	22·4	11·6	14·0	21	..	1·1	..	5 8	0	0	28	0	1	2	2	0	12	1	10	3	0
Meerut	0830	222	1003·6	979·0	+0·6	30·7	22·6	17·9	20 8	48	+8	0 2	—1·0	7·3	0	0	29	4	4	7	1	0	3	5	5	2	0
Bareilly	0830	173	1002·3	983 3	—0·6	32·0	22·4	16·9	19·3	41	—5	0·8	—0·6	4·3	0	0	22	2	0	8	2	0	1	7	2	9	0
	1730	,,	997·4	978·7	..	37·7	23·6	14·9	17·5	28	..	1·3	..	4.1	0	2	16	0	0	3	0	0	0	8	7	13	0
Bareilly (P.B.O.)	0230	172	999·8	980·7	..	28·5	19·2	13·6	15·6	41	..	0·8	..	5·4	0	0	28	2	2	5	1	1	1	8	8	3	0
	0530	,,	1000·8	981·6	..	26·9	18·6	13·8	15·8	46	..	2·0	..	5·5	0	2	25	1	2	4	4	0	0	8	8	4	0
	1130	,,	1001·7	982·9	..	36·1	22·2	14·4	16·4	29	..	0·9	..	10.2	0	1	28	2	2	6	4	0	0	3	10	2	0
	2330	,,	1000·1	981·1	..	30·4	20·0	13·9	15·9	39	..	0·8	..	4.8	0	0	21	1	1	5	1	0	1	8	4	10	0
Aligarh	0830	187	1002·6	982·3	..	32·2	23·0	17·9	20·5	43	+12	1·8	+1·1	3·8	0	0	29	4	0	9	0	1	0	11	4	2	0
	1730	,,	998·1	978·0	..	39·0	25·4	18·3	21·0	31	..	2·5	..	5·3	0	0	29	12	0	1	0	1	0	10	5	2	0
Mainpuri	0830	157	1002·5	985·2	—0·3	33·0	21·6	14·1	16.1	33	—4	0·9	—0.5	2·2	0	0	24	0	6	2	0	2	3	11	0	7	0
	1730	,,	998·0	981.2	..	39·9	22·9	11·5	13·6	19	..	0·4	..	2·8	0	0	29	1	1	2	0	1	4	17	3	2	0
Agra	0830	169	1002·8	984·3	—0·2	32·4	22·8	17·2	19·6	42	+15	1·2	+0·1	0·8	0	0	7	0	1	0	0	0	3	1	2	24	0
	1730	,,	998·0	980·0	..	39·7	25·1	16·7	19·0	28	..	1·2	..	6·2	0	3	19	0	1	0	0	0	3	2	16	9	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry point	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West) —*Contd.*																											
Agra (Aerodrome)	0530	169	1001·4	982·3	..	26·7	19.6	14·8	17·0	49	..	3·0	..	8·7	0	1	26	4	1	1	3	2	6	6	4	4	0
	0830	,,	1002·8	983·9	..	31·7	21.7	15·6	17·8	39	..	2 4	..	9·3	0	1	28	4	2	4	0	1	5	7	6	2	0
	1130	,,	1002·4	983·9	..	38·0	23.1	14·1	16·1	25	..	1·4	..	14·7	0	8	22	7	2	3	0	0	2	1	15	1	0
	1730	,,	998·4	980·1	..	39·2	22.6	11·3	13·8	20	..	2·7	..	17·9	0	6	25	4	2	1	0	0	1	4	19	0	0
	2330	,,	1000·8	981·9	..	30·7	21.1	15·2	17·3	40	.	1·7	..	8·1	0	2	20	6	5	3	0	1	2	3	2	9	0
Orai	0830	141	1004·7	989·2	..	34.7	24.6	19·4	22·5	42	..	2·0	..	5.1	0	0	29	0	4	0	2	1	5	2	15	2	0
	1730	,,	999·7	984·6	..	40·7	26.7	19·7	23·4	32	..	1·2	..	7.1	0	0	31	2	7	0	2	0	4	0	16	0	0
Jhansi	0830	251	1002·8	975·4	−0·7	32·9	20.8	12·1	14·7	29	−1	1·9	+0.7	1.5	0	0	16	6	0	2	0	0	0	8	0	15	0
	1730	,,	998·0	971·4	..	39·9	21.9	8·3	11·3	16	..	4·1	..	3.2	0	0	27	10	0	0	0	1	1	10	5	4	0
Punjab (India) Including Delhi																											
Pathankot	0830	312	1002·6	968.4	+1·0	30·1	18.8	10·0	12·5	30	+5	2·2	−0·3	6.9	0	1	29	0	14	8	2	1	1	2	2	1	0
	1130	,,	1002·2	968·4	..	35·1	19.9	8·1	10·8	10	..	2·7	..	8·0	0	1	29	2	2	2	4	6	8	2	4	1	0
	1730	,,	998·8	965·3	..	36·5	19·8	5·7	9·5	16	..	3·2	..	15·2	0	6	25	4	5	0	0	1	6	9	6	0	0
Amritsar (Rajasansi)	0530	234	1001·9	975·4	..	22·1	17·3	14·3	16 3	62	..	1·6	..	5·5	0	0	21	1	6	3	2	3	1	2	3	10	0
	0830	,,	1002·8	976·9	+0.9	29·3	20·1	14·0	16·0	41	+2	1 6	−0·1	8·8	0	4	18	4	4	6	1	1	1	2	3	9	0
	1130	,,	1002·7	977.3	..	35·1	21·3	11·7	13·7	26	..	1·6	..	11·2	1	2	24	4	4	6	2	2	1	2	6	4	0
	1730	,,	998·9	973·7	..	37·1	21·3	9·8	12·1	20	..	(a) 1·2	..	11·5	1	2	22	3	1	1	2	0	2	7	9	6	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Ludhiana	0830	247	1002·9	975·6	+0·2	30.8	20·6	13·9	15 9	36	−2	1·4	+0·2	5·8	0	0	27	3	6	2	5	4	1	1	5	4	0
	1730	,,	998.1	971·7	..	37·9	22·0	10·9	13·0	20	..	2·0	..	5·5	0	0	30	4	3	2	2	0	0	9	10	1	0
Ferozepur	0830	200	1002·4	980·2	..	28·8	21·3	16·8	19·3	49	..	0·8	..	0·9	0	0	10	0	4	0	2	0	2	0	2	21	0
	1730	,,	998·6	977·1	..	37·2	23·2	14.5	16·9	27	..	1·7	..	2·5	0	0	20	2	4	0	1	0	2	0	11	11	0
Halwara (Aerodrome)	0830	242	1003.1	976·4	..	30·3	21·9	16·5	19·3	45	..	1·8	..	13·3	0	4	27	2	3	2	5	1	2	4	12	0	0
	1730	,,	1000·1	924.1	..	37.5	24·6	17·3	20·2	32	..	2·5	..	20·6	0	16	14	1	0	2	3	0	1	4	19	1	0
Chandigarh	0830	347	1001·8	964·0	+0·7	31·0	20·7	13·0	16·1	33	+1	0·8	0	..	0	0	14	1	0	0	4	0	0	0	9	17	0
	1730	,,	997·9	961·0	..	36·2	21.5	11·3	10·1	23	.	2·3	..	..	0	0	27	0	0	1	4	2	2	2	16	4	0
Ambala	0830	272	1002.4	972·5	−0·2	30·7	20·5	13·9	15·9	38	+7	0·5	−0·8	2·2	0	0	20	0	4	0	9	0	0	1	6	11	0
	1730	,,	997.7	968·8	..	38.6	22·2	12.3	14·3	24	..	0·9	..	3.5	0	0	27	0	6	0	8	0	1	0	12	4	0
Ambala (P.B.O.)	0230	278	1000·2	969·5	..	28·3	18·4	12·4	14·2	38	..	1·1	..	..	..	..	..	2	4	1	2	2	0	3	8	9	0
	0530	,,	1000·9	969·9	..	25·8	17·5	12.4	14·2	44	..	1·7	..	..	..	..	...	4	3	3	2	1	0	2	7	9	0
	1130	,,	1001.8	971·7	..	35·5	21·0	13·3	14·8	27	..	1·6	..	..	..	..	..	3	4	2	7	1	0	4	8	2	0
	2330	,,	1000·2	969·7	..	30·4	19·0	12·4	14·0	34	..	1·5	..	..	..	..	..	7	3	0	3	1	0	4	9	4	0
Ambala (Aerodrome)	0530	274	1001·1	970·2	..	23·3	17·3	12·6	14·6	51	..	1·9	.	5·4	0	2	13	1	0	2	2	0	1	4	5	16	0
	0830	,,	1002·0	971·8	..	30·1	20·2	13·3	15·3	37	..	1.6	..	10·6	0	4	23	3	2	4	7	0	1	2	8	4	0
	1130	,,	1001·6	972·0	..	36·0	21·6	11·5	13·6	24	..	(a) 2.0	..	17.6	0	17	11	2	1	4	6	1	0	4	10	3	0
	1730	,,	997·8	968·4	..	37·4	21·3	9·2	11·6	19	..	2·8	..	20.4	0	18	10	0	1	0	2	2	1	6	16	3	0
	2330	,,	1000·3	970·0	..	28·6	18.8	11.4	13·5	36	..	1·6	..	9.0	0	4	15	1	1	3	1	0	0	1	12	12	0
Patiala	0830	251	1003.0	975·4	..	31·0	21.0	14·3	16·7	37	..	1.5	..	5.3	0	0	20	2	0	0	6	0	0	0	12	11	0
	1730	,,	998·5	971·6	..	37·2	22·0	11·8	14.0	23	..	2·6	..	9·0	0	0	27	0	0	1	3	1	0	0	22	4	0
Bhatinda	0830	211	1002·6	979·3	..	32·1	26.1	23·2	28·4	62	..	1·1	..	5·1	0	0	29	1	4	1	5	0	8	2	8	2	0
	1730	,,	998.6	975.9	..	37·6	29·0	25·6	33·0	54	..	1·3	..	4·1	0	0	29	3	1	0	2	2	5	2	14	2	0
Karnal	0830	249	1002·3	974·9	..	30·8	20·1	12·8	14·6	35	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	998·7	971.9	..	37·1	24·0	15·6	19·3	32	..	0.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1001.6	976.8	..	24·7	19·3	15·2	17·3	57	..	(a) 1.2	..	3·8	0	0	25	2	4	2	3	1	0	1	2	6	0
	0830	,,	1003·4	978.6	+0·1	29·8	21.6	16·6	18.9	46	+10	1·0	0	5·6	0	0	30	5	1	1	6	4	4	9	0	1	0
	1130	,,	1002·5	978·6	..	36.5	23·4	15·9	18.1	30	..	1·2	..	6·6	0	0	29	2	2	3	4	3	3	7	5	2	0
	1730	,,	998·7	974.9	..	37.2	23·3	14·9	16·9	29	..	2·9	..	6·7	0	0	29	5	2	2	1	3	3	9	4	2	0
	2330	,,	1001.1	976.8	..	28.6	20.5	15·3	17.4	45	..	1·5	..	4·3	0	0	19	1	3	2	2	2	2	4	3	12	0
New Delhi (Safdarjung)	02330	216	1000·5	976.4	..	28.4	19·9	14·1	16.1	43	..	1·7	..	7.5	0	1	20	2	1	1	2	2	0	7	6	10	0
	0530	,,	1001·3	977·1	..	26.9	19·3	13.9	15.9	47	..	2.4	..	6.5	0	0	22	0	1	2	1	1	3	6	8	9	0
	0830	,,	1002.9	979·0	−0·1	30.9	21·4	15.4	17.5	41	+11	(a) 1.4	−−	14.0	0	6	23	3	3	1	2	1	1	9	9	2	0
	1130	,,	1002·3	978·9	..	36.2	23·0	14.9	16.9	29	..	1·7	..	14.3	0	6	21	4	2	1	2	1	0	2	15	4	0
	1730	,,	998·3	975·0	..	38.2	22·9	12.9	14.9	24	..	1·8	..	13·2	0	5	25	3	2	2	0	2	2	4	15	1	0
	2330	,,	1000·8	976·9	..	30.3	20·9	14.7	16.7	41	..	1·6	..	6·3	0	1	16	1	1	2	0	0	0	4	9	14	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) —*Contd.*																											
Palam (Aerodrome)	0230	233	1000·6	974·8	..	27·6	19·9	14·7	16·9	47	..	1·6	..	8·6	0	2	21	2	1	3	4	2	5	5	1	8	0
	0530	,,	1001·4	975·6	..	25·8	19·0	14·2	16·4	51	..	2·5	..	9·0	0	1	27	1	3	4	0	5	8	2	5	3	0
	0830	,,	1002·8	977·2	..	31·2	21·3	15·0	17·3	40	..	1·4	..	15·5	0	7	24	3	2	2	2	0	8	9	5	0	0
	1130	,,	1002·2	977·0	..	36·6	23·0	14·2	16·9	27	..	1·8	..	19·6	0	10	21	5	1	1	4	0	2	10	8	0	0
	1430	,,	1000·0	975·0	..	39·3	23·3	13·1	15·5	23	..	2·5	..	18·9	0	14	17	1	3	1	0	3	2	5	16	0	0
	1730	,,	998·1	973·2	..	39·9	22·9	12·1	14·0	22	..	1·7	..	18·2	0	8	23	2	2	1	0	2	4	9	11	0	0
	2030	,,	999·6	974·3	..	33·2	21·	14·5	16·5	34	..	2·0	..	10.6	0	4	25	2	4	3	1	1	5	6	7	2	0
	2330	,,	1000·6	975·0	..	30·1	20·6	13·9	16·5	40	..	1·7	..	7·9	0	1	25	2	4	2	2	4	7	2	3	5	0
Himachal Pradesh																											
Mandi	0830	761	1004·3	921·1	+0·4	23·1	17·7	14·4	16·4	59	+8	1.6	−0·5	0·3	0	0	3	1	0	0	0	1	0	1	0	28	0
	1730	,,	998·5	918·1	..	31·3	20·5	13·6	15·6	38	..	4·0	..	1·0	0	0	8	1	0	0	0	0	0	0	7	23	0
Bilaspur	0830	493	1003·6	949·8	..	28·4	20·0	15·4	17·3	46	..	1·3	..	..	0	0	3	1	0	1	0	0	0	1	0	28	0
	1730	,,	998·5	946·3	..	35·2	22·1	14·3	16·7	31	..	2·8	..	..	0	0	9	1	0	1	1	1	0	2	1	22	2
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3103·0	666·0	..	4·9	+0·3	−6·9	3·5	43	..	(a) 2·8	..	7·7	0	0	27	12	14	0	0	0	1	0	0	4	0
	0830	,,	3102·3	666·6	−0·7	9·5	3·1	−5·4	3·9	36	−2	(b) 3·1	..	5·9	0	0	25	1	0	1	0	11	12	0	0	6	0
	1730	,,	3061·2	663·8	..	13·7	4·9	−7·0	3·3	22	..	4·3	..	10·2	0	2	28	3	4	1	0	4	7	7	4	1	0
Srinagar	0830	1587	1491·1	840·6	+0·4	15·4	12·3	10.1	12·8	73	−5	3·7	+0·8	1·8	0	0	14	0	1	0	7	1	1	1	3	17	0
	1130	,,	1487·9	840·4	..	19·9	14·2	10·9	12·3	55	..	3·4	..	1·8	0	0	15	0	1	1	2	3	1	4	1	16	2
	1730	,,	1463·1	838·1	..	22·1	14·4	8·9	11·4	46	..	4·5	..	4·7	0	0	22	1	3	0	4	1	1	3	8	9	1
Srinagar (Aerodrome)	0530	1666	1474·8	831.4	..	11·4	9·4	7·7	10·5	79	..	3·4	..	5·1	0	0	21	0	0	3	4	8	2	2	2	10	0
	0830	,,	1483.3	832·5	..	15·6	12·1	9·3	11·7	67	..	3·4	..	4·0	0	0	20	4	1	7	1	3	1	2	1	11	0
	1130	,,	1480·0	832·5	..	19·5	13·7	9·6	11·9	54	..	3·3	..	5·0	0	0	22	5	3	4	2	1	0	0	7	9	0
	1730	,,	1457·5	830·5	..	20·8	13·4	7·7	10·5	47	..	4·3	..	8·8	0	3	20	2	0	2	3	3	0	4	9	8	0
	2330	,,	1473·6	831·5	..	14·5	11·4	8·9	11·4	71	..	2·4	..	2·5	0	0	11	2	2	3	2	0	1	0	1	20	0
Gulmarg (R)	0830	2655																									
(R)	1730	,,																									
ammu	0830	..	..	..	..	30·0	19.8	12·9	14·8	37	+3	2·5	+0·7	8·3	0	0	30	7	18	0	1	1	0	2	1	1	0
Jammu (Aerodrome)	0530	292	1001·4	986·6	..	25·7	16·7	9·3	11·7	37	..	2·3	..	8·0	0	3	20	1	17	2	0	0	1	1	1	8	0
	0830	,,	1002.6	970·3	..	29·5	18·8	10·8	12·9	33	..	2·5	..	8.5	0	2	25	1	17	4	1	1	0	1	2	4	0
	1130	,,	1002·3	970·5	..	34·5	20·0	8·8	11·3	22	..	3·0	..	10·0	0	2	29	0	9	1	5	2	4	6	4	0	0
	1730	,,	998·7	967·3	..	36·2	19·8	6·0	9·3	18	..	3·4	..	14·6	0	7	24	1	4	0	0	1	0	16	9	0	0
Rajasthan (West)	2330	,,	1001·2	968·7	..	28·9	18·4	10·2	12.4	32	..	2·1	..	11·9	0	7	17	1	12	0	0	0	1	8	2	7	0
Ganganagar	0530	177	1001·4	981·5	..	25·5	18·6	13·5	15·8	50	..	1·9	..	3·7	0	0	22	2	4	3	5	2	4	1	1	9	0
	0830	,,	1002·5	982·8	+0·7	29·9	20·4	14·1	16·3	40	+9	1·4	+1·0	4·0	0	0	27	3	3	2	5	4	8	1	1	4	0
	1130	,,	1002.3	983·1	..	36·9	22·5	13.2	15·5	26	..	2·9	..	7·5	0	0	31	2	5	2	3	2	8	5	4	0	0
	1730	,,	998·5	979·5	..	38·1	22·3	11·6	13·9	23	..	2·9	..	6·5	0	1	28	3	8	4	1	0	2	4	7	2	0
	2330	,,	1001·1	981·5	..	28·7	20·0	13·9	16·3	42	..	1·0	..	5·1	0	1	25	4	7	4	2	1	2	1	5	5	0
Churu	0830	291	1003·4	971·2	..	30·7	21·3	15·2	17·0	41	..	1·6	..	11·9	0	5	25	3	0	6	2	4	3	10	2	1	0
	1730	,,	998·9	967·7	..	37·9	22·8	12·7	15·3	25	..	(a) 3·3	..	16·6	0	6	25	8	1	2	0	0	2	14	4	0	0
Bikaner	0830	224	1002·9	978·1	−0·2	30.4	20·8	14·7	16·7	39	+7	0·3	−0·6	9·3	0	0	29	0	4	2	4	1	9	6	3	2	0
	1730	,,	998.5	974·3	..	39·3	21·9	8·5	11·1	19	..	1.2	..	8·1	0	0	31	2	5	0	3	0	9	3	9	0	0
Bikaner (P.B.O.)	0530	224	1001·2	976·2	..	27·6	22·9	20·5	24·1	67	..	0·8	.	4·8	0	0	22	0	3	1	2	4	8	4	0	9	0
	1130	,,	1002·2	978·2	..	37·6	28·3	23·9	30·7	49	..	1·2	..	8·1	0	0	30	1	4	2	0	2	11	9	1	1	0
	2330	,,	1001·0	976·3	..	31·6	25·0	21·7	26·3	57	..	1·3	..	6·1	0	0	24	2	2	3	4	2	9	1	1	7	0
Nagpur	0830	298	1001·9	969·2	..	32·2	22·1	16·2	18·3	40	..	1·1	..	9·2	0	1	30	1	2	2	1	6	11	6	2	0	0
	1730	,,	997·1	965·5	..	39·5	22·9	12·2	14.2	22	..	3·0	..	12·3	0	5	26	4	1	1	0	5	10	4	6	0	0
Phalodi	0830	234	1003·3	977·5	..	30·7	24·1	20·3	24·4	56	..	1·3	..	21·7	0	16	14	2	1	0	1	5	14	6	1	1	0
	1730	,,	999·4	974·4	..	40·4	26·5	20·6	24·1	35	..	3·3	..	17·6	0	9	22	0	0	0	2	8	9	8	4	0	0
Jaisalmer	0830	242	1002·5	975·8	..	29·4	23·5	20·4	24·3	62	..	0·8	..	22·5	0	16	14	0	1	0	0	14	14	1	0	1	0
	1730	,,	997·7	971·9	..	40·6	22·9	12·3	13·2	20	..	1·7	..	21·5	0	15	14	2	0	0	0	12	11	2	2	2	0
Jodhpur	0230	224	1001·7	977·0	..	30·6	20·3	12·9	14·9	36	..	1·5	..	9.5	0	3	24	2	2	1	1	1	7	10	3	4	0
	0530	,,	1002·1	977·2	..	28·8	20·1	13.7	15·7	42	..	2·1	..	7·4	0	0	25	0	0	0	0	4	10	9	2	6	

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —*Contd.*																											
Jodhpur—*Contd.*	0830	224	1003·9	979·1	+0·9	30·8	21·8	16·2	18·4	43	+1	1·6	+0·6	11·2	0	2	27	0	1	0	0	2	19	6	1	2	0
	1130	,,	1003·3	979·0	..	36·8	22·9	14·0	16.5	27	..	0·6	..	13·1	0	3	28	1	0	0	0	1	12	13	4	0	0
	1730	,,	998·7	974·8	..	40·2	22·4	10·0	12·3	17	..	2·3	..	15·3	0	4	26	1	1	0	0	1	17	6	4	1	0
	2330	,,	1001·7	977·1	..	33·4	20·9	12·1	14·1	29	..	1·8	..	11·7	0	4	23	0	5	1	0	0	11	10	0	4	0
Barmer . . .	0530	194	1001·6	979·6	..	28·5	22·7	19.5	22·7	60	..	1·3	..	9·2	0	2	21	0	1	0	0	1	8	12	1	8	0
	0830	,,	1003·2	981·6	—0·6	29·7	23·7	20.6	24·3	60	—1	1·0	+0·3	7.7	0	0	29	0	0	0	0	2	20	4	3	2	0
	1130	,,	1002·7	981·6	..	36·3	23·7	16·4	18·6	32	..	0·7	..	7.9	0	0	28	0	0	0	0	1	21	2	4	3	0
	1730	,,	998·3	977·5	..	40·4	23·5	13·0	15·0	20	..	2·0	..	9·5	0	0	30	0	1	0	1	0	21	5	2	1	0
	2330	,,	1001·3	980·3	..	33·9	23·4	17·4	19·9	39	..	1·1	..	12.6	0	3	28	0	0	0	1	0	13	13	4	0	0
Munabao . .	830	80	..	..	..	28.7	..	..	..	..	..	1.7	..	..	0	8	23	1	0	0	0	3	27	0	0	0	0
	1730	,,	..	..	..	39·7	..	..	..	..	..	1·6	..	..	0	7	23	0	0	0	0	2	26	2	0	1	0
Rajasthan (East)																											
Pilani . . .	0830	301	1003·3	970·3	..	31·5	20·1	11·8	13·8	31	..	0·2	..	14·6	0	6	24	2	3	5	0	1	4	13	2	1	0
	1730	,,	998 8	966·7	..	38·5	21·5	8·4	11·0	17	..	1·7	..	18·4	0	7	24	6	4	1	1	1	0	11	7	0	0
Sikar . . .	0830	433	1003·2	956·2	..	31·7	25·6	22·8	27·9	61	..	2·3	..	3.2	0	0	30	0	0	5	0	1	9	15	0	1	0
	1730	,,	998.3	952·4	..	38·8	28·7	24·1	31·5	49	..	4·2	..	2·9	0	0	28	2	1	0	2	0	8	13	2	3	0
Alwar . . .	0830	271	1001·6	971·9	..	32·1	23·9	19·5	22·7	49	..	2·1	..	2·5	0	0	15	2	2	1	2	1	0	5	2	16	0
	1730	,,	998·2	969·2	..	38.1	25·9	19·6	22·8	39	..	4.5	..	5·8	0	0	27	4	6	5	1	1	2	6	2	4	0
Jajpur (Sanganer) .	0230	390	1000·9	958·1	..	28·3	19·2	12·5	14·5	39	..	1·8	..	..	0	1	21	5	3	0	1	1	1	0	11	9	0
	0530	,,	1001·8	958·6	..	26·6	18·6	12·7	14 7	43	..	1·4	..	..	0	0	28	6	1	5	0	1	1	3	11	3	0
	0830	,,	1002·7	960·4	—1·1	32·1	21·0	13·5	15.5	34	—3	1·5	+0·5	..	0	7	23	1	0	5	3	0	3	4	14	1	0
	1130	,,	1001·9	960·5	..	37·2	22·5	12·9	14·9	24	..	1·1	..	..	0	9	22	1	0	1	1	1	3	10	13	0	1
	1730	,,	997·7	956·3	..	38·4	22·5	11 5	13·6	21	..	3·6	..	14·3	0	9	21	2	2	3	0	1	2	7	13	1	0
	2330	,,	1001·1	958·6	..	30·9	20·3	12·9	14·9	34	..	1·3	..	7·1	0	0	27	5	3	4	1	0	1	5	8	4	0
Dholpur. . .	0830	176	1002·2	982·9	..	33·6	24·1	18·1	21·6	44	.	2·5	..	2·3	0	0	16	1	2	0	1	0	3	3	6	15	0
	1730	,,	998·0	978·8	..	39·7	27·2	20·3	23·8	37	..	3·7	..	2·9	0	0	18	2	0	0	0	0	2	3	11	13	0
Ajmer . . .	0830	486	1003·0	950·4	+1·1	31·0	19·9	12·7	14·7	34	—5	1·5	+0·5	13·1	0	1	30	0	1	0	3	4	10	11	2	0	0
	1730	,,	997·7	946·5	..	37·8	20·3	7·7	10 5	17	..	3·4	..	15.5	0	6	25	0	2	1	1	1	11	13	2	0	0
Tonk . . .	0830	272	1002·0	972·3	..	33·0	21·1	12·4	14 4	28	..	1·9	..	12·3	0	0	28	1	2	2	2	1	5	11	4	3	0
	1730	,,	996·8	967·9	..	39·5	21·6	8 4	11·0	16	..	4·4	..	11·2	0	1	30	2	1	2	1	1	3	12	9	0	0
Kota . . .	0530	257	1001·8	973·4	..	29·8	20·0	13·1	15·1	37	..	2·3	..	3·5	0	0	16	0	1	0	1	0	3	5	6	15	0
	0830	,,	1003·2	975·3	—0·6	35·3	22·0	13.8	15 8	28	—1	1·2	+0·3	4·6	0	0	22	0	0	0	0	0	2	12	8	9	0
	1130	,,	1002·4	975·2	..	39·5	23·0	12·3	14·3	20	..	1·5	..	7·0	0	0	27	0	1	1	2	1	1	7	14	4	0
	1730	,,	998·6	971·2	..	39·1	22·4	11·1	13·2	19	..	3·9	..	4·2	0	0	23	0	2	0	1	0	3	7	10	8	0
	2330	,,	1001·2	973·2	..	33·7	21·1	12·4	14·5	29	..	2·1	..	6·5	0	0	24	1	3	0	0	0	4	7	9	7	0
Erinpura (Jawai Dam)	0830	295	1004.5	971·8	..	30·0	24·8	22·3	26·9	64	..	2·7	..	7·0	0	1	27	0	0	0	4	15	8	1	0	3	0
	1730	,,	999·4	968·0	..	38·1	28·3	23·2	28 4	44	..	2·8	..	13·7	0	7	22	2	0	1	1	0	12	12	1	2	0
Chambal (Rawat Bhata Dam) . .	0830	351	1003·3	965·2		32·6	20·8	12·6	15·0	32	..	1·5	..	4·8	0	0	27	1	0	1	1	2	6	7	9	4	0
	1730	,,	998·5	961·2	..	38·9	21·8	9·0	12·2	18	..	4·6	..	9·2	0	0	30	0	0	0	2	0	6	6	16	1	0
Udaipur . . .	0230	582	1002·4	939·1	..	28·2	19·7	14·4	16 4	44	..	1·0	..	2·7	0	0	13	0	0	0	0	2	4	4	3	18	0
	0530	,,	1003·3	939·5	..	26·7	19·5	15·0	17·0	50	..	1·7	..	1.4	0	0	9	0	0	0	0	2	0	3	4	22	0
	0830	,,	1003·9	941·2	—0·9	31·2	20·9	14·3	16·3	38	—7	1·5	+1·1	3·3	0	0	19	1	0	0	1	3	4	5	5	12	0
	1130	,,	1002·7	941·1	..	36·0	21·7	12·8	14·8	26	..	1·3	..	5·6	0	0	27	1	1	1	4	3	8	3	6	4	0
	1730	,,	999·5	938·0	..	35·5	21·6	13·2	15·2	28	..	3·2	..	6·4	0	1	27	1	1	1	0	3	9	7	6	3	0
	2330	,,	1003·0	940·1	..	29·9	20·3	14·5	16·5	41	..	1·0	..	2·2	0	0	15	0	0	0	0	1	6	5	3	16	0
Jhalawar. . .	0830	321	1003·1	968·1	—0·6	32·1	21·2	13·8	16 3	34	—9	2·1	+1·3	2·9	0	0	25	1	0	2	2	0	6	7	7	6	0
	1730	,,	998·2	964·3	..	40·3	22·6	10·5	12·9	18	..	3·0	..	5·6	0	0	30	3	1	2	0	0	5	11	8	1	0
Madhya Pradesh (West)																											
Gwalior . .	0230	207	1000·4	977·8	..	30·0	19·1	10·8	13·3	32	..	3·3	..	7·8	0	3	23	3	2	0	1	2	14	3	1	5	0
	0530	,,	1001·2	978·3	..	28·9	18·9	11·2	13·7	36	..	2·8	..	6·7	0	3	19	1	0	0	3	3	5	6	4	9	0
	0830	,,	1002·5	979.9	+0·2	34.2	20·5	10·2	12·9	25	+1	1·9	+1·0	9·7	0	4	24	2	3	1	2	1	3	8	8	3	0
	1130	,,	1002·0	979·7	..	38·9	21·4	7·9	11.2	16	..	1·7	..	8·6	0	0	30	4	1	0	1	1	1	7	15	1	0
	1730	,,	997·8	975·7	..	40·0	21·2	6·3	9·8	14	..	3·4	..	10·6	0	2	28	9	1	0	1	1	3	5	10	1	0
	2330	,,	1000·8	978·1	..	31·7	19·7	10·7	13·1	30	..	2·5	..	6·9	0	2	17	1	1	0	1	3	3	7	3	12	0
Sheopur . . .	0830	235	1003·1	977·5	+0 5	33·7	22·4	15·4	17·8	35	+7	1·7	+0·5	8·7	0	1	28	1	3	1	1	3	6	7	5	2	2
	1730	,,	997·9	972·9	..	39·2	23·5	13·5	16 1	25	..	3·7	..	11·1	0	0	31	3	1	1	2	3	7	8	6	0	0
Shivpuri . . .	0830	464	1002·0	952·0	..	33·0	25·3	21·9	26.4	54	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	997·7	948·9	..	38·1	27·4	23·1	28·4	44	..	4·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Nowgong	0830	229	1002·8	977·9	−0·5	33·5	22·6	15·9	18·5	36	+3	2·7	+0·8	5·4	0	0	29	1	4	0	1	2	10	5	4	2	2
	1730	"	997·7	973·5	..	40·5	23·8	13.2	15·5	22	..	2.8	..	4·9	0	0	30	4	4	0	0	0	7	0	15	1	0
Guna	0530	478	1002·4	949·9	..	26·8	18·0	12·4	14·2	41	..	2·3	..	7·0	0	1	26	1	1	4	3	5	5	4	4	4	0
	0830	"	1002·9	951·5	−0·2	33·4	20·9	13·2	15·6	33	+4	2·1	+1·3	9·0	0	4	27	4	1	4	2	3	0	15	2	0	0
	1130	"	1001·6	951·0	..	38.4	22·1	12.5	14·7	22	..	2 0	..	14.4	0	6	25	2	1	3	1	1	2	9	12	0	0
	1730	"	997·9	947·4	..	38·0	21·4	11·0	13·3	21	..	4·3	..	20·0	1	11	19	3	1	0	0	3	2	7	15	0	0
	2330	"	1001·7	949·9	..	30·7	19·6	12·6	14·7	34	..	2·6	..	8·1	0	2	27	5	1	3	1	4	2	10	3	2	0
Nimach.	0830	496	1004.1	950·4	−0.7	31·1	20.3	13·1	15·9	37	−10	2·8	+2.0	14·0	0	8	21	1	3	1	0	1	6	14	3	2	0
	1730	"	999.3	946·9	..	37·5	20·0	7·0	10·6	17	..	4·1	..	16·8	0	12	19	1	3	0	1	0	11	12	3	0	0
Rajgarh	0830	382	1002·9	961.5	..	32·4	18·9	7.5	10·9	23	..	1·8	..	4·2	0	0	24	4	0	0	0	3	0	7	10	7	0
	1730	"	997·6	957·3	..	39·6	20·7	4·2	9·0	13	..	4·5	..	8·2	0	0	27	4	0	0	0	2	0	9	12	4	0
Sagar	0830	551	1002.7	943·5	−0.7	32·2	20·1	12·3	14·7	31	0	1·7	+0.3	6·7	0	0	27	0	3	4	1	0	3	9	7	4	0
	1730	"	997·4	939·5	..	37·2	20·8	9·7	12·5	21	..	4·2	..	4.3	0	0	24	0	2	3	0	0	0	10	9	7	0
Ratlam	0830	486	1004·3	951·7	−0·3	29·6	22·5	18·8	22·0	52	−6	3·0	+1·0	8·4	0	0	28	1	0	1	0	0	6	18	2	3	0
	1730	"	999·4	948·0	..	38·1	22·8	14·1	16·5	26	..	3·4	..	8·6	0	0	29	0	1	0	0	0	9	16	3	2	0
Bhopal (Bairagarh)	0230	523	1001·7	944·7	..	28·2	18·7	12·1	14·6	39	..	2.7	..	10·2	0	3	26	5	1	1	1	2	5	2	12	2	0
	0530	"	1002·6	945·3	..	26.6	18·2	12·6	14.8	44	..	3·5	..	9·8	0	1	28	2	2	1	0	0	5	9	10	2	0
	0830	"	1003·6	947·1	−0·6	31·9	20·9	14.3	16·7	34	+3	2·7	+1·8	15·9	0	13	17	3	2	1	1	2	3	3	15	1	0
	1130	"	1002·1	946·7	..	37·1	22·2	13·4	15·9	26	..	2·5	..	12·8	0	5	25	8	2	2	1	2	1	2	12	1	0
	1730	"	998.2	942·9	..	37·2	21·6	11·8	14·3	24	..	4·9	..	14·8	0	6	25	7	4	0	0	2	3	6	9	0	0
	2330	"	1002·1	945·5	..	30·2	19·3	12·0	14.4	35	..	3·3	..	10·8	0	2	26	2	0	1	1	0	6	4	14	3	0
Ujjain	0830	..	..	..	..	31·1	21·4	15·8	18·3	42	..	(h) 0·8	..	18.4	0	13	17	2	0	0	0	0	0	14	14	1	0
Hoshangabad	0830	302	1003·9	970·9	−1·0	32·0	24·9	21·6	25·6	54	+22	2·8	+1·6	44.7	0	0	31	2	1	0	2	1	18	4	3	0	0
	1730	"	998·1	966·2	..	39 8	28·7	23·7	30·2	42	..	(a) 4·8	..	(a) 6·1	0	0	29	4	1	2	4	3	6	3	6	1	0
Indore	0530	567	1003·4	941.4	..	26·5	19·2	14·5	16·9	51	..	2·7	..	18.1	0	16	14	2	0	0	0	0	10	14	4	1	0
	0830	"	1004·6	943·1	−0·9	29·9	21·4	16·5	20·3	47	−1	2·4	+1·4	23.2	0	19	12	3	0	0	0	0	3	15	10	0	0
	1130	"	1003·0	942·7	..	35·5	21·8	13·5	15·9	29	..	2·1	..	17·6	0	10	20	3	4	1	0	1	5	6	7	1	3
	1730	"	998·6	938.9	..	37·0	21·3	11·4	13·8	23	..	3 5	..	21·1	0	17	13	1	1	1	1	3	6	10	6	1	1
	2330	"	1002·9	941·6	..	29.5	19·2	12.2	14·7	37	..	2 7	.	15.8	0	9	21	1	1	0	0	0	15	9	4	1	0
Rajpur	0830	293	1006·2	973·8	..	29·7	23·9	20·9	24·7	61	..	3.0	..	16.3	0	10	21	0	0	0	0	0	5	25	1	0	0
	1730	"	1000·2	969·1	..	38.2	23·9	15·3	17·7	28	..	2·0	.	16.7	0	12	19	2	1	0	0	1	6	18	3	0	0
Chhindwara	0830	685	1003·2	929·9	−0·1	31·2	21·6	16·4	18·3	43	+7	3·5	+1·2	11.4	0	2	28	3	0	0	1	3	4	9	10	1	0
	1730	"	997·9	925·9	..	35·1	22·5	15·7	18.1	34	..	6·1	..	8 8	0	1	30	1	5	1	5	1	5	6	7	0	0
Seoni	0830	619	1002·9	936·5	−0.9	31·4	21·7	16·4	18·8	42	+13	5.6	+4·0	5 0	0	0	28	2	1	1	2	2	11	6	3	3	0
	1730	"	998·5	933·1	..	34·8	21·7	13·8	16·4	32	..	6·0	..	4·0	0	0	27	2	3	1	4	1	10	2	4	4	0
Betul	0830	653	1004·2	934·1	+0.1	30·4	20·1	13·5	16.0	38	0	3·8	+1·2	9·3	0	0	31	1	2	0	1	4	4	13	6	0	0
	1730	"	998·2	929.6	..	35.9	20·7	10.4	13.4	24	..	5.7	..	6·8	0	0	31	3	5	1	4	2	2	4	10	0	0
Khandwa	0830	318	1004·7	969.9	−0·8	32·2	22·7	16·8	19·9	41	+1	4·3	+3·2	6.4	0	1	30	1	0	0	0	0	3	15	12	0	0
	1730	"	998·7	964·6	..	39.5	23·1	12.7	14·8	21	..	4·5	..	6.8	0	2	29	3	0	0	1	1	8	10	8	0	0
Madhya Pradesh (East)																											
Satna	0530	317	1001·7	966.6	..	27.7	18·7	12.0	14.2	39	..	3·0	..	2·8	0	0	10	0	0	2	0	2	8	6	2	11	0
	0830	"	1002·1	967·6	−0·8	34·1	20·8	11·2	13·7	26	−4	2·9	+1·3	4.3	0	0	29	1	1	1	0	4	5	15	2	2	0
	1130	"	1001·0	967·3	..	39·3	21·5	7·8	11·1	16	..	2·0	..	6.7	0	1	30	0	1	1	1	1	7	8	12	0	0
	1730	"	997.3	963·8	..	39.0	21 3	7·8	10.9	16	..	3·2	..	8.0	0	0	31	3	2	1	1	2	3	5	14	0	0
	2330	"	1000.8	966·2	..	31.4	19 9	11.7	14·1	31	..	1.0	..	3·4	0	0	20	2	3	0	3	2	2	2	6	11	0
Sidhi	0830	272	1002·1	972·5	..	33·4	21 6	14.0	16.2	32	..	1.4	..	1·7	0	0	14	1	0	0	0	2	5	2	4	17	0
	1730	"	996·6	967·6	..	38.4	21·9	10·2	12·6	21	..	3·1	..	3·2	0	0	27	7	1	1	2	0	3	5	8	4	0
Umaria	0830	459	1002·3	953.0	..	34.2	24·4	19·7	23·4	44	+18	3·3	+1·3	5·8	0	0	29	0	3	1	4	1	10	9	1	2	0
	1730	"	997·1	948.7	..	38·1	25·2	19·4	22·7	35	..	4·4	..	5·6	0	1	29	8	3	1	0	1	2	9	6	1	0
Jabalpur	0530	393	1002·0	958.8	..	27·8	19·8	14·3	16·6	45	..	4·1	..	3.8	0	0	26	0	0	2	9	6	6	3	0	5	0
	0830	"	1002·7	960·3	−0·7	33.5	21·6	13·6	16·1	32	+3	2·8	+1·6	5·3	0	0	29	0	0	0	7	9	4	9	0	2	0
	1130	"	1001·3	959.7	..	39·2	22.9	12·3	14 6	21	..	2·2	..	6·6	0	0	31	0	3	1	3	4	6	8	6	0	0
	1730	"	997·3	955·8	..	38·8	22·4	11·1	13·7	21	..	4.7	..	7.3	0	0	31	2	3	3	1	3	5	6	8	0	0
	2330	"	1001·1	958·4	..	30·9	20·9	14·3	16·6	38	..	3·6	..	5·7	0	0	25	1	5	3	6	4	4	2	0	6	0
Ambikapur	0830	611	1003·0	937·5	+0·2	31·5	21·0	15·1	17·1	38	+2	3 2	+2·0	3·7	0	0	27	2	3	1	2	2	9	7	1	4	0
	1730	"	997·3	933·1	..	36·5	21·7	12.8	15·1	26	..	3.3	..	5·3	0	0	31	15	4	1	0	2	2	1	6	0	0

(a) Mean of 30 days. (h) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	2
Madhya Pradesh (East)—*Contd.*																											
Pendra	0530	625	1002·1	934·3	..	27·1	18·5	12·8	15·1	43	..	5·7	..	6·4	0	0	29	2	0	0	0	8	7	8	4	2	
	0830	"	1002·9	935·9	−0·6	31·2	20·4	14·0	16·1	37	+4	4·9	+3·0	6·5	0	0	30	1	1	1	2	6	11	5	3	1	
	1130	"	1001·2	935·4	..	36·1	20·8	11·0	13·4	23	..	5·0	..	8·6	0	0	31	7	1	2	2	5	4	7	3	0	
	1730	"	997·9	932·0	..	34·9	20·5	10·8	13·6	27	..	6·5	..	7·2	0	1	30	7	0	0	0	4	6	6	8	0	
	2330	"	1001·7	934·3	..	29·1	19·2	12·9	15·1	39	..	5·1	..	6·0	0	0	29	1	0	0	2	5	5	11	5	2	
Mandla	0830	443	1003·2	955·3	0	31·7	21·9	15·1	18·1	38	+3	3·3	+0·8	3·6	0	0	17	4	1	0	1	8	1	1	1	14	
	1730	"	997·7	950·7	..	36·6	21·9	11·6	14·0	24	..	5·3	..	6·3	0	0	23	7	0	1	0	5	0	2	8	8	
Champa	0830	245	1003·5	976·7	+0·2	33·3	23·2	17·7	20·2	42	+6	4·5	+1·9	3·6	0	0	30	6	1	3	3	1	6	5	5	1	
	1730	"	997·8	971·7	..	39·8	24·2	15·3	17·4	25	..	5·2	..	8·2	0	2	27	8	1	1	4	0	2	2	11	2	
Raigarh	0830	220	1003·0	979·0	0	33·6	23·6	18·0	20·9	41	0	4·5	+1·6	4·9	0	0	29	1	7	0	6	3	3	5	4	2	
	1730	"	997·4	973·9	..	39·4	23·1	12·3	15·0	22	..	5·1	..	3·6	0	0	23	4	8	0	3	0	5	1	2	8	
Raipur	0530	298	1002·2	969·5	..	29·6	23·0	19·3	22·8	55	..	6·2	..	5·5	0	0	26	0	0	1	0	9	7	6	3	5	
	0830	"	1003·6	971·1	−0·1	33·2	24·5	20·0	23·5	47	+14	4·7	+2·6	8·1	0	1	28	1	0	0	0	1	8	15	4	2	
	1130	"	1002·2	970·3	..	37·8	25·3	18·8	22·0	35	..	4·2	..	7·9	0	0	31	2	0	1	0	2	7	13	6	0	
	1730	"	998·0	966·3	..	38·5	25·2	18·0	21·0	32	..	5·7	..	9·5	0	3	26	9	3	0	0	3	5	8	1	2	
	2330	"	1001·7	969·2	..	32·1	23·3	18·4	21·5	46	..	4·4	..	8·3	0	1	25	0	1	1	1	8	9	4	2	5	
Kanker	0830	402	1003·7	960·3	+0·3	32·1	24·9	21·4	25·6	55	+15	4·5	+1·4	3·3	0	0	23	0	1	0	1	1	15	0	5	8	
	1730	"	998·4	955·8	..	37·0	26·0	20·5	24·6	40	..	4·2	..	4·0	0	0	28	2	2	0	2	3	9	1	9	3	
Jagdalpur	0530	553	1003·6	942·9	..	25·0	22·0	20·5	24·3	76	..	5·4	..	0·8	0	0	7	0	0	0	0	3	3	0	1	24	
	0830	"	1004·6	944·7	−0·1	28·9	22·9	20·0	23·5	59	+4	4·1	+1·4	2·6	0	0	20	0	0	0	1	7	10	2	0	11	
	1130	"	1002·7	943·8	..	33·9	23·7	18·8	21·8	42	..	2·9	..	3·7	0	0	25	1	0	0	0	4	12	3	5	6	
	1730	"	999·7	940·8	..	32·8	23·5	19·0	22·1	46	..	6·6	..	4·5	0	0	26	0	1	2	4	5	10	1	3	5	
	2330	"	1003·6	943·3	..	26·9	22·1	19·7	23·1	66	..	5·4	..	2·1	0	0	13	1	1	0	3	7	1	0	0	18	
Gujarat Region																											
Deesa	0830	136	1005·6	990·3	−0·8	29·3	23·9	21·2	25·2	63	..	2·2	..	2·8	0	0	21	0	0	0	2	3	6	5	5	10	
	1730	"	999·8	985·2	..	40·0	23·8	13·8	15·8	22	..	1·7	..	3·4	0	0	29	0	0	0	0	2	10	12	5	2	
Radhanpur	0830	30	1005·5	1002·2	..	29·2	25·0	23·1	28·3	70	..	2·4	..	11·3	0	3	28	2	0	0	0	2	11	8	8	0	
	1730	"	1000·7	997·5	..	40·1	23·9	13·9	15·9	23	..	2·0	..	12·2	0	3	28	3	0	0	0	1	7	15	5	0	
Idar	0830	219	1005·0	980·6	..	29·6	22·2	17·7	20·2	52	..	1·3	..	5·2	0	0	25	0	1	0	0	1	5	16	2	6	
	1730	"	1000·0	976·6	..	39·2	22·0	9·7	12·0	18	..	1·3	..	9·9	0	0	31	1	0	0	0	0	5	20	5	0	
Ahmadabad	0230	55	1003·6	997·4	..	29·8	22·9	19·3	22·4	54	..	1·2	..	11·6	0	2	25	0	0	0	0	1	2	19	5	4	
	0530	"	1004·2	997·9	..	27·6	23·4	21·2	25·2	69	..	2·1	..	9·0	0	1	25	0	0	0	0	0	6	15	5	5	
	0830	"	1006·0	999·8	−1·2	29·4	24·2	21·6	25·8	64	−6	2·6	+1·0	14·6	0	5	26	0	0	0	0	1	4	18	8	0	
	1130	"	1005·7	999·6	..	35·4	24·4	18·4	21·1	38	..	1·1	..	13·5	0	4	26	1	0	0	0	0	9	14	6	1	
	1730	"	1000·6	994·6	..	40·3	23·4	12·4	14·4	20	..	2·2	..	15·1	0	4	26	1	0	0	0	1	6	17	5	1	
	2330	"	1004·0	997·8	..	32·2	22·9	17·0	19·4	43	..	1·5	..	12·6	0	3	25	0	0	0	0	3	2	20	3	3	
Dohad	0830	333	1005·1	968·5	−0·8	30·0	22·1	17·3	19·7	49	−9	2·3	+0·6	20·7	0	12	19	0	0	0	0	0	8	21	2	0	
	1730	"	999·5	964·2	..	39·1	21·8	9·1	11·5	17	..	1·6	..	19·8	0	14	17	1	0	0	0	1	10	17	2	0	
Baroda (Aerodrome)	0830	38	1006·3	1002·3	..	30·1	24·3	21·3	25·3	61	..	2·9	..	9·0	0	0	30	0	0	0	0	9	11	5	5	1	
	1130	"	1005·7	1001·6	..	35·7	24·8	19·1	22·1	39	..	1·8	..	8·1	0	0	27	1	0	0	0	8	11	3	4	4	
	1730	"	1000·9	996·9	..	39·3	24·8	16·7	19·0	28	..	1·7	..	10·7	0	4	27	0	0	0	0	2	11	7	8	3	
Baroda*	0530	34	1004·7	1000·7	..	28·1	23·4	20·9	24·7	66	..	1·5	..	(a) 3·0	0	0	19	0	0	0	0	1	12	6	1	11	
	0830	"	1006·6	1002·7	−0·2	30·5	24·4	21·2	25·2	58	−7	2·6	+0·9	(c) 5·0	0	0	26	0	0	0	1	0	14	13	1	2	
	1130	"	1006·1	1002·3	..	36·5	24·7	18·4	21·1	36	..	1·5	..	(c) 6·2	0	0	28	0	1	0	0	1	12	14	3	0	
	1730	"	1001·3	997·5	..	39·9	24·9	16·3	18·5	26	..	0·7	..	(c) 6·4	0	0	26	1	0	0	0	0	10	14	4	2	
	2330	"	1004·8	1000·9	..	31·0	24·8	21·6	25·8	59	..	1·2	..	(c) 8·2	0	0	27	0	0	0	0	3	18	9	0	1	
Broach	0830	17	1006·2	1004·2	−0·3	28·9	24·9	23·1	28·3	71	0	2·5	+0·6	6·4	0	0	31	0	0	0	0	4	21	2	4	0	
	1730	"	1001·7	999·8	..	38·0	24·2	16·1	18·3	30	..	2·0	..	13·5	0	4	27	0	0	0	0	2	20	4	5	0	
Surat	0530	12	1005·6	1004·2	..	27·4	25·4	24·5	30·7	84	..	1·7	..	1·7	0	0	13	1	0	0	1	8	2	1	0	18	
	0830	"	1007·0	1005·6	−0·9	30·1	25·7	23·7	29·3	69	+3	3·3	+0·3	6·1	0	0	30	1	1	0	0	6	13	5	4	1	
	1130	"	1006·8	1005·5	..	34·2	25·9	21·8	26·1	50	..	2·8	..	3·6	0	0	24	1	1	0	0	3	9	6	4	7	
	1730	"	1003·3	1002·0	..	33·8	26·2	22·6	27·4	52	..	1·3	..	12·0	0	1	30	0	0	0	1	5	23	1	1	0	
	2330	"	1005·7	1004·3	..	29·8	26·2	24·9	31·5	73	..	0·9	..	5·2	0	0	28	0	1	0	1	10	15	1	0	3	
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1005·1	999·8	..	28·7	26·9	26·1	33·8	86	..	1·1	..	23·0	0	21	10	2	0	0	0	2	7	17	3	0	
	1730	"	1001·3	996·1	..	38·2	..	..	..	..	..	0·8	..	31·0	0	23	8	0	0	0	2	2	11	15	1	0	
Naliya	0830	21	1005·6	1003·2	..	28·4	25·7	24·6	30·9	80	..	3·6	..	19·1	0	14	17	0	0	0	0	0	20	10	1	0	
	1730	"	1003·0	1000·6	..	30·7	25·5	23·9	29·7	65	..	2·2	..	22·9	0	22	9	0	0	0	0	1	24	6	0	0	
Bhuj (Rudramata)	0230	80	1004·0	995·0	..	26·4	24·8	24·1	30·0	87	..	0·9	..	17·2	0	15	15	0	0	0	0	0	5	21	4	1	
	0530	"	1004·0	994·9	..	25·8	24·7	24·2	30·2	91	..	1·6	..	15·1	0	9	20	0	0	0	0	0	6	19	4	2	

(a) Mean of 30 days. (c) Mean of 28 days. *Wind speed for 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																												
Bhuj (Rudramata)—*Contd.*	0830	80	1005.4	996.4	—0.6	28.5	25.2	23.8	29.5	76	+15	1.4	+0.4	18.5	0	15	16	0	0	0	0	0	6	18	7	0	0
	1130	,,	1005.2	996.3	..	35.1	25.7	21.1	25.0	45	..	0.6	..	22.2	0	20	11	1	0	0	0	0	5	18	7	0	0
	1730	,,	1001 8	993.2	..	36.4	25.8	20.8	24.6	41	..	1.0	..	26.6	0	26	5	0	0	0	0	0	4	22	5	0	0
	2330	,,	1004.8	995.7	..	27.7	25.1	23.9	29.7	80	..	0.5	..	19.7	0	18	13	0	0	0	0	0	6	24	1	0	0
Kandla Aerodrome	0830	35	1005.7	1001.8	..	29.2	24.8	22.7	27.6	68	..	1.7	..	19.8	0	14	17	0	0	0	0	0	7	23	1	0	0
	1130	,,	1005.3	1001.5	..	35.3	25.5	20.6	24.3	44	..	0.9	..	19.6	0	13	17	0	0	0	0	0	12	17	1	1	0
New Kandla	†1730	,,																									
	0830	14	1006.6	1005.0	..	28.5	25.2	23.6	29.1	75	..	2.2	..	23.4	0	18	13	0	0	0	0	0	12	17	2	0	0
	1730	,,	1003.3	1001.7	..	33.0	26.8	24.1	30.0	60	..	1.2	..	40.6	0	31	0	0	0	0	0	0	21	10	0	0	0
Mandvi	0830	9	1006.2	1005.1	+0.2	28.7	26.9	26.1	33.8	87	+3	4.4	+2.0	21.9	0	21	10	0	0	0	0	1	23	1	5	0	1
	1730	,,	1003.7	1002.6	..	30.2	28.3	27.5	36.7	86	..	3.6	..	26.0	0	29	2	0	0	0	0	0	28	1	0	0	2
Surendranagar	0830	74	1006.2	997.9	+0.2	29.4	26.1	24.7	31.1	77	+10	2.2	+0.5	17.4	0	9	22	0	0	0	0	1	10	13	7	0	0
	1730	,,	1000.8	992.8	..	39 8	27.0	21.2	25.2	34	..	2.6	..	18.5	0	10	21	0	0	0	0	0	7	15	9	0	0
Jamnagar (Aerodrome)	0530	23	1004.5	1001.9	..	26.2	24.6	23.9	29.7	87	..	2.3	.	15.3	0	3	28	0	0	0	0	0	13	16	2	0	0
	0830	,,	1006.1	1003.6	—0.6	29.0	25.7	24.3	30.4	76	+10	3.4	+1.8	22.7	0	23	8	0	0	0	0	0	8	21	2	0	0
	1130	,,	1006.1	1003.6	..	33.7	26.5	23 4	28.8	55	..	0.9	..	25.6	0	25	6	0	0	0	0	0	3	26	2	0	0
	1730	,,	1003.0	1000.5	..	32.7	26 4	23.6	29.1	59	..	1.0	.	38.7	0	31	0	0	0	0	0	0	0	29	2	0	0
	2330	,,	1005.5	1002.9	..	27.8	25 2	24.1	30.0	81	..	1.3	..	24.4	0	26	5	0	0	0	0	0	6	24	1	0	0
Dwarka	0830	11	1006.4	1005.1	—0.8	28.0	26.8	26.3	34.2	90	+7	2.5	+0.2	18.1	0	8	23	1	0	0	0	0	6	17	7	0	0
	1730	,,	1004.4	1003.1	..	29.9	28.2	27.5	36.7	87	..	2.0	..	21.8	0	18	13	0	0	0	0	0	4	25	2	0	0
Rajkot	0830	138	1006.2	990.8	—0.1	27.9	25.7	24.7	31.1	82	+11	1.7	+0.2	23.6	0	23	8	0	0	0	1	0	14	15	1	0	0
	1130	,,	1005.6	990.5	..	34 6	26 8	23.4	28.9	53	..	0.8	..	22.9	0	20	11	0	0	0	0	0	9	20	2	0	0
	1730	,,	1001.5	986.6	..	37.7	26 2	20.6	24.3	38	..	0.7	..	33.3	0	28	3	0	0	0	0	0	5	24	2	0	0
Bhaunagar (Aerodrome)	0830	11	1006.7	1005.5	..	30.0	24.3	21.5	25 6	61	..	1.9	..	14.3	0	3	26	0	0	0	0	1	5	15	8	2	0
	1130	,,	1006.4	1005.2	..	35.2	24 5	18.9	21.8	39	..	1.1	..	15.5	0	3	27	3	2	2	4	1	8	5	5	1	0
	1730	,,	1001.7	1000.5	..	37.3	25.6	19.5	22.7	37	..	2.4	..	34.0	0	26	5	0	0	3	7	14	7	0	0	0	0
Bhaunagar	0830	17	1006.9	1005.0	—0.6	30.3	24.6	21.7	25 9	62	+1	1.6	—0.2	8.2	0	2	29	2	0	1	0	1	8	11	8	0	0
	1730	,,	1001.7	999.0	..	38.0	25.7	19.5	22.7	35	..	2.5	..	16.9	0	9	22	0	0	2	4	16	8	0	1	0	0
Porbander (Aerodrome)	0830	7	1006.7	1005.9	..	29.0	26.5	25.5	32.6	81	..	2.9	..	17.3	0	6	24	1	0	0	0	2	11	8	8	1	0
	1130	,,	1007.1	1006.3	..	31.1	27.5	26.0	33.6	75	..	1.7	..	23.0	0	22	9	0	0	0	0	0	14	16	1	0	0
	1730	,,	1004.2	1003.4	..	30.6	27.7	26.5	34.6	79	..	1.4	..	27.6	0	28	3	0	0	0	0	0	8	22	1	0	0
Porbandar	0830	7	1006.9	1006.1	+0.3	28.2	26.1	25.3	32.2	84	+3	4.1	+1.1	10.2	0	0	31	3	0	1	0	2	3	14	8	0	0
	1730	,,	1004.5	1003.7	..	30.5	27.3	26.0	33.6	77	..	3.9	..	18.7	0	5	26	0	0	0	0	0	8	19	4	0	0
Keshod	0830	51	1007.2	1001.4	..	28.3	25.2	23.8	29.5	77	..	2.8	..	18.0	0	22	9	3	0	0	0	2	9	10	5	0	2
	1130	,,	1007.0	1001.3	..	33.4	25.0	20.9	24.7	49	..	1.2	..	22.4	0	18	13	0	0	0	0	0	9	16	6	0	0
	1730	,,	1004.0	998.3	..	33.4	25.1	21.0	24.9	49	..	1.0	..	35.1	0	31	0	0	0	0	0	0	9	22	0	0	0
Mahuva	0830	9	1006.7	1005.7	..	29.9	24.3	21.5	25.8	62	..	3.1	..	8.6	0	0	30	3	1	1	0	4	10	7	4	1	0
	1730	,,	1003.2	1002.2	..	31.8	26.0	23.3	28.8	62	..	2.8	..	18.1	0	10	21	0	0	0	0	12	19	0	0	0	0
Veraval	0230	8	1005.2	1004.3	..	26.5	25.7	25.3	32.2	93	..	1.7	..	13.0	0	4	26	3	0	0	0	0	2	10	15	1	0
	0530	,,	1005.2	1004.3	..	26.2	25.5	25.1	31.9	94	..	3.1	..	11.0	0	2	25	4	0	0	0	0	2	10	11	4	0
	0830	,,	1007.0	1006.1	—1.1	28.0	26.4	25.8	33.2	88	+6	3.4	+1.0	10.8	0	2	26	3	0	0	0	0	4	11	10	3	0
	1130	,,	1007.5	1006.6	..	29.9	27.5	26 6	34.8	83	..	2.6	..	12.8	0	6	24	0	0	0	0	0	8	16	6	1	0
	1730	,,	1004.3	1003.4	..	29.5	27.6	26.9	35.4	86	..	2.1	..	18.5	0	12	19	0	0	0	0	0	2	23	6	0	0
	2330	,,	1006.3	1005.4	..	27.2	26.4	26.0	33.6	93	..	2.1	..	14.5	0	6	24	1	0	0	0	0	3	10	16	1	0
Konkan																											
Dahanu	0830	5	1007.2	1006.7	—0.1	29.7	25.8	24.2	30.2	72	—6	6.3	+2.0	10.0	0	3	26	1	0	1	4	1	9	9	4	2	0
	1730	,,	1003.9	1003.4	..	31.0	26.3	24.3	30.4	68	..	4.1	..	22.3	0	21	10	1	0	0	0	0	5	23	2	0	0
Bombay (Santa Cruz)	0230	15	1005.7	1004.1	..	27.4	25 1	24 1	30.0	82	..	3.4	..	4.3	0	0	18	1	1	0	0	0	3	6	7	13	0
	0530	,,	1005.8	1004.1	..	26.9	24.8	23.9	29.7	84	..	4.1	..	2.8	0	0	12	1	2	1	0	0	1	2	5	19	0
	0830	,,	1007.5	1005.9	—1.4	29.5	25.7	24.0	29.8	73	+1	5.4	+2.1	6.9	0	0	24	2	3	2	0	1	1	5	10	7	0
	1130	,,	1007.4	1005.8	..	31.8	26.3	23.9	29.7	63	..	4.5	..	15 8	0	2	29	1	0	0	0	0	1	17	12	0	0
	1730	,,	1004.2	1002.6	..	30.3	25.9	23.9	29.7	69	..	4.3	..	19.7	0	18	13	1	0	1	0	0	1	12	16	0	0
	2330	,,	1006.8	1005.2	..	28.1	25.4	24.1	30.0	79	..	3.6	..	8.5	0	0	26	2	0	0	0	0	7	8	9	5	0
Bombay	0830	11	1007.7	1006.5	—1.2	29.6	26.2	24.7	31 1	75	+1	5.4	+2.1	3.6	0	0	25	3	0	2	3	2	2	4	9	6	0
	1130	,,	1007.6	1006.4	..	32.0	26.8	24.7	31.1	65	..	3.8	..	9.0	0	1	28	1	0	0	0	0	4	13	10	2	1
	1730	,,	1004.3	1003.1	..	31.2	26.5	24.4	30.5	67	..	3.7	..	11.9	0	1	30	0	1	0	0	0	3	13	14	0	0
Alibag	0830	7	1007.5	1006.7	—1.0	28.9	26.0	24.7	31.1	79	+7	4.8	+1.3	3.7	0	0	18	5	2	1	2	0	3	2	3	13	0
Harnai	0830	20	1007.5	1005.2	—0.3	28.6	26.1	25.0	31.7	81	+3	5.7	+1.7	12.1	0	5	24	10	0	1	3	1	2	5	7	2	0
	1730	,,	1004.4	1002.1	..	29.2	26.9	26.0	33.7	83	..	5.6	..	30.3	0	23	8	1	0	0	0	1	1	13	15	0	0
Ratnagiri	0830	34	1007.5	1003.7	—1.3	28.4	25.7	24.4	30.5	80	..	5.4	..	(o) 6.6	0	0	15	0	4	1	6	1	0	6	2	1	0
	1730	,,	1004.5	1000.7	..	30.3	26.4	24.7	31.1	72	..	5.2	..	(n) 13.9	0	3	14	1	1	0	0	0	3	4	8	0	0

(o) Mean of 16 days.

(n) Mean of 17 days.

† Data not available

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—*contd.*																											
Devgarh	0830	36	1007.3	1003.3	—0.9	28.0	25.6	24.5	30.7	81	+4	5.1	+0.4	10.8	0	4	27	4	6	3	3	0	1	1	13	0	0
	1730	,,	1004.4	1000.4	..	29.8	26.6	25.3	32.2	77	..	5.1	..	25.1	1	18	12	0	1	0	1	0	3	5	21	0	0
Vengurla	0230	,,	1005.9	1004.9	..	26.6	24.9	24.2	30.2	87	..	3.8	..	2.0	0	0	8	4	0	0	0	0	0	2	2	23	0
	0530	,,	1005.9	1004.9	..	26.0	24.6	24.0	29.8	89	..	4.8	.	3.1	0	0	14	4	4	1	1	2	0	1	1	17	0
	0830	,,	1007.6	1006.6	—0.6	28.0	25.2	24.0	29.8	79	+6	5.0	+0.2	5.5	0	1	23	10	2	3	2	1	2	2	2	7	0
	1130	,,	1007.4	1006.4	..	30.8	26.0	23.9	29.7	68	..	4.7	..	11.6	1	0	30	3	0	1	1	3	8	11	4	0	0
	1730	,,	1004.7	1003.7	..	30.0	26.0	24.2	30.2	72	..	5.5	..	10.2	0	1	30	3	0	1	1	2	2	14	8	0	0
	2330	,,	1007.4	1006.4	..	27.6	25.3	24.2	30.2	82	..	5.0	..	5.9	0	1	23	4	3	1	3	0	3	2	8	7	0
Madhya Maharashtra																											
Nandurbar	0830	206	1006.0	983.2	..	29.9	24.0	21.1	25.0	59	..	2.4	..	13.1	0	0	31	0	0	0	0	0	12	19	0	0	0
	1730	,,	1000.7	978.4	..	38.0	23.5	15.3	17.1	27	..	1.5	..	11.8	0	0	31	0	0	0	0	0	9	21	1	0	0
Jalgaon	0830	201	1005.7	983.4	0	31.0	23.1	18.9	21.8	50	—4	2.8	+1.3	27.5	0	22	9	2	0	0	0	0	1	21	7	0	0
	1730	,,	999.5	978.0	..	39.9	22.7	10.9	13.0	19	..	4.1	..	22.7	0	16	15	4	2	1	2	0	2	10	10	0	0
Malegaon	0330	437	1005.9	958.0	—0.9	29.2	21.5	16.6	18.9	49	+2	3.2	+1.8	9.1	0	1	26	3	0	0	0	0	4	13	7	4	0
	1730	,,	1000.0	953.6	..	37.1	21.9	11.5	13.6	23	..	5.2	..	19.5	0	9	21	5	0	1	1	5	2	4	12	1	0
Deolali (Aerodrome)	0830	571	1007.4	944.8	..	27.1	22.8	20.7	24.4	70	..	3.8	..	12.7	0	5	24	1	0	0	0	1	9	16	2	2	0
	1730	,,	1002.5	941.4	..	33.1	23.9	19.4	22.5	47	..	4.1	..	15.8	0	8	22	4	2	0	1	0	5	12	6	1	0
Ahmadnagar	0830	657	1006.4	934.8	—0.9	26.5	21.1	17.4	19.9	62	+21	3.8	+2.4	6.4	0	1	26	1	3	0	1	0	1	2	19	4	0
	1730	,,	1000.2	930.7	.	34.0	21.6	14.0	16.0	34	..	6.2	.	7.2	0	0	28	3	6	1	2	0	3	2	11	3	0
Poona (Aerodrome)	0230	593	1005.4	940.1	..	24.0	20.7	18.9	21.8	74	..	3.8	..	11.8	0	4	23	1	1	0	0	0	0	19	6	4	0
	0530	,,	1005.9	940.3	..	23.2	20.3	18.7	21.6	78	..	4.4	..	9.2	0	3	22	2	0	0	0	0	1	17	5	6	0
	0830	,,	1006.7	941.9	..	26.3	21.1	18.0	20.6	64	..	4.9	..	11.3	0	6	21	0	1	1	0	0	0	19	6	4	0
	1130	,,	1005.4	941.6	..	31.4	22.0	16.3	18.5	45	..	4.4	..	13.0	0	4	26	3	0	1	2	2	1	14	7	1	0
	1730	,,	1002.0	938.2	..	30.8	22.4	17.7	20.2	51	..	5.6		25.7	0	22	8	1	1	1	0	2	2	14	9	1	0
	2330	,,	1006.7	941.4	..	25.0	21.1	18.7	21.6	71	..	4.0		13.4	0	8	21	1	0	1	2	0	2	19	4	2	0
Poona	0530	559	1005.8	943.9	..	23.7	20.7	18.9	21.8	76	..	5.1		1.1	0	0	7	0	0	0	0	0	1	5	1	24	0
	0830	,,	1006.7	945.4	—1.3	26.6	21.7	19.1	22.1	65	+7	4.5	+2.5	1.8	0	0	10	1	1	0	0	1	0	3	4	21	0
	1130	,,	1005.3	945.1	..	31.8	22.7	17.7	20.2	47	.	3.9		3.0	0	0	22	4	1	2	0	1	3	7	4	9	0
	1730	,,	1002.0	941.8	..	30.8	22.8	18.8	21.7	53	..	5.7	..	9.4	0		27	4	1	0	1	0	2	9	11	3	0
	2330	,,	1006.3	944.8	..	25.4	21.5	19.3	22.4	71	..	4.4	..	2.3	0	0	13	0	1	0	0	0	3	9	0	18	0
Jeur	0830	521	1006.2	949.0	—0.1	26.8	21.8	19.9	23.2	65	+7	5.8	+3.0	12.6	0	2	28	2	1	0	1	1	1	12	12	1	0
	1730	,,	1000.0	944.5	..	34.6	22.4	15.9	18.1	35	..	6.2	..	12.9	0	4	27	5	4	3	1	5	0	5	8	0	0
Baramati	0830	551	1006.3	946.0	+0.1	26.8	22.2	19.9	23.2	68	+9	4.5	+1.5	9.2	0	3	24	5	0	0	0	0	0	8	14	4	0
	1730	,,	1000.3	941.7	..	34.1	23.5	18.1	20.8	42	..	5.1	..	14.8	0	7	22	3	3	2	2	1	1	6	11	2	0
Sholapur	0530	479	1005.0	952.1	..	25.2	21.3	19.3	22.4	72	..	5.1	..	8.1	0	1	29	5	1	1	0	3	4	9	7	1	0
	0830	,,	1006.3	953.8	—0.8	27.8	22.6	20.0	23.4	64	+16	5.2	+3.0	10.2	0	2	26	5	1	1	2	1	5	8	5	3	0
	1130	,,	1004.8	953.2	..	33.1	23.5	18.8	21.7	45	.	4.6	..	13.5	0	1	30	8	4	1	2	1	3	2	10	0	0
	1730	,,	1000.1	949.0	..	35.1	23.3	17.2	19.6	37	.	5.7		11.8	0	5	22	10	1	0	2	3	4	1	6	4	0
	2330	,,	1005.4	952.9	..	28.0	22.1	19.0	22.0	61	.	5.3	.	11.5	0	2	29	2	2	0	1	1	10	9	6	0	0
Miraj	0830	554	1006.8	945.9	—1.1	25.1	22.5	21.0	24.9	78	+6	4.4	+1.7	.	..	..	..	0	0	3	0	0	0	17	0	11	0
	1730	,,	1001.5	942.0	..	31.7	23.2	18.8	21.7	50	..	5.3	..	..	..	..	..	0	0	2	2	0	2	19	1	5	0
Kolhapur	0530	570	1005.8	942.7	..	22.9	21.0	20.0	23.4	85	..	4.8	..	6.9	0	2	25	2	0	2	0	0	6	16	1	4	0
	0830	,,	1007.0	944.4	—1.0	25.3	21.9	20.2	23.7	4	+1	5.4	+2.7	9.3	0	1	29	1	0	3	0	1	1	21	3	1	0
	1130	,,	1005.7	944.1	..	30.1	22.8	18.8	21.7	56		4.7	..	11.5	0	4	25	4	4	3	0	1	2	12	3	2	0
	1730	,,	1002.3	940.7	..	29.2	22.5	19.1	22.1	58	..	5.8	.	20.2	0	15	16	2	0	2	1	2	5	17	2	0	0
	2330	,,	100[illegible].7	943.9	..	24.3	21.4	19.9	23.2	78		4.9	.	11.6	0	1	28	0	2	1	0	3	3	17	3	2	0
Marathwada																											
Aurangabad	0830	581	1006.3	943.1	—0.8	28.8	21.6	17.7	20.2	53	+9	4.6	+2.9	11.1	0	3	25	2	0	0	0	0	3	19	4	3	0
	1730	,,	1000.5	938.8	..	34.0	22.3	15.6	17.7	37	.	5.8	.	8.2	0	2	27	7	0	6	1		1	2	8	2	0
Aurangabad (Chikalthana)	0230	579	1004.1	940.7	..	26.3	21.3	18.7	21.6	64	..	4.6	.	10.9	0	2	24	2	0	0	0	1	1	16	6	5	0
	0530	,,	1004.8	941.1	..	24.9	21.0	19.0	22.0	71	..	4.9	.	11.0	0	7	17	0	1	0	0	0	2	17	4	7	0
	0830	,,	1005.6	942.6	..	28.7	23.0	20.3	23.8	62	.	4.2	.	15.7	0	8	21	4	0	0	0	0	0	12	13	2	0
	1130	,,	1004.1	942.2	..	34.1	24.1	19.4	22.5	43	..	3.7	..	13.9	0	4	25	9	2	1	0	1	1	6	9	2	0
	1730	,,	1000.2	938.6	..	33.6	23.8	18.9	21.8	45	..	5.8	..	16.3	0	10	21	7	2	3	1	1	2	4	11	0	0
	2330	,,	1004.5	941.5	..	28.3	22.1	19.0	22.0	58	..	4.6	..	14.3	0	7	20	2	1	0	0	0	3	14	7	4	0
Parbhani	0830	423	1005.9	959.6	+0.8	29.6	22.7	18.6	21.4	54	+9	5.4	+2.8	14.3	0	6	24	2	0	0	1	2	3	10	12	1	0
	1730	,,	999.7	954.5	..	35.8	23.6	16.0	18.2	36	..	6.3	..	14.3	0	7	24	8	4	3	1	2	1	4	8	0	0
Nander	0830	358	1005.7	966.3	..	30.2	22.8	18.4	21.1	51	..	2.9	..	4.5	0	0	29	2	1	0	2	1	6	14	3	2	0
	1730	,,	999.5	961.2	..	37.4	24.1	16.7	19.0	32	..	3.4	..	4.5	0	0	28	1	5	0	4	0	9	3	6	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Bir (R)	0830	519	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vidarbha																											
Gondia	0830	313	1004·4	970·5	+0·9	32·5	22·5	16·5	19·1	40	+3	4·3	+2·1	3·9	0	0	27	4	0	2	2	6	8	2	3	4	0
	1730	"	998·7	965·5	..	39·5	22·4	11·2	13·1	20	..	3·7	..	4·1	0	6	29	6	2	2	1	2	4	5	7	2	0
Nagpur (Sonegaon)	0230	310	1001·4 1002·4	967·3	..	30·2	21·0	14·6	17·4	43	.	5·9	..	9·1	0	3	23	0	1	2	2	2	8	3	8	5	0
	0530	"		968·3	..	29·2	20·8	14 9	17·7	46	.	6 4	..	9 1	0	4	21	0	0	2	3	1	3	7	9	6	0
	0830	"	1003·9	970·1	−0·4	32·6	21 9	14 9	17·3	37	+7	4·9	+2·8	13 4	0	8	22	0	1	1	3	0	5	8	12	1	0
	1130	"	1002·4	969·2	..	38·1	22·8	12 6	14·6	24	..	4·4	..	10 7	0	5	23	3	1	1	0	4	4	3	12		0
	1730	"	998·2	965·2	..	38 0	22·1	11·0	13·6	23		5·5	..	11 8	0	7	21	5	2	1	2	1	3	5	9	3	0
	2330	"	1002·1	968·3	..	31·4	21·3	14·3	17·0	39	..	6 0	..	8·9	0	2	27	1	0	0	4	4	4	9	7	2	0
Amraoti	0830	370	1004·1	963·9	−0 7	32.0	22·2	16·0	19·5	41	+6	3·7	+2·1	12·5	0	2	29	0	1	1	1	5	17	5	1	0	0
	1730	"	998·1	958·8	..	37·9	22·7	12·4	16·4	24	..	4·8	..	8·9	0	0	31	8	4	0	2	2	4	4	7	0	0
Akola Aerodrome	0530	309	1002·8	968·6	..	28·6	21·0	15·9	16·4	49	..	6·0	..	9 0	0	3	25	0	0	0	0	1	2	24	1	3	0
	2330	"	1002·2	968·4	..	31·9	21·7	14·9	15·5	39	.	5·2	..	6 3	0	0	28	0	0	1	2	2	2	19	2	3	0
Akola	0830	282	1004·7	973·8	−0·6	31·0	22·5	17·4	20·4	46	+10	5.5	+3·7	7·3	0	2	26	0	1	0	1	0	3	18		3	0
	1130	"	1003·3	972·9	..	36·5	23·4	15·5	15·9	31	.	3·7	..	6·3	0	1	29	3	0	0	0	0	0	20	7	1	0
	1730	"	998·4	968·4	..	39·1	23·1	12·8	15·2	23	.	5·1	.	3.2	0	0	23	0	0	0	0	1	0	18	4	8	0
Bramhapuri	0830	229	1004·2	979·1	..	32·4	24·5	20·4	24 3	51	..	4·1	.	7·5	0	1	30	1	1	0	4	5	12	4	4	0	0
	1730	"	998·4	974 0	..	39·9	25·9	18·5	21·7	31		3·0	..	5·8	0	0	29	6	4	0	1	5	3	2	8	2	0
Buldana	0830	650	1004·8	934·5	0	28·4	22·2	19·1	22·2	59	+8	4·1	+1·2	3·3	0	0	28	0	2	0	2	0	2	0	22	3	0
	1730	"	999·8	931·1	..	34·8	23·7	17·7	21 1	40	..	5·1	..	3·5	0	0	29	0	3	0	2	0	4	0	20	2	0
Yeotmal	0830	451	1004·3	955·5	+0 5	31·2	22·1	16 5	19·1	45	+7	3·9	+0·8	16·7	0	10	20	1	1	0	2	2	5	12	7	1	0
	1730	"	998·4	950·7	..	37·6	22·3	12·4	14 5	24	..	5·2	.	15·1	0	8	23	2	3	2	3	0	3	8	10	0	0
Chanda	0830	193	1004·3	983·1	−0·6	33.1	24·6	20·7	23·8	49	+16	5·6	+3 6	9 0	0	0	30	1	0	1	2	7	7	8	4	1	0
	1730	"	998·1	977·5	..	39·9	25.6	18·1	21·0	29		5·5	..	5·6	0	0	31	9	7	3	2	3	2	1	4	0	0
Pusad	0830	334	1005·1	969·0	..	31·9	22·9	17·6	20·6	46		3·8	..	7·7	0	0	27	0	0	0	1	0	3	17	6	4	0
	1730	"	999·5	963·9	..	39.0	24·2	15.4	18.1	27	..	5·4	..	7·5	0	0	29	2	3	3	0	1	2	14	4	2	0
Sirponcha	0830	123	1005·4	991·8	+0·3	32·1	24·6	20·9	24 9	53	+1	4·0	+0 7	3·3	0	0	28	2	1	3	6	7	3	4	2	3	0
	1730	"	999·3	986·1	..	39·5	24·5	16·1	4	27	..	3·9	..	3 0	0	0	28	2	2	4	5	2	5	6	2	3	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1005·1	1004·5	−0·3	30·9	..	..	..	..	..	2·6	−0 9	18·4	0	2	18	0	0	0	1	7	17	4	1	1	0
	1730	"	1002·1	1001·5	..	30·8	..	.	..	..	..	3·6	..	22·0	0	20	11	1	0	2	2	12	12	1	1	0	0
Vishakhapatnam	0230	3	1003·2	1002·8	..	28·9	25·5	23·9	29·7	75	..	3·2	..	4·9	0	2	12	0	1	0	0	1	12	0	0	17	0
	0530	"	1003·6	1003·2	..	28 5	25·4	24·0	29 8	77		4·9	..	4 5	0	0	15	0	0	0	1	1	10	2	1	16	0
	0830	"	1005·1	1004 7	−0·7	32 4	25 9	23·0	28·1	58	−16	3·1	−1 6	14 1	0	8	21	0	1	1	0	5	18	3	1	2	0
	1130	"	1004·2	1003·8	..	35·7	27·1	23·3	28·6	50	.	2·9		19 6	0	18	13	0	0	2	2	17	8	2	0	0	0
	1730	"	1002·0	1001·6	..	31·9	26·4	23·4	28·8	61	..	5·0	.	15 0	0	6	24	0	1	1	1	13	11	2	1	1	0
	2330	"	1004·4	1004·0	..	29·5	26·0	24 5	30·7	75	..	3·9	.	7 1	0	0	27	0	0	0	1	9	12	4	1	4	0
Kakinada	0830	8	1005·5	1004·6	−0·7	32·5	27·1	24·7	31·7	64	−7	4·1	−0 3	12·3	0	1	30	0	0	0	2	0	25	0	4	0	0
	1730	"	1001·3	1000·5	..	34·6	27·4	24 3	30·4	55	..	3.7	..	16·5	0	2	29	0	0	0	24	2	4	0	1	0	0
Nidadavole	0830	12	1005·6	1004·2	..	31·0	27·6	26·2	34·0	76	..	6·2	..	5·5	0	0	31	1	0	1	7	2	8	10	2	0	0
	1730	"	1000·9	999·5	..	35·5	26·9	23·0	28·1	48	..	5·2	..	9·5	0	2	29	1	0	1	2	12	9	4	2	0	0
Bentachintala	0830	106	1005·7	994·0	..	31·8	24·9	21·3	25·3	55	+2	4·3	+0·1	4·3	0	0	31	1	0	0	4	2	8	13	3	0	0
	1730	"	1000·0	988·6	..	38·3	25·5	18·8	21·7	34	..	5·6	..	4·2	0	0	31	4	0	5	8	2	3	8	1	0	0
Gannavaram	0230	24	1003·6	1000·8	..	29·1	25·8	24·4	30·5	77	..	3·1	..	7 9	0	2	25	1	0	5	7	4	3	5	2	4	0
	0530	"	1003·8	1001 1	..	28·5	25·6	24·3	30·5	79	..	4·4	..	7 0	0	2	26	2	0		6	3	2	4	3	3	0
	0830	"	1005·7	1003·0	+0·2	31·7	26·3	24·0	29·8	65	−1	4·7	+0 6	12·7	0	6	25	1	0	1	1	10	8	5	5	0	0
	1130	"	1004·5	1001·9	..	36·1	26·3	21·7	25·9	44	..	4·7	..	13·7	0	7	23	3	0	0	0	7	4	7	9	1	0
	1730	"	1000 7	998·1	..	36·5	26·1	21·1	25·0	43	..	5·6	.	14·1	0	11	19	1	0	1	5	13	1	4	5	1	0
	2330	"	1004·6	1001·9	..	30·1	26·1	24·4	30·5	72	..	3·6	..	10·0	0	2	28	1	0	2	6	13	6	0	2	1	0
Nagarjun konda	0830	12.6	..	..	..	32·6	25·0	21·3	25·3	53	..	3·6	..	17·4	0	13	18			1	4	1	2	10	9	0	0
	1730	"	..	..	..	38·2	25·6	19·1	22·1	35	..	5·0	..	18·1	0	12	19			3	10	4	0	7	4	0	0
Masulipatam	0830	3	1006·0	1005·7	0	31·6	26·8	24·8	31·3	67	−5	4·0	+0·3	5·2	0	0	31	2	0	0	2	21	1	1	4	0	0
	1730	"	1001·5	1001·2	..	33·3	26·3	28.2	28·4	55	..	3·5	..	5·2	0	0	31	3	0	0	4	22	0	1	1	0	0
Ongole	0830	12	1005·4	1004·1	..	32·7	27·6	25·5	32·6	67	..	3·4	..	4·2	0	0	31	1	1	1	13	1	3	6	5	0	0
	1730	"	1000.9	999·6	..	34.4	28·6	26·2	34·0	65	..	4·5	..	3·4	0	0	31	0	1	1	28	0	0	0	1	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.*																											
Nellore	0530	20	1003·9	1001·6	..	28·3	25·1	23·7	29.3	77	..	3·7	..	2·8	0	0	15	0	1	2	6	1	0	4	1	16	0
	0830	,,	1005.8	1003.5	—0·3	32·0	26·1	23·[illegible]	28·8	61	+1	4·5	+0 7	8·1	0	1	27	0	0	1	4	4	3	14	2	3	0
	1130	,,	1004·9	1002·8	..	36·5	26 1	21·1	25 0	42	..	4 3	..	9·1	0	1	29	2	1	0	2	2	2	18	3	1	0
	1730	,,	1001·7	999·5	..	33·9	26 6	23 4	28 8	55	.	4·9	.	11·7	0	4	27	0	1	13	11	2	0	3	1	0	0
	2330		1004·7	1002·5	..	30·1	25·8	23·9	29·7	70	..	2.2	..	2·7	0	1	11	0	0	3	6	0	0	2	1	19	0
Telangana																											
Ramgundam	0830	156	1004·7	987·5	+0·1	31·9	24·1	20·1	23·5	51	+5	4.7	+1·5	5·7	0	0	27	4	2	1	7	3	2	3	5	4	0
	1730	,,	999 0	982·3	..	39·8	24·6	15·9	18·1	25	..	4·3	..	3·0	0	0	21	7	3	0	1	4	2	3	1	10	0
Nizamabad	0830	381	1005.3	963·7	—0·3	30·9	22·5	17·5	20·0	46	+5	3·7	+1.5	1·5	0	0	20	0	2	1	0	3	9	3	2	11	0
	1730	,,	999.0	958·5	..	37·9	23·1	13.9	15 9	27	..	3 8	..	0·8	0	0	10	1	0	2	0	0	3	1	3	21	0
Hanamkonda	0830	269	1005 1	975·6	—0·4	31·3	24·7	21·4	25 5	57	+10	3·3	+0·3	4·5	0	0	30	3	1	2	3	10	5	3	3	1	0
	1730	..	1000 1	971·3	..	37·7	25 9	20·1	25·5	38		4·3	..	3·3	0	0	30	4	5	3	2	7	2	5	2	1	0
Hakimpet (Aerodrome)	0530	613	1004 3	937·3	..	25·7	21·2	18 9	21·8	67	..	5·6	..	11·5	0	5	25	3	0	1	4	2	8	7	5	1	0
	0830	,,	1005·2	938·7	..	27·9	21·9	18·9	21·8	59	..	4.9	..	14·6	0	8	23	2	1	0	3	3	5	7	10	0	0
	1130	,,	1003·7	938·3	..	32·6	22 5	17·4	19·9	41	.	4·3	..	15·0	0	8	23	2	1	0	4	1	3	7	13	0	0
	1730	,,	1000·0	935·2	.	34·6	22·3	15·5	12·6	33		5·3	..	23·3	0	5	26	2	3	4	5	2	3	3	8	1	0
Bhadrachalam	0830	111	1005·5	993·2	+0·1	31·6	25·5	22·8	27·7	62	+1	4·1	+0·1	3·8	0	0	27	3	2	3	4	2	4	6	3	4	0
	1730	,,	1000·2	988·1	.	36·6	24·1	18·5	21·3	38		4.5	..	5·0	0	0	28	5	5	2	4	0	3	5	4	3	0
H/derabad (Begumpet)	0230	545	1003·3	944·0	..	27·5	21·6	18·4	21·1	59	.	5.0	..	9·7	0	6	18	1	1	2	4	2	4	5	4	7	0
	0530	,,	1004·3	944·6	..	26.0	21·1	18·5	21.3	65	..	5·5	..	10·0	0	2	27	2	1	2	3	1	6	8	6	2	0
	0830	,,	1005·7	946·4	+0·1	28·1	21 8	18·7	21·6	56	+5	5·3	+2·3	12.2	0	6	25	1	1	1	2	2	6	7	11	0	0
	1130	,,	1003·9	945.6	.	33·1	22·5	17·0	19·4	39	.	4·2	..	13·2	0	7	22	0	0	1	3	3	4	3	14	2	1
	1730	,,	999·3	941·7	.	35·1	22·1	14.7	16·9	31	..	5·7	..	12·8	0	7	23	3	1	2	7	4	4	2	7	1	2
	2330	,,	1003·7	944·8	..	29·7	21·8	17·7	20·2	50		4·5	..	8·8	0	3	23	1	0	1	7	2	5	4	6	5	0
Khammam	0830	112	1005.4	992.9	.	31·1	26·1	23·9	29·7	66	..	4·8		7·2	0	1	30	2	0	2	5	8	4	8	2	0	0
	1730	,,	999·8	987·7	.	37.9	26.2	20·6	24·3	38	..	5·6	..	6·8	0	1	28	1	1	8	1	5	2	10	1	2	0
Mahbubnagar	0830	505	1005·8	950·7	..	28·9	22·2	18·7	21.6	56	..	5·2	..	9·9	0	2	29	2	1	3	1	0	10	6	8	0	0
	1730	,,	999·8	946·1	..	34·9	22·5	15·9	17·9	34	.	6·1	..	9·0	0	3	28	1	3	2	5	3	8	2	7	0	0
Rayalaseema																											
Kurnool	0830	281	1006·6	975·5	—0·3	29·1	24.0	21.4	25·5	64	+9	3·9	+0·8	5·6	0	0	30	5	0	2	0	1	3	17	2	1	0
	1730	,,	1000.7	970·4	..	35·7	24·0	17·6	20.1	37	..	4·9	..	11·6	0	5	25	3	1	0	5	0	2	15	4	1	0
Anantapur	0530	350	1005 0	966·1	..	26·4	21·9	19·3	22·4	66	..	5.3	..	12·5	0	8	17	1	0	0	1	0	11	9	3	6	0
	0830	,,	1006·5	967·9	+0·1	28·8	22·6	19·3	22 4	57	—4	5.1	+1·5	13·1	0	7	23	2	0	1	1	0	5	13	8	1	0
	1130	,,	1005·1	967·1		33·2	23·1	17·3	19 7	40		3 6	.	14·5	0	7	24	1	2	3	1	0	2	14	8	0	0
	1730	,,	1000·6	963·1	..	35·5	22 9	15·2	17·3	32	.	5·1	.	13·9	0	11	17	3	2	2	2	2	4	9	4	3	0
	2330	,,	1004·9	966·5	..	29·7	22·1	17 5	20 0	51		4·2	.	19·0	0	17	14	0	1	2	3	0	8	14	3	0	0
Cuddapah	0830	130	1006·8	992·3	—0 4	32·1	25·6	22 6	27·4	57	+3	3 3	+0·1	3·2	0	0	17	0	0	1	0	0	0	11	5	14	0
	1730	,,	1000·9	986·8	..	37·5	27·2	22·6	27·4	43		4 5		6·5	0	0	25	0	6	5	2	0	1	6	5	6	0
Arogyavaram	0830	701	1006·7	930·7	..	26·6	21·3	18 8	21 7	63	.	5·4		9·3	0	2	28	7	1	0	3	3	3	9	4	1	0
	1730	,,	1001·7	927·0	..	31·1	21·9	16 9	19·3	46	..	6 4		10·0	0	1	30	6	1	7	0	2	1	6	8	0	0
Madras State																											
Madras	0830	6	1006 4	1005 7	..	30·6	25·5	23 2	28·4	65		4.2	..	10·5	0	0	31	0	0	0	0	5	13	12	1	0	0
Madras (Minambakkam)	0230	16	1004·3	1002·6	.	28.9	25·4	23·8	25·5	75	..	3.2	.	8·1	0	1	24	0	0	0	0	10	9	6	0	6	0
	0530	,,	1004·8	1003·0	..	28·0	24·8	23·2	28·4	76	..	4 2	..	6·1	0	1	20	0	0	0	0	7	10	3	1	10	0
	0830	,,	1006·3	1004·6	—0·3	31.2	25·4	22 8	27·7	62	+2	4 6	+1·2	11·9	0	3	27	0	0	0	0	7	16	7	0	1	0
	1130	,,	1005·6	1003·9	.	35·2	25·8	21·4	25·5	45	..	5·1	..	15.7	0	8	23	1	0	1	3	4	7	11	4	0	0
	1730	,,	1002·7	1001·0	.	32.6	26·2	23·1	28·3	58	..	4·9	..	15·6	0	3	28	0	0	4	13	10	2	2	0	0	0
	2330	,,	1005.7	1004.0	..	29·6	26·0	24·4	30·6	74	..	3·4	..	12·4	0	3	26	0	0	0	4	14	9	2	0	2	0
Vellore	0530	214	1005·1	981·2	..	26·7	23·6	22·0	26·4	76	..	5·4	.	1·8	0	0	13	0	0	0	0	5	4	3	1	18	0
	0830	,,	1006.5	982·8	+0·2	29·9	24·5	21·9	26 3	62	—1	4.5	+1.9	3·7	0	0	23	0	0	0	0	2	13	7	1	8	0
	1130	,,	1005.5	982·1	..	34·0	25.3	21·1	25·0	47	..	5·1	..	5·7	0	0	29	0	2	1	0	4	6	12	4	2	0
	1730	,,	1001·8	978·5	.	33·8	24·5	19·6	22.8	46	..	6·0	..	4·5	0	0	25	1	6	1	1	4	8	4	0	6	0
	2330	,,	1006·2	982·4	..	28·9	24·2	21·9	26.3	67	..	5·3	..	6·4	0	1	18	0	0	4	0	6	5	4	0	12	0
Tambaram (Aerodrome)	0830	29	1006.1	1002·9	..	31·0	26·7	24·9	31·5	70	..	5·1	..	14·8	0	5	26	0	0	0	0	4	14	11	2	0	0
	1730	,,	1002·8	999·6	..	33·0	27·6	25·3	32.2	66	..	5 0	..	20·5	0	14	17	1	0	1	12	12	2	2	1	0	0
Tiruppattur	0830	390	1006·9	963.4	..	27·7	..	..	..	..	..	4.7	..	4·3	0	0	27	14	0	3	0	3	1	5	1	4	0
	1730	,,	1002·0	959.8	..	32·0	..	..	..	..	..	5·3	..	8·1	0	0	31	8	3	4	3	7	1	5	0	0	0
Cuddalore	0530	12	1004·7	1003·4	..	27·4	25·4	24·5	30·7	85	..	5·1	..	5·4	0	0	26	0	0	0	2	8	11	3	2	5	0
	0830	,,	1006·7	1005·3	—0·6	30·5	26·0	24·0	29·8	68	0	5·2	+1·9	6·8	0	0	30	1	0	0	6	4	15	1	3	1	
	1130	,,	1006·1	1004·8	..	34·3	26·9	23·6	29·1	55	..	5·5	..	10·5	0	3	27	0	1	1	10	4	10	3	1	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Cuddalore	1730	12	1003·0	1001·7	..	31·3	27·4	25·7	33·0	73	..	5·9	..	9·5	0	2	28	0	0	1	18	3	3	4	1	1	0
	2330	"	1006·0	1004·7	..	29·0	26·3	25·1	31·9	80		5·2	.	..	0	0	30	0	0	1	9	11	7	1	1	1	0
Kallakkurichchi	0830	127	1006·3	992.3	..	30·7	25·8	23·6	29·1	66	..	3·6	..	7·1	0	3	17	1	2	1	3	4	9	0	0	11	0
	1730	"	1002·2	988·2	..	34·6	26·2	22·4	27·1	52	..	5·5	..	10·9	0	5	24	1	3	5	7	2	8	0	3	2	0
Salem	0530	278	1006·0	974·9	..	25·8	22·7	21·2	25·2	76	..	6·8	..	2·7	0	0	22	0	0	5	1	7	5	4	0	9	0
	0830	"	1007·2	976·4	−0·6	28·5	23·6	21·1	25·0	65	−6	6·4	+3·0	3·5	0	0	26	1	1	2	0	6	9	7	0	5	0
	1130	"	1005·9	975·5	..	32·7	24·3	19·9	23·2	48	..	5·1	..	7·0	0	0	25	0	0	0	3	5	10	9	2	2	0
	1730	"	1002·4	972·2	..	32·9	23·5	18·3	21·0	45	..	6·7	..	7·5	0	1	29	2	1	3	0	12	6	5	1	1	0
	2330	"	1006·9	976·0	..	27·8	23·2	20·9	24.7	67	..	5·5	..	4·6	0	0	20	0	1	3	1	7	6	2	0	11	0
Coimbatore (Pilamedu)	0530	399	1006·6	962·0	..	23·5	22·4	21·8	26.1	90	..	5·0	..	13.4	0	8	21	0	0	0	1	12	15	1	0	2	0
	0830	"	1007.7	963·5	..	26·4	23·4	21·9	26·3	77	..	4·8	..	20.1	0	13	16	0	0	0	1	9	14	4	0	2	1
	1130	"	1006·9	963·2	..	30.0	23·9	20.8	24·6	59	..	5·1	..	21·9	0	15	13	0	0	1	1	8	12	5	1	3	0
	1730	"	1003·8	960·2	..	29·4	23·7	20·9	24·7	62	..	6·1	..	31·8	0	27	4	1	0	1	0	5	23	1	0	0	0
	2330	"	1007·6	963·2	..	24·9	22·7	21·6	25·8	83	..	4·8	..	23.7	0	20	11	0	0	0	1	4	24	2	0	0	0
Coimbatore	0830	409	1007·8	962·6	−0.3	26.5	22·7	20·9	24·7	72	−6	6·2	−2·8	13·3	0	2	28	0	1	0	1	13	13	2	0	1	0
	1730	"	1003·9	959·3	..	29·5	23·4	20·2	23·7	59	..	6·8	..	20·0	0	16	13	0	1	0	0	12	15	3	0	0	0
Nagapattinam	0830	9	1007·3	1006·3	−0·2	30·6	25·3	22·8	27·7	63	−6	5·2	+1·4	12·5	0	3	28	0	0	0	4	2	13	11	1	0	0
	1730	"	1003·9	1002·8	..	31·4	26·7	24·7	31·1	68	..	5·4	..	20·0	0	19	12	0	1	1	12	6	9	2	0	0	0
Tiruchirappalli	0230	88	1005.3	995.4	..	27·5	24·2	22·6	27·4	75	..	4·0	..	16·5	0	8	21	0	0	0	4	3	3	16	3	2	0
	0530	"	1005·7	995·8	..	26·9	24·1	22·7	27·6	78	.	5·3	..	14·3	0	10	19	0	1	0	1	3	2	21	1	2	0
	0830	"	1007·4	997·5	−0·5	29·6	24·9	22·7	27.6	67	+2	4·6	+1·2	21·4	0	17	14	1	0	0	0	3	2	21	3	0	1
	1130	"	1006·6	996·9	..	33·5	25·5	21·7	25·9	51	..	4·5	..	21·7	0	16	14	1	0	1	0	2	3	17	6	1	0
	1730	"	1003·1	993·5	..	34·4	25·1	20·6	24·3	45	..	5·7	..	22·5	0	15	15	0	1	3	3	2	4	11	5	1	1
	2330	"	1007·1	997.2	..	28·4	24·4	22·4	27·1	71	..	4·7	..	22·0	0	18	13	1	1	0	4	4	2	17	2	0	0
Vedaranniyam	0830	4	1007·5	1007·0	..	30·7	27.9	26·8	35·2	80		5·1	..	13.7	0	7	24	0	0	0	1	10	17	1	2	0	0
	1730	"	1004·3	1003.8	..	31·0	28·3	27·5	36·2	81	..	5·4	..	16·1	0	5	26	1	0	0	3	18	9	0	0	0	0
Atirampattinam	0830	6	1007·1	1006·4	..	30.2	25·3	23·0	28·1	66	..	5·0	..	10·4	0	1	30	1	0	0	1	5	14	4	6	0	0
	1730	"	1003·7	1003·1	..	31·1	26·7	24·8	31·3	69	..	6·1	..	27·9	0	26	5	0	1	1	2	12	14	0	1	0	0
Madurai	0830	133	1007·1	992.3	−0·7	29·6	24·7	22·3	26·9	65	+2	6·6	+2·3	5·1	0	0	28	6	2	1	0	1	5	1	12	3	0
	1730	"	1003·5	988·9	..	33·5	24·5	19·9	23·2	46	..	7.4	..	9·0	0	0	30	0	1	3	7	4	13	0	2	1	0
Madurai Aerodrome	0530	131	1005·6	990·9	.	26·6	23.7	22.2	26·7	78	..	4·9	..	4·8	0	2	15	4	4	3	2	0	1	3	0	14	0
	0830	"	1007·1	992.5	..	29·9	24·4	21·8	26·1	62	..	5·1	..	7·3	0	1	28	12	4	3	3	1	1	5	0	2	0
	1130	"	1006·5	992·0	..	33·5	25·0	20·8	24·6	48	..	5·6	..	9·3	0	5	20	6	6	2	0	0	2	9	0	6	0
	1730	"	1003·5	989·1	..	32·8	24·3	19·9	23·2	48	..	6·3	..	10·0	0	20	11	0	1	1	6	11	1	11	0	0	0
Tondi	0830	5	1007·6	1007·0	..	30·4	26.5	24·8	31·3	73	..	6·1	..	6·0	0	2	14	0	0	1	6	1	7	0	1	15	0
	1730	"	1004·2	1003·6	..	31·1	27.4	25·8	33·2	75	.	6·2	..	22·0	0	18	11	0	0	1	9	12	5	1	1	2	0
Pamban	0830	11	1007·5	1006·2	−0·4	29·7	26·9	25·9	33·4	83	+5	3·2	+0·5	7·2	0	1	24	0	0	0	3	8	13	1	0	6	0
	1730	"	1004·7	1003·4	..	30·2	27·5	26·5	34·6	81	..	3·8	..	9·7	0	2	28	0	0	1	6	13	10	0	0	1	0
Tuticorin	0830	4	1007·9	1007·5	+0·4	30·4	25·9	23·9	29·7	68	+2	4·5	+0·6	12·0	0	4	27	0	3	0	0	1	10	13	4	0	0
	1730	"	1004·9	1004·5	..	31·3	27·1	25·3	32·2	71	..	6·8	..	22·0	0	23	8	1	0	0	7	8	6	8	1	0	0
Palayankottai	0830	51	1007·9	1002·2	+0.5	30·8	24·6	21·7	25·9	59	−1	5·3	+1·5	5·7	0	3	17	2	0	0	0	0	0	14	4	11	0
	1730	"	1004·9	999·2	..	31·4	24·6	21·3	25·3	57	..	7·2	..	12.1	0	8	22	1	0	1	1	2	5	16	4	1	0
Kanniyakumari	0830	37	1008·2	1004·1	..	28·0	25·1	23·7	29·3	78	..	5·5	..	17·7	0	12	19	0	0	0	0	0	0	23	8	0	0
	1730	"	1006·1	1002·0	..	28·5	25·5	24·2	30·2	78	..	6·5	..	19·0	0	15	16	0	0	0	0	0	3	23	5	0	0
Coastal Mysore																											
Karwar	0830	4	1007·9	1007·4	0	27·9	25·8	24·9	31·5	84	+4	4·7	−0·3	10.8	0	8	18	1	3	1	4	1	2	1	12	5	1
	1730	"	1004·9	1004·5	..	29·2	26·3	25·2	32·1	79	..	4·4	..	15·9	0	11	19	1	0	0	3	2	3	4	16	1	1
Honavar	0830	26	1008·2	1005.3	−0·7	26.7	24.8	23.9	29·7	85	+8	6.7	+1·3	6·3	0	3	27	3	0	18	2	1	2	4	0	1	0
	1730	"	1005·1	1002.3	..	29.3	25·9	24·5	30·7	76	..	6·1	..	12·7	0	4	27	0	0	0	1	3	8	11	8	0	0
Mangalore (Bajpe)	0230	102	1006·9	995·4	..	25·3	24·0	23.4	28·8	89	..	5·6	..	5·9	0	0	20	2	1	7	7	2	0	1	0	11	0
	0530	"	1006·9	995·3	..	24·9	23·8	23·3	28·6	91	..	6·0	..	5·0	0	0	21	1	2	7	8	1	1	1	0	10	0
	0830	"	1008·5	997·0	..	27·1	24·8	23·8	29·5	83	..	5·9	..	6·6	0	1	25	1	5	7	6	0	1	3	3	5	0
	1130	"	1008·2	996·8	..	29·8	25·4	23·3	28·6	70	..	6·0	..	9·4	0	2	27	3	0	0	5	1	4	8	8	2	0
	1730	"	1005·7	994·3	..	28·5	25·0	23·3	28·6	75	..	6·5	..	11·3	0	1	30	0	0	1	3	4	5	9	9	0	0
	2330	"	1008·3	996.9	..	26·0	24·2	23·4	28·8	86	..	5·8	..	8·5	0	1	26	1	1	5	7	2	0	4	7	4	0
Mangalore	0830	22	1008.5	1006·0	−1·0	28·2	25·2	23·8	29·5	78	+4	5·6	+0·7	3·9	0	0	31	7	8	6	2	1	3	2	2	0	0
	1730	"	1005.7	1003·3	..	29·3	25·5	23·9	29·7	73	..	6·6	..	7·5	0	0	31	1	1	0	2	2	5	11	9	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest Standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)																											
Bidar	0830	664	1005·3	933·2	..	27·5	21·5	18·5	21·3	60	+13	4·7	+2·3	17·8	0	14	17	0	1	0	2	0	15	6	7	0	0
	1730	"	998·7	928·7	..	34·4	21·9	14·8	16·8	32	..	5·2	..	15·9	0	10	21	2	9	0	6	0	8	0	6	0	0
Gulbarga	0830	458	1006·1	955·8	−0·6	28·5	21·9	18·4	21·1	57	+6	6·0	+3·9	10·2	0	1	29	3	1	1	1	5	3	9	7	1	0
	1730	"	1000·1	950·9	..	34·9	22·4	15·3	17·3	34	..	6·7	..	11·7	0	5	24	2	1	4	1	7	3	7	4	2	0
Bijapur	0830	594	1006·5	941·4	−1·1	25·9	21·5	19·1	22·1	69	+10	5·8	+3·4	10·3	0	2	27	4	1	0	2	2	2	11	7	2	0
	1730	"	1000·0	937·0	..	33·6	..	..	..	..	..	6·1	.	4·1	0	0	28	4	2	0	2	5	1	10	4	3	0
Raichur	0830	400	1006·3	962·4	−0·6	28·4	24·1	22·0	26·4	70	+14	5·0	+2·7	9·0	0	2	28	0	2	2	2	2	11	6	5	1	0
	1730	"	1000·3	957·6	..	35·2	25·9	21·3	25·3	47	..	6·3	..	9·0	0	2	28	0	10	0	6	1	5	3	5	1	0
Belgaum	0830	753	1000·7	925·5	−1·0	23·7	20·9	19·5	22·7	79	+3	4·7	+1·5	6·1	0	0	29	1	3	4	2	1	1	11	6	2	0
	1730	"	1002·9	921·9	.	27·1	21·7	19·2	22·2	66	..	6·2	..	11·5	0	2	29	1	0	1	1	1	3	15	7	0	2
Belgaum (Samra)	0530	747	1006·6	924·3		21·4	20·1	19·3	22·4	89	..	5·5	..	11·1	0	3	22	1	1	1	2	2	3	14	1	6	0
	0830	..	1007·4	925·8	..	24·0	20·9	19·1	22·1	76	..	5·2	..	10·5	0	1	29	1	5	0	3	3	1	14	3	1	0
	1130	"	1005·9	925·5	.	28·4	21·3	17·2	19·6	57	..	5·2	.	13·7	0	3	28	1	5	2	4	1	2	9	7	0	0
	1730	"	1003·3	922·8		26·9	21·5	18·6	21·4	64	..	6·1	..	18·7	0	9	22	1	0	1	0	3	4	18	4	0	0
Gadag	0530	649	1006·4	934·7	..	22·5	21·2	20·5	24·1	89	..	5·6	..	7·7	0	2	22	1	1	0	0	4	8	9	1	7	0
	0830	"	1007·6	936·3	−0·5	25·7	22·1	20·3	23·8	74	0	5·7	+2·7	6·0	0	0	22	0	0	0	3	0	8	9	2	9	0
	1130	"	1005·8	935·9	.	30·3	23·0	19·4	22·5	55	..	4·3	..	8·8	0	2	29	1	4	1	1	3	5	11	5	0	0
	1730	"	1001·8	932·2	.	30·7	22·9	18·8	21·7	53	..	6·7	..	8·1	0	0	27	0	2	1	1	4	10	6	3	4	0
	2330	"	1007·0	935·7	.	24·1	21·9	20·9	24·7	83		5·6	..	13·8	0	5	24	0	2	0	2	4	7	14	0	2	0
Interior Mysore (South)																											
Bellary	0830	449	1006·6	957·2	−0·8	27·9	22·7	19·9	23·2	63	+8	3·8	+0·4	5·5	0	0	26	0	3	0	1	0	10	1	11	5	0
	1730	"	1000·5	952·4	..	34·1	24·3	18·9	21·8	43	..	5·2	..	5·9	0	1	26	0	3	1	4	0	10	1	8	4	0
Chitradurga	0830	733	1007·2	927·1	−1·1	23·8	21·1	19·9	23·2	79	+8	4·5	+0·3	5·9	0	0	28	1	0	0	0	1	10	15	1	3	0
	1730	"	1001·7	923·7	..	30·7	21·8	17·1	19·5	47	.	6·0	..	7·2	0	0	24	1	1	2	0	0	6	13	1	7	0
Shimoga	0830	571	1007·6	944·8	−0·3	25·1	22·1	20·6	24·3	76	−2	7·2	+2·1	5·9	0	0	29	1	0	0	2	4	14	4	4	2	0
	1730	"	1002·9	941·2	..	29·0	22·8	19·8	23·1	60	..	7·5	..	7·0	0	0	30	2	1	0	0	4	18	3	2	1	0
Bangalore	0830	890	..	..	..	20·9	20·1	19·7	22·9	94	+8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1493·3	904·0	..	22·1	21·3	19·4	22·5	85	+10	5·5	+1·7	3·0	0	0	30	5	0	0	0	0	3	20	2	1	0
	1730	..	1473·7	901·3	..	25·9	21·3	18·9	21·8	68	..	5·9	.	3·7	0	0	30	1	0	0	3	3	8	15	0	1	0
Bangalore	0230	921	1475·1	906·1	.	22·3	20·4	19·3	22·4	84	..	4·6	..	10·1	0	0	29	0	0	0	0	0	12	15	2	2	0
	0830	"	1493·3	908·0	−0·6	23·7	20·8	19·3	22·4	77	+4	5·6	+1·7	11·5	0	2	28	0	1	0	1	1	8	17	2	1	0
	1130	"	1498·5	907·6	.	28·1	21·8	18·6	21·4	57	.	6·2	..	11·1	0	3	27	2	0	1	0	0	8	12	7	1	0
	1730	"	1471·4	904·7		28·8	21·3	17·1	19·5	52	..	6·9	..	11·7	0	4	26	3	1	3	1	2	7	9	4	1	0
Bangalore Aerodrome	0530	897	1472·9	908·8	..	21·7	20·9	20·5	24·1	93	..	5·2	..	13·8	0	10	16	1	0	0	2	0	13	10	0	5	0
	0830	"	1492·2	910·3	..	24·0	21·8	20·8	24·6	83	..	5·8	..	15·2	0	8	23	1	0	1	1	3	5	18	2	0	0
	1130	"	1498·0	910·0	..	28·4	23·3	20·9	24·7	65	..	5·8	..	15·0	0	10	20	2	1	2	0	2	4	16	3	1	0
	1730	"	1470·5	907·1	..	29·2	22·9	19·7	22·9	60	..	6·4	..	16·7	0	11	19	1	3	4	0	2	7	11	2	1	0
	2330	"	1486·9	909·9	..	24·0	21·5	20·4	24·0	83	..	5·8	..	14·0	0	9	20	0	0	1	2	3	11	11	1	2	0
Mysore	0830	767	1003·2	924·3	−0·8	23·7	21·4	20·3	23·8	81	+6	5·0	+0·4	5·6	0	0	29	0	4	8	1	0	5	9	2	2	0
	1730	"	1003·3	921·5	..	29·8	21·8	17·5	20·0	49	..	5·8	..	6·2	0	0	27	0	5	17	0	1	0	3	1	4	0
Kerala																											
Calicut	0530	5	1007·4	1006·8	..	25·7	24·3	23·6	29·1	89	..	5·6	..	9·1	0	2	28	2	15	10	1	0	0	1	1	1	0
	0830	"	1009·1	1008·5	−0·2	27·5	25·0	23·9	29·7	82	+2	5·5	+0·5	9·9	0	2	27	3	5	8	0	0	1	1	11	2	0
	1130	"	1009·2	1008·6	..	29·5	26·0	24·5	30·7	75	..	5·8	..	13·4	0	4	27	2	3	2	2	3	1	10	8	0	0
	1730	"	1006·4	1005·8	..	29·3	26·0	24·6	30·9	76	..	6·2	..	15·1	0	8	23	2	1	3	0	0	1	6	18	0	0
	2330	"	1009·1	1008·5	..	26·7	24·8	24·0	29·8	86	..	5·3	..	11·8	0	6	22	3	6	8	1	0	1	2	7	3	0
Palghat	0830	97	1080·7	997·7	..	27·1	24·8	23·8	29·5	82	..	5·8	..	9·0	0	0	31	0	0	0	0	0	5	24	2	0	0
	1730	"	1005·5	994·7	..	29·6	25·2	23·1	28·4	70	..	6·9	..	13·3	0	5	26	0	0	0	0	0	10	16	5	0	0
Fort Cochin	0830	3	1009·2	1008·9	−0·4	27·6	25·6	24·7	32·8	85	+5	7·2	+2·2	6·3	0	0	31	6	6	1	2	2	6	4	4	0	0
	1730	"	1006·4	1006·1	..	28·3	25·8	24·7	31·1	82	..	7·3	..	8·3	0	0	30	1	0	0	2	1	2	12	12	1	0
Cochin (Naval Air Station)	0230	3	1007·9	1007·6	..	26·1	24·7	24·2	30·2	89	..	6·9	..	5·5	0	0	26	1	5	10	6	0	2	0	2	5	0
	0530	"	1007·8	1007·5	..	25·5	24·6	24·0	29·8	92	..	6·4	..	4·6	0	0	22	2	4	9	3	0	1	2	1	9	0
	0830	"	1009·2	1008·9	..	27·9	25·5	24·4	30·5	82	..	6·9	..	6·8	0	1	22	3	3	8	4	0	4	0	1	8	0
	1130	"	1009·3	1009·0	..	29·7	25·9	24·2	30·4	73	..	6·4	..	10·5	0	3	24	1	0	2	1	2	3	8	10	4	0
	1730	"	1007·0	1006·7	..	28·9	25·6	24·2	30·2	77	..	7·0	..	15·3	0	6	23	2	0	1	0	3	7	9	8	2	0
	*2330	"																									
Alleppey	0830	4	1009·0	1008·6	+0·1	28·2	26·2	25·3	32·2	85	+3	6·5	+0·1	6·7	0	1	27	2	4	7	4	0	3	2	6	3	0
	1730	"	1006·8	1006·4	..	29·4	26·3	25·1	31·9	78	..	6·6	..	18·5	0	12	19	1	0	0	0	0	0	7	26	0	0

*Data not available.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1008·9	1005·1	..	26·1	24·8	24·2	30·2	89	..	6·4	..	1·0	0	0	12	4	2	1	1	0	0	1	3	19	0
	1730	"	1006·3	1002·6	..	29·0	25·5	23·9	29·7	75	..	6·6	..	5·0	0	0	29	1	1	2	1	0	6	1	17	2	0
Trivandrum	0230	64	1007·4	1000·1	..	25·6	24·5	23·9	29.7	91	..	4·9	..	6·3	0	0	28	13	2	1	0	0	2	1	9	3	0
	0530	"	1007·7	1000·3	..	25·3	24·3	23·8	29·5	92	..	5·5	..	7·3	0	2	25	8	5	0	0	0	4	2	8	4	0
	0830	"	1009·3	1002·1	0	27·1	25·0	24·0	29·8	84	+3	6·0	+0.6	7·0	0	0	31	5	5	2	0	0	1	2	16	0	0
	1130	"	1012·0	1001·7	..	29·7	25·6	23·8	29·5	72	..	6·5	..	11·9	0	4	27	4	1	0	0	0	5	8	13	0	0
	1730	"	1006·8	999.6	..	28·0	25·1	23.8	29·5	78	..	6·6	..	12·3	0	6	25	0	1	1	0	0	5	8	16	0	0
	2330	"	1009·3	1002·0	..	25·9	24·5	24·0	29·8	89	..	6·2		7·0	0	1	29	8	6	1	0	1	0	1	13	1	0
Trivandrum Aerodrome	0830	8	1009·2	1008·3	..	28·0	25·8	24·9	31·4	84	..	6.3	..	6·3	0	0	27	12	1	1	0	0	1	3	8	4	1
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	"																									
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1415.7	798·3	+0.8	18·7	12·8	8·2	10·9	54	..5	..	..	1.7	0	0	9	0	3	2	3	0	1	0	0	22	0
	1730	"	1407·7	797.9	..	20·8	13·3	7·4	10·4	45	..	..	..	7.7	0	2	26	3	9	1	5	2	2	4	2	3	0
Dharmsala	0830	1211	..	..	..	24·9	15·6	9·0	10·9	37	0	3·0	+0.8	1·9	0	0	20	2	10	0	0	0	1	1	6	11	0
	1730	"	..	..	..	28·7	16·5	6·9	9·9	26	..	4·3	..	3·8	0	0	31	1	4	2	3	0	16	5	0	0	0
Simla	0830	2202	1457.9	780·4	—0·1	19·4	10·6	1·9	7·0	33	—2	1·4	—0.7	3·3	0	0	30	2	6	3	9	5	3	1	1	1	0
	1730	"	1440·8	779·2	..	20·5	11·9	3·5	7·9	34	..	3·0	..	3.3	0	0	31	5	2	1	2	8	8	2	3	0	0
Lokpal	0830	..	..	..	..	—1·3	—2·9	—5·0	4·0	73	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..																									
Joshimath	0830	..	..	..	..	19·1	11·9	6·0	9·3	44	..	2·2	..	7·9	0	2	29	2	8	19	1	0	1	0	0	0	0
	1730	..	..	..	..	22·1	12·8	5·3	8·9	35	..	5·8	..	6·3	0	0	31	6	5	4	2	4	6	2	2	0	0
Mussoorie	0830	2042	1452·2	794·4	—2.4	20·0	12·5	6·3	9·5	43	—2	2·0	—0·2	1·0	0	0	8	1	1	0	1	3	1	0	1	23	0
	1730	"	1434·1	793·1	..	21·3	12·9	5·9	9·3	38	..	4·3	..	2·0	0	0	17	4	2	0	1	5	3	0	2	14	0
Mukteswar (Kumaon)	0830	2311	3135·6	771·7	—0·1	17·5	10·5	4·0	8·1	43	—2	1·8	—0.2	9·4	0	2	23	0	2	2	1	0	1	9	10	6	0
	1730	"	3121.2	769·7	..	20·3	12·4	5·9	9·3	42	..	3·1	..	18·1	0	10	21	0	1	1	0	0	2	6	11	0	0
Nainital	0830	1953	1455·7	803·7	+1·1	20.7	13·1	6·9	10·1	42	—1	1.9	+0.1	5·7	0	0	28	2	8	5	4	0	0	5	4	3	0
	1730	"	1432·5	800·9	..	21.6	13·8	8.1	10·9	44	..	1·6	..	8·7	0	0	31	9	1	3	3	2	2	11	0	0	0
Walong (R)	0830																										
(R)	1730																										
Kalimpong	0830	1209	1485·3	877·6	+0·8	21·8	20·0	19·0	22·0	85	+6	1·5	—2·7	3·4	0	0	31	1	1	0	1	0	0	1	27	0	0
	1730	"	1479·5	877.1	.	22·5	20·4	19·2	22·2	82	..	1·6	..	3·0	0	0	31	0	0	0	31	0	0	0	0	0	0
Darjeeling	0830	2128	1496·5	779·9	+2.4	16·3	14·4	13·0	15·0	82	+2	5·3	—0·3	0·3	0	0		0	0	0	0	0	1	0	0	29	1
	1730	"	1456·2	786·5	..	16·7	14·9	13·9	15·9	83	..	3·9	..	1·5	0	0	9	0	0	0	0	0	2	2	2	22	3
Kohima	0830	1406	1532.6	861·5	..	20·9	17·7	15·8	17·9	74	..	6·0	..	..	..	..	..	5	3	1	8	0	4	2	8	0	0
	1730	"	1468.7	856·3	..	21.3	18·6	17·1	19·4	78	.	3·9	..	..	..	..	..	1	1	3	6	1	7	4	6	0	2
Shillong (R)	0830	1500																									
(R)	1730	"																									
Cherrapunji (R)	0830	1313																									
(R)	1730	"																									
Abu	0830	1195	1489·1	878·5	—0·7	24·3	15·3	8·1	10·9	37	+1	1·0	+0·2	2·4	0	0	19	0	0	0	0	0	8	10	1	12	0
	1730	"	1466·3	876.4	..	30·3	19·3	12·5	14·3	23	.	1·7	.	3·8	0	0	24	0	1	0	0	0	11	12	0	7	0
Ajal	0830	..	..	..	..	23·1	20·3	18·8	21·8	76	..	4·7	..	3·2	0	0	26	0	3	8	0	8	1	6	0	5	0
	1730	..	..	..	..	24·1	21·0	19·3	22·5	76	..	4·5	..	3·3	0	0	27	3	0	3	0	6	5	9	1	4	0
Pachmarhi	0830	1075	1489·5	890·9	—0.6	28·4	18·8	12·2	14·7	39	+4	3·4	+1·4	3·7	0	0	28	4	1	1	0	1	1	8	12	3	0
	1730	"	1462·2	887·5	..	33·3	20·4	11·5	14·5	30	..	5·5	..	2·5	0	0	26	1	2	0	0	3	3	5	12	5	0
Mahabaleshwar	0830	1382	1491·1	860·9	—1·0	22·1	17·7	14·6	16·6	66	+13	3·8	+0·9	7·3	0	0	30	6	5	3	3	1	1	5	6	1	0
	1730	"	1470·3	859·0	..	22·8	19·5	17·7	20·2	75	..	4·6	..	9·1	0	0	31	3	2	1	2	0	4	2	17	0	0
Mercara	0830	1152	1493·6	884·5	—0·4	20·4	18·8	18·0	20·6	87	+3	4·2	—0·9	4·6	0	0	31	1	8	9	0	1	0	6	6	0	0
	1730	"	1476·5	883·9	..	22·0	19·9	18·8	21·7	83	..	5·5	..	6·8	0	0	30	0	2	2	0	0	0	16	10	1	0

*Data given as addenda in December 1961, issue.

(R) Registers not received.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*contd.*																											
Ootacamund	0830	2249	1496·7	778·7	−9.6	15·0	13·1	11·6	13·7	81	+17	4·3	+0.4	3·6	0	0	22	4	0	4	1	3	5	4	1	9	0
	1730	,,	1476·8	777·3	..	16·4	14·4	13·4	15·4	83		7·0	..	4·5	0	0	22	3	4	2	1	1	5	5	1	9	0
Coonoor	0830	1747	1484·3	825·1	..	21·7	16·8	13·8	15·6	64	+7	4·2	0	2·8	0	0	28	0	0	0	14	0	6	0	8	3	0
Kodaikanal	0830	2343	3147·3	770·6	−0.2	15·6	13·1	11·4	13·5	77	+14	5·2	+1.6	14·3	0	7	21	6	2	1	1	1	3	7	7	3	0
	1130	,,	3159·0	770·9	.	18·2	14·5	12·1	14·1	68	..	6·2		18·1	0	12	18	3	5	0	3	1	3	7	8	1	0
	1730	,,	3130·7	769·0	.	15·4	14·0	13·1	15·1	87	..	7·2		10.3	0	5	15	3	2	0	3	1	2	4	5	11	0
Nepal																											
Katmandu	0830	1324	1463·6	863·9	..	22·4	17·1	13·5	15·7	58		1·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1453·8	862·8	..	28·4	18·1	10·8	13·2	35	..	2·6	..	1·5	0	0	12	2	0	0	1	2	2	3	2	19	0
	1730	,,	1431·2	860·6	..	25·6	18·0	13·1	15·1	48	..	3·9	.	2·1	0	0	18	3	0	0	0	1	0	6	8	13	0
Sikkim																											
Lachen	0830	..	.		.	13·1	10·7	9·3	11·4	77	..	..		.	..	..	..	.	.	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	33·1	22·3	15·8	17·9	37	..	1·2	.	..	0	0	29	0	0	8	4	0	1	8	6	2	2
	1730	..	..	..	..	36·6	21·2	10·2	13·8	23	..	2·2	.	..	0	0	29	5	1	3	3	0	0	4	13	2	0
Hazaribagh	0830	615	1001·6	935·8	..	31·8	21·5	15·3	18·1	40	..	2·0	.	..	0	0	29	1	0	3	0	1	9	8	7	2	0
	1730	,,	997·0	932·0	..	34·2	21·0	12·5	15·2	30	..	3·0	.	..	0	0	25	5	1	2	1	0	1	4	11	6	0
Konar	0830	..	.	..	..	.		..	.		..	2·3	.	.	0	7	24	0	0	9	4	0	0	16	2	0	0
	1730	..	..	..	..	..	.	..	..		..	3·5		..	0	9	21	1	0	7	2	1	1	4	14	1	0
Bokaro	0830	242	1002·7	976·2	..	33·5	23·5	18·3	21·0	42	..	2·1		.	0	0	24	1	0	5	3	1	8	2	4	7	0
	1730	,,	997·8	971·9	..	37·0	24·2	16·6	19·8	33	..	4·0	..	..	0	0	25	1	0	10	4	0	0	1	9	6	0
Maithon*	0830	..	..	..	..	..	..	..	.		..		..	..	.	..	.	..	..	.	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	.	..	..	.	..	..	..	..	..	..	.	..	..	..	.	..	..	..
Ramgarh	0830	..	..	..	..	33·3	24·3	19·4	23·4	45	..	2·4	..	3·2	0	0	23	1	1	8	1	0	2	8	2	8	0
	1730	..	..	..	..	37·8	24·2	16·3	19·0	31	..	5·0	..	3·1	0	0	27	1	6	6	1	0	1	1	11	4	0
Panchet Hills	0830	..	..	..	..	32·9	24·6	20·1	24·3	49	..	2·5	.	5·6	0	0	28	0	1	9	0	2	8	6	2	3	0
	1730	..	..	..	..	36·0	23·6	16·3	18·9	35	..	4·6	.	5·0	0	0	27	4	2	13	0	0	1	1	6	4	0
Durgapur	0830	..	..	.	..	31·1	26·2	24·0	29·8	67	..	3·0	..	..	0	0	31	2	3	2	6	8	4	3	3	0	0
	1730	.	..	..	..	31·8	25·7	21·3	25·2	48	..	3·4	..	..	0	0	31	0	1	2	6	13	2	3	4	0	0
Mahanadi Catchment																											
Sinhbhar	0830	..	..	..	..	32·3	22·8	17·3	20·0	43	..		..		.	.			.	..	..	..	.	..	..	..	..
Hirakud	0830	159	1003·5	986·1	..	33·6	24·2	19·3	22·9	43	..	1·9	..	6·0	0	0	30	0	1	0	6	0	29	0	3	1	0
	1730	,,	998·0	981·0	..	38·9	24·4	16·7	18·8	27	..	3·2	.	5·4	0	0	29	0	4	0	3	1	12	0	9	2	0
Bhimkund	0830	..	..	..		30·9	24·8	22·0	26·3	60	..	2·2	..	0·9	0	0	7	2	0	0	2	1	1	0	1	24	0
	1730	..	..			32·7	23·7	19·0	21·9	53	..	3·6	.	2·8	0	0	13	0	2	0	3	2	4	0	2	18	0
Sonepur	0830	..				34·1	25·3	20·9	25·0	49	..	.		8·1	0	0	31	1	3	1	3	3	16	3	1	0	0
Khijrawan	0830	..	..	..		32·5	23·5	18·5	21·6	43	..	3·8 (a)		3·7 (a)	0	0	28	0	0	0	1	2	6	19	0	3	0
	1730	..	..	..		35·3	23·0	15·5	18·1	33	..	4·7	.	4·9	0	0	25	1	1	0	3	5	4	8	3	5	0
Narmada Catchment																											
Bagra Tawa	0830		..			34·0	21·5	12·7	16·1	30	..	2·1	..	9·1	0	0	28	0	0	2	0	6	12	7	1	3	0
	1730			..	..	38·9	22·0	9·6	12·6	18	..	2·6	.	7·9	0	0	27	1	0	0	1	0	5	9	11	4	0
Punasa	0830		..	..	..	33·3	23·2	17·0	17·9	41	..	.	.	5·5	0	0	22	4	0	0	0	1	1	16	0	9	0
	1730		..	..	..	39·1	23·6	13·5	15·6	27	..		..	5·7	0	0	22	3	0	0	0	2	3	13	1	9	0
Thikri	0830		.		.	31·3	21·7	20·9	25·2	54	..	3·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830		.	.	.	33·3	23·9	19·0	22·0	44	..	..	..	..	..	..	..	..	..	..		..		..	..	..	..
	1730		..	.		38·6	25·0	17·6	20·1	29	..	.. (g)	..	..	..	..	..	..				..		.	..	..	..
Ganga Catchment																											
Mukhim	0830		..	..	..	19·4	12·2	6·3	9·5	44	..	1·7 (g)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	20·1	12·1	5·5	9·0	40	..	3·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Tehri	0830		..	..	..	24·0	16·4	10·6	12.8	45	..	1·5	..	1·5	0	0	13	6	3	2	0	0	1	0	1	18	0
	1130		..	..	..	31·7	18·4	8·8	11·3	26	..	2·0	..	4·2	0	0	26	5	3	6	2	1	1	2	6	5	0
	1730		..	..		33·0	18·2	6.5	9·7	22	..	4·2	..	10·9	0	0	28	3	0	4	2	5	2	9	2	3	1
Gandak Catchment																											
Jomosom	0830		.	..	..	17·5	11·1	6·4	9·6	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	16·4	12·1	9·3	11·7	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830		..	..	..	23·4	18·7	16·5	18·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	26·4	20·1	17·3	19·7	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830		..	..	..	21·5	14·4	9·5	11.9	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	22·9	15·3	10·3	12·5	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(g) Mean of 24 days. (a) Mean of 30 days. *Data not available.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—MAY, 1961 (VAISAKHA 11—JYAISTHA 10, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.* Gandak Catchments—*contd.*																											
Pokhara	0830	..	..	..	..	25·0	19·8	16·9	19·3	62	..	1·9	..	2·7	0	0	21	0	0	0	12	5	4	0	0	10	0
	1130	..	..	..	..	28·8	21·4	16·9	19·9	49	..	2·5	..	6·2	0	0	30	1	0	5	19	4	1	0	0	1	0
	1730	..	..	..	..	25·9	20·3	17·1	19·7	62	..	5·6	..	5·1	0	0	24	4	1	3	6	1	1	1	7	7	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	25·9	19·6	16·1	18·3	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·4	19·0	13·1	15·1	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment [*Trans Himalayan Region*]						..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dailekh [R]	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[R]	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment Mansiari [R]	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[R]	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dadeldhura	0830	..	..	..	..	20·0	13·1	7·6	10·7	45	..	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	14·3	8·6	11·1	43	..	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana*	0830	..	..	..	..	23·0	15·0	8·7	11·2	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·8	15·9	8·1	10·8	33	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	32·4	23·0	17·8	20·4	42	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	35·6	23·1	15·9	18·1	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment Katmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara	0830	..	..	..	..	21·4	16·8	14·2	16.2	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·1	17·1	12·3	14·3	45	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	18·2	15·4	14·2	16·2	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·8	15·4	14·4	16·4	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	11·6	8·5	6·0	9·3	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·2	8·9	7·9	10·7	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	21·6	17·1	14·2	16·2	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	17·6	15·3	17·4	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·9	17·7	16·0	18·2	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	17·3	15·7	17·8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	19·8	16·8	15·1	17·1	75	..	4·6	..	..	..	..	..	1	0	0	0	0	1	0	0	29	0
	1130	..	..	..	..	22·2	17·6	15·1	17·1	65		3·6	..	..	..	..	..	0	0	0	0	3	8	9	1	10	
	1730	..	..	..	..	19·4	16·4	14·7	16·7	75	..	6·4	..	..	..	..	..	1	1	2	1	9	2	1	0	14	0
Okhaldhunga	0830	..	..	..	..	20·5	16·7	14·5	16·5	70	..	2·9	..	1·8	0	0	13	1	5	0	1	0	3	2	1	18	0
	1130	..	..	..	..	22·8	17·2	14·0	16·0	58	..	3·6	..	6·8	0	0	25	1	0	0	1	7	2	12	1	6	0
	1730	..	..	..	..	19·6	16·2	14·2	16·2	72	..	5·2	..	12·5	0	5	23	3	0	2	0	4	3	13	3	3	0
Chainpur	0830	..	..	..	..	23·1	19·2	17·1	19·5	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·8	18·9	16·7	19·0	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	21·7	19·3	18·0	20·6	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·3	18·8	16·2	18·4	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1003·9	987·7	..	29·4	23·3	20·2	23·7	58	..	3·6	..	6·0	0	0	31	2	5	2	4	0	10	1	7	0	0
	1130	,,	1002·7	986·7	..	32·6	25·1	21·5	25·6	52	..	4·6	..	10·5	0	0	31	0	0	0	0	0	27	1	3	0	0
	1730	,,	999·2	983·2	..	32·3	24·6	20·6	24·3	52	..	4·6	..	4·3	0	0	30	1	2	1	4	2	14	3	3	1	0
Tista Catchment Gangtok	0830	1812	1466·8	816·8	..	17·5	15·7	14·6	16.7	84	..	5·3	..	0·7	0	0	5	1	3	0	1	0	0	0	0	26	0
	1130	,,	1456·2	816·1	..	20·6	17·7	16·0	18·3	76	..	5·3	..	2·0	0	0	14	0	1	0	1	5	7	0	0	17	0
	1730	,,	1436·1	813·9	..	17·7	16·1	15·2	17·3	86	..	7·1	..	1·5	0	0	12	1	3	1	4	2	1	0	0	19	0
Gezing	0830	..	..	..	..	19·9	17·7	16·5	18·8	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	17·8	16·6	18.9	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received.

†Data included under "Nepal".

*Observations for 30 days.

MONTHLY MEANS OF UPPER WINDS

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

No.	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (IST)			
1.	Agartala	23°53′	91°15′	17	28th Nov. 1951	0530	1130	1730	2330
2.	Ahmedabad	23°04′	72°38′	61	19th May 1928	0530	1730	2330	
3.	Amausi	26°45′	80°53′	133	20th Nov. 1950	0530	1730	2330	
4.	Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1730	2330	
5.	Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530	1730	2330	
6.	Asansol	23°41′	86°59′	135	29th May 1942	0530	1130	1730	2330
7.	Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1130	1730	2330
8.	Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530	1730	2330	
9.	Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
10.	Bamrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1130	1730*	2330
11.	Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
12.	Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530	1730		
13.	Begumpet	17°27′	78°28′	543	1st Sep. 1929	0530	1730	2330	
14.	Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1130	1730	
15.	Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1130	1730	2330
16.	Bhuj	23°15′	69°48′	90	14th Sep. 1937	0530	1730	2330	
17.	Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530	1730	2330	
18.	Chikalthana	19°51′	75°24′	583	7th Oct. 1951	0530	1730	2330	
19.	Cochin†	09°56′	76°14′	13	16th Mar. 1942	0530	1730	2330	
20.	Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
21.	Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530	1730		
22.	Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
23.	Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
24.	Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530	1730	2330	
25.	Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
26.	Gaya	24°45′	84°57′	119	19th Mar. 1937	0530	1130	1730	2330
27.	Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530	1730	2330	
28.	Gorakhpur	26°45′	83°22	83	5th Jan. 1943	0530	1730		
29.	Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
30.	Imphal	24°51′	93°58′	805	8th Mar. 1952	0530	1130	1730	2330
31.	Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
32.	Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530	1730	2330	
33.	Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
34.	Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1130	1730	
35.	Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
36.	Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
37.	Madras	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38.	Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1730	2330	
39.	Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
40.	Nagpur	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41.	Nanpara	27°50′	81°30′	142	23rd Apr. 1957	0530	1730		
42.	New Delhi	28°35′	77°12′	227	20th Oct. 1936	0530*	1130	1730*	2330
43.	Poona	18°32′	73°51′	593	5th Jan. 1925	0530	1730	2330	
44.	Port Blair	11°40′	92°43′	93	29th Oct. 1945	0530*	1130	1730*	2330
45.	Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
46.	Raxaul	26°59′	84°51′	83	28th Oct. 1957	0530	1130	1730	
47.	Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
48.	Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
49.	Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
50.	Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
51.	Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530	1730	2330	
52.	Veraval	20°54′	70°22′	17	13th Oct. 1941	0530*	1130	1730*	2330
53.	Visakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·2	1·3	155	31	4·3	2·4	169	31	3·7	1·8	195	31	3·3	2·2	175	31	2·4	2·0	278	31	4·1	3·4	262
0·15 a. g. .	28	5·6	3·8	150	29	5·8	4·0	171	29	6·2	3·6	170	26	6·7	5·5	180	31	5·7	5·0	278	31	5·3	4·4	263
0·3 a. m. s. l. .	28	6·8	4·6	169	29	5·7	3·6	173	29	6·5	4·5	172	26	7·0	6·3	186	31	6·7	5·8	285	31	5·7	4·8	260
0·6 ,, .	28	7·3	3·8	181	29	6·3	4·2	170	29	6·8	5·2	183	26	6·9	6·1	198	31	8·1	7·0	293	31	5·9	4·8	261
0·9 ,, .	26	7·1	4·2	200	25	5·9	3·2	167	29	6·4	4·8	192	22	6·7	5·8	203	31	7·6	6·7	295	31	6·3	5·3	260
1·5 ,, .	24	7·0	4·6	251	15	6·1	1·7	227	29	4·9	3·3	233	20	5·7	4·6	225	30	6·3	5·3	280	31	6·4	5·7	265
2·1 ,, .	23	7·8	5·9	257	8	8·1	3·2	253	27	6·9	5·0	269	19	6·3	4·6	250	28	5·5	4·5	272	30	6·1	5·7	275
3·0 ,, .	19	8·2	6·6	275	1	6·5	6·5	145	21	8·5	7·3	280	14	6·6	4·3	280	24	4·6	3·3	250	30	5·9	5·0	275
3·6 ,, .	16	8·7	7·1	280					19	9·6	7·4	258	4	5·9	4·2	246	6	6·3	3·7	215	28	5·4	3·4	278
4·5 ,, .	11	8·7	5·8	285					12	9·9	7.3	284	1	9·0	9·0	255					28	6·1	3·1	277
5·4 ,, .	5	6·4	5·0	260					8	9·3	8·8	290									25	8·4	5·3	275
6·0 ,, .	5	7·2	5·7	259					6	8·5	8·3	282									24	9·1	6·9	281
7·2 ,, .	1	8·0	8·0	185					4	13·3	13·1	270									16	10·3	7·7	284
9·0 ,, .	1	13·0	13·0	180					1	12·0	12·0	245									4	17·9	13·2	279

Station	AHEMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	3·3	2·6	253	31	2·5	0·5	350	31	3·8	3·0	309	31	2·4	0·9	225	31	1·4	0·6	337	31	3·2	2·1	310
0·15 a. g. .	31	8·0	6·9	263	31	7·1	2·1	309	31	5·2	4·2	311	31	7·9	3·3	333	31	7·0	3·7	342	31	7·2	5·2	312
0·3 a. m. s. l. .	31	9·2	8·1	268	31	7·3	2·0	310	31	5·2	4·3	307	31	7·9	3·3	330	31	3·0	1·4	001	31	4·5	3·1	312
0·6 ,, .	31	9·2	8·4	276	31	7·1	2·8	295	31	5·9	5·4	305	31	7·1	3·8	320	31	7·2	4·0	333	31	7·4	5·6	310
0·9 ,, .	31	8·3	7·6	279	31	6·7	4·3	293	31	6·4	5·7	304	31	6·8	5·0	305	31	7·3	4.4	326	31	7·4	5·6	308
1·5 ,, .	31	5·5	4·7	281	31	6·5	5·5	298	31	7·0	6·3	297	28	7·9	6·5	298	31	7·0	4·6	317	31	7·6	5·2	305
2·1 ,, .	28	4·0	2·5	274	30	7·7	7·4	296	30	8·3	7·6	293	25	8·0	7·1	299	30	8·3	4·9	309	28	7·8	5·1	303
3·0 ,, .	25	4·1	1·8	264	25	9·0	8·3	296	26	10·6	10·0	280	17	9·9	7·8	286	29	10·6	7·2	303	25	9·4	7·9	302
3·6 ,, .	4	5·9	1·5	196	14	9·0	7·9	286	24	12·1	11·2	282	2	11·3	10·9	305	20	11·7	8·9	297	23	11·2	4·6	299
4·5 ,, .					7	12·1	10·3	290	19	13·7	12·9	285					12	9·4	6·0	296	19	11·3	9·6	289
5·4 ,, .					4	13·1	12·0	276	15	13·9	13·2	283					6	9·0	7·6	282	11	10·9	9·9	302
6·0 ,, .					2	16·5	15·1	271	11	13·8	13·2	280					4	9·3	5·5	262	10	11·3	10·2	292
7·2 ,, .									7	11·1	10·3	277					3	8·8	4·2	325	3	10·0	7·2	301
9·0 ,, .									1	15·5	15·5	250									1	32·0	32·0	300

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·2	324	31	3·7	2·7	254	31	4·3	1·7	287	31	5·2	3·2	248	31	1·3	0·7	149	31	2·1	0·4	137
0·15 a. g.	31	10·2	7·0	330	31	6·6	5·2	257	30	5·3	1·8	089	29	7·6	4·5	238	30	4·8	1·8	193	31	4·4	0·5	146
0·3 a. m. s. l.	31	4·4	2·6	323													30	5·1	2·2	211	31	4·5	0·4	201
0·6 ,,	31	10·6	7·2	330	31	7·2	5·7	261	30	5·3	2·2	269	29	8·1	4·6	240	30	7·1	4·3	235	31	4·6	0·1	096
0·9 ,,	31	9·9	6·6	324	31	8·0	5·8	269	30	5·3	2·2	269	29	8·1	4·4	240	29	7·1	4·4	256	31	5·0	1·3	270
1·5 ,,	31	8·7	5·7	317	31	6·6	4·2	272	30	5·3	1·5	281	28	5·9	2·3	239	29	6·5	4·4	281	30	6·0	4·2	284
2·1 ,,	30	8·0	5·2	324	30	6·2	1·5	282	30	5·2	0·5	307	29	5·1	0·2	212	28	7·4	6·4	305	27	7·1	6·3	296
3·0 ,,	25	8·5	6·4	297	31	6·6	2·1	088	30	5·9	1·1	058	28	5·5	0·4	082	24	11·4	10·5	304	15	8·9	8·0	298
3·6 ,,	5	9·5	7·2	278	29	7·7	4·3	091	27	6·1	2·5	098	27	6·0	1·7	113	18	13·2	12·3	305				
4·5 ,,	2	3·0	2·5	234	23	7·3	3·4	092	21	4·7	2·7	093	17	5·9	2·2	100	10	13·0	11·9	305				
5·4 ,,					20	6·1	3·1	133	19	5·6	1·5	135	13	5·7	2·1	038								
6·0 ,,					16	5·4	1·9	150	17	6·0	1·2	217	11	5·5	1·5	287								
7·2 ,,					10	7·7	4·2	225	15	6·7	3·8	211	3	5·2	5·1	263								
9·0 ,,					8	5·7	2·9	234	9	7·4	4·4	195												

Station	ASANSOL								BAGHDOGRA															
Time in I. S. T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·1	121	31	2·2	1·7	157	31	2·8	2·2	061	31	3·9	3·4	096	31	2·9	2·3	084	31	2·6	2·1	062
0·15 a. g.	31	6·1	2·1	126	31	6·8	5·0	170	29	5·7	4·6	076	31	4·6	4·3	105	30	4·6	3·7	081	29	4·9	4·6	070
0·3 a. m. s. l.	31	6·5	2·0	122	31	7·0	5·2	174	29	5·8	4·8	082	31	4·7	4·1	105	30	4·5	3·8	082	29	5·0	4·6	073
0·6 ,,	31	6·3	0·7	154	31	8·1	5·6	185	29	6·1	5·3	080	31	4·9	4·6	103	30	3·9	3·2	094	29	5·3	4·8	089
0·9 ,,	31	5·5	1·0	308	31	7·1	4·0	196	27	5·0	4·0	090	28	4·9	4·5	101	30	3·5	2·3	105	26	4·8	3·9	098
1·5 ,,	31	5·1	3·2	306	31	4·6	2·1	262	23	4·6	1·1	113	19	5·2	2·9	083	29	4·3	2·0	235	23	3·6	0·6	136
2·1 ,,	30	7·1	6·1	309	30	6·2	5·1	123	19	5·3	3·2	284	10	5·1	1·3	274	26	7·4	6·1	266	19	5·6	3·4	276
3·0 ,,	27	11·2	10·3	306	28	10·9	9·6	296	14	8·6	7·1	286	5	6·2	4·5	287	17	7·8	6·6	280	12	6·5	4·1	286
3·6 ,,	20	12·6	11·7	298	18	13·4	12·2	303	11	9·2	7·2	288					13	6·3	5·7	295	6	8·0	7·2	280
4·5 ,,	14	12·3	11·2	294	11	10·6	7·5	305	7	9·2	8·5	279					8	7·7	7·2	283	1	3·0	3·0	290
5·4 ,,	5	13·4	13·2	283	1	7·0	7·0	210	3	5·3	5·0	266					4	9·1	8·5	276				
6·0 ,,	3	12·0	11·5	272	1	12·0	12·0	200	3	13·0	9·2	249					4	8·0	7·4	263				
7·2 ,,									2	19·2	17·1	249					3	11·1	10·3	275				
9·0 ,,																	1	14·5	14·5	275				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·2	2·4	289	31	3·9	2·5	279	31	3·9	2·4	271	31	1·7	0·8	082	31	3·3	2·2	272	31	2·0	0·1	182
0·15 a. g.	31	8·4	6·0	284	30	4·9	3·1	278	31	8·3	5·0	269	29	4·3	1·2	030	28	5·9	4·6	265	29	5·0	1·5	290
0·3 a. m. s. l.													29	4·4	0·9	338	28	6·2	4·7	266	29	5·3	2·1	275
0·6 ,,	31	7·1	5·0	279	30	4·9	3·0	280	31	7·8	4·7	263	27	5·8	3·0	305	28	6·1	4·3	275	28	5·7	3·2	275
0·9 ,,	31	9·0	6·6	309	30	5·0	3·4	278	31	8·1	4·9	280	26	6·1	4·5	309	27	5·1	2·9	279	28	6·2	4·0	274
1·5 ,,	31	7·5	5·7	316	30	5·0	3·8	272	31	6·9	5·0	283	23	7·0	4·8	312	24	6·0	2·8	296	26	6·1	3·3	276
2·1 ,,	30	5·1	3·5	323	30	5·3	4·1	274	30	5·2	3·9	305	21	7·1	3·6	341	20	5·8	1·5	329	21	6·0	0·8	241
3·0 ,,	29	4·4	2·5	296	27	6·1	4·2	280	28	4·3	2·6	301	17	6·8	3·1	112	17	6·4	1·1	309	15	7·2	1·1	068
3·6 ,,	23	4·2	2·2	268	22	5·8	4·8	289	5	5·4	3·5	291	13	6·7	3·1	116	16	6·2	2·6	125	12	5·5	3·3	075
4·5 ,,	19	6·2	5·1	254	17	6·0	4·9	273					10	5·5	3·1	139	14	5·1	2·9	157	9	6·2	1·6	170
5·4 ,,	15	8·4	6·7	272	10	7·3	5·6	274					6	3·9	2·4	185	12	6·5	3·1	195	6	5·3	2·6	215
6·0 ,,	12	7·5	6·0	276	7	8·8	7·4	276					6	7·3	4·3	228	12	7·6	4·1	209	4	5·8	3·2	227
7·2 ,,	7	11·9	10·3	259	3	7·7	6·3	263					4	8·9	8·5	240	10	10·2	9·1	217				
9·0 ,,	5	14·9	14·7	255	1	8·0	8·0	245					1	4·0	4·0	230	6	9·8	8·0	197				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·7	300	31	3·0	1·4	293	29	2·8	2·1	319	31	1·0	0·2	316	31	2·7	2·2	264	31	3·0	1·6	258
0·15 a. g.	31	6·3	2·3	263	31	4·3	2·0	299	29	6·1	5·3	315	31	6·5	2·3	340	27	6·8	5·6	263	31	6·2	3·1	256
0·3 a. m. s. l.	31	6·1	2·4	264	31	4·2	2·0	299	29	6·1	5·3	315	31	6·5	2·2	331								
0·6 ,,	31	5·6	3·1	285	31	4·5	3·1	294	29	6·3	5·4	320	31	6·5	3·4	328								
0·9 ,,	31	6·1	4·7	290	30	4·8	3·1	293	29	6·1	5·5	315	31	5·7	3·8	322								
1·5 ,,	30	6·5	5·6	291	29	6·0	5·2	292	29	6·3	5·9	306	31	6·2	5·3	311	26	8·3	6·2	269	30	7·3	3·7	266
2·1 ,,	29	7·2	6·7	294	29	7·0	6·3	289	29	7·0	6·6	300	28	7·0	6·6	300	24	6·2	2·7	292	28	7·3	3·4	282
3·0 ,,	29	9·0	8·6	292	29	8·6	7·9	290	29	9·2	8·6	287	12	6·6	6·1	282	23	5·1	1·5	082	24	7·0	1·1	293
3·6 ,,	29	9·5	8·9	287	28	9·4	8·6	291	29	10·3	9·9	283	7	7·6	7·1	283	23	5·4	2·2	108	21	6·8	0·4	127
4·5 ,,	28	11·6	11·1	286	24	11·5	10·5	287	29	12·6	12·4	280	2	10·3	10·1	281	23	5·4	2·9	138	11	5·3	1·7	160
5·4 ,,	28	10·8	10·0	275	23	12·5	11·6	275	29	12·8	12·2	274					23	5·9	3·3	176	9	4·4	1·3	236
6·0 ,,	27	11·5	10·6	272	17	13·8	13·2	273	29	13·3	12·8	268					19	5·6	3·4	207	8	5·1	2·9	252
7·2 ,,	27	14·5	14·1	265	9	17·9	17·0	252	28	15·5	14·3	265					18	6·3	5·0	208	5	8·2	7·6	228
9·0 ,,	23	18·6	17·7	255					22	20·2	19·1	254					15	5·7	3·0	203	2	9·3	8·7	226

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·2	2·2	244	31	1·8	0·4	341	31	2·3	1·5	284	31	2·4	1·2	274	31	3·2	0·6	239	31	2·4	1·0	229
0·15 a. g.	25	7·5	5·1	226	31	7·2	2·2	348	31	6·2	4·9	295	28	5·1	2·8	272	31	4·4	1·2	240	31	5·8	2·1	218
0·3 a. m. s. l.					31	5·6	2·2	334	31	5·8	4·4	294												
0·6 ,,					31	7·0	4·5	327	31	7·2	5·7	296	28	3·9	2·0	271	31	4·5	1·1	231	31	4·2	1·5	220
0·9 ,,					31	7·3	4·3	314	31	7·2	5·6	294	28	6·6	3·8	290	31	4·5	1·0	256	31	6·5	2·1	197
1·5 ,,	25	8·9	6·4	239	31	7·1	5·0	295	31	7·7	6·8	298	28	6·5	3·7	290	31	4·2	0·3	343	31	5·9	1·8	197
2·1 ,,	25	6·6	3·0	264	31	7·3	6·1	292	31	8·6	7·7	296	28	4·7	0·8	271	30	5·1	1·5	013	30	4·4	0·7	190
3·0 ,,	24	6·4	2·1	337	30	8·8	5·5	302	30	9·5	8·0	299	28	5·3	2·5	093	29	4·9	1·6	054	29	4·6	2·0	057
3·6 ,,	20	6·4	1·3	026	25	9·5	8·3	288	30	10·1	9·3	292	27	6·1	3·2	093	28	4·5	2·1	109	22	4·6	2·2	073
4·5 ,,	11	5·5	2·2	093	16	10·5	9·3	279	26	11·0	9·9	283	24	6·6	3·1	091	21	4·2	1·3	111	13	4·7	2·0	091
5·4 ,,	7	5·0	0·2	264	6	8·0	6·8	257	23	11·7	10·1	283	20	6·0	1·3	124	17	4·7	0·9	240	4	3·7	1·6	302
6·0 ,,	5	5·1	4·0	257	4	9·9	9·0	243	21	11·9	10·4	281	19	6·2	1·7	193	15	4·7	1·8	220	1	4·5	4·5	265
7·2 ,,					1	5·0	5·0	330	18	12·1	10·1	283	13	5·9	2·7	188	11	6.9	5·2	241				
9·0 ,,					1	15·5	15·5	265	5	17·5	16·2	271	7	7·1	4·5	193	7	6·5	4·1	203				

Station	BHAGALPUR												BHUBANESHWAR											
Time in I. S. T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	2·1	093	31	2·4	1·1	052	31	3·1	1·2	060	31	3·4	2·7	214	31	4·5	3·0	235	31	6·0	5·0	206
0·15 a. g.	31	6·1	4·3	098	30	4·0	2·1	071	31	5·4	2·4	059	31	6·6	5·4	210	31	6·5	4·6	216	29	8·8	8·0	191
0·3 a. m. s. l.	31	6·6	3·5	121	30	4·2	2·2	076	31	5·6	2·4	050	31	7·4	5·8	230	31	6·4	4·2	221	29	8·5	7·5	196
0·6 ,,	31	6·0	2·6	172	31	4·7	2·0	088	31	5·5	1·5	016	31	6·7	5·6	238	31	6·1	3·9	231	29	6·4	4·7	211
0·9 ,,	31	6·8	2·7	224	31	5·0	0·7	141	31	5·1	1·5	319	30	16·3	4·9	251	31	6·5	3·7	254	29	4·8	2·7	240
1·5 ,,	29	6·1	3·9	275	30	6·4	3·9	268	30	6·0	4·9	283	27	5·2	3·1	285	26	7·7	5·5	310	29	4·3	3·0	312
2·1 ,,	27	8·1	6·8	297	25	7·3	6·3	284	28	8·7	8·1	289	27	5·4	3·4	312	17	6·7	3·7	305	27	5·1	3·9	333
3·0 ,,	25	11·0	10·0	299	16	9·4	7·9	308	28	12·1	11·5	292	27	5·9	1·0	333	6	5·6	4·6	337	24	6·8	4·8	338
3·6 ,,	20	12·6	11·7	299					26	12·3	11·9	291	24	5·6	4·1	346					20	6·1	4·6	330
4·5 ,,	13	11·3	10·8	297					22	13·4	13·0	290	14	5·0	3·9	307					15	5·8	4·1	328
5·4 ,,	5	9·2	7·3	271					19	13·1	12·5	283	11	5·4	3·9	310					12	6·7	5·9	300
6·0 ,,	4	10·2	9·9	252					16	14·3	13·8	280	9	5·0	4·3	285					7	8·4	8·3	299
7·2 ,,	4	14·0	13·3	240					9	16·4	16·1	267	3	5·3	5·3	230					5	8·4	7·6	271
9·0 ,,									6	20·2	19·3	243									2	7.3	5.9	209

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

May 1961 (Vaisakha 11 —Jyaistha 10, 1883 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·5	4·2	219	31	4·0	3.7	249	31	6·7	6·3	261	31	5·0	4·6	243	31	2·1	0·9	190	31	2·0	0 6	248
0·15 a. g.	29	9·4	7·4	204	31	7·4	6·9	255	31	9·1	8·8	253	31	7·2	6·9	247	31	9·5	4·8	224	31	4·8	1·5	257
0·3 a. m. s. l	29	9·6	7·2	212	31	8·2	7·5	257	31	9·4	8·9	254	31	8·0	7·5	250	31	5·0	3·3	219	31	4·5	1·3	267
0·6 ,,	29	8·9	7·0	215	31	10·0	9·4	268	31	9·5	9·2	257	31	9·5	9·1	262	31	6·7	5·8	249	31	5·3	1·9	259
0·9 ,,	29	7·5	5·6	220	28	8·9	8·4	272	30	8·8	8·5	261	31	8·6	7·9	269	31	8·6	5·3	249	31	4·9	2·2	259
1·5 ,,	26	5·3	2·7	247	26	8·1	7·0	269	29	8·4	7·7	265	31	6·5	5·6	271	31	6·8	5·1	253	29	4·5	2·5	265
2·1 ,,	22	5·6	2·8	317	23	6 6	5·0	255	29	7·2	6·1	267	31	5·9	4·7	274	31	6·7	4·5	267	27	5 0	3·4	267
3·0 ,,	13	6·3	4·2	333	16	6·0	3·8	244	28	7·3	5·4	266	26	5·6	3·1	255	23	5·7	3·6	298	23	5·9	4·9	260
3·6 ,,	4	7·4	7·3	360	2	6·5	5·5	244	28	7·1	4·8	265	10	5·9	1·8	247	16	6·8	5·0	305	18	6·4	5 2	257
4·5 ,,	2	7·3	7·0	328					27	7·9	5·2	256	5	6·6	2·4	002	10	7·7	5·3	313	13	6·8	4·8	281
5·4 ,,									24	9·5	4·8	264					3	9·5	7·5	299	8	7·2	5·8	283
6·0 ,,									23	8·9	4·8	280									4	5·7	5·4	279
7·2 ,,									11	9·7	5·5	293												
9·0 ,,																								

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·1	183	31	3·9	3·6	270	31	4·3	1·7	320	31	4·5	3·5	277	31	1·2	0·6	072	31	2·7	2·0	268
0 15 a. g.	30	8·2	2·1	194	30	7·9	7·1	277	29	6·1	2·4	320	31	7·7	5·9	284	26	2·8	1·1	066	26	4·7	3·9	279
0·3 a. m. s. l.	30	6·1	1·4	180													26	3·1	1·1	321	26	5·1	4·2	274
0·6 ,,	30	8·6	2·6	211													26	4·9	3·8	292	26	6·4	5·4	281
0·9 ,,	30	7·6	2·9	229	30	8·6	7·4	293	29	5·7	2·1	327	31	8·1	6·4	302	26	5·9	4·9	288	26	6·4	5·2	286
1·5 ,,	28	5·4	3·2	255	29	7·4	5·2	318	29	4·3	2·7	335	31	8·2	6·2	311	24	5·6	4·7	281	25	6·0	4·2	293
2·1 ,,	25	4·7	3·9	288	27	4·6	2·7	344	27	4.8	3·4	330	27	5·4	3·0	349	21	5·7	4·0	287	25	6·4	3·7	290
3·0 ,,	20	6·7	5·5	298	25	4·1	1·4	056	16	5·4	3·3	348	23	4·8	2·6	081	15	5·6	2·4	351	19	5·1	2·1	328
3·6 ,,	2	10·0	10·0	346	12	4·5	1·9	149	11	5·8	1·6	324	17	5·1	2·0	120	10	4·4	1·5	338	14	4·7	2·5	289
4·5 ,,									3	6·7	6·4	219	9	5·0	1·4	167	8	3·4	1·2	269	8	5·1	2·5	341
5·4 ,,									3	7·5	7·3	228					7	5·7	1·8	116	4	4·7	0·5	155
6·0 ,,									1	8·5	8·5	220					6	5·3	2·7	234	2	7·7	7·2	230
7·2 ,,																	5	7·8	5·4	215	1	16·0	16·0	235
9·0 ,,																	3	6·7	6·0	210	1	13·0	13·0	225

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

May 1961 (Vaisakha 11—Jayistha 10, 1883 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I.S.T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·6	112	31	0·0	0·0	000	31	0·4	0·4	209	31	0·6	0·3	037	31	2·5	1·9	271	30	1·5	1·2	192
0·15 a. g.	25	3·5	0·6	289	6	2·1	1·5	105	4	6·5	5·4	193	31	1·8	1·2	052	31	4·9	3·7	273	30	5·8	4·5	203
0.3 a. m. s. l.	25	3·8	1·6	282																	30	6·4	5·1	217
0·6 ,,	25	5·3	4·1	284																	30	6·7	5·2	226
0·9 ,,	25	6·3	5·2	287									31	1·9	1·3	063	31	5·1	4·0	271	30	6·2	4·7	243
1·5 ,,	23	6·0	5.1	285									31	2·6	0·4	268	31	5·0	4·1	274	30	5·5	3·8	276
2·1 ,,	14	4·9	1·8	289									31	4·5	2·5	279	31	5·0	4·1	281	30	5·6	4·1	294
3·0 ,,	11	6·0	3·0	025	6	6·4	6·1	265	2	1·7	0·3	198	30	5·5	4·0	287	31	4·9	3·0	293	30	8·6	7·1	310
3·6 ,,	6	4·9	1·7	355	5	8.4	8·3	275	2	1·7	1·7	358	28	6·4	5·0	294	28	5·7	3·6	300	30	9·5	8·4	311
4·5 ,,	6	4.3	2.7	267	3	7·7	7·7	291	2	3·0	0.3	191	27	7·1	5·8	288	27	6·1	4·2	301	26	8·5	7·3	299
5·4 ,,					2	5·7	4·3	325	2	6.7	2.7	163	19	6·9	5·5	281	24	8·0	6·6	294	26	8·6	7·3	281
6·0 ,,					2	10·0	2·6	278	1	8.0	8.0	205	24	8·4	7·0	280	24	7·9	8·1	289	29	9·4	8·0	267
7·2 ,,					1	5·5	5·5	025	1	7.0	7.0	255	1	7·0	7·0	315	13	12·8	10·3	287	29	11·1	9·2	258
9·0 ,,					1	9·0	9·0	255	1	25.0	25·0	270					4	14·9	12·3	282	26	11·8	10·1	248

Station	DUM DUM												GADAG											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·8	167	30	2·9	1·6	176	31	2·9	2·4	173	31	3·9	2·8	252	31	4·3	1·4	222	31	4·9	3·3	248
0·15 a. g.	30	4·7	3·1	188	30	6·9	4·3	181	30	7·5	6·3	186	30	6·9	4·9	256	30	6·7	2·3	231	29	9·3	6·8	246
0·3 a. m. s. l.	30	4·9	3·3	195	30	6·6	4·2	183	30	8·5	7·8	194												
0·6 ,,	30	4·9	2·8	216	30	5·8	3·3	171	30	9·5	8·3	200												
0·9 ,,	27	5·0	2·4	241	30	5·4	2·1	218	28	7·5	5·8	208	30	8·0	4·9	281	30	6·9	2·8	240	29	10·4	7·3	258
1·5 ,,	22	6·4	3·9	293	30	5·0	3·0	307	27	5·5	3·1	253	30	6·6	3·1	311	29	7·0	1·7	260	28	7·6	3·8	276
2·1 ,,	21	7·0	4·7	296	29	6·4	5·0	303	21	6·1	4·3	310	27	5·3	1·6	024	27	5·2	0·4	064	27	6·1	1·5	072
3·0 ,,	16	8·8	8·3	306	29	9·8	7·9	321	13	9·5	7·7	325	25	4·9	2·7	104	24	6·1	2·3	082	25	6·8	4·6	105
3·6 ,,	14	11·1	8·4	319	28	10·3	8·4	314	8	10·3	8·9	326	23	5·6	4·0	113	20	6·5	3·6	084	20	5·5	3·7	119
4·5 ,,	11	11·0	9·8	308	28	10·5	8·9	298	2	13·0	12·9	010	18	6·1	4·3	133	14	5·6	4·1	096	13	5·0	2·7	129
5·4 ,,	8	10·9	10·0	294	28	8·8	7·2	286	2	5·5	5·3	042	16	5·6	3·4	161	12	5·6	3·3	100	11	5·5	1·0	172
6.0 ,,	5	10·8	9·1	275	28	9·2	7·5	275	2	5·7	5·1	113	14	6·4	3·3	166	11	6·9	2·1	127	6	6·6	2·9	219
7.2 ,,	3	13·5	13·2	267	28	10·3	9·4	261	2	7·5	5·8	119	12	9·1	6·1	207	9	7·4	2·0	166	3	7·2	6·3	228
9·0 ,,	1	21·0	21·0	210	28	11·6	10·0	248	1	8·5	8·0	205	11	8·2	4·8	219	4	4·1	2·6	097				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0·4	239	31	3·4	1·2	200	31	3·0	2·2	162	31	1·2	0·7	055	31	2·6	2·0	031	31	1·7	1·4	049
0·15 a. g.	30	4·8	2·2	227	31	5.1	2·2	193	31	6·4	4·9	169	31	3·5	2·1	069	30	4·1	3·5	048	31	4·2	3·8	058
0·3 a. m. s. l.	30	6·0	3·8	230	31	5·3	2·4	193	31	7·2	5·3	177	31	3·8	2·2	067	30	4·4	3·5	058	31	4·0	3·6	060
0·6 ,,	30	7·3	4·8	235	31	4·8	2·3	199	31	7·2	4·8	184	31	4·2	1·9	070	29	4·5	2·7	070	31	3·6	2·5	080
0·9 ,,	29	7·1	4·2	240	31	4·3	1·3	230	31	6·1	3·4	197	31	4·6	0·3	078	29	5·1	1·5	110	31	4·1	1·0	119
1·5 ,,	28	4·9	1·4	230	31	3·6	1·2	308	31	4·9	1·0	231	31	6·9	3·5	244	27	7·6	3·5	201	31	6·5	3·0	195
2·1 ,,	28	3·6	0·8	114	30	5·1	1·3	359	29	4·5	1·0	060	30	9·3	7·1	253	22	9·5	6·4	231	31	8·4	6·0	249
3·0 ,,	27	4·3	2·3	072	27	5·0	3·0	070	26	4·3	1·8	079	30	9·9	8·1	268	20	10·4	8·4	253	31	10·0	8·2	268
3·6 ,,	26	4·6	2·3	084	24	4·9	3·7	088	20	3·8	1·7	095	30	11·1	9·6	270	18	10·4	8·9	264	31	9·8	8·3	274
4·5 ,,	22	4·7	2·3	073	17	3·9	2·1	096	14	3·5	1·2	059	30	12·7	11·6	267	13	11·7	10·7	264	31	11·2	9·7	272
5·4 ,,	18	4·4	0·9	185	15	3·7	1·1	308	3	3·8	0·4	115	29	13·0	11·6	263	11	12·0	11·0	270	31	12·8	11·7	268
6·0 ,,	14	4·7	2·9	232	14	3·9	1·2	305	2	3·0	1·7	205	29	14·1	12·6	265	9	13·3	12·7	264	31	14·9	13·7	270
7·2 ,,	8	7·9	7·3	208	14	5·1	2·9	254					29	16·0	14·1	264	5	18·0	17·1	241	31	17·0	15·3	270
9·0 ,,	3	8·0	5·2	182	13	6·7	3·0	226					22	21·8	21·0	265	4	21·9	21.5	240	25	19·7	18·2	266

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·3	050	31	1·9	0·7	142	31	4·5	2·6	312	31	3·9	2·7	320	31	2·4	1·6	104	31	5·2	4·9	208
0·15 a. g.	29	4·2	3·0	073	31	6·0	2·4	203	31	7·0	4·3	306	31	6·0	4·5	318	31	6·7	2·2	086	31	8·8	7·9	213
0·3 a. m. s. l.	29	4·3	3·3	082	31	6·8	2·5	205	31	7·1	4·3	308	31	6·2	4·9	319	31	6·9	2·1	084	31	7·5	6·4	226
0·6 ,,	27	4·2	2·8	087	31	7·5	3·3	250	31	5·7	3·7	307	31	6·5	5·4	317	31	6·6	1·2	032	31	5·8	4·7	235
0·9 ,,	27	4·0	1·9	135	31	6·4	3·4	277	30	6·1	3·5	304	31	6·7	5·7	311	31	5·9	2·0	339	31	6·1	4·4	240
1·5 ,,	25	5·8	3·2	220	30	6·4	5·0	293	25	7·1	5·2	284	31	7·3	6·4	301	29	6·4	4·2	306	31	5·1	3·0	268
2·1 ,,	24	7·2	5·1	249	25	8·4	6·8	302	15	7·6	5·4	313	25	7·7	6·9	298	19	7·4	6·9	302	29	4·5	2·5	307
3·0 ,,	17	9·2	7·1	254	20	12·0	10·9	298	6	10·3	10·2	291	17	10·2	9·1	300	17	10·3	9·0	299	25	5·2	3·3	356
3·6 ,,	4	10·3	8·2	272	10	14·2	13·0	297					14	10·6	10·2	295	5	8·2	7·4	313	19	5·8	3·5	353
4·5 ,,	1	8·0	8·0	245	3	12·8	12·0	308					10	12·5	11·9	298	1	6·5	6·5	275	11	3·8	2·8	341
5·4 ,,	1	12·5	12·5	250	2	11·0	10·0	282					6	12·5	12·2	283	1	10·0	10·0	275	9	3·6	2·2	282
6·0 ,,	1	15·0	15·0	255									3	13·0	12·0	281					8	5·9	3·4	260
7·2 ,,																					5	7·6	4·7	290
9·0 ,,																					2	3.0	1.7	244

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	7·7	7·2	202	31	6·6	5·7	205	31	2·5	1·6	054	31	2·5	1·8	274	31	1·7	1·2	278	31	2·3	1·9	331
0·1 a. g.	30	11·3	10·5	204	31	9·9	8·2	217	31	7·5	3·9	070	31	6·5	4·8	284	31	6·7	2·9	292	31	5·3	4·2	322
0·3 a. m. s. l.	30	10·5	9·3	205	31	9·1	7·5	220	31	8·5	3·8	091	31	6·8	5·1	283	31	5·4	2·5	280	31	5·0	3·9	318
0·6 ,,	30	6·7	5·3	210	30	7·3	5·9	228	31	8·4	1·7	142	31	7·0	5·5	285	31	7·2	3·8	303	31	5·4	3·9	320
0·9 ,,	29	4·6	2·5	234	29	5·5	4·0	2.9	31	7·5	1·7	269	31	7·1	5·8	284	31	7·2	4·5	307	31	5·4	4·1	315
1·5 ,,	29	3·4	1·8	307	28	4·4	2·1	244	31	7·1	5·7	293	31	7·9	7·2	284	31	6·9	5·7	305	31	5·4	4·7	307
2·1 ,,	27	4·1	2·6	354	25	5·0	1·3	327	31	8·7	8·3	293	31	9·9	9·6	287	31	7·0	6·3	294	30	5·5	4·5	330
3·0 ,,	27	5·2	3·3	004	18	5·5	2·4	018	30	11·5	11·3	294	30	12·0	11·8	293	30	7·2	6·0	288	22	7·0	6·1	275
3· ,,	22	5·5	2·3	354	7	5·2	4·1	0·9	21	12·6	12·2	291	30	13·2	13·0	294	29	8·4	7·0	280	27	7·9	7·0	270
4·5 ,,	18	5·4	2·9	348	2	3·3	1·9	056	10	13·2	11·4	299	29	13·9	13·5	291	26	9·8	8·3	277	22	10·8	10·1	266
5·4 ,,	12	6·5	5·2	282					6	10·7	9·6	267	27	13·6	13·2	286	18	10·3	9·3	281	20	13·1	11·9	267
6·0 ,,	9	7·2	5·2	272					3	7·3	7·0	233	24	14·5	14·1	283	16	10·9	9·9	273	15	13·4	12·7	270
7.2 ,,	8	7·1	4·9	252					2	17·0	16·3	245	16	15·6	14·8	271	15	11·9	10·7	275	13	15·9	16·2	273
9·0 ,,	4	9·5	8·9	257									8	20·5	19·8	258	9	12·8	11·2	268	9	19·8	19·8	261

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·3	0·7	278	31	1·1	0·4	055	31	1·7	0.5	266	31	2·2	1·5	312	31	1·0	0·3	020	31	1·2	0·8	210
0·15 a. g.	31	6·2	0·7	299	27	2·6	1·1	022	30	3·2	1·2	257	29	4·4	3·3	301	30	2·2	0·4	077	31	5·9	3·0	224
0·3 a. m. s. l.	31	5·1	1·7	346																				
0·6 ,,	31	6·1	3·1	339																	31	6·4	3·2	239
0·9 ,,	31	5·5	3·4	324	27	2·6	1·5	024	30	3·1	1·1	266	29	4·2	3·1	304	30	2·2	0·4	073	31	6·8	3·5	279
1·5 ,,	31	5·0	4·0	301	26	4·1	1·8	229	30	3·7	1·3	225	29	4·5	2·9	251	30	4·5	2·4	207	31	6·3	3·5	304
2·1 ,,	31	5·6	5·1	281	23	7·3	5·2	241	22	6·4	4·6	258	29	6·8	5·5	244	28	6·7	4·6	222	31	4·9	2·7	309
3·0 ,,	28	7·2	6·4	269	15	11·8	9·2	266	11	8·0	6·6	279	22	8·1	7·0	272	19	9·4	7·6	247	31	4·2	2·7	308
3·6 ,,	15	8·3	8·0	268	8	8·3	6·5	256	2	11·5	11·3	275	19	9·3	8·3	268	10	7·3	6·0	260	27	4·7	3·7	307
4.5 ,,					4	5·7	4·9	233					15	11·1	10·5	278	2	7·7	7·7	256	15	6·0	4·0	293
5·4 ,,					2	6·7	6·7	245					8	12·0	11·6	282					8	6·7	5·5	275
6·0 ,,													4	11·4	10·7	282					8	8·3	7·0	264
7·2 ,,																					4	11·0	10·9	272
9·0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·1	0·8	306	31	1·6	0·5	161	31	0·4	0·1	189	31	1·5	0·1	143	31	1·0	0·4	207	31	2·1	1·2	32
0·15 a. g.	31	4·7	2·4	302	30	6·1	1·2	235	31	5·3	4·1	229	30	5·1	0·7	210	29	6·5	4·5	193	30	6·2	3·3	30
0·3 a.m.s. 1.																								
0·6 ,,	31	4·8	2·7	309	30	6·3	1·6	246	31	2·5	1·9	231	30	3·4	0·6	216	29	4·1	2·9	190	30	7·2	4·8	28
0·9 ,,	31	4·8	3·0	303	30	6·4	2·1	280	31	7·0	5·7	240	30	5·1	0·3	285	29	6·6	4·5	198	30	7·5	6·0	28
1·5 ,,	31	4.5	3·1	311	30	5·1	2·5	311	31	5·2	3·8	262	29	3.5	2·0	286	29	4·7	2·9	231	29	7·0	5·5	28
2·1 ,,	29	4·8	3·6	318	29	4·5	2·6	321	31	3·7	1·9	292	28	3·4	2·2	301	27	4·2	1·9	284	25	6·0	5·4	28
3·0 ,,	26	6·0	4·7	310	24	4·6	2·9	301	29	4·7	2·4	009	22	4·8	3·0	330	20	4·6	2·2	355	15	7·3	5·4	28
3·6 ,,	24	5·9	4·6	308	8	6·1	4·2	290	26	4·8	3·3	036	17	5·2	2·8	349	8	5·2	1·2	092	8	6·6	5·5	29
4·5 ,,	16	7·2	6·5	288	1	8·5	8·5	310	16	4·1	2·2	835	9	5·3	4·2	314	1	2·0	2·0	220	4	5·8	4·5	29
5·4 ,,	9	7·9	7·7	276					7	4·8	2·9	278	6	5·7	5·2	314								
6·0 ,,	8	9·2	8·7	273					5	5·0	4·0	253	3	7·3	7·3	303								
7·2 ,,	4	12·3	11·8	255																				
9·0 ,,																								

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	3·7	2·6	305	31	3·0	1·3	290	31	1·1	0·3	320	31	2·4	0·8	257	31	3·0	0·5	096	31	1·9	0·7	180
0·15 a. g.	30	6·4	4·3	296	29	8·2	3·5	335	31	3.2	1·3	245	31	3·9	1·3	256	27	4·7	1·7	101	31	4·9	2·1	205
0·3 a. m.s. 1.									31	3·3	1·8	244	31	3·9	1·4	259	27	4·8	1·6	102	31	4.5	1·9	194
0·6 ,,	30	6·5	4·4	294	29	8·7	4·4	294	31	6·1	4·7	257	31	3·7	1·9	263	27	4·0	1·0	053	31	5·7	4·5	255
0·9 ,,	30	2·3	4·5	288	29	9·5	5·8	330	31	7·5	5·9	265	31	4·6	2·1	272	27	4·0	1·3	345	31	7·0	6·0	260
1·5 ,,	30	6·3	4·3	286	29	7·9	5·7	336	31	6·6	5·4	280	31	5·5	3·6	287	27	4·9	3·1	312	31	6·3	4·9	280
2·1 ,,	28	6·4	5·4	276	27	6·5	5·4	347	30	5·6	4·6	308	25	6·9	5·6	304	24	6·2	4·8	313	29	5·8	4·3	307
3·0 ,,	26	7·7	6.6	277	20	6·1	4·7	274	28	8·2	7·3	309	6	7·7	6·4	332	17	9·2	7·8	317	29	5·3	3·7	313
3·6 ,,	19	8·4	7·1	273	15	6·7	5·2	275	18	9·7	8·7	314					9	10.4	9·3	299	21	6·0	4·6	334
4·5 ,,	15	9·6	7·4	275	2	8·7	7·4	271	5	10·2	8·3	342					6	11·4	10·0	295	10	7·7	7·0	351
5·4 ,,	10	10·7	10·0	267					1	7·0	7·0	320					2	13·5	13·3	309				
6·0 ,,	8	11.8	10·3	274					1	4·5	4·5	220												
7·2 ,,	3	13·3	12·0	272																				
9·0 ,,	1	7·5	7·5	270																				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·7	1·4	228	31	3·4	2·0	175	28	2·4	2·1	243	31	3·3	2·8	246	31	5·0	4·0	259	31	3·5	2·0	240
0·15 a. g.	31	4·7	2·5	232	31	7·9	4·9	182	28	6·6	5·4	255	31	5·6	5·2	242	31	6·5	4·5	261	31	8·9	6·3	235
0·3 a. m. s. l.	31	5·0	2·8	227	31	7·4	4·7	175	28	5·3	4·5	248	31	4·7	4·4	245	31	5·6	4·7	237	31	7·3	4·9	234
0·6 ,,	31	4·5	2·5	251	31	7·5	5·1	201	28	7·2	6·3	250	31	5·2	5·0	241	31	6·2	5·0	250	31	10·5	7·0	240
0·9 ,,	31	4·5	2·9	265	31	6·7	5·0	219	28	7·8	6·9	244	31	6·0	5·5	243	31	6·1	5·0	238	30	9·8	8·0	241
1·5 ,,	31	4·0	3·3	295	31	5·4	3·7	252	28	7·6	6·7	249	30	6·4	5·6	250	31	6·1	5·0	237	24	8·0	6·9	253
2·1 ,,	30	4·9	4·0	313	30	4·9	3·3	293	28	6·0	4·4	249	29	6·3	5·4	245	31	6·0	4·6	241	20	7·2	6·0	263
3·0 ,,	24	6·5	5·3	329	18	5·6	4·0	344	28	6·3	3·1	251	27	6·6	3·3	236	31	5·1	4·7	229	14	5·6	4·2	283
3·6	12	7·7	6·6	294	8	5·8	4·6	352	27	6·0	2·3	275	25	7·3	4·1	241	31	5·8	3·5	242	3	6·5	6·4	261
4·5 ,,	2	8·5	8·5	288					27	4·2	3·7	277	22	7·9	4·5	255	31	7·0	5·0	247				
5·4 ,,									27	7·6	4·5	261	19	9·0	5·9	264	30	7·9	6·0	245				
6·0 ,,									27	8·9	5·1	265	18	9·3	6·4	280	30	9·0	6·5	248				
7·2 ,,									26	7·8	7·2	260	9	14·4	11·5	284	30	12·2	9·8	263				
9·0 ,,									19	15·4	11·5	267	5	14·9	11·5	281	24	16·0	13·3	256				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·5	2·0	240	31	3·3	1·7	242	31	4·9	3·8	157	31	4·1	3·5	194	31	3·4	3·1	272	31	3·8	3·3	275
0·15 a. g.	30	7·4	5·7	238	31	4·7	2·6	251	31	7·9	6·0	159	31	8·0	6·8	195	31	6·6	5·7	269	29	6·6	5·9	280
0·3 a. m. s. l.	30	8·2	6·6	242	31	5·1	3·0	253	31	7·5	5·4	164	31	8·3	6·7	200	31	7·3	6·4	273	29	7·5	6·8	281
0·6 ,,	30	9·3	7·3	245	31	5·5	3·6	257	31	6·7	4·0	178	31	7·9	5·6	209	31	8·3	7·4	273	29	9·0	8·1	283
0·9 ,,	30	8·4	6·3	254	31	5·3	3·9	265	31	5·1	2·1	256	31	6·8	4·4	224	31	8·0	7·2	277	28	9·0	8·1	285
1·5 ,,	30	5·8	3·1	274	28	5·0	3·5	279	31	5·3	3·4	297	31	4·8	2·6	266	30	6·8	5·7	280	26	7·2	6·1	287
2·1 ,,	30	5·9	2·0	313	25	4·9	2·3	313	31	5·9	3·0	319	30	5·3	1·4	311	29	7·2	5·2	290	25	6·7	5·1	285
3·0 ,,	30	7·1	2·4	027	23	5·4	0·6	080	31	6·2	1·5	012	29	6·1	1·3	032	26	6·7	4·6	285	21	6·0	3·0	289
3·6 ,,	30	7·1	1·8	051	21	6·0	0·8	173	31	6·3	1·8	024	28	5·5	1·8	078	22	6·0	3·5	275	18	6·0	2·9	290
4·5 ,,	30	6·3	0·7	065	21	6·1	1·9	207	31	6·8	1·7	359	26	5·2	1·6	099	17	6·1	3·7	258	16	6·9	3·9	269
5·4 ,,	30	6·0	1·1	280	19	6·6	2.7	255	30	6·3	1·0	284	12	6·1	2·4	110	14	6·5	3·6	251	12	6·7	5·1	267
6·0 ,,	30	6·3	1·6	240	17	7·1	4·2	249	30	6·1	1·6	271	10	6·1	1·7	156	13	6·2	3·8	267	10	5·5	3·2	280
7·2 ,,	30	6·1	2·7	195	14	6·8	4·3	212	30	6·3	2·1	235	4	3·9	2·0	055	9	6·3	3·4	227	7	4·6	2·9	293
9·0 ,,	28	5·6	0·9	190	12	7·0	5·0	203	31	5·6	1·4	243					5	5·1	0·5	280	1	3·0	3·0	300

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·6	3·2	274	31	1·5	1·2	059	31	1·8	1.6	045	31	1·5	1·3	047	31	1·2	0·9	046	31	2·9	1·2	307
0·15 a. g.	29	6·4	5·8	267	20	5·3	4·7	049	21	2·9	2·4	058	28	4·2	3·1	045	21	4·4	3·6	049	31	6·7	3·4	272
0·3 m.s. l.	29	7·1	6·5	268	20	5·5	4·9	050	21	2·8	2·4	060	28	4·5	3·3	049	21	4·2	3·7	047				
0·6 "	29	7·7	7·2	272	20	4·7	4·3	052	19	2·9	2·5	060	28	4·7	3·7	067	21	4·0	3·1	060	31	7·3	4·0	272
0·9 "	29	7·7	7·1	280	18	3·9	3·4	064	17	2·4	1·9	048	27	3·7	2·5	069	21	3·5	2·8	078	31	7·9	2·7	309
1·5 "	27	7·2	6·4	285	16	3·5	1·8	107	15	3·6	1·6	130	25	4·3	2·3	214	18	3·8	2·1	151	31	6·9	4·2	306
2·1 "	23	6·4	4·6	292	10	3·7	1·7	190	11	4·4	2·5	147	23	6·1	4·6	226	17	4·6	3·1	200	31	5·0	2·7	310
3·0 "	18	6·2	3·5	301	7	3·4	2·5	212	9	4·9	2·3	186	17	5·7	4·5	232	9	3·3	2·0	201	31	3·8	1·7	021
3·6 "	11	4·6	2·3	295	6	4·7	4·1	232					14	6·1	4·8	221	3	5·3	5·3	217	31	3·9	1·8	015
4·5 "	7	6·1	2·7	271	3	5·2	5·0	224					10	6·5	5·7	244					31	4·3	1·1	303
5·4 "					2	9·7	9·7	240					8	11·9	10·7	251					31	5·3	3·2	275
6·0 "					2	10·7	10·7	249					7	11·9	10·8	263					31	6·6	4·9	264
7·2 "					2	16·0	15·8	260					3	14·7	12·2	264					31	9·1	8·1	255
9·0 "													2	17·7	12·7	277					31	13·0	11·7	234

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I. S. T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·9	287	31	3·2	0·7	299	31	2·4	1·1	252	31	1·9	1·0	076	31	2·6	1·9	285	31	2·2	1·2	304
0·15 a. g.	31	4·7	3·1	287	31	5·0	2·2	300	31	5·7	2·5	247	31	8·5	2·3	114	31	5·8	4·5	299	31	7·4	4·1	314
0·3 m.s. l.													31	8·7	2·5	105	31	5·9	4·6	298	31	4·9	2·9	315
0·6 "	31	4·5	2·7	293	31	4·6	2·2	299	31	5·6	2·4	255	31	8·6	0·3	056	31	6·7	5·4	296	31	6·7	3·9	312
0·9 "	31	4·3	2·7	296	31	3·9	1·6	293	30	4·9	2·0	269	31	7·7	2·7	295	31	7·0	6·2	295	31	5·9	3·8	301
1·5 "	31	4·1	2·8	321	31	3·6	1·4	295	30	4·0	1·9	302	30	6·7	5·6	295	31	7·7	7·1	290	31	6·1	4·9	300
2·1 "	31	3·6	2·3	353	31	3·3	1·7	298	30	3·0	1·8	321	30	8·6	7·8	256	31	8·7	8·5	290	31	6·8	5·7	282
3·0 "	29	3·0	1·4	031	31	4·0	2·3	303	28	3·8	2·2	353	28	10·1	9·3	298	31	12·1	11·8	292	31	7·9	6·8	280
3·6 "	26	2·6	0·2	035	30	4·6	2·9	306	15	4·7	2·4	003	26	11·5	10·8	295	30	13·0	12·5	293	30	9·4	7·5	282
4·5 "	22	3·5	1·6	245	30	4·7	3·1	298	6	3·1	2·4	262	20	10·8	9·8	287	27	12·5	12·0	294	30	11·2	8·9	285
5·4 "	18	5·1	3·7	270	30	4·8	4·0	268	2	4·7	2·7	252	10	10·5	9·7	276	26	11·5	10·5	290	30	11·2	9·1	278
6·0 "	13	6·3	5·0	262	30	6·0	4·8	265	1	9·0	9·0	200	7	10·1	9·0	269	25	11·6	10·7	288	30	11·7	9·6	275
7·2 "	10	9·1	7·5	237	30	9·2	8·3	257					5	10·0	9·2	255	22	13·7	11·9	286	30	12·5	10·7	267
9·0 "	7	11·1	10·0	241	26	13·4	12·6	245					3	16·8	16·7	265	17	17·3	16·2	267	29	16·8	15·0	263

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	4·0	2·6	322	31	2·9	1·8	315	31	2·1	1·5	308	31	1·0	1·0	265	31	3·1	2·3	293	31	1·4	1·1	268
0·15 a. g.	31	5·5	2·6	308	31	6·6	5·2	313	30	6·9	3·9	319	30	4·5	4·2	278	30	5·6	4·4	297	31	5·0	3·7	264
0·3 a. m. s. l.	31	5·2	3·7	335	31	4·6	3·4	315	30	5·6	3·4	317												
0·6 ,,	31	5·9	4·1	310	31	6·0	4·6	310	29	6·9	4·4	319	30	3·0	2·6	272	30	4·3	3·3	295	31	3·2	2·4	258
0·9 ,,	31	5·8	4·5	298	31	5·7	4·1	308	29	6·7	5·0	308	30	5·0	4·5	283	30	5·9	4·7	300	31	5·6	3·9	281
1·5 ,,	30	6·9	5·3	293	31	6·4	4·8	296	29	6·7	5·5	294	30	5·5	2·6	340	30	4·9	2·9	304	28	5·7	2·8	328
2·1 ,,	30	8·3	6·7	293	31	7·1	5·2	291	27	7·7	6·6	292	28	4·9	2·5	059	29	5·2	1·9	359	27	4·6	2·0	041
3·0 ,,	28	10·3	7·8	287	31	8·0	6·3	284	18	9·1	8·1	286	23	4·3	3·0	092	23	5·2	2·5	093	23	4·9	2·9	104
3·6 ,,	27	10·2	8·6	287	31	9·0	7·9	277	2	4·5	2·3	266	17	5·2	3·7	120	21	6·4	4·3	121	20	4·5	2·7	105
4·5 ,,	25	11·5	10·0	280	31	10·9	9·7	280					3	4·5	1·0	095	15	5·7	3·0	126	7	4·6	2·1	160
5·4 ,,	24	13·5	11·6	280	30	11·8	10·0	288									10	5·5	2·6	191	3	5·7	2·1	126
6·0 ,,	22	14·0	12·9	285	30	12·3	10·7	285									9	5·6	1·4	248				
7·2 ,,	16	15·8	14·5	283	30	13·7	11·7	280									5	6·3	3·4	245				
9·0 ,,	6	18·3	17·4	283	30	17·8	15·7	272									2	8·3	2·5	179				

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	31	2·8	2·1	252	31	5·0	3·5	243	31	3·7	2·9	112	31	3·6	2·7	250	31	1·9	1·4	231	31	2·4	1·1	317
0·15 a. g.	31	7·5	5·8	249	26	7·1	5·1	243	28	7·0	4·9	248	27	6·5	5·1	240	30	7·0	5·7	238	30	5·0	2·2	318
0·3 a. m. s. l.	31	6·7	5·9	248	26	7·2	5·1	248	28	7·3	5·3	249	27	7·2	5·6	240								
0·6 ,,	30	8·2	5·5	253	26	9·1	6·3	257	27	8·9	6·4	260	27	8·0	6·1	249	30	8·6	7·2	254	30	5·2	2·7	325
0·9 ,,	29	8·6	5·5	259	21	9·5	6·2	265	27	9·8	7·1	268	24	7·4	5·0	258	30	8·9	7·5	258	30	5·1	3·1	308
1·5 ,,	29	9·5	5·6	278	13	5·2	2·1	311	25	9·4	6·9	269	19	5·4	3·1	254	30	6·7	5·7	276	29	4·9	3·6	309
2·1 ,,	28	8·7	4·4	288	9	3·5	0·4	059	25	7·3	4·8	250	15	4·0	1·1	284	28	4·6	3·2	313	26	4·7	3·4	306
3·0 ,,	27	7·5	3·5	278	5	3·9	0·8	059	26	8·0	3·9	290	14	1.2	0·6	318	27	4·1	2·5	353	24	4·8	3·2	326
3.6 ,,	25	6·1	2·7	285	5	4·2	0·9	063	27	8·7	4·7	290	9	4·3	1·7	075	23	4·5	2·7	353	20	5·4	3·5	322
4·5 ,,	24	7·7	2·6	304	3	5·5	5·5	070	27	8·3	3·2	290	5	5·6	3·5	061	8	3·9	2·1	351	17	6·6	3·8	312
5·4 ,,	23	7·6	0·9	280	2	5·0	3·1	075	26	8·8	2·5	305	3	5·2	5·1	086					11	7·1	6·0	294
6·0 ,,	23	7·2	1·5	288	1	8·0	8·0	095	25	9·4	1·9	322	3	5·0	4·5	096					7	6·9	6·3	283
7·2 ,,	22	7·5	1·5	123	1	14·0	14·0	105	25	8·2	1·2	094									2	8·3	7·5	261
9·0 ,,	19	7·4	1·5	115	1	5·5	5·5	120	22	7·5	3·5	103												

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jaistha 10, 1883 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·7	1·2	192	31	1·7	1·5	087	31	1·8	1·8	096	31	1·5	0·5	355	31	0·9	0·3	282	31	2·5	2·2	291
0·15 a. g.	29	7·0	3·6	207	30	7·7	7·0	094	30	4·2	3·7	115	31	5·0	1·2	314	31	4·7	2·4	303	31	3·8	3·4	288
0·3 a. m. s. l.					30	9·7	8·8	101	30	4·1	3·8	115	31	5·0	1·4	307	31	4·2	2·3	305	31	3·7	2·8	297
0·6 ,,	29	6·9	3·3	223	30	8·8	7·0	112	30	4·1	3·7	112	31	5·3	2·0	295	31	3·9	2·4	318	31	4·1	2·5	323
0·9 ,,	29	5·7	2·5	247	30	6·8	3·9	123	30	4·2	2·9	120	30	5·0	2·5	279	31	4·3	2·7	317	29	4·3	2·4	347
1·5 ,,	29	4·6	3·0	276	29	4·7	2·1	253	27	5·1	2·0	264	28	5·1	3·8	276	31	4·3	2·9	335	28	4·5	2·4	347
2·1 ,,	28	4·3	2·6	286	29	6·3	5·5	278	20	7·2	6·7	280	26	7·2	6·3	281	31	5·1	3·0	359	26	5·0	1·8	016
3·0 ,,	26	4·5	2·3	338	26	11·2	10·8	289	7	8·9	8·7	290	22	9·7	9·1	282	31	5·7	1·2	084	21	5·5	2·5	085
3·6 ,,	17	4·6	2·4	351	25	12·3	11·8	289					20	10·0	9·7	289	30	5·9	2·9	137	12	4·8	2·6	116
4·5 ,,	3	6·2	4·4	334	16	11·0	10·1	289					15	10·7	10·4	286	30	6·1	3·5	160	9	4·3	3·8	144
5·4 ,,					10	8·5	7·9	285					9	11·8	11·4	285	28	5·9	0·8	223	8	5·0	1·6	194
6·0 ,,					5	5·1	3·5	229					3	4·2	3·2	292	28	6·6	1·1	290	8	5·2	2·2	218
7·2 ,,					4	7·6	7·5	236					1	8·5	8·5	205	28	7·4	2·4	257	6	7·4	4·4	242
9·0 ,,					2	15·5	15·0	243					1	27·5	27·5	230	24	10·5	7·3	245	3	11·3	9·9	206

Station	SANTA CRUZ								TIRUCHIRAPALLI												TRIVANDRUM			
Time in I. S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·5	4·5	293	31	2·2	1·7	275	31	4·2	3·7	266	31	5·4	2·5	261	31	5·9	4·2	261	31	3·1	2·6	307
0·15 a. g.	31	7·6	6·4	200	31	4·7	3·3	289	31	7·9	7·0	268	31	6·2	3·5	259	29	8·9	6·2	257	31	6·7	5·9	318
0·3 a. m. s. l.	31	7·1	5·8	304	31	4·9	3·3	295	31	9·4	8·5	266	31	6·2	3·7	260	29	9·2	6·4	257	31	7·4	6·2	315
0·6 ,,	31	6·1	4·4	314	31	5·0	2·9	305	31	10·6	9·9	267	31	5·6	3·7	255	29	9·4	7·2	251	31	8·6	7·8	293
0·9 ,,	31	5·2	3·6	320	29	4·9	2·7	326	30	9·6	8·9	268	31	6·1	4·3	258	29	8·4	6·5	256	31	9·5	8·2	295
1·5 ,,	31	4·4	2·5	002	28	4·5	3·1	355	29	6·6	5·5	267	31	5·7	3·6	268	29	5·7	4·3	255	30	9·5	8·5	286
2·1 ,,	31	5·2	2·6	021	26	3·5	2·2	024	28	5·9	2·8	288	28	6·2	3·2	283	28	6·2	3·9	289	30	8·2	7·6	290
3·0 ,,	31	5·2	1·9	090	21	4·4	2·1	126	24	6·8	1·0	345	23	5·7	1·7	353	25	6·7	2·1	334	30	8·3	5·2	288
3·6 ,,	31	5·1	1·4	147	16	4·3	2·4	155	23	7·2	0·6	306	20	5·5	1·8	015	18	7·1	0·1	283	31	6·5	4·3	278
4·5 ,,	31	5·2	2·3	169	11	5·0	1·8	203	18	5·5	0·7	339	18	5·0	1·2	340	10	5·1	0·9	093	30	7·6	4·6	273
5·4 ,,	30	6·2	1·4	186	4	5·4	1·4	020	16	4·4	1·2	308	17	5·1	1·2	275	5	3·4	1·1	108	29	6·9	3·8	267
6·0 ,,	28	6·2	1·5	265	3	5·3	2·3	226	13	4·6	1·2	260	17	6·1	2·6	240	3	5·8	5·2	196	29	8·1	4·9	265
7·2 ,,	28	7·5	2·9	248					6	5·2	1·4	042	15	6·5	2·6	211					28	7·2	3·0	264
9·0 ,,	26	9·3	6·3	249					4	3·7	2·7	358	8	5·1	2·3	231					28	6·0	1·4	254

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

May 1961 (Vaisakha 11 —Jyaistha 10, 1883 Saka)

Station	TRIVANDRUM												UDAIPUR											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·1	2·3	293	31	4·3	4·0	291	31	1·9	1·5	330	31	0·6	0·5	269	31	2·2	1·7	240	31	1·2	1·0	256
0·15 a. g.	28	6·3	5·6	287	31	7·3	6·9	297	28	5·3	4·5	308	31	3·5	2·5	286	31	5·0	3·1	262	31	4·4	3·6	260
0·3 a. m. s. l.	28	7·0	6·2	288	31	7·5	7·0	295	28	6·2	5·5	301												
0·6 ,,	27	6·9	6·2	298	31	7·7	7·1	290	28	8·1	7·4	297												
0·9 ,,	19	7·6	7·0	310	31	8·9	7·7	293	25	8·3	7·4	295	31	5·0	3·8	287	31	5·6	2·6	240	31	5·9	4·9	273
1·5 ,,	11	8·1	7·6	310	31	7·8	6·6	296	23	6·7	6·0	293	31	6·4	3·1	283	31	5·7	4·5	262	31	7·9	6·9	278
2·1 ,,	5	8·8	6·9	301	31	7·4	5·7	293	16	6·3	4·7	287	30	5·5	3·4	260	31	5·4	4·5	262	31	6·0	4·9	282
3·0 ,,	3	3·2	2·9	303	31	8·4	6·0	293	14	5·5	1·9	285	30	5·8	3·5	247	29	5·9	4·4	252	28	6·0	2·9	274
3·6 ,,	2	4·7	3·6	306	31	7·7	6·1	285	13	5·1	1·8	244	29	7·2	4·8	251	25	6·4	4·4	253	11	5·4	0·4	257
4·5 ,,	1	4·0	4·0	195	31	7·7	5·5	269	12	5·0	2·2	259	24	7·6	5·1	247	23	6·7	4·8	252	1	5·0	5·0	115
5·4 ,,	1	7·5	7·5	200	31	6·5	4·0	259	8	5.3	2.1	242	14	6·5	4·9	278	17	9·5	7·9	268				
6·0 ,,	1	7·5	7·5	200	31	7·4	4·7	267	5	5·6	2·7	232	12	7·0	5·5	289	15	9·3	7·8	266				
7·2 ,,					31	7·0	4·1	254	2	7·5	6·9	242	1	3·5	3·5	285	11	11·7	8·1	276				
9·0 ,,					29	6·1	0·8	308									5	11·8	10·4	264				

Station	VENGURLA												VERAVAL											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·4	344	31	3·2	2·1	266	31	1·8	0·9	322	31	3·3	2·4	297	31	3·6	3·3	265	31	5·0	4·3	270
0·15 a. g.	28	3·9	2·6	343	29	5·5	3·7	284	28	4·5	1·9	316	31	5·9	5·1	297	31	5·9	5·3	269	31	6·8	6·3	279
0·3 a. m. s. l.	28	4·7	3·5	328	29	6·3	4·4	291	28	5·9	2·8	319	31	5·7	4·7	291	31	6·6	5·4	279	31	6·3	5·9	284
0·6 ,,	28	5·7	4·5	328	28	7·2	4·7	300	27	7·0	3·3	327	31	5·4	4·8	303	31	7·0	5·6	28[illegible]	31	5·8	5·3	288
0·9 ,,	23	6·0	4·0	333	27	5·5	2·8	318	24	6·7	2·8	341	31	5·5	4·6	300	31	6·7	5·1	281	31	5·5	4·5	295
1·5 ,,	18	7.0	3·4	354	22	4·6	2·3	001	21	5·6	1·5	006	31	4·6	3·3	309	31	5·5	4·0	285	31	4·4	3·1	300
2.1 ,,	13	6·0	3·2	084	22	4·8	1·6	045	19	4·5	2·0	077	31	4·4	1·8	292	31	5·4	2·4	283	31	4·1	2·1	307
3·0 ,,	13	7·7	6·7	099	20	6·0	4·2	092	18	6·6	5·5	096	31	4·4	0·6	291	31	5·0	1·2	240	31	3·7	1·1	295
3·6 ,,	2	13·5	12·5	096	16	5·6	4·2	124	1	3·0	3·0	115	31	4·5	0·8	265	29	5·5	0·8	174	31	4·1	1·0	293
4·5 ,,					13	6·1	3·4	144					31	5·0	0·7	286	26	6·5	0·5	324	30	4·7	0·8	271
5·4 ,,					12	6·9	2·3	193					31	4·5	1·3	276	24	6·7	1·8	308	29	5·7	1·3	280
6·0 ,,					4	8·1	5·1	245					31	5·3	2·1	287	24	7·6	2·5	304	29	6·8	2·7	290
7.2 ,,													29	8·5	5·1	291	22	10·1	5·3	282	29	8·6	4·0	299
9·0 ,,													23	10·2	6·3	276	14	11·3	5·7	285	26	8·9	5·2	310

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Station	VERAVAL				VISAKHAPATNAM															
Time in I. S. T.	2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·2	3·6	294	31	1·3	1·2	267	31	4·7	3·8	215	31	2·7	2·2	249	31	2·1	1·9	220
0·15 a. g. .	31	8·2	7·4	284	31	6·7	5·7	286	31	4·6	3·9	216	31	5·7	3·7	272	31	4·1	3·7	227
0·3 a. m. s. l. .	31	9·3	8·5	288	31	7·2	6·7	269	31	4·7	4·3	223	31	6·1	3·9	257	31	4·9	4·4	229
0·6 ,, .	31	9·2	8·4	290	31	8·3	7·4	238	31	4·3	3·7	252	31	6·6	3·1	228	31	5·7	5·1	234
0·9 ,, .	30	7·4	6·8	287	31	7·1	6·4	240	31	4·2	3·5	262	31	6·2	4·5	259	30	5·5	4·1	243
1·5 ,, .	29	5·5	4·4	290	31	5·0	3·0	261	30	4·1	2·5	287	31	4·6	2·7	307	29	4·4	1·3	251
2·1 ,, .	27	4·6	1·6	267	31	5·0	1·8	303	28	3·6	1·1	341	31	4·6	2·8	347	30	4·3	1·2	005
3·0 ,, .	26	5·2	0·7	234	31	5·0	2·3	021	25	4·8	2·7	023	30	5·3	2·4	036	28	3·7	1.1	013
3·6 ,, .	19	6·0	2·0	174	31	5·0	3·3	015	22	4·8	3·1	010	30	5·0	2·6	060	26	4·4	0·9	343
4·5 ,, .	18	5·4	1·2	130	31	5·8	3·9	002	23	5·3	3·0	040	30	5·6	1·5	048	21	5·3	2·7	327
5·4 ,, .	6	3·3	2·2	115	31	5·3	2·2	353	23	4·1	0·7	187	30	5·6	2·7	297	12	5·7	3·5	331
6·0 ,, .	3	3·5	3·1	097	31	5·6	0·8	271	21	1·9	2·4	220	30	6·5	4·4	270	6	5·6	1·5	251
7·2 ,, .					30	7·5	4·4	241	20	6·8	4·2	233	30	6·5	4·5	261	2	3·7	3·5	333
9·0 ,, .					22	7·3	4·6	228	15	4·7	1·3	213	29	8·3	4·1	252				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

May 1961 (Vaisakha 11 —Jyaistha 10, 1883 Saka)

Ht. in Km.	n	V	v	D
		AHMEDABAD		
		1730 hr.		
10·5	1	17·5	17·5	335
12·0	1	18·0	18·0	330
		ANANTAPUR		
		0530 hr.		
10·5	6	7·1	2·8	242
12·0	5	6·4	2·5	143
		1730 hr.		
10·5	7	9·4	4·4	202
12·0	6	10·0	4·6	200
14·1	3	16·3	15·5	130
16·2	2	14·0	12·7	110
18·0	2	14·7	14·6	089
		BAGHDOGRA		
		1730 hr.		
10·5	1	39·0	39·0	275
		BAIRAGARH		
		0530 hr.		
10·5	2	13·5	13·1	257
12·0	2	11·5	11·3	249
14·1	1	16·0	16·0	240
16·2	1	16·5	16·5	250
18·0	1	15·5	15·5	220
		BAJPE		
		1730 hr.		
10·5	5	5·5*	3·5	199
12·0	4	7·6*	4·9	140
14·1	2	12·7*	12·5	094
16·2	2	17·3*	17·1	093
18·0	1	19·5	19·5	090
21·0	1	24·0	24·0	100
		BAMRAULI		
		0530 hr.*		
10·5	14	23·6	22·8	247
12·0	5	20·5*	20·2	237
14·1	1	21·5*	21·5	250
		1730 hrs.*		
10·5	13	25·0	23·9	250
12·0	7	26·6	26·1	256
14·1	1	6·5	6·5	260
16·2	1	6·0	6·0	210
18·0	1	11·0	11·0	125

Ht. in Km.	n	V	v	D
		BANGALORE		
		0530 hr.		
10·5	13	5·8	3·3	136
12·0	11	6·9	5·7	103
14·1	10	12·2	11·2	094
16·2	10	20·3	19·9	098
18·0	7	22·6	22·2	095
21·0	4	11·4	11·2	091
		1730 hr.		
10·5	2	6·0	4·7	178
12·0	1	3·0	3·0	155
		BAREILLY		
		0530 hr.		
10·5	1	12·0	12·0	265
		1730 hrs.		
10·5	1	28·0	28·0	275
		BEGUMPET		
		0530 hr.		
10·5	2	5·5	5·2	114
12·0	2	5·7	4·5	107
14·1	2	10·5	10·0	117
16.2	1	13·0	13·0	080
18·0	1	16·5	16·5	125
21·0	1	24·5	24·5	105
		1730 hr.		
10·5	4	6·3	4·3	143
		BHAGALPUR		
		1730 hr.		
10·5	3	15·7	15·1	232
12·0	3	14·0	13·9	239
14·1	2	8·7	8·4	246
		BHUBANESHWAR		
		1730 hr.		
10·5	1	6·0	6·0	260
		COCHIN		
		0530 hr.		
10·5	1	6·5	6·5	190
		1730 hr.		
10·5	1	14·0	14·0	225
12·0	1	5·5	5·5	225
		DUM DUM		
		0530 hr.*		
10·5	18	12·8	10·9	239
12·0	18	11·5	10·0	241
14·1	11	10·0	6·9	252
16·2	5	12·1	7·1	215

Ht. in Km.	n	V	v	D
		DUM DUM—*contd.*		
		1130 hr.		
10·5	1	22·5	22·5	220
		1730 hr.*		
10·5	26	11·5	10·3	243
12·0	24	11·8	10·2	241
14·1	7	13·5	11·5	243
16·2	4	6·6	3·4	046
18·0	1	8·5	8·5	085
		GADAG		
		0530 hr.		
10·5	8	7·3	3·4	177
12·0	7	7·9	3·7	161
14·1	2	9·5	9·3	104
16·2	2	21·3	19·3	096
18·0	1	15·0	15·0	115
		1730 hr.		
10·5	2	4·7	3·4	303
12·0	2	5·0	5·0	118
14·1	2	13·0	12·9	127
16·2	2	14·3	14·2	107
18·0	2	18·0	18·0	101
		GANNAVARAM		
		1730 hr.		
10·5	11	7·4	2·1	194
12·0	7	8.9	3·1	153
14·1	4	11·0	7·0	159
16·2	1	4·0	4·0	280
18·0	1	4·0	4·0	115
21·0	1	9·0	9·0	305
		GAUHATI		
		0530 hr.*		
10·5	17	22·5	22·1	258
12·0	13	21·2	20·7	256
14·1	3	19·8	19·3	274
16·2	1	21·5	21·5	250
		1130 hr.		
10·5	2	35·0	35·0	253
12·0	1	41·5	41·5	255
		1730 hr.*		
10·5	23	22·5	21·9	264
12·0	16	24·4	23·5	263
14·1	6	26·3	25·7	265

Ht. in Km.	n	V	v	D
		GOPALPUR		
		0530 hr.		
10·5	2	2·3	0·8	206
12·0	1	5·0	5·0	115
		1730 hr.		
10·5	2	2·5	2·5	149
12·0	2	10·5	8·0	096
14·1	1	4·0	4·0	125
		GORAKHPUR		
		1730 hr.		
10·5	4	17·9	15·1	244
12·0	2	5·7	5·7	267
14·1	1	0·5	0·5	325
		GWALIOR		
		0530 hr.		
10·5	5	14·7	11·1	278
12·0	1	2·5	2·5	049
		1730 hr.		
10·5	4	25·0	24·7	253
12·0	2	17·0	16·6	248
		JAIPUR		
		1730 hr.		
10·5	1	13·5	13·5	240
		JODHPUR		
		0530 hr.*		
10·5	13	16·9	14·8	251
12·0	7	19·4	18·3	262
14·1	3	21·3	21·0	277
		1130 hr.		
10·5	4	19·4	18·3	251
12·0	2	15·7	15·7	267
14·1	2	9·3	9·0	244
16·2	2	9·0	4·2	233
18·0	2	9·5	3·3	114
21·0	1	2·0	2·0	105
		1730 hr.*		
10·5	9	21·5	13·9	267
12·0	4	22·1	17·7	253
14·1	3	29·0	28·3	248

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

May 1961 (Vaisakha 11—Jyaistha 10 1883 Saka)

Ht. in Km.	n	V	v	D
		MADRAS		
		0530 hr.*		
10·5	28	5·8	2·0	140
12·0	26	7·6	4·8	131
14·1	22	13·1	10·9	111
16·2	14	16·8	15·6	106
18·0	4	22·5	22·1	107
21·0	1	23·0	23.0	115
		1130 hr.		
10·5	11	7·1	5·0	175
12·0	9	8·0	6·1	123
14·1	5	16·6	15·8	104
16·2	5	15·3	14·6	082
18·0	4	21·4	20·5	093
21·0	2	17·7	17·5	076
24·0	1	6·5	6·5	090
27·0	1	7·5	7·5	140
		1730 hr.*		
10·5	29	5·5	1·4	205
12·0	27	7·1	2·4	105
14·1	20	11·6	10·5	121
16·2	10	17·5	16·0	113
18·0	7	21·5	21·1	105
21·0	3	19·0	18·7	081
		MINICOY		
		0530 hr.		
10·5	4	7·6	2·5	184
		1730 hr.		
10·5	1	2·0	2·0	150
		MOHANBARI		
		1730 hr.		
10·5	1	14·0	14·0	279
12·0	1	33·0	33·0	285
		NAGPUR		
		0530 hr.		
10·5	30	13·3	11·3	238
12·0	29	12·8	10·3	24
14·1	26	8·4	4·4	2
16·2	20	10·1	5·9	118
18·0	13	11·0	10·2	081
21·0	3	11·0	10·3	057
4·0	1	5·0	5·0	300
		1130 hr.		
10·5	1	5·5	5·5	270
12·0	1	6·0	6·0	300

Ht. in Km.	n	V	v	D
		NAGPUR—*contd.*		
		1730 hr.*		
10·5	25	12·6	11·4	248
12·0	23	13·1	10·9	238
14·1	19	11·3	8·1	223
16·2	13	8·2	1·8	1[illegible]9
18·0	10	9·3	8·0	08[illegible]
21·0	3	10·2	10·0	095
		NANPARA		
		1730 hr.		
10·5	16	22·4	20·2	258
12·0	7	23·2	20·7	268
14·1	2	18·0	10·5	276
		NEW DELHI		
		0530 hr.*		
10·5	28	21·6	20·4	268
12·0	26	23·2	22·1	264
14·1	20	18·6	16·6	265
16·2	15	13·9	10·3	276
18·0	8	7·7	1·4	083
21·0	1	8·0	8·0	305
24·0	1	6·5	6·5	080
		1130 hr.		
10·5	5	25·3	23·9	284
12·0	3	20·2	20·1	290
14·1	3	22·5	22·3	310
16·2	3	30·3	21·3	293
18·0	3	19·5	9·4	292
0	2	38·0	37·5	271
4·0	2	45·3	45·2	263
27·0	1	30·5	30·5	265
		1730 hr.		
10·5	30	19·4	17·1	263
12·0	29	2[illegible]·1	19·6	270
14·1	24	20·0	7·1	270
16·2	19	13·7	9·9	265
18·0	11	16·2	4·8	252
21·0	1	15·0	15·0	105
		PORT BLAIR		
		0530 hr.*		
10·5	17	6·5	4·5	104
12·0	13	12·8	7·6	085
14·1	9	15·8	15·3	091
16·2	4	27·6	27·0	088
18·0	1	28·5	8·5	085

Ht. in Km.	n	V	v	D
		PORT BLAIR—*contd.*		
		1730 hr.*		
10·5	19	9·7	5·9	100
12·0	13	12·6	9·8	084
14·1	9	17·1	15·0	066
16·2	3	23·6	22·3	056
18·0	1	26·0	26·0	065
		SANTA CRUZ		
		0530 hr.		
10·5	17	11·6	7·9	252
12·0	11	10·5	7·4	232
14·1	1	3·5	3·5	205
		1130 hr.*		
10·5	2	17·0	15·9	250
12·0	2	14·0	13·8	232
14·1	1	3·5	3·5	180
16·2	1	13.0	13·0	140
		1730 hr.*		
10·5	18	10·2	6·7	242
12·0	13	9·2	5·0	248
14·1	5	10·6	6·4	228
		TIRUCHIRAPALLI		
		1730 hr.		
10·5	2	2·7	2·7	163
		TRIVANDRUM		
		0530 hr.*		
10·5	17	6·0	1·7	085
12·0	22	10·0	7·7	088
14·1	15	19·2	18·4	099
16·2	10	24·9	23·7	095
18·0	7	22·0	21·2	091
21·0	1	4·0	4·0	040
4·8	1	19·5	19·5	330
		1730 hr.*		
0·5	26	7·5	0·7	360
12·0	24	10·3	6·3	08[illegible]
14·1	21	16·6	16·0	091
16·2	15	25·1	24·1	092
18·0	6	11·3	10·3	095
21·0	1	29·5	29·5	070
		VERAVAL		
		0530 hr.*		
10·5	11	7·7	4·2	276

Ht. in Km.	n	V	v	D
		VERAVAL—*contd.*		
12·0	9	8·7	1·6	221
14·1	4	8·3	7·9	120
16·2	2	8·5	8·0	126
		1130 hr.		
10·5	6	15·7	7·1	273
12·0	1	45·0	45·0	230
		1730 hr.*		
10·5	18	9·4	4·4	283
12·0	11	10·4	6·0	258
14·1	7	11·0	4·6	184
16·2	4	14·5	4·9	146
18·0	1	12·5	12·5	045
		VISAKHAPATNAM		
		0530 hr.*		
10·5	22	8·1	5·0	189
12·0	21	9·2	4·4	157
14·1	17	13·2	13·3	134
16·2	14	14·3	8·7	100
18·0	10	16·4	15·8	090
21·0	1	21·5	21·5	090
		1130 hr.		
0·5	14	6·2	3·6	140
12·0	12	7·3	4·9	15
14·1	8	10·8	8·4	1[illegible]6
16·2	5	15·0	14·4	116
18·0	5	18·3	1[illegible]·5	106
21·0	2	15·5	14·7	103
		1730 hr.*		
0·5	29	8·3	3·1	188
12·0	28	9·0	4·6	170
14·1	25	11·9	6·8	128
16·2	16	16·2	11·6	095
18·0	11	15·8	15·2	088
21·0	1	30·5	30·5	100

RADIOSONDE DATA

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October 1944	00 and 12	
2	Bangalore	Fan type	10th March 1961	00 and 12	
3	Bombay	Clock type	7th September 1954	00 and 12	
4	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July 1955	00 and 12	
6	Jodhpur	Clock type	17th April 1946	00 and 12	
7	Madras	Fan type	29th June 1946	00 and 12	
8	Nagpur	Fan type	1st October 1946	00 and 12	
9	New Delhi	Clock type	3rd December 1943	00 and 12	
10	Port Blair	Fan type	4th December 1946	00 and 12	
11	Trivandrum	Fan type	1st July 1947	00 and 12	
12	Veraval	Fan type	3rd October 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Standard Pressure Surface mb.	ALLAHABAD Surf. Pr. (990 mb.)						BANGALORE (907 mb.)						BOMBAY (1004 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	098	301·7	307	299	289·4	30	921	294·7	298	292	292·1	31	013	300·0	302	297	297·1
1000	28	006	..	..	..	..	30	067	..	..	..	..	31	049	..	..	..	..
900	28	949	303·1	306	298	282·1	30	987	294·2	297	292	291·4	31	975	296·7	301	293	287·2
850	28	1456	299·2	302	294	280·0	30	1481	292·1	299	288	287·3	31	1473	294·9	300	291	282·3
800	28	1985	294·7	298	289	277·3	30	2002	289·7	296	287	284·0	31	1998	292·1	296	286	280·1
700	28	3122	284·7	289	280	272·7	30	3130	283·5	292	281	276·4	31	3131	284·2	290	282	274·5
600	28	4387	274·5	278	270	265·1	29	4396	275·6	282	271	269·9	31	4397	275·1	278	270	266·8
500	28	5830	265·7	271	260	..	29	5848	267·7	273	263	..	31	5848	267·3	270	262	..
400	28	7543	257·5	267	250	..	28	7568	258·2	262	254	..	31	7568	258·3	264	252	..
300	28	9665	245·9	251	231	..	27	9680	242·9	249	235	..	26	9704	246·6	253	239	..
250	26	10961	238·0	243	233	..	26	10961	232·6	241	225	..	22	10996	238·1	245	231	..
200	23	12478	228·5	236	224	..	23	12431	219·9	227	210	..	17	12517	226·5	235	219	..
175	19	13331	222·7	230	217	..	22	13269	213·5	221	204	..	15	13405	220·9	229	211	..
150	13	14345	215·7	224	207	..	20	14231	206·3	215	195	..	9	14419	215·3	223	211	..
125	11	15521	209·2	217	205	..	20	15303	198·9	207	192	..	..	..	..	..	..	..
100	10	16871	204·1	210	199	..	18	16591	192·9	202	187	..	..	..	..	..	..	..
80	6	18231	201·3	211	197	..	12	17919	192·8	202	187	..	..	..	..	..	..	..
70	..	..	..	..	..	..	11	18706	195·0	204	186	..	..	..	..	..	..	..
60	..	..	..	..	..	..	11	19591	199·3	210	192	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	CALCUTTA (1002 mb.)						GAUHATI (999 mb.)						JODHPUR (978 mb.)					
Surface	31	006	300·1	303	295	297·4	31	049	297·6	301	293	295·8	29	218	301·7	306	296	288·9
1000	31	023	..	..	..	..	31	039	..	..	..	..	29	020	..	..	..	..
900	31	951	296·5	301	293	289·3	31	958	293·7	297	290	289·6	29	958	301·8	306	297	283·7
850	31	1450	294·7	300	291	285·9	31	1453	291·3	295	288	286·5	29	1463	299·0	303	295	280·7
800	31	1973	290·7	295	285	282·0	31	1980	288·2	292	284	283·5	29	1993	295·2	299	290	277·8
700	31	3102	282·9	286	279	274·6	31	3090	281·9	287	277	276·6	29	3134	285·4	290	281	271·9
600	30	4363	274·3	279	271	263·4	31	4349	274·7	281	270	268·4	28	4404	275·4	280	271	262·4
500	30	5810	268·3	273	260	259·4	30	5800	267·7	273	261	..	28	5852	266·4	272	262	..
400	29	7530	258·0	265	253	..	30	7524	259·1	267	252	..	26	7560	256·3	264	250	..
300	25	9654	245·0	253	238	..	24	9523	246·3	254	241	..	25	9681	245·1	252	237	..
250	23	10937	236·2	246	229	..	19	10940	238·6	250	233	..	18	10958	239·0	246	234	..
200	22	12441	226·0	233	218	..	14	12468	227·9	236	223	..	17	12499	229·9	240	221	..
175	19	13305	218·8	229	214	..	9	13374	222·3	231	216	..	15	13397	224·5	235	217	..
150	17	14269	211·6	225	207	..	7	14301	217·4	225	212	..	14	14399	218·7	229	210	..
125	8	15390	206·1	217	197	..	..	..	..	..	..	..	7	15513	209·9	223	201	..
100	5	16587	197·2	204	188	..	..	..	..	..	..	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

May 1961 (Vaisakha 11—Jyaistha 10, 1883 Saka)

Standard Pressure Surface mbs.	MADARS Surf. Pr. (1003 mb.)						NAGPUR (968 mb.)						NEW DELHI (978 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	015	301·2	303	299	296·0	31	311	302·1	306	297	288·6	31	209	299·5	303	294	288·2
1000	30	041	..	..	..	..	31	022	..	..	..	..	31	106	..	..	..	..
900	30	969	296·4	300	291	289·5	31	963	301·9	305	298	283·9	31	947	302·3	308	297	283·7
850	30	1467	294·1	298	289	285·5	31	1468	298.2	301	296	281·5	31	1452	298·5	302	295	280.8
800	30	1989	291·0	295	285	282·0	31	1997	293·9	299	291	279·8	31	1977	293·1	298	289	278·5
700	30	3119	284·1	290	280	274·4	31	3135	284·9	288	280	276·1	31	3115	285·7	292	279	272·3
600	30	4388	275·8	280	271	268·7	31	4405	274·6	280	271	274·2	31	4378	273·8	277	269	263·5
500	30	5841	267·4	273	263	..	31	5852	265·8	271	261	..	31	5814	264·2	268	260	..
400	30	7559	257·5	266	251	..	31	7561	255·9	261	248	..	31	7510	254·0	264	239	..
300	29	9667	242·3	249	237	..	31	9669	243·6	248	236	..	31	9610	244·0	253	233	..
250	28	10933	232·4	243	228	..	30	10950	234·1	241	226	..	31	10894	236·9	245	224	..
200	26	12411	220·0	227	213	..	29	12443	222·1	227	215	..	29	12412	227·5	234	215	..
175	25	13253	213·7	221	207	..	28	13289	215·1	221	208	..	28	13291	221·6	228	213	..
150	24	14206	206·3	217	197	..	28	14261	208·0	215	199	..	27	14280	215.7	222	208	..
125	20	15290	199·9	207	192	..	24	15341	202·0	210	194	..	24	15405	209·3	216	200	..
100	14	16606	194·7	205	188	..	23	16667	197·0	212	185	..	21	16760	203·6	209	196	..
80	10	17907	199·5	211	192	..	15	18007	201·0	215	189	..	16	18085	201·0	206	195	..
70	8	18660	201·6	214	191	..	13	18842	205·7	218	194	..	14	18899	202·3	206	197	..
60	5	19566	208·0	219	198	..	7	19763	206·7	219	197	..	13	19820	207·3	211	203	..
50	..	..	..	..	..	..	5	20820	208·8	219	202	..	9	20942	213·1	218	208	..
40	..	..	..	..	..	..	5	22198	213·6	223	208	..	7	22357	216·7	221	213	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mbs.	PORT BLAIR (997 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (1004 mb.)					
Surface	31	079	298·0	300	297	297·2	31	064	298·5	300	296	296·5	30	008	299·4	301	296	298·3
1000	31	052	..	..	..	..	31	064	..	..	..	..	30	045	..	..	..	..
900	31	976	294·6	299	292	291·5	31	988	293·2	295	290	290·1	30	969	298·6	305	293	281·2
850	31	1471	292·1	296	290	289·1	31	1481	290·5	293	287	287·1	30	1477	296·6	301	294	277·5
800	31	1991	289·6	293	287	285·4	31	1999	288·3	291	285	282·7	30	2003	292·7	295	288	276·7
700	31	3119	283·7	288	280	279·3	31	3121	282·4	285	279	275·2	30	3137	284·1	289	279	270·7
600	31	4392	276·2	281	271	273·1	30	4385	275·6	281	270	266·8	30	4403	274·3	279	269	264·5
500	28	5853	268·9	275	264	..	29	5837	267·1	271	263	..	30	5849	266·5	274	261	..
400	28	7582	259·1	267	255	..	29	7553	257.1	261	248	..	29	7555	255.5	264	247	..
300	25	9714	244·9	257	239	..	27	9659	241·7	249	229	..	21	9677	243·1	249	231	..
250	26	11042	234·8	249	227	..	27	10925	231·2	240	215	..	13	10939	234·7	240	221	..
200	24	12504	222·7	238	211	..	21	12375	219·6	227	203	..	10	12467	225·7	233	217	..
175	22	13335	214·3	224	201	..	16	13236	213·1	221	203	..	7	13325	218·0	224	213	..
150	20	14299	206·3	217	194	..	16	14193	206·5	216	195	..	5	14336	211·8	218	207	..
125	13	15428	199·6	209	193	..	13	15261	199·1	207	186	..	..	..	..	..	..	..
100	8	16782	197·8	203	193	..	10	16567	195·9	203	185	..	..	..	..	..	..	..
80	5	18067	196·5	207	189	..	5	17915	198·4	205	193	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

May 1961 (Vaisakha 11 —Jyaistha 10, 1883 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (999 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew Point
Surface	31	941	301·7	305	300	297·5
1000	31	032	..	..	..	..
900	31	965	298·8	303	295	288·3
850	31	1467	296·6	301	293	282·9
800	31	1994	293·5	297	290	280·6
700	31	3128	284.4	289	280	274·8
600	31	4396	275.4	279	269	269·8
500	31	5846	266·5	270	259	..
400	31	7558	255·3	260	249	..
300	28	9646	233 6	249	235	..
250	25	10944	232.2	239	225	..
200	24	12435	221.4	226	212	..
175	23	13262	214·7	221	203	..
150	21	14298	207·6	216	196	..
125	19	15315	202·0	212	193	..
100	13	16663	196·1	207	189	..
80	14	17995	196.1	205	185	..
70	10	18760	200.2	203	196	..
60	9	19665	204·3	210	201	..
50	7	20770	209·6	220	204	..
40						
30						
20						
10						

RADIOSONDE DATA

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

(B) From A scents at 12 Hours G. M. T.

May 1961 (Vaisakha 11—Jaistha 1, 1883 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (987 mb.)						BOMBAY (1003 mb.)						CALCUTTA (999 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	098	313·8	318	309	288·2	31	013	303·7	305	297	297·0	29	006	304·1	310	297	297·7
1000	29	−023	..	..	..	..	31	038	..	..	..	..	29	000	..	..	..	..
900	29	941	306·3	312	301	284·9	31	976	298·7	304	294	285·1	29	937	299·0	305	290	290·8
850	29	1453	301·8	307	295	281·1	31	1471	296·1	301	291	283·7	29	1429	295·9	301	287	285·5
800	29	1986	296·9	303	291	278·9	31	1996	292·8	297	288	277·8	29	1963	292·3	297	284	282·0
700	29	3132	287·0	293	282	273·2	31	3130	284·8	289	280	272·9	29	3095	283·9	289	279	274·1
600	29	4408	276·8	281	272	265·4	31	4399	276·4	281	272	264·9	29	4362	276·3	281	269	266·4
500	29	5862	267·6	273	263	..	31	5857	267·9	273	257	..	28	5821	268·5	272	259	..
400	29	7582	258·2	265	250	..	31	7581	258·8	264	253	..	28	7548	259·3	263	251	..
300	27	9706	246·5	254	237	..	28	9720	246·5	253	239	..	28	9679	245·6	251	237	..
250	27	11002	238·4	247	232	..	21	11015	237·2	245	230	..	27	10978	237·0	241	232	..
200	22	12523	228·1	234	222	..	19	12538	226·5	233	220	..	24	12492	225·9	232	219	..
175	18	13401	222·8	230	217	..	16	13392	220·7	227	214	..	12	13335	218·9	226	210	..
150	15	14371	216·4	225	211	..	11	14385	213·9	221	205	..	8	14318	212·1	220	205	..
125	11	15512	209·1	215	200	..	9	15516	206·4	213	199	..	5	15414	204·0	213	196	..
100	8	16856	202·7	209	199	..	7	16869	201·0	207	195	..	5	16726	198·4	209	188	..
80	5	18141	200·6	207	195	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mbs.	GAUHATI (996 mb.)						JODHPUR (976 mb.)						MADRAS (1001 mb.)					
Surface	31	049	301·9	305	297	297·5	31	218	313·0	315	309	288·6	31	015	305·4	310	301	297.0
1000	31	009	..	..	..	..	31	−006	..	..	..	..	31	025	..	..	..	..
900	31	939	296·4	299	292	291·5	31	958	306·0	310	301	283·8	31	965	299·0	302	295	290·4
850	31	1436	293·7	296	289	288·6	31	1470	301·3	306	296	281·2	31	1466	295·8	299	292	286·6
800	31	1958	290·6	293	285	285·2	31	2003	296·2	301	289	278·8	31	1991	292·2	295	287	282.7
700	31	3087	283·7	287	278	276·4	31	3148	285·0	289	282	272·7	31	3125	284·6	288	281	276·0
600	31	4354	276·4	281	271	267·0	31	4420	275·9	281	273	262.5	31	4396	276·5	282	271	269·0
500	31	5814	269·3	273	264	..	31	5871	266·9	272	263	..	31	5854	268·3	273	265	..
400	31	7542	259·8	267	252	..	31	7588	257·5	265	252	..	31	7574	257·9	264	254	..
300	25	9682	246·8	253	239	..	26	9711	246·3	253	241	..	31	9686	243·0	251	230	..
250	19	10983	238·6	244	232	..	18	11005	238·9	244	233	..	29	10969	234·0	245	223	..
200	17	12514	228·4	235	218	..	13	12532	229·2	234	223	..	28	12460	221·1	231	211	..
175	10	13415	223·7	228	218	..	10	13450	225·4	234	221	..	26	13298	214·5	227	203	..
150	7	14392	217·0	221	211	..	8	14427	216·7	221	213	..	24	14276	206·3	220	193	..
125	5	15536	209·8	215	204	..	7	15564	210·1	216	204	..	20	15339	200·3	211	192	..
100	..	..	..	..	..	..	..	..	..	..	..	..	15	16699	196·3	204	190	..
80	..	..	..	..	..	..	..	..	..	..	..	..	10	18382	194.1	200	190	..
70	..	..	..	..	..	..	..	..	..	..	..	..	8	18796	194.3	198	190	..
60	..	..	..	..	..	..	..	..	..	..	..	..	7	19532	198.3	202	195	..
50	..	..	..	..	..	..	..	..	..	..	..	..	5	22581	199.6	207	191	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

May 1961 (Vaisakha 11—Jaistha 10, 1883 Saka)

Standard Pressure Surface mbs.	NAGPUR Surf. Pr. (965 mb.)						NEW DELHI (976 mb.)						PORT BLAIR (996 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	311	311.1	316	301	287·0	31	209	310·9	315	303	287·5	31	079	299·6	302	296	297·9
1000	31	014	..	..	..	..	31	012	..	..	..	..	31	045	..	..	..	..
900	31	947	306·5	310	299	282·9	31	945	305·1	309	299	284·5	31	970	294·7	297	292	291·2
850	31	1459	301·9	305	295	281·0	31	1454	300·5	305	295	281·5	31	1465	292·2	295	288	286·3
800	31	1991	297·1	301	292	279·9	31	1985	295·9	301	291	279·3	31	1985	289·4	292	286	285·7
700	31	3141	286·7	289	281	276·5	31	3125	285·7	291	282	272·6	31	3111	283·6	287	278	279·4
600	31	4415	275·7	279	271	270·1	31	4392	274·9	280	271	262·3	31	4379	276·6	281	271	273.5
500	31	5865	266·0	271	258	..	30	5835	265·3	271	257	..	30	5838	269·1	277	263	..
400	31	7575	255·8	262	250	..	30	7540	255·3	268	249	..	30	7566	258·9	267	247	..
300	27	9638	244·6	251	237	..	30	9644	244·5	252	234	..	28	9685	243·4	251	230	..
250	27	10966	235·5	243	227	..	30	10930	237·2	244	227	..	26	10962	232·9	243	217	..
200	25	12471	223·8	230	216	..	30	12453	228·2	234	220	..	26	12445	219·2	235	203	..
175	23	13318	217·2	223	200	..	30	13334	222·8	228	215	..	20	13323	212·3	230	200	..
150	23	14297	210·2	217	200	..	30	14326	216·6	223	210	..	17	14264	205·1	222	192	..
125	22	15377	203·5	212	193	..	30	15460	209·2	220	204	..	10	15390	199·7	215	190	..
100	17	16763	199·9	215	194	..	27	16809	203·4	209	198	..	..	..	..	..	..	..
80	14	18035	200.2	217	194	..	22	18097	200·3	207	190	..	..	..	..	..	..	..
70	9	18757	200.3	206	194	..	17	18891	202·8	209	193	..	..	..	..	..	..	..
60	8	19750	202.9	209	196	..	14	19821	206·4	213	201	..	..	..	..	..	..	..
50	7	20840	206.7	213	198	..	10	20941	212·2	219	204	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

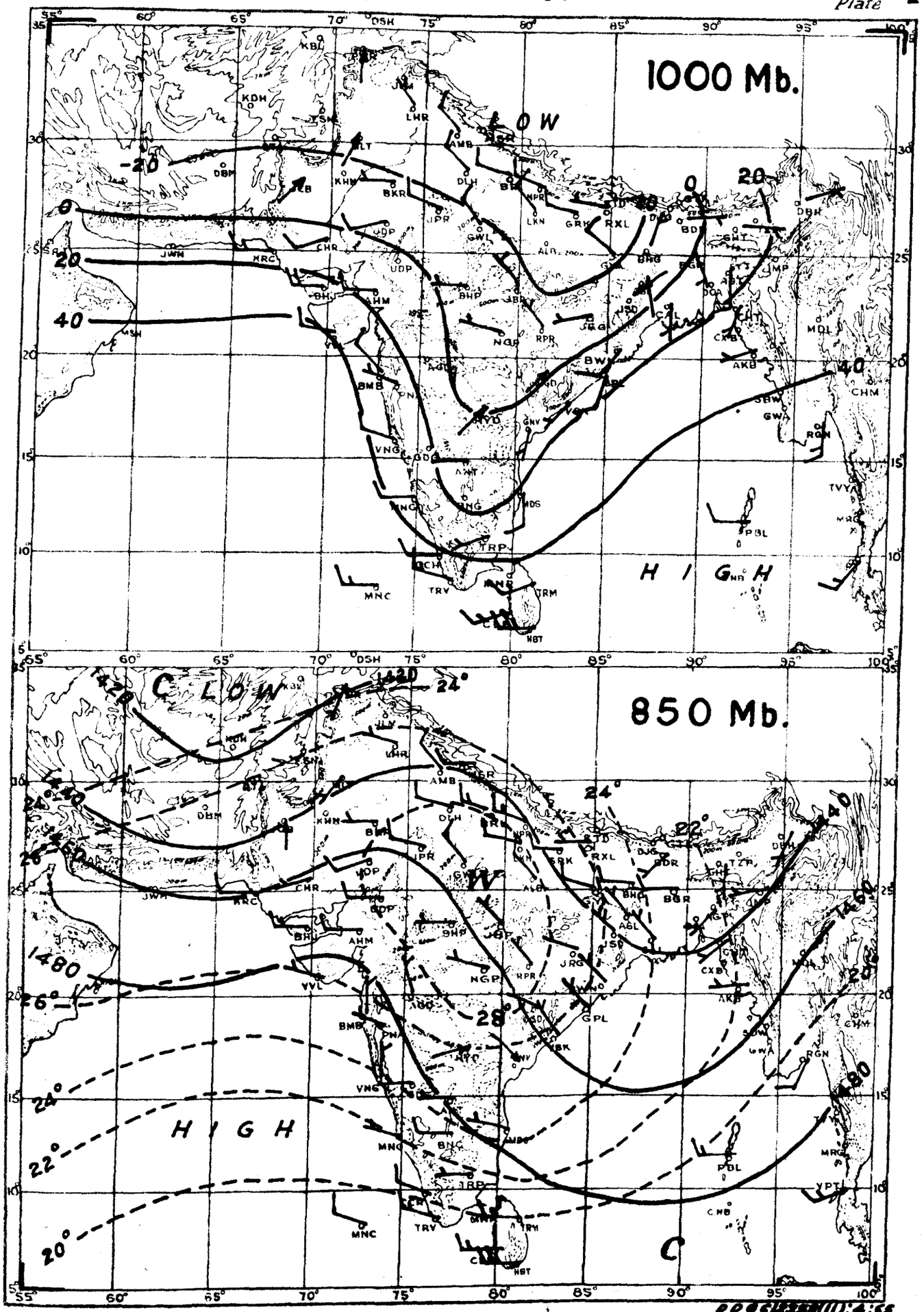
Standard Pressure Surface mbs.	TRIVANDRUM (999 mb.)						VERAVAL (1004 mb.)						VISAKHAPATNAM (997 mb.)					
Surface	31	964	301·6	305	297	296·8	31	008	302·8	304	299	300·3	31	014	304·1	305	302	298·9
1000	31	958	..	..	..	..	31	043	..	..	..	..	31	017	..	..	..	..
900	31	937	294·5	298	289	289·9	31	978	299·4	305	295	282·2	31	954	299·4	303	296	290·4
850	31	1432	292·1	295	287	286·5	31	1483	297·1	299	290	277·6	31	1458	296·3	300	293	286·6
800	31	2002	289·2	294	285	283·4	31	2011	293·5	298	288	277·1	31	1985	292·5	296	289	283·3
700	31	3127	283·4	289	279	275·2	31	3149	285·2	290	280	273·5	31	3117	284·5	293	279	276·3
600	31	4394	275·8	284	270	260·7	31	4426	277·0	283	273	266·0	31	4385	275·2	281	263	269·4
500	31	5818	267·6	277	257	..	30	5879	268·4	275	263	..	31	5836	266·8	272	261	..
400	31	7565	257·1	268	245	..	30	7607	258·4	263	249	..	31	7550	256·5	262	251	..
300	29	9685	243·1	252	234	..	28	9731	245·8	253	232	..	30	9656	242·0	247	234	..
250	28	10952	232·3	241	224	..	19	11019	237·0	246	220	..	30	10923	231·7	238	224	..
200	27	12435	219·4	234	207	..	14	12545	226·3	237	214	..	29	12403	219·7	228	210	..
175	25	13268	212·5	224	201	..	11	13443	219·5	231	208	..	27	13238	213·0	223	204	..
150	24	14226	204·9	216	195	..	10	14414	213·5	226	201	..	26	14207	205·0	217	194	..
125	21	15297	198·7	207	190	..	8	15506	204·1	211	196	..	21	15267	198·1	209	189	..
100	19	16594	193·1	204	186	..	7	16794	198·4	206	187	..	19	16562	193·3	207	181	..
80	8	17912	194·9	204	188	..	..	..	..	..	..	..	16	17849	195.7	211	181	..
70	5	18656	199.2	204	192	..	..	..	..	..	..	..	9	18601	195.0	205	188	..
60	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..
40	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..
30	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..
20	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..
10	..	..	..	..	..	..		..	..	..	..	..		..	..	..	..	..

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

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MAY 1961

I.Met.D. *Plate* I



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

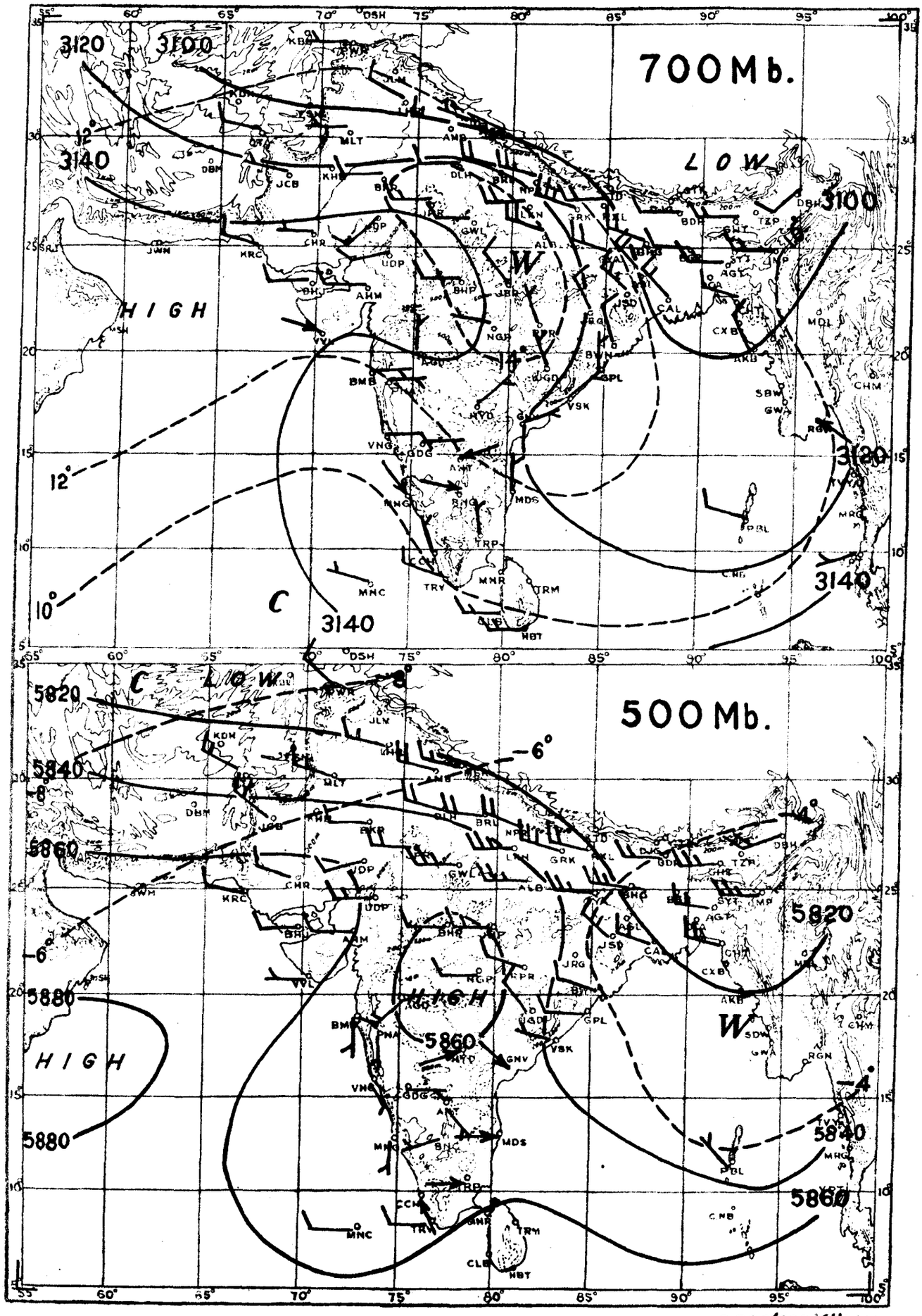
--------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

G.P.Z.P. POONA, 1963

MONTHLY MEAN CONSTANT PRESSURE CHARTS

MAY 1961

I.Met.D. Plate II



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

PDGC/2958(i):4:65

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

G.P.Z. P. POONA, 1963

Registered No. B-3097

INDIA WEATHER REVIEW, 1961

Monthly Weather Report

JUNE

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E. S. S. A.
U. S. Dept. of Commerce

Published by authority of the Government of India

Chief features :—

(i) Development of two depressions in the Bay of Bengal and of one cyclonic storm in the Arabian Sea;

(ii) Extension of the monsoon over the whole country by 21st June; and

(iii) Vigorous monsoon conditions along the west coast towards the end of June.

The previous month's severe cyclonic storm of the Bay of Bengal, which had struck East Pakistan coast on 30th May and lay as a shallow low over central Assam on 31st May, moved away northeastwards by 2nd June. Under its influence, fairly widespread rainfall with a few very heavy falls occurred in Assam on 1st and 2nd. Cherrapunji recorded 28 cm on 1st and 22 cm on 2nd, Tura 32 cm and Haflong 15 cm on 2nd.

An upper air trough extending from West Pakistan to the north and adjoining central Arabian Sea persisted during the first week of the month. Also, in association with an easterly wave, a depression formed over the head Bay of Bengal with centre about 200 kms east of Sandheads on the morning of 8th June. It moved to Bihar Plateau and adjoining northeast Madhya Pradesh on 10th remained practically stationary for two days and then recurved northeastwards. It filled up over Bihar Plains and neighbourhood by 15th. Under the influence of these two systems, the monsoon strengthened along the west coast and advanced as a feeble current into West Bengal, Orissa, Bihar State, east Uttar Pradesh, east Madhya Pradesh and Maharashtra State on 6th June. Active to vigorous monsoon conditions prevailed over some parts of northeast India and in east Madhya Pradesh between 10th and 13th. The monsoon also extended to west Madhya Pradesh, the Punjab-Kumaon hills and Himachal Pradesh by 13th. Ratnagiri reported 19 cm of rain on 9th, Raigarh 19 cm on 11th, Champa 13 cm on 12th and Darjeeling 17 cm on 13th. Cherrapunji reported 25 cm on 11th, 39 cm on 12th, 40 cm on 13th and 30 cm on 14th.

In association with an easterly wave, an upper air low developed over the east central Bay of Bengal off the Arakan coast on 16th. It moved in a westerly direction, crossed the Peninsula and emerged into east central Arabian Sea where it developed into a depression centred about 200 kms westnorthwest of Bombay on 21st morning. Moving northwestwards, it intensified into a cyclonic storm with centre about 150 kms west of Porbandar on 23rd morning. It recurved, crossed Kutch coast near Naliya the same night and progressively weakened. It merged into the seasonal low on 28th. Under its influence, general revival of the monsoon took place over the country on 18th and it extended to cover the whole country by 21st. Fairly widespread rainfall occurred in the belt extending from coastal Andhra Pradesh to the south Konkan from 19th to 21st and in the north Konkan and Saurashtra and Kutch from 21st to 24th. Fairly widespread rain also occurred in west Rajasthan from 23rd to 26th. A few noteworthy amounts of rainfall were : Gulbarga 7 cm on 20th, Bombay 8 cm on 21st, Dwarka 8 cm on 24th and Barmer 10 cm on 26th.

Under the influence of another easterly wave, a depression developed over the east central Bay of Bengal with centre above 200 kms southwest of Sandoway on the morning of 27th. It intensified into a deep depession, crossed the Sunderbans coast on the afternoon of 28th and weakened rapidly. It filled up over Bihar State on 30th. In association with it, the monsoon was active in West Bengal, Bihar State and the Punjab-Kumaon hills and vigorous along the west coast towards the close of the month. A few noteworthy amounts of rainfall were : Mahabaleshwar 36 cm, Ratnagiri 24 cm and Mangalore 20 cm on 26th, Kozhikode 23 cm on 27th, Askote 19 cm and Nainital 18 cm on 29th and Mercara 27 cm and Karwar 25 cm on 30th.

Rainfall for the month was in large excess in Bihar Plateau, west Rajasthan, Saurashtra and Kutch, coastal Andhra Pradesh, Rayalaseema, the Madras State, Kerala and the Arabian Sea Islands, in moderate excess in Jammu and Kashmir, east Madhya Pradesh and coastal and south Interior Mysore, in slight excess in Gangetic West Bengal, Orissa, Bihar Plains the Konkan, Madhya Maharashtra, Marathwada and north Interior Mysore and normal in the Punjab (I) and Gujarat Region. It was in slight defect in the Bay Islands and in moderate defect over the rest of the country outside Himachal Pradesh.

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1—261 D. D. G. Obs. Poona/65.

The mean maximum temperature was below normal in Orissa, Bihar State, west Rajasthan, east Madhya Pradesh, Marathwada, Vidarbha, Andhra Pradesh, the Madras State and Interior Mysore State and normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in Jammu and Kashmir, below normal in east Madhya Pradesh, Gujarat Region, Vidarbha and coastal Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Bihar State, the Punjab (I), east Madhya Pradesh, Saurashtra and Kutch, Telangana, Rayalaseema the Madras State and Interior Mysore State, below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in east Uttar Pradesh, east Rajasthan, the Madras State and north Interior Mysore, below normal in the Punjab (I) and normal over the rest of the country outside Himachal Pradesh.

Table 1 contains the divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 15 chief political divisions and the 31 sub-divisions. The stations whose observations are used for preparing these means are given in the subsequent tables.

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

POONA 5,
Dated the 18th August, 1961.

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

Errata to M.W.R. for June 1961 (Jyaistha 11 - Asadha 9, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
290	Agartala		12	+251.4	+257.4
290	Jalpaiguri		13	123.0	133.0
290	Suri		19	0.6	10.6
291	Jharsuguda		10	212.0	212.3
291	Jharsuguda		20(b)	(Blank)	15
291	Bahraich		3	-1.1	+1.1
291	Gonda		16	+3.3	-3.3
291	Lucknow		8	44.1	24.1
291	Lucknow		16	+4.5	-4.5
292	Meerut		5	2,17	2,12
292	New Delhi (Safdarjung)		14	(Not clear)	21
292	Ganganagar		16	-3.3	+3.3
292	Barmer		10	135.3	135.0
293	Kanker		13	108.2	108.0
294	Porbander		19	-0.7	+0.7
294	Vengurla		9	(Blank)	8
294	Malegaon		19	+0.3	-0.3
294	Masulipatam		25	1	0
295	Ramgundam		17	11	11.4
295	Hyderabad (Begumpet)		28	0	2
295	Hyderabad (Begumpet)		29	2	0
295	Madurai		12	+11.5	-11.5
295	Tondi		15	(Blank)	1
295	Pamban		19	+ .5	+1.5
295	Bijapur		20(a)	0	1
295	Raichur		6	23.1	23.4
296	Nainital		10	206.6	206.0
296	Mahabaleshwar		11	963.4	993.4
296	Hazaribagh		9	4	14
297	Tikhri		8	21.0	24.0
297	Angbung		2	38.5(a)	28.5(a)
Table III					
299	Baghdogra	0530	10	30.8	30.7
299	Malda	1730	21	1	12
300	Burdwan	1730	11	77	79
301	Puri	1730	11	.	88
302	Jamui	0830	1	(Not clear)	Jamui
303	Varanasi	0830	15	4.5	4.7
303	Roorkee	1730	24	(Blank)	1
303	Bareilly (P.B.O)	0530	15	7.2	6.2
304	Orai	1730	8	27.9	29.9
304	Palam (Aerodrome)	1130	4	998.8	998.9
305	Jodhpur	2330	5	(Not clear)	974.0
306	Alwar	1730	28	0	1
306	Dholpur	0830	5	978.8	979.8
306	Guna	0830	6	0.8	+0.8
307	Guna	1130	19	9	0
307	Betul	0830	15	1.0	13.0
308	Bhuj (Rudramata)	0830	26	0	1
308	Bhuj (Rudramata)	1130	26	0	1
310	Ahmednagar	1730	19	0	2
310	Baramati	0830	4	1004.1	1004.9
313	Karwar	0830	8	24.5	24.6
314	Gulbarga	0830	9	20.0	21.0
314	Gulbarga	1730	9	21.0	20.0
314	Shimoga	0830	4	1017.6	1007.6
314	Bangalore	1130	4	(Not clear)	1492.8
314	Bangalore Aerodrome	2330	9	19.2	19.9
314	Alleppey	1730	2	1750	1730
315	Mukteswar (Kumaon)	0830	10	14.8	14.7
317	Barahakshetra	1130	22	4	1

P.T.O.

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
320	Amausi	1730	1.5	v	8.8	3.8
321	Baghdogra	0530	1.5	v	9.5	5.5
324	Bikaner	0530	2.1	D	209	205
332	Santacruz	1730*	7.2	D	116	126
333	Veraval	0530*	Surface	D	258	259
335	Bhubaneshwar	1730	21.0	V	6.5	65.0
335	Gadag	0530	12.0	V	1.45	14.5
335	Gopalpur	0530	10.5	Ht. in Km.	1.05	10.5
336	Nagpur	1130	12.0	D	099	090
336	New Delhi	0530*	24.0	D	001	100
336	New Delhi	0530*	27.0	D	660	060
RADIOSONDE DATA						
342	Nagpur	12 GMT	1000 mb.	Ht gpm	016	-016

SG.7-2

Division	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	323.4	74	31.3	24.4	83	77	6.6	5.6
	−112.2		+0.4	+0.4	+1		−0.5	
2. West Bengal	1349.2	98	32.8	25.6	82	79	6.0	5.9
	−21.1		−0.9	−0.3	+3		+0.3	
3. Orissa	273.7	125	33.1	25.5	79	73	6.2	6.7
	+55.5		−1.1	−0.7	+4		+0.6	
4. Bihar	236.9	134	33.8	25.6	77	70	5.6	5.6
	+59.9		−1.2	−0.4	+12		+0.8	
5. Uttar Pradesh	70.4	57	38.0	27.7	61	46	3.5	3.7
	−52.9		+0.4	+0.4	+2		−0.3	
6. Punjab (India) (Including Delhi)*	49.9	91	39.8	28.1	54	38	1.5	2.5
	−4.9		−0.6	+0.4	+6		−0.5	
7. Jammu and Kashmir.	47.1	128	22.8	10.5	55	45	3.2	4.0
	+10.2		−1.0	+1.1	−7		+0.5	
Sub-Division								
1. Bay Islands	412.3	75	29.4	23.9	84	89	7.4	7.5
	−140.2		+0.3	0	+2		+0.7	
2. Assam (Including Manipur, Tripura).	323.4	74	31.3	24.4	83	77	6.6	5.6
	−112.2		+0.4	+0.4	+1		−0.5	
3. Sub-Himalayan, West Bengal.	426.0	71	31.1	24.7	86	81	6.5	5.5
	−172.8		−0.8	0	+2		+1.0	
4. Gangetic, West Bengal.	293.9	113	33.3	25.9	81	79	5.9	6.0
	+34.0		−0.9	−0.3	+3		+0.1	
5. Orissa	273.7	125	33.1	25.5	79	73	6.2	6.7
	+55.5		−1.1	−0.7	+4		+0.6	
6. Bihar Plateau	309.0	151	34.0	25.2	74	70	5.8	6.3
	+104.8		−1.2	−0.5	+6		+0.9	
7. Bihar Plains	228.4	118	32.3	25.9	79	70	5.5	5.0
	+35.4		−1.2	−0.2	+6		+0.7	
8. Uttar Pradesh, (East).	73.9	57	38.5	28.0	63	48	4.2	4.1
	−56.5		+0.5	+0.5	0		+0.8	
9. Uttar Pradesh, (West).	66.4	58	39.0	27.3	59	45	2.7	3.6
	−49.0		+0.3	+0.2	+4		−0.2	
10. Punjab (India) (Including Delhi).	49.9	91	39.8	28.1	54	38	1.5	2.5
	−4.9		−0.6	+0.4	+6		−0.5	
11. Himachal Pradesh.	121.3	..	36.0	22.4	67	51	3.2	4.9
	—		..	..	..		..	
12. Jammu and Kashmir.	47.1	128	22.8	10.5	55	45	3.2	4.0
	+10.2		−1.0	+1.1	−7		+0.5	
13. Rajasthan, West	120.5	311	39.5	27.5	61	34	2.3	2.0
	+81.7		−1.1	−0.3	+5		−0.3	
14. Rajasthan, East	38.4	51	38.1	27.2	58	37	3.1	4.0
	−36.7		−0.5	−0.3	+2		+0.7	
15. Madhya Pradesh (West).	92.7	69	36.9	25.8	65	46	4.5	5.4
	−41.7		−0.2	−0.4	+3		+0.4	

Division	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. IST	Relative humidity % 1730 hrs. IST	Cloud 0830 hrs. IST	Cloud 1730 hrs. IST
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	79.5	139	38.7	27.4	59	36	2.7	3.2
	+22.5		−0.7	−0.3	+3		+0.2	
9. Madhya Pradesh	176.2	107	36.1	25.4	67	52	5.1	5.9
	+12.2		−0.8	−0.7	+6		+0.7	
10. Gujarat State.	151.5	141	35.6	25.9	81	63	5.1	4.6
	+44.3		−0.8	−0.8	+5		+0.4	
11. Maharashtra State	207.7	107	33.2	23.9	77	62	5.6	6.2
	+12.8		−0.9	−0.9	+4		+0.5	
12. Andhra Pradesh	133.0	138	35.9	25.5	72	57	5.7	6.0
	+36.6		−1.4	−0.8	+6		+0.2	
13. Madras State	71.5	179	34.1	25.2	71	64	6.0	6.5
	+31.6		−1.4	−0.5	+6		+1.6	
14. Mysore	367.5	127	29.7	21.4	85	69	6.7	7.0
	+78.7		−1.0	−0.4	+7		+1.0	
15. Kerala	986.0	156	28.5	23.7	90	86	6.7	7.0
	+353.2		−0.7	−0.1	+3		+0.1	
Sub-Division—*contd.*								
16. Madhya Pradesh (East).	282.4	140	34.9	24.9	70	60	5.9	6.6
	+80.6		−1.5	−1.1	+9		+0.9	
17. Gujarat Region	144.0	102	35.6	25.5	77	55	5.1	4.4
	+2.9		−0.7	−1.1	+1		−0.2	
18. Saurashtra and Kutch.	156.6	184	35.5	26.3	84	69	5.1	4.8
	+71.9		−0.8	−0.6	+9		+0.7	
19. Konkan	587.2	113	31.1	25.4	85	80	6.7	6.7
	+68.3		+0.1	−0.5	+3		+0.6	
20. Madhya Maharashtra	212.6	111	32.0	22.2	78	61	5.5	6.1
	+22.5		−1.0	−0.6	+4		+0.4	
21. Marathwada	166.8	120	33.5	22.5	75	51	5.6	6.2
	+27.7		−1.1	−0.3	+3		+0.1	
22. Vidarbha	130.3	72	35.6	24.5	70	52	5.4	6.0
	−50.5		−1.4	−1.6	+5		+[illegible]	
23. Coastal Andhra Pradesh.	157.7	180	34.9	26.4	74	65	5.8	6.2
	+70.5		−1.4	−1.0	+5		−0.5	
24. Telangana	101.9	74	34.5	24.6	72	53	5.6	6.2
	−35.5		−1.1	−0.5	+7		+0.5	
25. Rayalaseema	131.2	194	35.2	25.2	69	48	5.6	5.4
	+63.5		−1.7	−0.9	+7		+0.4	
26. Madras State	71.5	179	34.1	25.2	71	64	6.0	6.5
	+31.6		−1.4	−0.5	+6		+1.6	
27. Coastal Mysore	1238.2	126	29.2	22.8	90	84	7.0	7.5
	+260.0		−0.2	−1.1	+2		+0.2	
28. Interior Mysore, North.	127.2	114	31.5	21.9	82	65	6.7	7.1
	+15.7		−1.3	−0.4	+7		+1.7	
29. Interior Mysore, South.	172.6	142	28.3	20.4	86	67	6.4	6.6
	+51.1		−1.1	−0.1	+7		+0.4	
30. Kerala	986.0	156	28.5	23.7	90	86	6.7	7.0
	+353.2		−0.7	−0.1	+3		+0.1	
31. Arabian Sea Islands.	593.2	182	29.8	24.8	85	83	7.1	6.9
	+261.6		−0.5	−0.6	+4		+1.1	

NOTE —The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·6	..	32·2	19	23·7	..	22·2	5,17	211.2	546·3	..	66.8	17	20	..	20·7	15·9	..	0	20	0	0	0	0	0	0	0	0	0
Long Island	30·6	..	33·3	12,16	24·2	..	20·4	24 8	182.4	349·0	..	45·0	23	16	..	9·4	6.8	..	0	18	0	0	6	0	0	0	0	0	0
Port Blair	29·4	+0·3	30·7	18	23·9	0	18·9	26	209.0	412·3	−140.2	61·2	27	18	−3·5	27.6	21.0	−1.0	1	21	0	0	2	0	0	0	0	8	0
Carnicobar (Aerodrame)	30·2	..	31·7	14	23·9	..	21·8	11	123·3	366·5	..	75·0	27	13	..	7.4	4.2	..	0	18	0	0	3	0	0	0	0	0	0
Nancowry	30·1	..	31·6	14	25.7	..	22·2	21	80·8	126·2	..	40·4	21	9	..	14·5	10·9	..	0	16	0	0	2	0	0	0	0	0	0
Kondul	29·4	..	30·9	1	24·9	..	22·7	14	22.6	142·6	..	43·4	14	9	..	..	..	..	0	14	0	0	1	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	31·3	..	36.6	26	23·3	..	20·3	1	69·9	595 5	..	78·0	13	15	..	4.6	4·3	..	0	18	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	31·6	+1.0	37.0	27	24·0	+0·6	20·0	1	47·5	348·7	−150·9	74·6	4	12	−7.6	6·0	4·2	0	2	16	0	0	13	1	0	0	0	0	0
Dibrugar	31·9	+1·3	37·2	10	24·0	+0·6	20·0	1	13·9	250·5	−249.1	70·8	1	10	−9·6	4·1	2·7	+0·8	0	14	0	0	6	0	0	0	0	0	0
Digboi (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	31·9	+1.8	36·7	27	24·4	+0·4	21.1	1	66·9	326·0	−286·0	75·8	30	16	−4.4	..	..	..	0	16	0	0	11	0	0	0	0	0	0
Sibsagarh	32·4	+1·0	37·2	27	25·1	+0·6	22·1	5	29·7	104·1	−280·2	24·7	1	11	−6·1	6·2	5·0	+1·5	0	17	0	0	10	0	0	0	0	0	0
Gohpur (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mazbat	..	..	..	..	..	..	..	..	59·0	280·7	..	61·4	21	15	..	7·0	3·5	..	0	17	0	0	1	0	0	0	0	0	0
Jorhat (Aerodrome)	32·2	..	37·3	27	24·5	..	22·2	5,6	25·9	244·5	..	74·4	16	11	..	..	..	..	0	17	0	0	5	0	0	0	0	0	0
Tangla	32·9	..	39·5	13	24·5	..	21·7	7,15	20·5	69·6	..	8·5	13	2	..	0·5	0.9	..	0	8	0	0	0	0	0	0	0	0	0
Tezpur	31.1	−0·3	36·1	27	24·9	+0·2	22·3	6,7	48·6	187·4	−121·0	41·6	30	11	−5·0	6·3	5·0	+1·9	1	16	0	0	0	0	0	0	0	0	0
Golagha	32.5	..	37·8	27	24·3	..	22·2	13,15	21·0	273·2	..	95·0	27	12	..	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	33·0	..	37·8	27	25·0	..	22·2	1	74·8	209·0	..	34·4	25	12	..	6·7	5·2	..	0	12	0	0	2	0	0	0	0	0	0
Goalpara	32·1	..	37·0	27	23·5	..	21·1	1,2	(b) 96·2	345·6	..	113·4	1	16	..	(c) 4·7	(c) 3.1	..	0	17	0	0	0	0	0	0	0	0	0
Gauhati	31·9	+0.3	36.7	27	25·5	+0.6	23.4	5,6	64·2	277·2	−35.2	79·8	30	12	−2.7	0	0	−2·3	0	15	0	0	2	0	0	0	0	0	0
Gauhati (Bhorjor)	31·8	+0·2	36·5	27	25·2	+1·0	23·4	5,17	45·7	177·3	−135·1	34·9	30	14	..	7.5	5·3	..	2	17	0	0	16	0	0	0	0	0	0
Dhubri (Rupsi)	31.5	..	..	..	24·5	..	..	23 ..	(i) 49·4	569·3	..	..	..	..	..	(i) 5.9	(i) 3·9	..	..	..	0	0	14	0	0	0	0	0	0
Dhubri	30·3	+0.5	35·7	28	25·2	+0·7	22·8	2	81·4	443·6	−168·6	115·6	2	14	−4·1	5·2	4·0	−2·9	0	14	0	0	4	0	0	0	0	0	0
Lumding	32·8	+0·7	37·3	10	24·4	+0.3	22·4	5	45.2	167·5	−77·6	90·0	21	9	−4·7	4·0	2·2	..	0	9	0	0	2	0	0	0	0	0	0
Umroi	27·5	..	30·8	10,28	20·4	..	17·1	1	188·0	349·0	..	46·2	21	20	.	6·9	4·2	..	0	27	0	0	19	5	0	0	0	0	0
Tura	29.2	..	34·2	27	21·6	..	18·3	2	196·1	517·9	..	118·2	2	18	.	6·7	6·1	..	1	23	0	0	0	0	0	0	0	0	0
Haflong	28·0	..	31·7	10	21·4	..	18·9	2	199·4	400·4	..	147·8	2	20	..	..	..	..	0	24	0	0	4	1	0	0	0	0	0
Silchar(Kumbhigram)	31·1	..	36·3	27	23·5	..	20·8	1	118·7	506.9	..	86·0	2	17	..	6·5	5·7	..	0	21	0	0	17	0	0	0	0	0	0
Silchar	30·1	−1·7	35.5	9	24.8	+0·2	21·6	1	139·0	544·2	−44·3	136.2	16	19	−2·3	3·5	2.0	−0·7	0	23	0	0	9	0	0	0	0	0	0
Imphal (Tulihar)	28·7	0	33.1	27	21.8	+0.6	20·1	2	87·0	209·3	−69·0	32.0	8	16	+1·0	7·1	4·9	−2·0	0	20	0	0	9	2	0	0	0	0	0
Kailashshar	31.5	..	36·6	27	24·4	..	21·3	16,17	139·7	368·4	..	75·6	3	19	..	5·8	3·8	..	0	22	0	0	18	0	0	0	0	0	0
Agartala	31.4	−0·1	35·6	28	24·5	−0·2	19·5	16	363·7	699·3	+251·4	228·6	16	17	−0·7	10·5	8·7	−1·0	0	21	0	0	17	0	0	0	0	1	0
Sub-Himalayan West Bengal																													
Baghdogra	31·3	0	36·2	27	24·0	0	21·6	24	182·6	503·9	−124·7	108·8	5	17	−3.1	15·4	12·7	+5·0	1	22	0	0	14	0	0	0	0	0	0
Jalpaiguri	29·2	−2.2	34·9	27	24·5	+0·2	22·5	6	126·2	551·2	−107·7	123·0	1	18	−1·1	11·8	9·1	+5·7	0	21	0	0	11	0	0	0	0	0	0
Cooch Behar	31·4	..	36·4	27	24·3	..	21·9	1	100·8	458·4	−399·9	102·1	1	18	−2·6	7·0	4·3	..	1	19	0	0	15	1	0	0	0	0	0
Balurghat	32·0	..	37·6	27	24·0	..	20·8	18	94·6	503·5	..	193·6	5	16	..	9·0	7·9	..	1	22	0	0	4	0	0	0	0	0	0
Malda	32·7	−0·4	38·9	2	25·5	−0·2	21·9	18	70·8	190·6	−58·8	50·4	11	11	−0·5	10·5	8·9	+0·2	0	14	0	0	8	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	33·6	−0·1	38·9	2	25·7	−0·1	21·9	18	87·2	216.1	−29·5	54.4	11	12	−0·3	7·7	5·8	−0.2	0	12	0	0	0	0	0	0	0	0	0
Suri	34.1	..	44·4	2	25 9	..	22·2	14	121.4	169.0	..	30·2	10	12	..	10·2	0·6	..	0	15	0	0	2	0	0	0	0	0	0
Asansol	34·5	−2·1	45·0	2	26·1	−0.1	22·8	18	145.5	228·3	−13·2	47.3	10	11	−0·7	10·3	8·4	−0.1	1	13	0	0	12	0	0	0	0	2	0
Santiniketan	34.4	..	42·1	2	26.0	..	22·6	18	116.3	207.6	..	53.6	10	9	..	11·9	10·9	..	2	12	0	0	9	0	0	0	0	0	0
Krishnanagar	33·9	+0·1	37.8	26	26·4	+0.6	23·6	18	129·2	180.5	−81·9	43·2	13	11	−1·7	7·0	6·2	−1·8	2	14	0	0	17	0	0	0	0	0	0
Purulia	34·4	−1·8	43.9	2,3	26·0	−0·1	22·8	7	146·3	237·2	+43·8	63.2	29	10	−0.8	8·9	7.1	+0.2	0	12	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	326·6	+59·1	55·4	18	12	+0·9	..	..	..	0	13	..	..	..	..	.	..	..	..	..
Burdwan	30·9	−3·3	38·7	2	25·5	−0·5	22·0	24	112.0	315·9	+48.7	119·0	11	14	+1 6	12·2	8·6	+3·6	0	18	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	33·6	..	37·3	7	25·8	..	22·1	14	107·0	226·4	..	50·1	14	9	..	..	..	..	0	13	0	0	15	0	0	0	0	0	0
Calcutta (Dum Dum)	33·6	−0·4	37·0	6,17	26·1	−0·2	22·3	14	179·3	309·5	+58·0	50·0	24	15	+3·3	11·2	8·9	−3·6	0	18	0	0	20	0	0	0	0	0	0
Calcutta	33.9	+0·3	38·3	6	26·5	+0.6	22·7	18	107·1	254·7	−42·2	82·4	11	13	−0 2	11·0	8·1	+1·2	1	18	0	0	17	0	0	0	0	4	0
Midnapore	34·3	−0·3	40·3	2	25.9	−0·3	22·2	18	184·9	481·9	+222·6	100·8	11	14	+1·6	(b) 8·3	6·5	+1·0	0	18	0	0	4	0	0	0	0	0	0
Contai	32·2	−0·3	35·6	27	25·5	−1.3	13·8	12	124·2	285.4	+6.3	59·3	12	16	+4·5	15.1	13 5	−0.7	0	18	0	0	0	0	0	0	0	0	0
Saugor Island	31·4	−0·6	35·3	27	26·5	−0·7	20·0	11	116·2	409·3	+113·9	116·0	10	14	+1·9	27·7	28·6	+7·4	1	17	0	0	9	0	0	0	0	1	0
Sandheads	31·7	..	37·0	26	27.3	..	22·1	11	64·2	159·9	−40·0	58·8	9	9	−0·4	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	34·4	..	40·7	3	26·0	..	22·7	18	118·8	296·6	..	81·0	18	17	..	3·6	2·7	..	0	18	0	0	15	0	0	0	0	0	0

(b) Total or Mean of 29 days. (i) Total or Mean of 22 days. (c) Mean of 28 days (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Orissa—*Contd.*																													
Jharsuguda	33.9	—3·6	44·6	3	25·9	—0·7	21·9	11	212·6	450·5	+228·4	197·9	11	11	+0·5	12·2	10·0	0	2	1	0	0	16	0	0	0	0	0	0
Keonjhargarh	32.0	..	40·6	3	24·2	..	20·5	6,24	110·0	248·0	..	72·0	10	12	..	9·0	7·6	..	0	18	0	0	1	0	0	0	0	0	0
Balasore	34·0	0	39·9	4	26·5	+0·3	22·8	18	93·3	267·4	+31·5	82·4	18	13	+1·9	11·0	8·3	+0·6	0	18	0	0	20	0	3	0	0	0	0
Sambalpur	34·3	—2.1	44·7	4	25·9	—1·0	22·8	19	222·4	460·1	+203·8	118.6	11	15	+4·3	7·5	8·1	+1·7	0	17	0	0	2	0	0	0	0	0	0
Angul	34·2	—1·5	43·1	3	26·0	—0·1	23·0	8	113·4	289·8	+72·9	101.0	10	11	+0·6	16·1	10·6	+2·2	0	12	0	0	5	0	0	0	0	0	0
Cuttack	34·7	—0·6	40·9	2	26·3	—0.1	23.3	18	91·4	266·2	+13·5	80·4	8	15	+3.6	11·2	9.2	+4·4	0	15	0	0	3	0	0	0	0	0	0
Chandbali	34·0	—0·4	40·0	2,3	24·1	—2·4	21·7	24	40·6	215·6	—6·4	89.2	9	10	—1·3	15·8	13·2	+0·3	0	15	0	0	0	0	0	0	0	0	0
Bolangir	34·5	..	44·1	3	25·5	..	21·5	22	164·2	414·6	..	68·6	11	13	..	11·3	10.4	..	0	14	0	0	8	0	0	0	0	0	0
Phulbani	32·2	..	40·3	1,3	23·7	..	20·2	25	78·9	185·9	..	55·0	28	10	..	6·9	5.1	..	1	17	0	0	5	0	0	0	0	0	0
Titilagarh	37·8	..	45·3	4	24·7	..	21·7	26	109.3	253·5	..	53·4	8	13	..	3·8	4·9	..	0	13	0	0	15	0	0	0	0	0	0
Bhubaneswar	34·2	—1·1	40·0	2	26·0	—0·4	22·4	13	36.1	155·5	—67·0	62·4	8	8	—4·4	24·9	21·6	+2·5	0	12	0	0	10	0	0	0	0	0	0
Puri	31·8	+0·1	36·8	27	27·1	—0·1	24·1	24	118·3	194·9	+5·4	92·0	24	8	—0·1	25·0	24·6	+5·1	1	12	0	0	4	0	0	0	0	0	0
Gopalpur	31·8	—0.3	37·4	7	26·6	—0·2	24·1	9,24	48.3	165·4	+24·7	62·2	9	6	—1·6	22·8	20 4	+3.3	2	10	0	0	5	0	0	0	0	0	0
Koraput	28·4	—2·0	36·1	3	20·4	—1·9	13·3	29	49·0	(f) 133·5	..	..	..	..	..	..	..	..	..	..	0	0	2	0	0	0	0	0	0
Bihar Plateau																													
Dumka	33·4	—1·1	44·2	2	25·9	+0·1	22·7	14	151·8	215·6	—38·4	38·0	11	11	—0·9	(h) 13·0	(h) 10·2	+5·7	2	14	0	0	0	0	0	0	0	0	0
Daltonganj	36·2	—1·7	45·0	2	26·2	—1·0	11·9	13	101·4	249·8	+96·9	104·0	13	12	+3·8	..	..	..	0	13	0	0	0	0	0	0	0	0	0
Hazaribagh	31·8	—2·1	41·3	2	24·0	—0·5	19·2	14	101·7	400·7	+189·1	154·8	7	10	—0·7	12.3	9·8	—1·1	2	13	0	0	14	0	0	0	0	1	0
Dhanbad	34·5	..	44·7	2	25·6	..	22·2	14	104·9	265·6	..	96·2	9	10	..	11·6	8·2	..	0	15	0	0	10	0	2	0	2	0	0
Ranchi	33·1	—0·2	42·1	3	..	..	..	..	120·7	347·7	+129·5	98·3	10	12	+0·6	8·5	6·2	—2·7	0	13	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	31·5	..	41·8	2	23·7	..	20·4	14	136·8	316.7	..	76·4	7	9	..	(i) 14·6	12·7	..	16	0	0	0	0	0	0	0	0	0	0
Jamshedpur	35·0	—1·1	44.4	3	26·3	—0·4	22·3	14	174·3	466·3	+275·6	95·4	13	15	+4·3	10.6	8·1	+0·7	1	19	0	0	9	0	0	0	0	0	0
Jamshedpur (PBO)	34·5	..	43·8	3	25·8	..	21·8	14	137·0	318·1	..	61·4	7	15	..	10·6	8·6	..	0	19	0	0	20	0	1	0	0	1	0
Chaibasa	34·8	—1·3	44·4	3	26·1	—0·1	22·7	14	66·2	173·7	—24·2	46·4	30	12	+1·3	11·3	8·6	+4·3	0	17	0	0	1	0	0	0	0	0	0
Bihar Plains																													
Motihari	32·2	—2·0	38·8	1	25·3	—0·1	21·3	16	55·5	292·2	+71·0	106·4	14	10	+0·6	4·5	3·3	—4·4	0	10	0	0	0	0	0	0	0	0	0
Forbesganj	32·8	..	38·9	1	24.6	..	22·2	24	111·2	345.1	..	54·2	13	14	..	11·0	8·8	..	0	18	0	0	16	0	0	0	0	0	0
Darbhanga	34·0	+0·2	39·4	20	25·8	0	21·1	17	45·1	201.3	+8·8	70·0	13	9	+0.2	11·4	9·5	+2·6	2	9	0	1	1	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	121·4	—74·2	47·0	13	8	—0·1	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Chapra	36·2	..	44·4	2	27.1	..	22·4	14	37·2	128·8	—21·8	35·6	14	9	+1·8	2·7	4.5	..	0	10	0	0	1	0	0	0	0	0	0
Purnea	32·1	—0·9	38·6	1	25·3	+0·1	22·8	14	155·2	405·9	+146·1	114·0	13	13	+1·2	8·4	6·3	+1·5	0	15	0	0	7	0	0	0	0	0	0
Patna	35·8	+0·1	43·9	2	26·9	+0·3	23·3	14	29·6	68·0	—113.4	17·2	12	6	—2·0	8·5	9·5	+1·5	0	9	0	0	3	0	0	0	0	0	0
Patna Aerodrome	35·2	..	43·6	2	26·6	..	22·8	14	62.8	115·4	..	22·2	12	8	..	11·1	9·2	..	0	11	0	0	9	0	0	0	0	1	0
Arrah	..	..	..	..	..	..	..	..	..	168·7	+11·2	54·8	13	9	+1·5	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Bhagalpur	33·3	—2·0	41·9	1	25·6	—0·8	22·6	14	77·9	126·4	—81·2	37·7	13	7	—1·7	10·2	8·3	+0·1	1	13	0	0	10	0	0	0	0	0	0
Sabaur	33·0	—1·7	41·7	1	25·9	—0·3	23·3	18	117·6	157·4	+0·4	51·0	13	9	+1·2	11·0	8·0	—1·2	1	16	0	0	9	0	0	0	0	0	0
Jamui	34·5	..	44·5	2	..	..	..	..	106·1	160·1	..	35·2	14	11	..	9·5	7·3	..	0	12	0	0	5	0	0	0	0	0	0
Dehri	35·8	..	45·3	2	27·1	..	20·6	13	241.0	505·4	+369.0	220·0	13	7	+0·1	9·1	7·7	..	0	8	0	0	1	0	0	0	0	0	0
Gaya	35·6	—1·9	46·2	2	26·7	—0·7	21·1	14	155·1	337·2	+173·4	104·0	13	10	+2·5	16·0	12·7	+2·9	0	11	0	0	11	0	0	0	0	3	0
Uttar Pradesh (East)																													
Kheri	37·5	—0·2	44·5	2	26·7	+0·4	23·0	19,20	50·2	181·4	+28·1	102·6	30	6	—0·3	7·3	5·3	+0·2	0	8	0	0	7	0	2	0	0	0	0
Bahraich	38·2	—1·1	45·0	2	27.4	+0.7	23·2	22	46·2	71·6	—85·9	30·4	27	6	—0·1	13·4	9·7	+4·2	0	7	0	0	0	0	0	0	0	0	0
Nautanwa	34·9	..	43·4	3,4	25·8	..	21·1	17	75·8	300·8	..	110·0	6	11	..	11·4	8·6	..	0	11	0	0	0	0	0	0	0	0	0
Hardoi	38·7	—0·9	44·0	1	27·9	+0·3	22·8	23	51·2	74·4	—49·9	33·6	23	4	—0·1	11·8	8·5	+1·1	0	5	0	0	3	0	0	0	0	0	0
Gonda	37·8	+1·2	45·1	2	27·6	+0·9	24·4	7	71·4	60·0	—125.7	19·6	30	5	+3·3	..	..	..	0	6	0	0	1	0	0	0	0	0	0
Lucknow	38·5	+0·6	43·6	1	27·6	0	44·1	8	3·2	20·9	—92·4	16·2	8	1	+4·5	7·8	4·7	+0·5	1	5	0	0	5	0	0	0	0	0	0
Lucknow (Amausi)	39·0	+1·1	44·5	1	27·7	+0·5	24·2	22	32.0	56·1	—57·2	17·9	8	6	+0·5	13·6	9·9	..	0	7	0	0	5	0	1	0	0	2	0
Faizabad	37·0	..	43·4	2	25·4	..	22.1	17	23·5	39·9	..	24·0	29	2	..	7·7	5·9	..	0	5	0	0	7	0	0	0	0	0	0
Gorakhpur	36·0	—0·1	43·9	2	26·9	+0·7	22·8	17	108.3	199·8	+8·0	70·0	6	8	—0·3	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Kanpur	39·8	+0·5	45·1	1	29·1	+0·8	24·7	22	15·0	37·0	—44·0	22·0	8	2	—2.5	19·1	14·8	+1·6	0	2	0	0	1	0	0	0	0	0	0
Kanpur (Aerodrome)	39·9	..	45·3	1	29·3	..	25·2	8	24·3	46·9	..	22.3	20	3	..	..	..	..	0	4	0	0	4	0	2	0	0	0	0
Sultanpur	38·6	..	44·8	2	27·7	..	22·2	20	30·0	36·8	..	16·2	30	4	..	(b) 8.7	6·9	..	0	4	0	0	5	0	1	0	0	0	0
Azamgarh	36·5	..	45·4	2	24·2	..	20·2	14	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	41·4	+0·9	45·8	1	29·4	+1·1	24·8	8	4·4	50·0	—37·4	43·0	8	3	—4·8	12·0	7·7	+0·5	0	4	0	0	0	0	0	0	0	0	0
Ballia	37·5	..	45·5	2	26·7	..	22·2	14	54·0	130·5	..	89·6	14	4	..	9·5	6·9	..	0	5	0	0	0	0	1	0	0	0	0
Banda	41·4	..	46.0	1	29·9	..	25.2	8	1.2	4·5	..	2·0	5	0	..	9·9	7·1	..	0	4	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	39·8	+0·5	46·4	1	28·6	+0·3	24·8	15	18·4	53·6	—74·4	21·2	26	6	+1·7	11·1	7.9	—0·6	0	10	0	0	8	0	3	0	0	4	0
Varanasi (Babatpur)	37·5	—1·3	45·9	1	27.9	—0·4	21·6	13	26·9	61·9	—31·4	20·6	14	4	—0·4	17.6	13·7	+1·6	0	6	0	0	7	0	0	0	0	0	0
Varanasi	37·3	—1·0	44·6	2	27·7	—0·1	21·1	14	73·6	116·4	+0·6	51·2	14	6	0	9·6	7·0	+0·6	0	7	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days. (f) Total or Mean of 25 days. (h) Mean of 23 days. (i) Mean of 22 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—																													
Dehra Dun	35·3	+1·0	41·1	2	23·9	+0·5	19·5	19	33·2	93·9	—123·3	39·8	19	5	—4·4	6·1	4·0	+0·9	0	7	0	0	7	0	0	0	0	0	0
Roorkee	38·1	+0·2	44·4	1	26·8	+0·8	22·1	22	..	41·8	—72·5	13·8	22	5	—0·4	12·6	8·6	+3·5	0	7	0	0	2	0	0	0	0	0	0
Najibabad	38·4	..	43·9	1	26·0	..	21·4	19	51·8	99·2	..	31·6	19	5	..	17·1	8·4	..	0	6	0	0	5	0	0	0	0	0	0
Meerut	39·3	+0·8	44·2	2,17	27·4	+0·4	21·1	23	..	71·0	—15·4	40·0	22	2	—2·1	..	10·6	..	0	5	0	0	0	0	0	0	0	0	0
Bareilly	37·8	—0·1	41·5	1,2,3	27·1	+0·2	22·2	20	78·0	155·6	+22·8	70·0	11	4	—1·4	10.7	7·2	+2·5	0	6	0	0	6	0	0	0	0	0	0
Aligarh	39·5	+0·5	41·9	1	28·3	+0·2	23·5	21	7·7	18·7	118·2	7·7	1	3	—1·6	13·6	9·8	+0·8	0	3	0	0	3	0	0	0	0	0	0
Mainpuri	39·6	—0·8	49·2	1	29·1	+0·9	24·1	21	23·9	58·3	—8·8	24·4	21	3	—0·8	10·0	6·2	+1·7	0	7	0	0	1	0	0	0	0	0	0
Agra	39·9	—0·1	45·0	1	28·6	0	23·6	23	30·2	58·8	—3·2	30·2	23	3	—0·8	10·2	6·8	—1·2	0	4	0	0	0	0	0	0	0	0	0
Agra Aerodrome	40·1	..	44·7	1	28·7	..	24·2	9,23	21·1	38·6	..	21·0	23	3	..	..	..	..	1	6	0	0	6	0	0	0	0	0	0
Orai	38·5	.	44·1	6	28·1	..	23·9	9	67·2	90·2	..	62·6	20	3	..	9·5	7·5	..	0	6	0	0	0	0	0	0	0	0	0
Jhansi	40·6	+0·6	45·0	1	27·6	—1·6	23·3	24	39·9	32·8	—73·1	6·8	16	4	—1·5	7·0	5·4	—2·6	0	7	0	0	4	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	39·8	—0·4	45·1	2	26·6	+0·5	19·0	21	29·1	112·1	+50·8	52·3	21	4	+0·6	11·4	9·9	—1·0	0	5	0	0	10	0	4	0	0	0	0
Amritsar (Rajasansi)	40·1	—0·4	44·3	1	26·1	+0·8	21·7	21	3·0	26·1	—1·1	21·5	21	2	+0·1	14·0	11·6	0	0	4	0	0	4	0	2	0	0	2	0
Adampur (Aerodrome) (R)																													
Ludhiana	41·2	+0·8	46·8	1	27·9	—0·7	21·3	22	47·5	78·2	+20·3	27·8	21	4	+0·5	9·1 (b)	6·8 (c)	+2·9	0	5	0	0	0	0	0	0	0	0	0
Ferozepore	40·2	..	44·9	12	27·4	..	21·8	21	19·2	36·5	..	18·3	26	3	..	4·3	3·1	..	0	3	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	40·2	..	44·7	1	27·0	..	22·2	23	0	4·9	..	1·8	22,24	0	..	..	..	..	0	3	0	0	5	0	3	0	0	0	0
Chandigarh	38·7	—0·8	45·4	1	27·2	+0·8	21·4	21	9·8	82·8	+21·1	51·2	21	4	+1·0	..	..	..	1	6	0	0	0	0	1	0	0	0	0
Ambala	39·4	—0·4	44·6	1	28·1	+1·0	24·4	22	14·4	29·0	—48·2	14·6	13	2	—2.4	(n) 10·6	(n) 8·2	..	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	38·8	.	44·6	1	27·6	..	21·8	22	16·1	17·5	..	15·4	21	1	..	..	..	..	0	3	0	0	7	0	3	0	0	0	0
Patiala	39·9	..	44·4	1	27·7	..	21·3	22	0	0	—30·0	0	..	0	—2·0	15·3	11·2	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	40·9	..	44·3	2	28·5	..	22·8	21	7·1	16·7	..	5·6	25	2	..	11·1	9·8	..	0	4	0	0	0	0	2	0	0	0	0
Karnal	39·1	..	43·0	4 days	..	..	..	..	6·8	6·8	..	6·0	22	1	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	39·8	—1·1	43·1	1	28·1	+0·2	21·7	24	52·0	65·6	+33 6	39·2	23	3	+0·1	12·5	11·1	+1·6	0	4	0	1	3	0	2	0	0	0	0
New Delhi (Safadarjung)	38·7	—1·5	43·5	2	28·3	—0·4	22·0	22	29·8	76·7	—0·3	33·0	21	3	—1·2	17·8	14·2	—0·6	0	5	0	0	3	0	2	0	0	3	0
Palam (Aerodrome)	39·9	..	44·7	1	28·4	..	22·2	21	38·0	109·8	..	65·0	21	3	..	..	..	..	0	3	0	0	5	0	2	0	0	0	0
Himachal Pradesh																													
Mandi	34·8	—1·7	40·6	2	21·7	+0·8	18·0	16	50·0	137·0	+28·4	34·8	9	10	+0·3	3.6	3·4	—0·1	0	15	0	0	10	0	0	0	0	0	0
Bilaspur	37·3	..	42·3	1	23·1	..	19·4	16	26·1	105·6	..	29·0	30	10	..	..	..	..	0	11	0	0	13	0	5	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Drass	..	..	..	..	..	..	..	..	..	57·1	+39·8	29·2	25	4	+2·0	..	..	..	0	5	..	..	..	..	..	..	..	..	..
Sonamarg*																													
Leh	22·1	+0·3	27·4	3	8·6	+1·8	6·3	17	1·8	3·6	—1·0	1·6	24	0	—0·7	7·7	7·3	+3·3	0	3	0	0	0	0	0	0	0	0	0
Srinagar	27·5	—2·2	33·7	4	15·7	+1·6	12·8	15	8·5	48·6	+13·0	16·5	6	5	+1·6	5·5	4·6	+0·4	1	7	0	0	6	0	0	0	0	0	0
Srinagar (Aerodrome)	26·7	..	32·5	4	15·4	..	11·7	15	13·2	46·3	..	21·1	26	6	..	..	..	..	0	8	0	0	9	0	0	0	0	0	0
Gulmarg	18·8	—1·1	25·8	5	7·2	—0·1	3·7	15	28·2	79·1	—11·1	22·0	26	9	+1·2	9·2	(b) 6·5	..	1	16	0	5	17	11	0	0	0	0	0
Jammu	40·0	+0·8	45·4	2	..	..	..	..	..	49·0	—22·1	26·8	23	3	—0·8	..	7·0	..	..	4	0	0	5	0	3	0	0	0	0
Jammu (Aerodrome)	39·9	..	44·9	2	28·2	..	20·0	23	11·1	41·1	..	17·5	23	3	..	..	..	..	0	3	0	0	7	0	6	0	0	0	0
Rajasthan (West)																													
Ganganagar	40·9	—0·7	45·2	13	28·2	+0·8	21·1	21	48·8	86·2	+10·3	31·9	21	6	—3·3	10·9	7·6	—6·1	0	6	0	0	6	0	4	0	0	0	0
Churu	40·2	..	45·6	12	28·9	..	21·5	24	67·6	113·2	..	65·0	22	2	..	18·6	15·3	..	0	4	0	1	5	0	1	0	0	0	0
Bikaner	40·3	—1·0	45·4	12	28·2	—1·1	22·7	24	0	65·0	+34·3	46·3	24	3	+0·8	13·1	11·4	—0·7	0	5	0	0	7	0	2	0	0	0	0
Nagaur	38·9	..	44·6	10	27·4	..	22·2	23	2·0	28·4	..	13·1	24	3	..	17·5	15·4	..	0	5	0	0	3	0	2	0	0	0	0
Phalodi	38·9	..	46·1	12	26·9	..	22·5	22	0	146·5	+123·1	38·1	25	7	+5·4	23·8	22·1	..	0	7	0	0	6	0	0	0	0	0	0
Jaisalmer	38·4	..	45·0	11	25·9	..	21·0	26	87·5	188·9	..	135·4	26	4	..	(b) 24·0	22·9	..	0	5	0	0	0	0	0	0	0	0	0
Jodhpur	38·9	—0·9	44·2	11,12	27·3	—0·6	21·1	26	1·2	27·4	—8·7	9·1	23,27	3	+0·9	17·1	17·4	—2·9	0	6	0	0	6	0	5	0	0	0	0
Barmer	38·0	—1·7	45·3	11	26·4	—0·4	20·8	26	135·3	277·5	+249·6	99·4	26	6	+4·5	13·8	12·0	—1·2	0	9	0	0	4	0	3	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	44·0	..	45·6	12	29·0	..	21·9	24	0	8·4	..	8·4	1	1	..	20·5	18·6	..	0	1	0	0	0	0	3	0	0	0	0
Sikar	..	..	..	..	27·2	..	21·1	24	5·6	16·5	..	11·4	23	2	..	(b) 16.6	(b) 11·3	..	0	2	0	0	0	0	0	0	0	0	0
Alwar	40·2	..	44·0	1	30·4	..	23·3	22	29·6	42·4	..	12·8	22	5	..	8·6	17·2	..	0	5	0	0	4	0	0	0	0	0	0
Jaipur (Sanganer Aerodrome)	39·1	—0·2	43·4	1	27·3	+0·4	23·1	23	36·0	62·9	+6·0	34·1	22	3	—0·9	..	..	..	0	6	0	0	7	0	4	0	0	1	0
Dholpur	40·8	..	45·1	1	29·9	..	24·1	24	2·4	36.4	..	19·6	21	2	..	11·4	8·0	..	0	8	0	0	10	0	1	0	0	0	0
Ajmer	37·4	—0·6	41·4	21	27·1	—0·6	20·8	26	23·7	101·1	+39·4	53·8	23	6	+3·3	16·8	15·3	+3·6	1	8	0	0	8	0	1	0	0	0	0
Tonk	40·7	..	44·7	1	29·0		24·2	26	14·2	23·2	..	15·0	18	2	..	14·7	10·3	..	0	5	0	0	10	0	0	0	0	0	0

(R) Register not received. (b) Means for 29 days. (c) Means for 28 days. (n) Means for 17 days. **Data not available.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)— *Contd.*																													
Kota	40·1	—0·3	43·6	28	29·0	—0·5	25·8	17	0	9·6	—57.5	5 4	17	2	—2·1	14·4	14·4	+6·4	0	2	0	0	1	0	0	0	0	0	0
Erinpura (Jawai Dam).	36·4	..	40·7	21	25·7	..	20·5	26	50.0	105·0	..	33·4	19	7	..	10·4	10·5	..	0	10	0	0	7	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	38·7	..	43·1	1	27·7	..	24·4	26	10·3	13·2	..	6·3	10	3	..	19·3	16·7	..	1	3	0	0	4	0	0	0	2	0	0
Udaipur	34·9	—1·7	38·1	12	25·0	—1·1	22·1	24,25	1.3	18·1	—59·1	7·6	24	3	—1.6	8·7	7·2	..	0	5	0	0	5	0	0	0	0	0	0
Jhalawar	39 1	+0·4	42·7	1	27·7	+0.4	23·8	12	0	0·5	—112·3	0·3	25	0	—7·1	16·6	15·0	+4·9	1	1	0	0	4	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	40·6	—0.6	44.6	1,2	30·1	—0·2	23.7	24	5.8	20·4	—25·6	9·6	23	2	—1.8	14.9	12·1	..	0	5	0	0	9	0	0	0	0	0	0
Sheopur	40 3	—0·1	44·3	1	29·1	+0·5	24·3	23	0	22·4	—48·2	22·0	11	1	—3·3	14·9	12·0	+1·8	0	2	0	0	9	0	4	0	0	0	0
Shivpuri	38·3	..	42·5	1	..	..	..	..	8.6	17·9	..	8·4	9	2	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Nowgong	39·8	+0·5	44·4	1,2	27·8	—0·4	22·4	12	38·4	47.4	—90.8	34·2	12	4	—2·1	11·2	9.0	+3·2	0	7	0	0	13	0	0	0	0	0	0
Guna	38·2	+0.3	42·9	1	26·2	0	23·5	26	35·4	49·8	—103.4	17·2	5	4	—3.2	19·7	16·9	..	0	5	0	0	10	0	0	0	0	0	0
Neemuch	36·1	—0·8	40·2	1	25·1	—0·3	21 9	26,27	42·8	48·6	—58·8	33·9	10	4	—0·8	21·0	19·3	+4·2	0	6	0	0	6	0	3	0	0	0	0
Rajgarh	39·2	..	43·7	1	26.5	..	23·0	9	7·6	23·2	..	11·8	11	3	..	21 7	15·4	..	0	4	0	0	1	0	0	0	0	0	0
Sagar	36 6	—0.1	41·5	1	24·5	—0·8	21·2	12	46·5	102·5	—54·7	28·0	12	9	+0·9	13·1	11·3	..	0	11	0	0	13	0	0	0	0	0	0
Ratlam	35·4	—0·7	38·3	1,21	23·6	—1·6	19·4	26	13·4	73·9	—21·6	43·6	11	6	+1·3	12·3	10·7	—2.8	0	7	0	0	3	0	0	0	0	0	0
Bhopal (Bairagarh)	37.1	+0·6	41.0	1	24.9	—0.1	22·7	26	18·4	29.8	—143·7	11·3	30	4	—5·4	24.3	21·3	+7·1	0	7	0	0	9	0	0	0	0	3	0
Ujjain	35·8	..	39·8	1	24·6	..	21·0	26	..	75·3	..	26·8	19	4	..	..	21·2	..	1	6	0	0	3	0	0	0	0	0	0
Hoshangabad	38·6	+1·5	43·1	1	27·0	+0·5	22·2	12	24·3	55·4	—93·7	23·2	6	6	—2·2	11.1 (c)	8·0 (c)	+1·7	0	8	0	0	0	0	0	0	0	0	0
Indore	35·2	—0·6	39·4	2	23·5	—0 6	21·7	4days	23·1	87·2	—60·1	31·5	11	6	—1·3	27·7	24·8	..	0	11	0	0	9	0	0	0	2	1	0
Rajpur Jhabua	34·9	..	38·6	2	24·4	..	21·2	26	45·6	182·8	..	58·6	26	7	..	15·7	14·6	..	0	8	0	0	2	0	0	0	0	0	0
Chhindwara	34·0	—1.0	40·1	2	23 8	—0·9	20·0	12	97·3	185.3	+36·7	49.8	20	11	+1.3	11.8	8·8	—0·5	0	15	0	0	9	0	0	0	0	0	0
Seoni	34·8	—0·3	40·7	2	24·0	—0·1	20·1	12	240·0	367·4	+150·0	99·4	11	11	—0·1	10·9	7.4	+0·3	0	15	0	0	9	0	0	0	0	0	0
Betul	34·1	—0.8	39·3	1,2,3	23·7	—0·7	20·5	12	12·6	67·0	—68·0	19·6	11	7	—1·2	12·0	8·7	+0.3	0	10	0	0	6	0	0	0	0	0	0
Khandwa	36.8	—0·3	41·0	1	25·7	—0·3	22·6	11	63·8	140·8	—1·4	55·0	11	7	0	18.8	16·5	+3·3	0	7	0	0	5	0	1	0	0	0	0
Madhya Pradesh (East)																													
Satna	39·4	+1·3	45·2	2	27·5	—0·2	24·1	24	39·5	33·4	—57·3	17.6	12	6	—0·3	13·0	9·5	+0·3	0	12	0	0	8	0	0	0	0	0	0
Sidhi	39·0	..	44·6	1,2	27·9	..	24·0	23	48·7	48·7	..	24·2	30	3	..	13·1	9·2	..	0	5	0	0	6	0	0	0	0	0	0
Umaria	36.9	+0·3	43·1	3	26·2	—0·2	22·3	13	8·6	75·9	—104·9	15·9	12	8	—2 0	10·1	8·0	+0.9	1	11	0	0	12	0	0	0	0	0	0
Jabalpur	37·3	+0·6	43·2	1,2	26·2	+0·3	23.5	29	81·0	155·7	—22·9	57·2	12	8	—0·8	11·4	8·9	+3·1	0	11	0	0	7	0	0	0	0	0	0
Ambikapur	32·8	—3·0	41·5	2	23·9	—1·2	20·7	25	147·6	323.8	+180·8	113·8	12	15	+5·4	12·7	10·5	+0.4	0	18	0	0	11	0	0	0	0	0	0
Pendra	32·8	—1·1	41·0	2	23·8	—0·5	20·1	6	52·4	282·5	+81·1	80·9	12	10	—1·7	13·4	10·6	..	0	13	0	0	19	0	0	0	0	0	0
Mandla	35·6	—1·9	42·0	1	23·4	—1.9	20·7	12	81·2	258·6	+126·9	112·0	11	7	—1·7	7·8	5·2	—1·2	1	12	0	0	15	0	0	0	0	0	0
Champa	34.5	—4·1	45·3	3	24·9	—2·8	21·5	13	231·6	422·8	+266·7	130·8	12	11	+2·4	12·0	10·2	+1·0	0	15	0	0	15	0	0	0	0	0	0
Raigarh	34·2	—4.4	45·6	3	25·4	—2·3	21·5	12	308.4	543·7	+376·0	190·8	11	12	+3·5	7·0	5·1	—2·2	0	15	0	0	0	0	0	0	0	0	0
Raipur	35·3	—1·3	44·7	3	24·7	—1·5	21·4	29	70·8	356·9	+126·8	96·2	11	13	+3·3	11·6	11·6	—1·8	1	15	0	0	12	0	0	0	0	0	0
Kanker	33·3	—1·6	42·2	3	24.7	—0·8	21·2	25	54.3	329·9	+65·7	108·2	30	13	+2·7	9·8	8·8	+0·3	0	15	0	0	4	0	0	0	0	0	0
Jagdalpur	32·0	—1·2	40·6	3	23·3	—0·4	19·3	25	70·5	273·6	+28·0	64·2	25	15	+3·7	8·6	6·4	..	1	19	0	0	13	0	0	0	0	1	0
Gujarat Region																													
Deesa	37.2	..	41.2	11	25·9	..	20·1	26	41·4	75·3	..	32·1	27	5	..	17·5	15·9	..	0	8	0	0	0	0	0	0	0	0	0
Radhanpur	37·4	..	41·5	1	25·9	..	19·6	24	8·3	104·5	..	40·2	25	5	..	16·7	14·9	..	1	6	0	0	0	0	0	0	0	0	0
Idar	36·6	..	40·6	1	25·8	..	21·7	26	49·2	116·6	..	30·0	25	7	..	13·3	11·2	..	1	8	0	0	1	0	0	0	0	0	0
Ahmadabad	37·9	—0·9	41·5	1	26·3	—0.8	21·0	26	50.6	97.5	+4·5	26·4	26	6	+1·3	12·7	11·2	—0·1	0	9	0	0	7	0	0	0	0	4	0
Dohad	35·0	—1.1	39·0	2	23·9	—1·8	19·6	17	15·9	112·4	+4·2	37·8	17	6	+0.6	25·3	24·6	—4·7	0	11	0	0	4	0	2	0	0	0	0
Baroda Aerodrome	35·8	..	39·2	1	25·8	..	21·7	25,26	81·4	203·1	..	92·3	26	9	..	17·6	17·7	..	0	13	0	0	7	0	0	0	0	0	0
Baroda	36·2	—1·0	39·4	1,2	26.3	—0·7	22·8	26	82·8	203·3	+40.5	75·6	26	9	+2 3	9·7	8·3	—1·4	0	10	0	0	5	0	0	0	0	0	0
Broach	35·5	+0.1	37·6	17,20	26·0	—0·9	23·6	24,25	18.4	89·0	—65.2	25·0	20	8	+0·6	16·9	13·6	+1.5	0	12	0	0	0	0	0	0	0	0	0
Surat	33·4	—0·4	35·1	21	25·3	—1·3	22·2	25	67·4	162·7	—56 2	41·0	19	7	—1·0	12·0	14·4	+2·5	0	12	0	0	3	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimsar	36·4	..	43·9	9	26·1	..	22.0	27	..	..	..	..	..	..	..	30·2	28·5	..	..	..	0	0	0	0	0	0	0	0	0
Naliya	31·7	..	36·0	12	25·3	..	23·0	22	77·0	137·7	..	65.8	23	5	..	26·7	22·8	..	0	7	0	0	5	0	0	0	0	0	0
Bhuj (Rudramata)	35·4	..	39·8	12	26·3	..	22·6	27	28·0	125·6	..	49.6	23	7	..	24·7	22·6	..	0	8	0	0	4	0	0	0	0	0	0
Kandla	36·0	..	39·2	22	26·3	..	21·7	24	28·7	141·2	..	50·3	23	7	..	25.3	23.1	..	0	8	0	0	3	0	4	0	2	0	0
New Kandla	33·7	..	36·7	2,20	27·0	..	22·8	21	24.0	138·1	..	43.4	23	7	..	33·0	30·3	..	0	8	0	0	1	0	0	0	2	1	0
Mandvi	32·0	—1·0	33·4	21	27·3	—1.1	22·8	22	26·0	158·5	+139·3	55·0	24	5	+3·5	33·7	33·5	+0·7	0	6	0	0	0	0	0	0	0	0	0
Surendranagar	37·7	—1.4	41·5	12	26·5	—0·7	24·2	24	12·0	60·0	+6·1	17·0	25	6	+2·3	21·1	20·4	+0·2	1	9	0	0	4	0	0	0	1	0	0
Jamnagar Aerodrome	35·2	—0.7	39·2	2	26·6	—0 3	22·4	21	84·1	168·3	+103·0	49·5	28	7	+4.0	..	..	..	0	7	0	0	5	0	0	0	1	1	0
Dwarka	31·4	—0.4	33·4	20	26·7	—1·3	22·0	21	80·3	293·3	+242·2	83·4	28	7	+4·7	26.4	26·0	+4·9	0	8	0	0	0	0	0	0	1	0	0

(a) Mean of 28 days.

(c) Mean of 26 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a)	20b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch (*Contd.*)																													
Rajkot	36·5	−1.2	39·8	1	25·7	−0·3	23·2	21,24	10·1	60·5	−32·5	29·8	21	5	−3·3	33·4	31.4	+3·3	0	8	0	0	7	0	2	0	0	0	0
Bhaunagar	36·9	..	41·0	12	26·4	..	22·4	25	32·4	160.2	..	40·4	5	8	..	31·6	28·1	..	0	8	0	0	2	0	0	0	1	0	0
Aerodrome Bhaunagar	36·9	−0·8	40·4	1	26·0	−0.8	21·4	25	47·1	181.5	+82·4	93·6	5	6	+1·3	17·5	15·5	+2·8	1	8	0	0	4	0	0	0	0	0	0
Porbander	32.0	..	33·5	20	27·2	..	23·6	22	9.0	173·3	..	66·6	22	7	..	27·4	24·1	..	0	10	0	0	3	0	0	0	0	0	0
Aerodrome Porbander	32·0	−0·1	33·3	3,9	27·2	−0·8	23·4	23	14·1	166·9	+82·5	55·4	22	7	+2·8	22·4	19·8	−0·7	0	11	0	0	0	0	0	0	0	0	0
Keshod	33·5	..	35·7	2,3	25·8	..	23·2	24	83·6	219·7	..	50·0	24	13	..	34·7	28·3	..	2	14	0	0	2	1	0	0	0	0	0
Mahuva	33·3	..	34·9	8	25·7	..	23·2	23	14·0	103·7	..	48·7	25	6	..	24·9	20·3	..	0	7	0	0	2	0	0	0	1	0	0
Veraval	31·2	..	33·0	2	26·4	..	23·1	21	40·8	175·8	+57·4	59·8	28	9	+5·1	27.2	27·7	..	1	14	0	0	1	0	0	0	1	0	0
Konkan																													
Dahanu	32·5	+0·2	34·8	2	23·3	−0·2	23·6	23	93·7	284.0	−185·4	109.8	25	11	−1.0	23.5	19·8	+0.7	0	19	0	0	2	0	0	0	0	0	0
Bombay (Santa Cruz)	32·1	+0.7	34·0	2	25·6	−0·3	22·7	30	109.5	317.0	−250.9	70.1	25	17	+2·8	21 6	17·6	..	4	21	0	0	7	0	0	0	0	0	0
Bombay	32·4	+1.0	34·5	1	26·3	+0·4	23·6	30	134.0	392.7	−91·4	75.0	21	14	−0 6	13·8	13·2	−1·9	2	25	0	0	6	0	0	0	0	7	0
Alibag	30·7	+0·1	32·5	8	25·3	−0·5	23·1	30	..	343.2	−256 0	74.4	30	20	+3·3	..	22·3	+2·2	0	24	0	0	1	0	0	0	0	0	0
Harnai	29·7	−0·1	31·8	5	24·8	−0·7	22·5	20,27	286.4	825.2	+146.7	211.8	26	21	+2.4	14·6	13·9	−1.8	0	23	0	0	4	0	0	0	0	0	0
Ratnagiri	29·6	..	32·3	3	23.6	..	22·0	26	281·2	1013.2	+240·0	240.6	26	25	+4·5	15.1	13.3	..	0	28	0	0	8	0	0	0	0	0	0
Devgarh	29·2	−1·2	31·4	4,5,18	24.1	−1.3	21·8	27	316.6	935.3	+275·1	130.6	9	23	+3·0	17·2	16·5	−4.4	0	26	0	0	7	0	0	0	0	0	0
Vengurla	29·4	−0·8	31.8	5	23.5	−1·1	21·7		294.6	1062.0	+155·7	125.6	26	25	+3·2	10·6	8·3	..	0	28	0	0	9	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	35·6	..	39·0	2	..	..	..	..	15·4	110·7	..	61.8	25	8	..	16·5	14·1	..	0	10	0	0	0	0	0	0	0	0	0
Jalgaon	37·7	−0·3	42·0	1	25·	0	21·7	21	30.0	129·0	−0·5	39.5	21	6	−1·0	23.5	21·8	+0·7	0	9	0	0	7	0	0	0	0	0	0
Malegaon	35·1	−0·6	39·8	1	23 6	−0·3	21.1	21,26	10.8	110·2	−0.3	48.0	19	7	+0·3	17·0	14·8	+0·3	1	8	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	31.9	..	36.2	7	22.6	..	20.4	26	55.1	105·6	..	43·2	26	5	..	24·1	19·0	..	0	6	0	0	1	0	0	0	0	0	0
Ahmednagar	32·6	−0·9	36·7	4	21·6	−0·6	20·5	26	87.4	165·1	+32·3	77.6	4	9	+1·5	11·6	9·0	−4·4	0	12	0	0	1	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	795·6	−45·9	312.8	26	20	−0·3	..	..	..	0	24	..	..	..	..	..	..	..	..	..
Poona	31·0	..	34·4	2	22·1	..	20.1	21	111.2	217.2	..	123.6	26	6	..	..	..	..	0	8	0	0	3	0	0	0	0	0	0
Aerodrome. Poona	31·3	−0·6	35.6	2	22·4	−1·7	20.2	26	135.3	261.4	+147·3	131.9	26	8	+0·7	8.8	6·6	−9·2	3	11	0	0	2	0	0	0	0	0	0
Jeur	33·2	−1·7	37·3	3	21.9	−1·0	19·9	21	56.1	157.5	+68·7	52.4	21	9	+3·3	17·6	13·3	−4·0	0	11	0	0	3	0	0	0	0	0	0
Baramati	32·7	−1·1	35.9	19	22·4	−0·5	20.3	29	26.8	74·7	−13·0	37.6	21	5	−0.6	18.2	15.7	−0·6	0	8	0	0	3	0	0	0	0	0	0
Sholapur	32·7	−2.4	37·0	3	22·5	−0·7	20·7	20	61.4	166.6	+53·8	55.0	20	12	+5·5	12·5	10·0	−5.6	1	19	0	0	3	0	0	0	0	0	0
Miraj	30·6	−0.6	33·2	2	21·5	−0·7	20·3	21	78.4	107·0	+38·2	56.0	4	6	+0.1	..	..	..	0	10	0	1	1	0	0	0	0	0	0
Kolhapur	29·1	−0·7	32·6	5	21·4	−0·8	19.9	26	52.9	103·9	−9·6	35.3	26	8	+0·2	20·8	15·5	−2·8	1	16	0	0	1	0	0	0	0	0	0
Marathawada																													
Aurangabad	33·5	−1·1	37·9	2	22·5	−0·3	·0	11,19	26.6	152.4	+14·2	41.8	21	9	+1·3	20·3	17·9	−0·1	1	14	0	0	6	0	0	0	0	0	0
Aurangabad (Chikalthan)	33·5	..	37·7	2	22·7	..	20·9	11	13.3	156.2	..	46.7	10	7	..	20·4	18·0	..	0	11	0	0	5	0	0	0	0	0	0
Parbhani	35·1	−1·8	40·1	2	23.1	−1.5	20·5	20	40.2	181.2	+45·6	52.6	27	10	+2·1	15·9	12·9	−2·9	0	14	0	0	10	0	0	0	0	0	0
Nander	35·4	..	40·8	2	21·0	..	18·1	5	59.3	133.9	..	40.4	21	10	..	12.5	9.1	..	0	11	0	0	12	0	0	0	0	0	0
Bir. (R)																													
Vidarbha																													
Gondia	35·4	−2·2	43·5	3	26·3	−0·8	20·9	30	79·4	296.3	+134·1	75.4	12	9	+0·5	8·6	6.6	−0·2	0	10	0	0	4	0	0	0	0	0	0
Nagpur (Sonegaon)	36·4	−1·9	42·8	3	25·0	−1·9	22.0	12	70.4	133.6	−90·4	55.3	12	7	−3·2	17·9	14·3	..	0	15	0	0	14	0	0	0	0	6	0
Amravati	36·1	−0·7	41·5	2	23·9	−1·5	21·4	11	38.1	83·6	−82·8	26.6	12	5	−3.7	19·3	15·0	+3·1	2	12	0	0	7	0	0	0	0	0	0
Akola	36·8	−0·4	41·7	3	25·8	+0·1	22·8	11	25.1	50 2	−90.3	11.3	3	5	−3.1	15·5	13·6	+1·2	2	8	0	0	3	0	0	0	0	0	0
Brahmapuri	35·9	..	44·2	3	26·2	..	23·1	11	54·8	118.5	..	49·7	11	6	..	10·5	8·4	..	0	12	0	0	9	0	3	0	0	0	0
Buldhana	33·1	−0 9	37.2	2	22.4	−1·1	20.1	22	14·6	103 5	−55.9	33·0	11	6	−2·8	15.0	13·9	−0·6	0	9	0	0	0	0	0	0	0	0	0
Yeotmal	35·0	−2·0	40.8	3	19·4	−6·0	17·1	6	33.4	109.3	−75·8	18.4	6	8	−1·2	19·7	17·3	−1·9	0	12	0	0	0	0	0	0	0	0	0
Chanda	35·5	−2·1	43·6	3	26·3	−0·3	22·9	20	33.6	166.8	−37·7	44.0	6	9	−0·8	13.0	9·5	+1 0	0	11	0	0	8	0	0	0	0	0	0
Pusad	35·9	..	41·4	3	25·2	..	22·1	6	35.6	109.2	..	39·0	6	7	..	16·2	12·3	..	1	13	0	0	3	0	0	0	0	1	0
Sironcha	36·6	−1·3	44·1	3	26·5	−1·2	23·2	28	24.7	99.5	−105·0	30·4	28	8	−0·7	9·5	6·4	−0·6	0	10	0	0	10	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	33·1	−0.7	36·4	8	26·0	−0·9	21·8	9	96·4	138·1	+19·0	96·6	24	5	−1·3	21·6	17·2	+4 3	0	6	0	0	6	0	0	0	1	0	0
Vishakhapatnam	34·7	−0·6	40·7	23	26·2	−0·8	22·5	27	61·4	169.0	+63·8	68·0	27	10	+3·5	21·0	15·3	+3·4	2	15	0	0	14	0	0	0	0	3	0
Kakinada	35·0	−1·0	43·6	3	..	..	..	..	68·0	176·6	+57·7	62·0	5	9	+1·9	17 4	13·0	+3·2	0	11	0	0	2	0	0	0	0	0	0
Nidadavole	35·2	..	43·7	3	25.8	..	23·2	18	28·0	106·6	..	48·4	18	9	..	18.3	13·2	..	0	11	0	0	5	0	0	0	0	0	0
Rentachintala	35·8	−1·8	41.8	3	26·7	−1·1	23.1	6	5·0	181·0	+88.8	40.0	22	7	+0·4	15·5	11·7	−5·2	0	7	0	0	3	0	0	0	0	0	0
Gannavaram	35·8	−1·7	43.0	3	26·4	−0·9	23 2	7	12·9	77·7	−78·1	34.6	7	7	+1·5	23·4	17·5	−0·8	0	12	0	0	11	0	0	0	0	0	0
Nagarjunakonda	35·6	..	40·3	3	27·2	..	23·1	20	55·4	108·2	..	48.6	20	7	..	23·6	20·0	..	1	9	0	0	5	0	0	0	1	0	0
Masulipatam	35·7	−1·1	..	..	26·2	−0·9	..	..	36·8	182 3	+75·1	78·0	7	7	+0.8	..	..	..	0	8	0	0	5	0	1	0	0	0	0
Ongole	35·9	..	41.7	2	26·9	..	22·4	19	16.6	212·2	..	81·4	7	8	..	12·6	9·7	..	1	9	0	0	0	0	0	0	0	0	0
Nellore	36·1	−2·5	40·8	3	26.7	−1·2	22.5	6	35.7	142·9	+110.6	55.7	7	7	+4.1	11·0	8 8	−0·5	0	9	0	0	2	0	0	0	0	0	0

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Telengana—																													
Ramgundam	36·6	−1·9	43·8	3	27·1	−0·9	24·1	8, 21	7·8	111·6	−50·6	34·2	30	7	−0·1	11	9·5	+0·7	0	12	0	0	9	0	0	0	0	0	0
Nizamabad	34·9	−1·2	40·4	3	24·6	−0·6	22·0	7, 20	20·0	81·5	−66·1	17·0	20	8	−0·7	13·4	10·8	+1·0	0	10	0	0	7	0	0	0	0	0	0
Hanamkonda	35·5	−0·8	42·4	3	25·7	−0·7	23·1	19	47·0	140·4	−12·3	41·8	6	11	+2·8	15·7	12·2	+0·8	0	16	0	0	1	0	0	0	0	0	0
Hakimpet Aerodrome	31·8	..	36·4	3	22·7	..	21·0	26	130·0	200·2	..	103·7	3	10	..	..	..	..	0	13	0	0	9	0	0	0	0	0	0
Bhadrachalam	35·7	−1·9	43·1	3	26·4	−1·1	22·8	19	43·5	177·1	+15·3	44·0	19	12	+2·0	9·2	7·5	−2·7	1	16	0	0	3	0	0	0	0	0	0
Hyderabad (Begumpet)	33·0	−1·3	37·6	3	23·5	−0·1	22·0	20, 25, 27	39·8	83·8	−28·2	21·0	7	8	+1·5	25·1	21·3	+1·5	0	12	0	0	5	0	0	0	0	0	2
Khammam	35·1	..	43·0	3	25·7	..	21·6	19	36·6	274·6	..	47·6	19	12	..	11·8	8·5	..	0	13	0	0	1	0	0	0	0	0	0
Mahbubnagar	32·2	..	37·0	3	22·9	..	20·9	2, 6	45·4	223·5	..	82·5	7	12	..	13·7	12·0	..	0	17	0	0	6	0	0	0	0	0	0
Rayalaseema																													
Kurnool	34·7	−1·5	38·4	3	24·3	−1·0	21·7	26	24·2	171·4	+97·0	51·1	20	10	+4·5	22·7	18·1	+1·8	0	16	0	0	3	0	0	0	0	0	0
Anantapur	33·5	−1·4	36·0	3	24·1	−0·7	22·0	20	7·4	103·6	+49·1	42·5	3	4	+0·8	20·2	17·9	−0·9	0	6	0	0	4	0	0	0	0	0	0
Cuddapah	35·7	−2·0	39·1	3	26·1	−0·8	23·1	22	11·0	118·6	+43·7	52·4	7	7	+2·2	11·7	8·6	−2·3	0	9	0	0	0	0	0	0	0	0	0
Arogyavaram	31·2	..	34·2	3	22·7	..	21·0	20	14·2	46·3	..	20·6	7	3	..	17·2	14·1	..	1	10	0	0	4	0	0	0	0	0	0
Madras State																													
Madras	35·1	..	39·1	3	26·0	..	21·0	22	..	99·2	..	52·5	22	5	..	..	11·5	..	3	6	0	0	4	0	0	0	0	0	0
Madras (Minambakkam)	35·9	−1·7	40·2	3	26·4	−0·9	21·0	22	0·4	109·7	+62·5	54·5	22	5	+1·3	17·5	14·5	−3·0	1	10	0	0	5	0	0	0	0	1	0
Vellore	35·3	−0·9	38·7	3	25·9	−0·9	21·5	22	10·8	132·5	+62·1	62·2	22	8	+3·1	10·3	10·8	+2·3	0	10	0	0	9	0	0	0	0	0	0
Tambaram Aerodrome	36·4	..	41·0	3	..	..	..	..	5·4	142·4	..	78·7	7	5	..	..	..	..	0	10	0	0	1	0	0	0	0	0	0
Tiruppattur	33·7	..	37·1	2	22·4	..	20·1	20	11·5	63·2	..	19·3	20	5	..	12·0	8·6	..	0	5	0	0	2	0	0	0	0	0	0
Cuddalore	35·2	−1·8	37·8	3	25·9	−0·9	23·0	22	10·6	115·3	+80·0	62·4	22	7	+5·4	14·7	13·0	+4·5	0	8	0	0	3	0	0	0	0	0	0
Kallakkurichchi	35·8	..	38·8	2	25·5	..	23·0	22	15·0	58·4	..	38·6	22	3	..	13·8	12·0	..	0	9	0	0	2	0	0	0	0	0	0
Salem	33·8	−1·4	36·8	2	24·3	+0·5	22·6	27	37·4	83·1	+3·6	29·4	7	6	+0·6	10·5	8·8	+1·7	1	9	0	0	9	0	0	0	0	0	0
Coimbatore (Pilamedu)	29·8	..	33·5	5	21·9	..	20·2	27	29·0	65·1	..	12·7	27	9	..	31·6	28·5	..	1	12	0	0	1	0	0	0	0	0	0
Coimbatore	29·3	−2·3	33·3	4	21·6	−0·6	20·1	27	56·4	105·2	+66·6	16·1	27	9	+4·8	17·9	14·2	+4·2	0	13	0	0	6	0	0	0	0	0	0
Nagapattinam	35·3	−1·2	38·9	1	26·5	−0·1	24·3	12	15·2	32·6	+1·4	17·0	30	4	+1·8	18·1	15·2	+4·7	0	6	0	0	3	0	0	0	0	0	0
Tiruchchirappalli	35·3	−1·8	38·7	3	25·7	−0·4	24·2	9	38·2	76·9	+35·8	28·2	13	5	+2·6	23·0	20·4	−5·7	0	9	0	0	9	0	0	0	0	0	0
Vedaranniyam	32·7	..	35·6	25	26·5	..	20·9	27	24·4	43·5	..	21·4	27	4	..	18·7	15·6	..	0	4	0	0	0	0	0	0	0	0	0
Atirampattinam	32·7	..	36·4	24	25·7	..	24·0	7	24·0	49·0	..	20·6	7	6	..	22·2	16·5	..	0	9	0	0	11	0	0	0	3	0	0
Madurai	35·6	−0·6	38·4	1	25·0	−0·6	22·9	27	23·2	28·4	+11·5	22·0	7	2	−0·5	8·4	6·3	−1·6	0	5	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	34·8	..	37·4	18	24·6	..	23·2	27	21·6	35·4	..	12·2	7	5	..	15·4	11·6	..	0	7	0	0	5	0	0	0	0	0	0
Tondi	32·4	..	35·9	14	25·9	..	24·5	27, 29	60·3	57·3	..	57·0	9		..	23·8	18·1	..	0	2	0	0	2	0	0	0	0	0	0
Pamban	31·5	−0·8	33·2	24, 25, 26	26·4	−0·4	24·0	27	0	7·4	+3·6	6·8	27	1	+0·7	21·9	20·7	+5	0	2	0	0	0	0	0	0	0	0	0
Tuticorin	34·2	−1·3	37·0	17	25·2	−1·6	24·0	28	9·3	9·3	+4·4	9·3	27	1	+0·5	26·8	16·0	−2·2	0	1	0	0	1	0	0	0	0	0	0
Palayankottai	34·7	−0·6	37·8	4	24·9	−1·8	22·3	28	16·8	23·6	+14·1	11·0	7	4	+3·0	13·5	9·5	−5·8	0	5	0	0	0	0	0	0	0	0	0
Kanniyakumari	29·1	..	31·7	24	23·8	..	21·9	29	138·7	234·1	..	31·0	8	14	..	19·1	17·4	..	0	17	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28·8	−0·6	31·2	4, 5	23·5	−1·3	21·4	22	510·6	1481·8	+507·3	250·8	30	28	+4·7	11·5	9·7	..	0	29	0	0	6	0	0	0	0	0	0
Honavar	29·0	−0·5	31·6	18	22·6	−1·5	21·2	4 days	402·3	1182·4	+112·3	191·3	26	25	−0·8	10·6	9·7	+4·1	1	28	0	0	6	0	0	0	0	0	0
Mangalore (Bajpe)	28·5	..	30·7	1, 5	22·7	..	21·0	25	321·4	1261·9	..	227·0	26	27	..	10·1	8·6	..	0	29	0	0	15	1	0	0	0	1	0
Mangalore	29·4	+0·2	31·7	5	23·0	−0·8	21·8	25, 29	341·9	1050·3	+108·5	197·9	26	30	+5·4	9·8	9·4	+0·7	0	30	0	0	13	0	0	0	0	0	0
Interior Mysore																													
North																													
Bidar	31·4	−2·4	36·0	1	21·9	−0·5	20·4	27	84·4	131·0	+16·9	18·4	19	13	+5·9	20·4	18·7	−1·6	0	15	0	0	3	0	0	0	0	0	0
Gulbarga	33·3	−2·1	38·4	4	22·6	−0·8	21·0	25	14·4	184·6	+71·8	73·0	20	10	+3·1	19·8	17·0	+6·7	0	11	0	0	3	1	0	0	0	0	0
Bijapur	32·5	−0·9	36·0	3	22·1	−0·2	21·0	19, 21, 22	5·8	134·1	+57·4	60·0	3	4	−1·4	14·0	12·1	−1·7	0	7	0	0	7	0	0	0	0	0	0
Raichur	33·9	−1·3	37·3	2, 3	23·1	−0·4	21·7	3, 27	35·8	153·1	+66·2	31·4	10	13	+7·0	19·0	17·1	+0·8	0	16	0	0	4	0	0	0	0	0	0
Belgaum	27·4	−0·2	30·7	5	20·3	0	19·1	25	23·5	111·3	−91·4	48·2	26	9	−3·9	14·7	11·1	−1·9	0	20	0	0	1	0	0	0	0	0	0
Belgaum (Samra)	27·7	..	30·7	3	20·3	..	19·3	25	41·4	81·8	..	22·1	26	7	..	..	..	..	0	14	0	0	2	6	0	0	0	0	0
Gadag	30·4	−0·7	33·3	18	21·2	−0·6	19·9	29	14·1	40·9	−26·9	15·8	19	5	−0·6	22·7	18·1	+0·7	0	7	0	0	2	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	33·0	−1·8	35·4	3	24·3	−0·1	22·0	19	5·0	21·0	−22·7	8·0	19	3	−0·3	16·0	13·9	+1·2	0	4	0	0	0	0	0	0	0	0	0
Chitradurga	29·0	−1·6	32·2	5	21·1	−0·1	19·5	26	17·7	46·1	−19·7	14·6	20	4	−1·2	14·8	13·8	+1·4	1	9	0	0	2	0	0	0	0	0	0
Shimoga	28·9	0	32·0	4	20·8	−0·9	19·3	26	68·4	126·4	−19·4	24·3	30	13	+3·1	9·9	7·0	−0·3	0	18	0	0	0	0	0	0	0	0	0
Balehonnur	24·9	0	27·9	3	18·5	−0·3	17·0	26, 27	..	564·6	+131·8	117·1	30	21	−0·1	..	..	..	0	27	0	0	0	0	0	0	0	0	0
Hassan	25·5	−1·7	29·7	5	18·6	−0·5	16·7	27	61·2	169·0	−77·3	37·6	30	13	+3·7	14·8	11·8	+0·5	0	19	0	0	1	0	0	0	0	0	0
Bangalore	28·3	−0·8	31·9	3	19·9	+0·6	18·3	28	22·5	71·6	−1·0	32·1	18	8	+2·1	19·0	16·1	+2·9	3	13	0	0	5	0	0	0	0	2	0

Division and station	Air temperature in °C: Mean max.	Mean min.	Highest	Date	Mean temperature	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Duststorm	Ground frost	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20	21	22	23	24	25	26	27	28	29
Interior Mysore South—(Contd.)																													
Bangalore (Aero-dromes)	28·9	..	34·4	5	19·9	..	18·4	27	24·1	119·5		36·5	18	9	.	..	..	..	0	13	0	0	4	0	0	0	0	1	0
Mysore*	26·9	−0·5	31·8	2	19·9	−0·2	17·8	30	72·4	103·3	+100·8	31·5	14	13	+7·2	12·9	11·2	−3·0	0	15	0	0	0	0	0	0		0	0
Kerala																													
Calicut	28·5	−0·8	31·4	1	23·6	−0·3	21·4	27	601·5	1279·7	+439·5	233·6	27	25	+0·9	13·7	11·2	+2·3	0	28	0	0	6	0	0	0	0	9	0
Palghat	28·2	..	32·4	5	22·8	..	20·7	30	453·9	805·0	..	108·8	30	20	..	15·0	12·2	..	0	24	0	0	3	0	0	0	0	0	0
Fort Cochin	28·5	−0·5	31·5	22	24·2	+0·3	23·4	5 days	296·5	816·3	+92·9	103·6	12	24	−0·3	10·8	10·3	+2·7	0	27	0	0	6	0	0	0	0	0	0
Cochin (Naval Air Station)	29·1	..	31·2		24·2	..	22·2	27	312·2	774·3	..	102·8	27	25	..	10·3	8·8	..	0	27	0	0	10	0	0	0	0	15	0
Alleppey	29·0	−0·6	30·8	24,26	23·6	−0·5	22·5	27	317·8	993·9	+258·5	128·2	28	25	+1·5	17·1	15·0	−8·5	0	29	0	0	8	0	0	0	1	3	0
Punalur	29·1	..	32·9	20	23·0	..	22·0	21	476·3	928·4	..	165·0	7	25	..	6·5	3·6	..	0	27	0	0	1	0	0	0	0	0	0
Trivandrum	28·6	−0·9	31·3	24	23·4	−0·3	21·6	29	462·2	831·9	+527·1	135·6	28	18	+0·9	12·6	8·9	+0·4	0	27	0	0	4	0	0	0	0	0	0
Trivandrum Aero-drome.	29·0	..	30·9	2,24	23·5	..	21·4	29	..	812·0	..	146·4	4	19	..	..	5·9	..	1	24	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations (excluding Kashmir)																													
Dalhousie	27·6	−0·3	32·5	2	17·4	−0·7	11·1	24	85·0	223·3	+109·8	44·0	23	10	+3·7	..	..	..	0	10	0	0	9	0	0	0	0	0	0
Dharmasala	31·1	−1·1	36·7	2	23·1	+0·3	18·1	21	89·0	161·6	+19·3	41·6	24	9	+2·1	6·3	4·9	−0·3	0	13	0	0	11	0	0	0	0	0	0
Simla	23·8	−0·1	29·0	6	15·9	+0·3	11·1	13	44·8	199·4	+46·0	40·6	13	11	+1·2	5·1	3·9	+1·6	0	20	0	0	11	0	0	0	0	0	0
Dharmpur	.	..	..	.	..	..	..	..	..	153·3	+26·3	50·0	22	9	+2·5	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Lokpal	9·1	..	11·2	29	1·2	..	−0·4	17	..	183·8	..	18·4	29	14	..	..	..	..	0	21	0	2	0	30	0	11	0	0	0
Badrinath (R)																													
Joshimath	27·9	..	32·5	2	17·1	..	12·9	16	31·5	100·7	..	25·2	22	9	..	7·6	5·6	..	0	17	0	0	0	2	0	0	0	0	0
Mussoorie	23·5	−0·4	29·4	2	16·8	+0·7	21·0	1	78·8	133·2	−89·8	50·0	13	6	−4·2	5·7	3·1	−5·8	1	6	0	0	6	9	0	0	0	0	0
Mukteswar	22·5	−0·4	30·2	3	14·8	+0·4	12·1	19	74·0	139·0	−47·4	30·0	8	9	−1·1	17·2	17·4	+7·4	0	13	0	0	11	6	0	0	0	0	0
Nainital	23·2	−0·8	27·8	2,3	17·6	+0·7	14·4	23	206·6	559·5	+286·2	181·0	29	15	+3·6	8·7	7·1	−0·4	0	17	0	0	0	3	0	0	0	0	0
Walong (R)																													
Kalimpong	26·9	+2·9	30·3	26	17·5	−1·6	13·4	23	60·9	312·4	−57·2	50·8	11	11	−5·4	5·4	3·9	−5·4	0	11	0	0	0	0	0	0	0	0	0
Darjeeling	18·8	0	22·4	27	15·1	+0·6	13·9	7,17,18	259·0	551·9	−62·3	100·0	6	22	+1·0	2·9	2·4	−0·8	0	25	0	0	2	20	0	0	0	0	0
Kohima	24·3	..	27·8	7,28	19·9	..	18·8	6 days	205·0	232·8	..	43·0	11	18	..	..	..	.	0	23	0	0	0	0	0	0	0	0	0
Shillong	23·4	−0·2	26·8	28	17·2	0	14·9	1	190·9	452·5	−8·8	158·4	12	21	+1·0	6·4	5·2	+0·7	0	24	0	0	2	0	0	0	0	0	0
Cherrapunji (R)																													
Abu	27·9	−0·8	31·8	5 days	18·9	−1·4	15·6	26,27	149·6	375·4	+257·3	109·2	25	10	+4·2	16·1	14·6	+1·7	0	11	0	0	0	7	0	0	0	0	0
Ajmer	24·3	..	29·6	27	19·3	..	16·2	16	312·8	518·4	..	63·2	14	22	..	3·3	5·8		1	23	0	0	3	0	0	0	0	0	0
Pachmarhi	30·8	−0·2	36·2	1	20·6	−1·6	16·6	12	27·2	123·8	−105·8	46·8	30	9	−1·3	9·9	9·8	−0·2	0	12	0	0	5	5	0	0	1	0	0
Mahabaleshwar	21·7	+0·3	25·6	2	16·6	−0·3	15·5	14	416·9	963·4	−90·9	362·7	26	19	−3·2	16·1	16·0	−0·4	0	27	0	0	1	30	0	0	0	0	0
Malcolm	21·2	−1·1	25·1	5	16·4	−0·9	15·0	27,28,30	449·8	999·4	+351·5	266·4	30	24	+0·8	14·4	11·4	+2·2	0	28	0	0	0	0	0	0	0	0	0
Ootacamund	17·8	0	21·4	2	16·6	−0·7	9·1	1	151·2	217·4	+50·5	55·2	18	14	−0·1	13·5	8·5	0	1	18	0	0	1	0	0	0	0	0	0
Coonoor	21·7	−0·9	23·9	16	14·6	−0·5	11·9	1	..	66·5	−4·9	14·2	7	8	−2·0	..	8·9	+1·8	0	15	0	0	0	0	0	0	0	0	0
Kodaikanal	18·5	+0·4	21·6	2	11·9	+0·1	10·6	4 days	83·6	116·4	+8·7	31·3	7	11	+1·1	14·4	15·5	+0·4	1	19	0	0	6	2	0	0	2	0	
Nepal																													
Kathmandu	28·0	..	33·3	1	19·7	..	18·3	22	60·1	288·3	..	48·5	4	17	..	2·5	1·6		2	23	0	0	1	1	0	0	0	0	0
Sikkim																													
Gangtok	18·7	..	22·2	29	11·5	..	10·3	4 days		187·8		34·6	16	21			.	..	0	26	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Pilaiya	33·8		43·1	2	26·3	..	20·3	14	124·3	229·9	..	43·4	7	11		..	..		0	14	0	0	0	0	1	0	0	0	0
Hazaribagh	31·8	..	41·1	2	23·8	..	18·9	4	86·7	402·2	..	169·	7	9		..	..		3	12	0	0	10	2	1	0	2	0	0
Konar		..		..	..	..	..	..	38·5	199·9	..	41·0	11	12		.	..	..	2	13	0	0	3	0	0	0	0	0	0
Bokaro	34·9	.	44·3	3	25·9	..	23·2	7	110·9	200·2	..	53·2	6	10		..	..	..	1	14	0	0	10	0	0	0	0	0	0
Maithon	34·5	..	45·5	2	25·9	..	22·8	18	91·4	313·1	..	60·3	18	14		..		..	0	17	0	0	0	0	0	0	0	0	0
Ramgarh	34·4	..	44·3	2,3	25·5		21·6 (i)	14	135·3	332·4	..	140·0	7	12	..	5·1	3·7		0	17	0	0	3	0	0	0	0	0	0
Panchet Hill	35·6		45·3	2	26·7	..	23·7	6,14,18	220·8	295·7	..	74·7	18	16	..	12·1	9·7		0	21	0	0	14	0	0	0	0	0	0
Durgapur	35·8		44·7	3	23·2	.	16·1	28	104·5	315·2	.	72·6	10	13	..		..	..	0	15	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Chandpur	34·0		43·5	3	24·3		21·6	25		612·2		210·4	12	14			.	..	0	17	..	..	..	..	..	..	..	..	..
Hirakud	32·7		44·3	4	26·2		22·9	25	177·5	511·4	..	151·4	11	13	..	9·6	7·1	..	0	18	0	0	14	0	0	0	0	0	0
Bhimkund	33·1		40·4	3	24·5		21·8	24	168·1	320·9	..	67·6	9	13		4·4	2·5	..	0	17	0	0	18	0	0	0	0	0	1
[illegible]	33·7		43·3	1	25·3		21·9	25		323·2		87·2	10	14			9·0	.	0	17	..	..	..						
[illegible]	[illegible]		42·2	3	24·0		21·9	28	24·7	190·2	..	42·0	11	11	..	12·7	9·2	..	0	16	0	0	4	0	0	0	0	0	0

(R) Register not received. (i) Mean of 22 days. *Data given as addenda in December 1961 issue.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological observatories (*Contd.*)																														
Narmada Catchment																														
Bagra Tawa	37·6	..	42·5	2	26·8	..	21·9	12	56·5	62·7	..	20·0	11	5	..	10·6	8·8	..	0	9	0	0	3	0	0	0	0	0	0
Punasa	38·1	..	47·8	2	26·2	..	22·6	12	6·8	69·8	..	54·4	11	3	..	12·0	10·2	..	0	16	0	0	0	0	0	0	0	0	0
Thikri	37·8	.	40·7	1	25·9	..	21·0	11	..	112·3	..	36·0	11	9	..	..	..	..	1	12	0	0	8	0	0	0	0	0	0
Sabarmati Catchment																														
Dharoi*																														
Ganga Catchment																														
Mukhim	25·7	..	31·6	8	17·5	..	13·4	22	64·3	154·8	..	39·4	9	11	..	..	.	..	1	16	0	0	19	2	0	0	0	0	0
Tehri	37·0		42·0	2	24·6	..	20·0	22	26·0	72·2	..	24·9	22	5	..	7·5	5·0	..	0	6	0	0	1	0	1	0	0	2	0
Gandak Catchment																														
Jomosom	24·7	..	27·3	28	13·5	..	10·0	22	0	3.0	..	3·0	30	1	.	..	..		0	1	..		..	.	..	..	..	..	.
Khudi Bazar	..	..	..	..	..	..	..	..	144·6	757·1	..	125·2	11	21	..	.	..	..	0	25	..		..	.	..	..			..
Timure	25·3	..	28·4	1	17·7	..	15·3	17,22	17·6	209·4	..	37·3	13	17	..	..	..	.	0	25	..	..	.	..		..		..	..
Pokhara	29·3	..	34·9	2	21·7	..	19.5	18	105·2	784·6	..	158·9	4	21	..	5·1	3·8	.	1	25	..	..	..	..	..	..		..	..
Gorkha†																														
Nuwakot	30·1	..	36·5	2	20·6	..	18·2	18	20·8	219·8	..	29·0	24	19	..	..	..	..	0	24	..	..	..	..	..	..			
Ghaghara Catchment (Trans Himalayan Region)																														
Dailekh (R)																														
Ghaghara Catchment																														
Mansiari (R)																														
Dadeldhura	25·4	..	32·5	3	(c) 18·3	..	14·5	19	102·1	341·3	..	51·4	8	16	..	..	..	..	0	18	0	0	9	8	0	0	0	0	0
Sailayana†	27·4	...	33·2	2	(m) 20·4		16·2	17	23·5	90·8		24·4	10	10	..	..	..	..	0	13		..	.	..	..	..		.	..
Baiwal	33·7	..	41·5	2	25·6	.	21·4	17	19·6	482·8		171·0	25	14	..	..		..	1	16	..	..	..	..	..	..		..	..
Bagmati Catchment																														
Kathmandu‡																														
Kosi Catchment																														
Chatara	26·9		32·8	1	17·9		16.2	8	59·2	291·1	..	100·0	28	17		..	..	..	0	23	.	..	..	.	..	..			..
Chepua	..	.	..	.	..	..	..	..	29·5	285·8	.	43·4	16	21	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..
Walangchung Gola	16·8		19·9	27,28, 30	8·8	..	6·9	17	86·0	228·4	..	34·4	16	19	..	..	..	..	1	24	..	..	..		..	..	..	..	..
Taplethok	26·7	.	30·7	28	19·1	..	17·8	16,18, 20	100·8	301·2	..	..	..	18	..	..		..	0	26	0	0	0	0	0	0	0	0	0
Bhojpur	23·7	..	27·2	28	18·1	..	16·7	18	49·2	205·2	..	..	..	16	..	..	..	..	0	18	..	..	..	..	..	..	..	..	..
Taplejung	24·3	..	27·7	23	16·9	..	15·4	18	42·9	318·8	..	51.0	21	17	..	..	..	..	1	22	0	0	2	15	0	0	0	0	0
Okhaldhunga	23·5	..	26·3	27	16·6	..	15.1	24,29	100·6	415·9	..	107·4	20	20	..	2·4	2.1	..	0	27	0	1	14	11	0	0	1	0	0
Chainpur	27·3	.	31·5	27	20·2	..	18·7	19,20	25·0	164·8	..	31·6	4	14	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Angbung	(a) 38·5	..	32·9	28	(b) 20·6	..	19·2	23	14·8	232·6	..	39.0	23	12	..	..	..	..	0	17	..	..	..	.	..	..	..	..	..
Barahakshetra	32·3	..	35·7	9,12,28	23·7	..	21·7	24	42·9	266·5	..	..	..	15	..	8·3	4·7	..	1	24	0	0	18	0	0	0	0	0	0
Teesta Catchment																														
Gangtok	22·3	..	26·8	27	16·5	..	15·2	18	129·4	654·8	..	86·4	23	25	..	4·0	2·8	..	0	28	0	0	2	27	0	0	0	0	0
Gezing	25·5	..	30.8	28	17·9	..	16·6	7	104·5	538.5	..	53·4	21	23	..	..	..	..	0	25	..	..	..	..	..	..	..	..	..

(R) Register not received. (c) Mean of 28 days. (b) Mean of 29 days. (a) Mean of 30 days. (m) Mean of 18 days. ‡Data included under 'Nepal'. †Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km. p.h.): Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	26	1007·5	1004·4	..	27·0	25·3	24·5	30·7	86	..	6·1	..	10.9	0	2	28	0	0	0	0	0	30	0	0	0	0
	1730	,,	1005·3	1002·2	..	27·0	25·0	24·1	30·0	84	..	5·7	..	10·4	0	3	26	0	0	0	0	0	29	0	0	1	0
Long Island	0830	25	..	..	..	27·8	25·9	25·0	31·7	85	..	6·8	..	4.9	0	0	24	0	0	0	0	0	14	2	0	6	8
	1730	,,	..	..	..	27·1	25·1	24·2	30·2	84	..	7·2	..	6.0	0	0	26	0	0	0	0	0	10	4	0	4	12
Port Blair	0530	79	1007·5	998·4	..	25·3	24·4	23·9	29·7	92	..	7·2	..	14·4	0	8	19	0	0	0	0	2	21	3	1	3	0
	0830	,,	1008·4	999·5	+1·0	27·3	25·2	24·3	30·3	84	+2	7·4	+0·7	23·7	0	16	13	0	0	0	0	0	21	8	0	1	0
	1130	,,	1007·6	993·8	..	27·7	25·4	24·6	30·9	80	..	7·0	..	28·2	0	22	7	0	0	0	1	0	20	8	0	1	0
	1730	,,	1006·5	997·6	..	26·0	24·5	23·9	29·7	89	..	7·5	..	18·0	0	9	21	0	0	0	0	0	24	5	1	0	0
	2330	,,	1007·8	998·9	..	25·4	24·5	24·1	30·0	92	..	6·8	..	12·6	0	8	16	0	0	0	0	0	19	5	0	6	0
Car Nikobar	0830	10	1009·6	1008·4	..	28·2	25·5	24·3	30·4	79	..	6·2	..	5·6	0	0	25	0	0	0	0	0	16	6	3	5	0
	1730	,,	1007.6	1006·4	..	27·0	24·8	23·8	29·5	83	..	6·1	..	3·6	0	0	19	1	0	0	0	0	14	3	1	11	0
Nancowry	0830	25	1010·2	1007.3	..	28·1	25·2	23·9	29·7	78	..	5.2	..	6·9	0	3	19	0	0	0	0	0	19	3	0	8	0
	1730	,,	1008·1	1005·2	..	27·5	24·8	23·5	28·9	79	..	4·4	..	6.0	0	1	17	0	0	0	0	0	14	3	1	12	0
Kondul	0830	8	1010·0	1009·1	..	27·9	25·2	24.0	29·8	80	..	6·1	..	6·4	0	0	18	0	0	0	1	2	15	0	0	12	0
	1730	,,	1008·1	1007·2		27·5	25·0	23·9	29.7	81	..	5·4	..	3·6	0	0	15	0	0	0	4	8	2	0	0	15	1
Assam (Including Manipur, Tripura)																											
Panigat	0830	157	1003·6	996·1	..	27·3	24.7	23.4	28·9	81	..	6·0	..	3·5	0	0	20	1	1	6	3	1	1	0	7	10	0
	1730	,,	999·5	982·2	..	23·8	25.7	24.7	30·4	79	..	1·6	..	2.5	0	1	11	2	0	1	3	1	1	0	4	18	0
Dibrugarh (Mohanbari)	0230	111	1001·7	988.9	..	25·0	24·1	23·7	29·3	93	..	5·7	..	2·0	0	0	11	0	10	0	0	1	0	0	0	19	0
	0530	,,	1002·2	989·7	..	25·1	24·2	23·8	29·3	93	..	6·5	..	2·9	0	0	16	2	11	1	1	0	1	0	0	14	0
	0830	,,	1003·0	990·6	−0·2	27·8	25·1	24·0	29·7	80	−6	6·7	+0·5	3.7	0	0	21	0	13	1	0	2	4	0	1	9	0
	1130	,,	1002·0	989·7	..	29·5	25·8	24·3	30·0	75	..	6·3	..	5·7	0	1	21	0	9	3	0	0	3	6	1	8	0
	1730	,,	999·3	987·1	..	29.5	25·9	24·3	30·4	75	..	5·4	..	3.3	0	0	19	2	7	1	2	0	4	3	0	11	0
	2330	,,	1001·5	989·0	..	25·8	24·7	24·2	30·4	91	..	5·5	..	1.4	0	0	9	1	7	1	0	0	0	0	0	21	0
Dibrugarh	0830	106	1002·8	990·9	−0·4	28·1	24·9	23·5	28·9	77	−10	5·9	−0·3	2·8	0	0	27	5	4	3	3	0	2	0	10	3	0
	1730	,,	999·9	937·4	..	29·5	25·7	23·9	29·8	72	..	4·5	..	1·5	0	0	14	0	3	3	0	1	4	1	2	16	0
Digboi (R)	0530	152																									
(R)	1730	,,																									
North Lakhimpur	0830	102	1003·5	992·2	+0·7	27·7	25·3	24·3	30·2	83	−5	6·3	−0·7	..	0	1	22	2	6	8	1	3	2	0	1	7	0
	1130		(g) 1003·4	(g) 992.0	..	29·9	26·0	24·5	30·4	73	..	5·3	..	(g) 5.1	0	0	26	0	5	10	3	6	2	0	0	4	0
	1730	,,	1000·4	989·0	..	29·6	26·3	24·9	30·2	77	..	4·7	..	..	0	0	15	0	4	3	2	3	2	0	1	15	0
Sibsagar	0830	97	1004·0	993·2	+1·1	28·2	25·8	24·7	31·3	82	−3	6·8	−0·2	3·0	0	0	18	5	4	1	3	2	3	0	0	12	0
	1730	,,	999·9	989·1	..	29·9	26·8	25·4	32·6	78	..	5·9	..	2·4	0	0	17	3	2	0	1	5	5	0	1	13	0
Gohpur (R)	0830	..																									
(R)	1730	..																									
Mazbat	0830	77	..	..	..	..	..	..	..	..	..	5·1	.	2·7	0	0	19	2	9	2	0	1	4	0	1	11	0
	1730	,,	..	..	..	..	..	..	..	..	..	3·4	..	1·6	0	0	10	2	3	1	2	0	0	0	2	20	0
Jorhat (Aerodrome)	0530	90	1001.7	991·6	..	25.5	24.8	24.5	30·7	95	..	6.7	..	4.7	0	0	16	1	8	0	1	1	3	1	1	14	0
	0830	,,	1003·0	993·0	..	28·1	25·7	24·7	31·1	83	..	6·5	..	7·3	0	1	17	1	6	1	2	1	3	1	3	12	0
	1130	,,	1001·8	991·9	..	30·3	26·4	24.8	31.1	73	..	6·3	..	10.1	0	3	22	4	8	2	0	0	5	4	2	5	0
	1730	,,	998·7	988·8	..	29·8	26·1	24·6	30·7	74	..	5·8	..	8·2	0	1	21	1	5	1	1	0	2	3	9	8	0
	2330	,,	1001·5	991·4	..	26·4	25.4	25·1	31·7	92	..	4·7	..	3·3	0	0	9	0	5	0	0	0	2	0	2	21	0
Tangla	0830	78	1002·9	993·7	..	27·7	25·9	25·2	31·1	86	..	5·1	..	0.1	0	0	1	0	0	1	0	0	0	0	0	29	0
	1730	,,	998·7	990·1	..	29.9	26·8	25.6	32·6	79	..	3·2	..	0·5	0	0	2	0	1	1	0	0	0	0	0	28	0
Tezpur	0830	79	1004·2	995·3	+0·9	27.4	25·6	24·8	31·3	85	+1	6·3	+0·1	3·3	0	0	21	0	11	1	3	0	5	0	0	9	1
	1730	,,	1000·6	991·8	..	29.5	26·0	24·6	30·7	75	..	4·9	..	2.7	0	0	16	0	10	0	1	1	2	0	0	14	2
Golaghat	0830	..	..	..	..	28·0	26·7	26·1	34·0	90	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	..	..	..	..	29·7	28·0	27·0	36·3	87	..	(f) 3·5	..	(f) 0	0	0	0	0	0	0	0	0	0	0	0	25	0
Rangia (R)	0830	..																									
(R)	1730	..																									
Chaparmukh	0830	66	1003·7	996·5	..	28·3	25.9	24·8	31·5	82	..	6·3	..	4·1	0	0	30	7	0	8	3	11	9	1	0	0	0
	1730	,,	999·6	992·3	..	30.2	26·7	25·4	32·2	76	..	5·5	..	4.7	0	0	30	10	0	5	0	10	1	4	0	0	0
Goalpara	0830	33	1002·3	997·9	..	26.8	25·1	24.2	30·4	88	..	(b) 6·2	..	(b) 3·5	0	0	26	1	7	4	5	0	5	0	4	3	0
	1730	,,	999·5	995·3	..	30·1	26.9	25·3	32·8	79	..	(c) 6·4	..	(c) 3.0	0	0	23	0	4	1	4	2	7	2	3	5	0
Gauhati	0830	55	1003·4	997·1	+0·9	28·1	25·9	25·1	31·7	84	+2	6·1	−0·1	1·3	0	0	13	2	2	7	1	0	0	0	1	17	0
	1730	,,	1000·0	993·9	..	29·7	26·6	25·4	32·2	77	..	5·8	..	0·9	0	0	9	0	1	1	0	0	5	0	2	21	0

(b) Mean of 29 days. (R) Register not received. (g) Mean of 24 days. (f) Mean of 25 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (K.m.p.h): 62 or more	Wind speed (K.m.p.h): 20 to 61	Wind speed (K.m.p.h): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—(*Contd.*)																											
Gauhati (Kaikuchi)	0230	54	1000·8	994·7	..	25·9	24·9	24·5	30·7	92	..	6·2	..	2·3	0	0	17	0	4	3	1	4	3	1	1	13	0
	0530	,,	1001·7	995·5	..	25·7	24·9	24·6	30·7	94	..	6·7	..	3·2	0	0	20	3	5	1	2	4	2	3	0	10	0
	0830	,,	1003·1	996·9	+0·6	28·2	25·8	24·6	31·5	82	.1	3·4	..	4·7	0	0	23	3	12	1	0	1	4	1	1	7	0
	1130	,,	1001·9	995·8	..	30·3	26·7	25·2	32·1	75	.	6·0	..	8·5	0	0	29	9	7	2	0	0	0	4	7	1	0
	1730	,,	999·1	993·1	..	29·0	26·1	25·0	31·1	80	..	6·5	..	6·4	0	1	27	3	4	2	1	5	5	5	3	2	0
	2330	,,	1001·7	995·5	.	26·4	25·3	24·9	31·5	91	.	5·9	..	2·5	0	0	11	1	2	1	0	3	4	0	0	19	0
Dhubri (Rupsi)*	0530	36	1000·8	996·7	.	25·5	25·0	24·8	33·5	96	..	5·8	..	2·4	0	0	13	3	1	7	1	0	1	0	0	14	0
	0830	,,	1002·1	998·0	..	27·8	25·7	24·7	31·1	84	..	(h) 6·0	..	(h) 3·0	0	0	13	1	6	6	3	2	1	0	0	10	0
	1130	,,	1001·3	997·3	..	29·2	26·4	25·1	32·1	78	..	6·5	..	6·0	0	0	27	2	2	5	12	4	2	0	0	3	0
	1730	,,	998·8	994·7	..	29·1	26·5	25·3	32·2	79	.	(i) 5·3	..	(i) 2·4	0	0	14	0	1	4	3	3	2	1	0	8	0
Dhubri	0830	35	1003·3	999·6	+1·4	27·3	25·9	25·2	32·2	89	+3	6·2	+0·1	2·3	0	0	16	1	7	4	1	3	0	0	0	14	0
	1730	,,	999·6	995·7	..	28·3	26·5	25·6	33·2	86	..	6·4	..	2·0	0	0	12	1	4	1	3	2	0	0	1	18	0
Lumding	0830	149	1002·9	986·3	..	28·1	26·0	25·1	31·9	82	+1	6·3	..	1·1	0	0	11	0	1	4	3	0	1	1	1	19	0
	1730	,,	999·1	982·6	..	30·4	26·4	21·5	31·1	73	.	5·1	..	1·7	0	0	13	0	0	3	0	2	4	0	4	17	0
Umroi	0830	899	..	..	..	23·9	21·9	20·8	24·9	83	..	7·1	..	5·1	0	0	28	4	4	10	4	1	0	3	2	2	0
	1130	,,	..	..	..	25·8	22·6	21·1	24·7	76	..	7·3	..	6·3	0	0	28	6	5	5	4	1	3	0	4	2	0
	1730	,,	..	..	..	25·8	22·2	21·5	25·5	86	..	7·7	..	3·9	0	0	25	7	4	3	0	3	0	2	6	5	0
Tura	0830	370	1003·2	962·2	..	26·4	24·2	23·2	28·4	84	..	7·2	..	5·0	0	0	24	1	2	3	3	10	4	1	0	6	0
	1730	,,	999·8	959·1	..	27·7	25·0	24·0	29·3	81	..	7·6	..	4·2	0	0	23	1	1	2	2	7	8	1	1	7	0
Haflong	0830	682	1003·5	929·0	..	24·2	22·5	21·[illegible]	25·3	85	..	5·8	.	..	0	0	30	0	5	0	0	6	18	1	0	0	0
	1730	,,	999·5	925·2	..	25·1	23·0	22·0	26·1	81	..	6·0	..	..	0	0	30	0	0	0	0	2	28	0	0	0	0
Silchar (Kumbhirgram)	0530	97	1001·4	990·5	..	24·4	23·9	23·6	29·3	96	..	6·5	.	6·1	0	0	28	0	2	21	2	0	2	1	0	2	0
	0830	,,	1002·5	991·7	..	27·1	25·3	24·4	30·7	86	..	6·3	..	5·4	0	0	28	0	2	12	6	4	2	1	1	2	0
	1130	,,	1001·4	990·7	..	29·3	26·1	24·7	31·1	77	..	5·9	..	7·3	0	1	28	1	4	4	1	4	6	5	4	1	0
	1730	,,	998·5	987·7	..	28·7	26·1	25·0	31·7	81	..	6·5	..	6·5	0	1	26	2	2	4	1	1	3	10	4	3	0
Silchar	0830	29	1004·0	1000·7	+0·5	27·9	25·9	25·0	31·7	85	+1	6·1	0	1·8	0	0	18	1	4	3	4	2	1	1	2	12	0
	1730	,,	1000·2	997·0	..	29·1	26·2	25·0	31·5	80	.	5·3	..	2·1	0	0	18	1	1	1	0	3	6	3	3	12	0
Imphal (Tulihal)	0530	831	1003·6	918·3	..	22·3	21·6	21·2	25·1	93	..	6·8	..	2·2	0	0	19	5	2	2	0	1	1	2	6	11	0
	0830	,,	1004·1	919·4	0	21·6	22·5	21·5	25·6	83	+3	6·7	−0·1	3·0	0	0	27	5	1	2	2	2	7	4	3	3	1
	1130	,,	1002·4	918·5	..	26·9	23·1	21·4	25·5	72		6·2	..	3.6	0	0	22	3	0	3	2	2	7	0	3	8	2
	1730	,,	999·8	915·9	..	26·2	22·9	21·4	25·6	76	..	6·8	..	5·0	0	0	28	2	5	2	2	0	2	8	6	2	1
	2330	,,	1003·2	918·2	..	23·1	21·9	21·4	25·5	90	..	6·1	..	3·0	0	0	22	2	3	2	2	0	3	6	5	7	0
Kailashahar	0530	29	1002·8	999·5	..	25·1	24·3	24·0	29·7	95	..	6·3	.	2·6	0	0	11	0	0	0	0	9	2	0	0	19	0
	0830	,,	1004·2	1001·0	..	27·9	25·7	24·7	31·1	84	..	6·7	..	5·3	0	1	19	1	0	1	1	9	1	3	4	10	0
	1130	,,	1003·3	1000.1		29·5	26·3	25·0	31·5	77	..	6·5	..	7·2	0	2	21	1	2	0	1	13	0	3	3	7	0
	1730	,,	1000·4	4997·2	..	29·0	26·1	25·0	31·5	80	..	6·6	..	5·1	0	0	19	3	0	1	0	10	0	4	1	11	0
Agartala	0230	16	1000·6	998·8	..	25·7	25·0	24·5	31·1	94	..	6·0	..	7·4	0	0	25	0	1	8	14	2	0	0	0	5	0
	0530	,,	1001·3	999·5	..	25·5	24·9	24·6	30·9	95	.	7·0	..	7·6	0	0	24	0	3	4	14	3	0	0	0	6	0
	0830	,,	1002·7	1000·9	+0.8	28·2	26.0	25·0	31·7	81	0	6·9	+0.2	10·6	0	1	28	0	2	4	11	9	0	0	3	1	0
	1130	,,	1001·9	1000·2	..	29·5	26·4	25·0	31.9	78	..	6·8	..	12·4	0	2	28	2	2	4	10	6	1	2	3	0	0
	1730	,,	999·3	997.5	..	28·3	25·9	24·9	31·5	83	..	6·5	..	9·2	0	1	29	2	2	4	9	6	1	3	3	0	0
	2330	,,	1001·4	999·6	..	26·1	25·0	24·4	30·7	92	..	6·2	..	8·3	0	0	24	1	0	2	13	6	2	0	0	6	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1000·3	985·6	..	25·7	24·5	24·0	29·8	90	..	6·2	..	8·1	0	0	28	5	15	5	0	1	0	0	2	2	0
	0530	,,	1001·0	986·3	..	25·0	24·7	24·5	30·8	97	..	6·9	..	7.0	0	0	26	7	8	8	1	0	1	1	0	4	0
	0830	,,	1002·2	987.5	+0·7	27·8	26·1	25·3	32·2	87	+3	6·8	+0·1	9·7	0	1	29	0	9	14	4	0	1	0	1	0	1
	1130	,,	1001·5	986·9	..	29·6	26·9	25·1	33·8	82	..	6·6	..	11·6	0	1	28	0	4	10	11	2	2	0	0	1	0
	1730	,,	998·4	983·8	..	28·9	27·4	26·8	35·2	87	..	6·1	..	8·0	0	1	28	2	5	12	3	2	2	2	1	1	0
	2330	,,	1001·3	985·6	..	26·7	25·1	24·3	30·4	87	..	6.0	..	10·3	0	3	24	5	12	7	1	1	0	1	0	3	0
Jalpaiguri	0830	83	1002·3	993·0	+0·2	26·7	25·0	24·3	30·4	87	+1	5·5	+0·7	7.8	0	0	29	2	11	13	0	1	0	1	1	1	0
	1730	,,	998·5	989·3	..	23·9	26·0	24·8	31·3	80	..	4·4	..	7.7	0	0	30	2	4	11	10	1	1	0	1	0	0
Cooch Behar	0830	43	1002·7	997·8	..	27.7	25.9	25·1	31·9	86	..	6·8	..	7·0	0	2	24	1	5	15	2	2	0	0	1	4	0
	1130	,,	1001·6	996·8	..	29·4	26·5	25·3	32.2	79	..	6·4	..	8·6	0	0	29	0	5	14	6	3	0	0	0	1	1
	1730	,,	998·9	994·1	..	29·3	26·8	25·7	33·0	82	..	5·9	..	4·7	0	0	18	0	2	8	7	0	1	0	0	12	0
Balurghat	0830	..	..	..	..	28·2	26·1	25·2	32·1	84	..	5·9	..	5·9	0	0	2	2	2	8	9	3	1	0	0	5	0
	1730	..	..	..	..	29·9	26·4	24·9	31·5	75	..	5·1	..	5·5	0	0	27	2	3	7	10	2	1	1	1	3	0
Malda	0830	31	1001·5	997·9	+0·3	28·6	26·2	25·3	32·2	83	+2	7·1	+2·1	8·6	0	0	30	0	6	14	5	4	1	0	0	0	0
	1730	,,	998·2	994·7	..	30·4	26·5	25·0	31·7	76	..	6·1	..	7·5	0	0	29	1	2	1	8	3	1	1	1	1	0

*Observations for 27 days, (i) Mean of 22 days. (h) Mean of 23 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal (*Contd.*)																												
Berhampore	0830	19	1001·1	999·0	+0·4	28·8	26·9	26·2	34·0	85	+4	6·2	+0·1	4·5	0	0	25	2	1	5	3	14	0	0	0	5	0
	1730	,,	997·5	995·5	..	29·6	27·0	26·0	33·6	80	..	6·5	..	4·8	0	0	26	0	0	11	1	14	0	0	0	4	0
Suri	0830	77	1001·1	992·6	..	29·5	26·2	24·8	31·3	76	..	6·2	..	7·9	0	0	30	2	4	8	5	4	3	2	2	0	0
	1730	,,	998·0	989·5	..	30·8	26·2	24·3	30·4	70	.	7·0	..	10·0	0	0	30	0	3	9	10	3	2	2	1	0	0
Asansol	0230	125	998·9	984·8	..	26·9	25·8	25·3	32·2	92	..	5·4	..	7·4	0	0	22	0	1	2	11	3	2	3	0	8	0
	0530	,,	999·3	985·3	..	26·3	25·8	25·5	32·6	95	..	6·4	..	5·8	0	1	16	1	0	1	9	2	2	2	0	13	0
	0830	,,	1000·6	986·6	+0·6	29·5	27·0	26·0	33·6	83	+9	5·6	+0·3	6·8	0	0	24	1	2	5	7	1	5	2	1	6	0
	1130	,,	999·9	986·0	..	32·4	27·9	26·1	33·8	72	..	5·5	..	8·4	0	0	23	2	1	8	5	0	3	3	1	7	0
	1730	,,	997·4	983·5	..	30·5	27·3	25·9	33·4	78	..	5·9	..	7·1	0	1	21	0	3	7	5	0	3	3	1	8	0
	2330	,,	999·9	985·8	..	27·5	26·1	25·6	32·8	89	..	5·2	..	6·3	0	1	18	0	2	2	8	3	3	1	0	11	0
Santi Niketan	0830	59	1001·1	994·5	..	29·4	26·7	25·5	32·6	80	..	6·3	..	10·5	0	1	28	2	4	2	4	7	6	3	1	1	0
	1130	,,	1000·4	993·9	..	31·8	27·3	25·4	32·4	69	..	6·0	.	7·6	0	0	28	3	3	2	4	9	4	3	0	2	0
	1730	,,	997·5	990·9	..	30·8	26·6	24·8	31·3	73	..	6·5	..	8·6	0	0	29	0	3	4	9	8	0	1	4	1	0
Krishnanagar	0830	15	1001·3	999·7	+0·4	29·8	27·2	26·2	34·0	82	+3	4·3	−1·4	2·6	0	0	17	0	2	1	2	12	0	0	0	13	0
	1730	,,	998·3	996·7	..	30·3	27·0	25·6	32·8	78	..	4·7	..	2·2	0	0	19	0	1	0	3	14	0	0	1	11	0
Purulia	0530	255	1000·6	972·7	+0·9	29·1	25·0	23·2	28·4	72	+1	7·0	−1·6	4·7	0	0	28	1	0	0	10	0	6	2	9	2	0
	1730	,,	997·1	969·4	..	30·0	24·8	22·4	27·1	65	..	6·8	..	4·7	0	0	28	0	3	1	10	4	2	5	3	2	0
Burdwan	0830	32	1000·6	996·9	+0·1	30·1	26·9	25·6	32·8	78	−2	6·4	+0·5	8·3	0	0	28	1	2	5	4	6	9	0	1	2	0
	1730	,,	997·5	993·8	..	30·0	27·0	25·8	33·2	77	..	5·6	..	5·8	0	0	20	1	2	8	1	2	6	0	0	10	0
Barrackpore (Aerodrome)	0530	7	1000·0	999·5	..	27·0	26·0	25·6	32·8	92	..	6·5	..	8·3	0	0	23	1	2	3	3	4	7	2	1	7	0
	0830	,,	1001·3	1000·5	+0·6	29·2	27·2	26·3	34·2	85	+5	6·6	+0·3	9·0	0	0	27	2	1	3	3	8	7	0	3	3	0
	1130	,,	1000·5	999·8	..	31·9	28·6	27·3	36·3	78	..	6·7	..	11·5	0	2	28	0	2	3	3	9	4	5	4	0	0
	1730	,,	998·1	997·3	..	30·0	28·2	27·5	36·7	86	..	6·4	..	8·9	0	0	26	0	1	1	6	7	5	4	2	4	0
	2330	,,	1000·0	999·3	..	27·5	26·6	26·2	34·0	91	..	5·1	..	6·8	0	0	23	1	1	1	2	11	3	3	1	7	0
Calcutta (Dum Dum)	0230	6	999·0	998·3	..	27·1	26·0	25·6	32·8	92	..	6·1	.	6·3	0	0	27	0	3	3	4	10	6	0	1	3	0
	0530	,,	999·7	999·0	..	26·8	25·8	25·4	32·4	92	..	7·1	..	5·9	0	0	23	3	2	1	3	8	4	0	2	7	0
	0830	,,	1000·8	1000·1	+0·4	29·4	26·9	26·0	33·6	82	+3	6·7	+0·4	7·3	0	2	25	3	2	2	5	10	3	2	0	3	0
	1130	,,	1000·2	999·5	..	32·1	27·7	25·9	33·4	71	..	6·7	..	10·0	0	3	25	0	4	4	4	11	3	2	0	2	0
	1730	,,	997·9	997·2	..	30·1	26·9	25·7	33·0	78	..	6·8	..	6·4	0	0	27	0	3	3	8	5	5	2	1	3	0
	2330	,,	1000·1	999·4	..	27·5	26·2	25·6	32·8	89	..	5·9	..	7·2	0	1	26	0	2	1	8	10	4	1	1	3	0
Calcutta	0830	6	1000·7	1000·0	+0·1	29·6	27·0	25·9	33·4	81	+2	6·3	+0·2	9·2	0	2	25	0	1	3	3	11	5	1	3	3	0
	1130	,,	1000·0	999·3	..	32·4	27·8	26·0	33·6	70	..	6·6	..	10·1	0	5	22	0	2	4	4	8	7	0	2	3	0
	1730	,,	997·8	997·1	..	30·4	27·2	25·8	33·2	78	..	6·7	..	8·3	0	1	26	0	0	3	8	7	5	1	3	3	0
Midnapore	0830	45	1000·7	995·6	+0·3	29·0	26·1	24·9	31·5	79	+1	5·4	+0·4	4·1	0	1	15	2	1	1	0	7	3	2	0	14	0
	1730	,,	997·7	992·6	..	30·9	26·5	24·7	31·1	71	..	5·7	..	5·6	0	1	20	3	1	0	1	11	4	0	1	9	0
Contai	0830	11	1001·4	1000·2	+1·5	29·8	27·2	26·2	34·0	81	0	4·1	−1·1	8·0	0	3	23	6	0	0	3	4	11	2	0	4	0
	1730	,,	998·5	997·3	..	29·4	27·3	26·4	34·4	84	..	4·3	.	9·8	0	1	29	1	0	1	4	14	6	2	2	0	0
Saugor Island	0830	3	1000·6	1000·3	+0·1	29·3	27·3	26·4	34·4	84	+6	5·7	−0·8	24·8	0	14	15	4	2	0	2	8	10	2	1	1	0
	1730	,,	997·9	997·6	..	29·6	27·4	26·5	34·6	84	..	5·8	..	26·6	0	20	10	0	0	0	3	12	11	2	2	0	0
Sandheads	0530	10	999·6	998·5	..	28·9	26·9	26·1	33·8	83	..	6·9	.	25·2	0	18	11	0	0	1	1	8	13	4	2	1	
	0830	,,	1001·0	999·9	0	29·5	27·1	26·2	34·0	81	+1	6·8	+1·1	23·5	0	15	14	0	1	2	2	3	15	3	3	1	0
	1130	,,	1000·7	999·6	..	29·9	27·2	26·1	33·8	80	..	6·4	..	21·4	0	13	16	2	0	0	3	3	16	2	3	1	0
	1730	,,	998·0	996·9	..	29·3	27·3	26·4	34·4	83	.	6·6	..	22·8	0	17	12	0	0	0	3	9	14	1	2	1	
	2330	,,	1000·4	999·3	..	29·1	26·9	26·2	34·0	83	..	4·8	..	23·9	0	18	11	2	0	0	2	5	15	2	3	1	0
Orissa																												
Baripada	0830	54	1001·5	995·5	..	29·3	26·2	24·9	31·5	78	..	6·8	.	1·5	0	0	11	1	0	0	1	3	4	0	2	19	0
	1730	,,	998·2	992·2	..	30·7	26·1	24·1	30·0	70	..	6·3	..	2·1	0	0	16	1	0	2	3	1	5	1	3	14	0
Jharsuguda	0230	230	999·5	974·0	..	26·8	24·2	23·0	28·1	82	..	6·3	.	7·5	0	2	24	0	1	1	2	4	10	7	1	4	0
	0530	,,	1000·2	974·5	..	26·3	24·1	23·1	28·3	84	..	7·0	..	5·7	0	0	22	0	1	2	1	0	12	5	1	8	0
	0830	,,	1001·3	975·9	+1·2	28·1	24·5	22·9	27·6	74	+9	6·9	+1·2	7·7	0	0	28	0	0	3	0	3	8	13	1	2	0
	1130	,,	1000·7	975·4	..	30·7	25·2	22·6	27·4	66	..	7·2	..	9·7	0	1	29	0	0	2	3	1	7	12	5	0	0
	1730	,,	997·5	972·3	..	30·6	25·6	23·4	28·8	65	..	7·7	..	8·4	0	0	27	1	0	5	0	0	14	6	1	3	0
	2330	,,	1000·5	975·0	..	27·4	24·6	23·2	28·4	81	..	6·4	..	7·5	0	1	24	1	0	2	3	2	13	3	1	5	0
Keonjhargarh	0830	463	998·4	947·9	..	27·4	24·5	23·3	28·6	78	..	5·4	..	6·4	0	2	17	1	0	1	1	1	1	8	6	11	0
	1730	,,	994·9	945·0	..	29·6	25·3	23·5	28·9	72	..	6·8	..	4·0	0	1	23	0	0	3	0	0	4	16	1	6	0
Balasore	0830	20	1000·7	998·5	+0·4	29·6	26·7	25·5	32·6	80	+3	6·0	+0·6	7·7	0	5	15	2	1	0	1	7	8	0	1	10	0
	1730	,,	997·7	995·5	..	30·6	27·1	25·6	32·8	76	..	6·4	..	7·2	0	5	16	1	1	1	3	10	4	0	1	9	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Sambalpur	0830	143	1001·7	995·2	+1·0	28·7	25·0	23·3	28·6	75	+9	5·9	+0·7	2·4	0	0	16	0	0	0	0	1	12	3	0	14	0
	1730	,,	998·2	992·0	..	31·2	25·3	22·6	27·4	65	..	6·3	..	3·3	0	0	18	2	0	0	1	5	8	2	0	12	0
Angul	0830	139	1001·8	996·4	+1·3	28·5	25·4	24·0	29·8	78	+6	6·5	+0·7	5·8	0	0	30	0	1	2	4	2	3	4	14	0	0
	1730	,,	998·6	993·4	..	31·6	25·7	23·0	28·1	63	..	6·8	..	5·5	0	0	29	1	2	1	4	1	3	5	12	1	0
Cuttak	0830	27	1001·4	998·4	+0·3	29·3	26·6	25·5	32·6	79	+4	5·9	+0·2	2·7	0	0	9	1	0	0	0	1	4	0	3	21	0
	1730	,,	998·0	995·0	..	31·4	27·1	25·3	32·2	71	..	7·1	..	1·7	0	0	7	0	0	0	0	1	4	0	2	23	0
Chandbali	0830	6	1001·4	1000·7	+0·5	29·2	26·3	25·0	31·7	80	+3	5·4	−0·4	7·1	0	1	26	0	0	0	4	4	13	4	2	3	0
	1730	,,	998·5	997·8	..	30·5	27·2	25·8	33·2	77	..	6·0	..	8·5	0	1	28	0	1	1	15	2	8	1	1	1	0
Bolangir	0830	190	1001·9	980·8	..	28·5	25·2	23·8	29·5	78	..	5·7	..	10·9	0	0	30	2	1	1	3	12	10	0	1	0	0
	1730	,,	998·6	977·7	..	31·0	26·0	23·8	29·5	68	..	6·9	..	10·7	0	1	29	2	2	1	4	10	7	1	2	0	1
Phulbani	0830	464	999·7	949·0	..	26·5	23·4	22·1	26·6	77	..	6·0	..	1·2	0	0	4	0	0	0	0	0	2	2	0	26	0
	1730	,,	996·9	946·7	..	29·2	24·4	22·4	27·1	68	..	5·7	..	3·8	0	2	12	0	0	0	0	0	5	8	1	16	0
Titlagarh	0830	211	1000·0	976·8	..	28·7	25·6	24·3	30·4	77	..	3·5	..	3·0	0	0	30	0	17	0	8	0	5	0	0	0	0
	1730	,,	998·6	975·4	..	30·1	25·4	23·3	28·6	69	..	4·0	..	2·8	0	0	28	0	14	0	11	0	3	0	0	2	0
Bhubaneswar	0230	46	1000·1	994·9	..	27·1	25·7	25·1	31·9	89	..	5·1	..	16·2	0	8	19	0	1	2	1	1	14	4	4	3	0
	0530	,,	1000·4	995·2	..	26·6	25·3	24·7	31·1	90	..	6·2	..	13·0	0	5	24	0	0	1	2	2	16	6	2	1	0
	0830	,,	1001·8	996·6	+1·1	29·4	26·0	24·6	30·9	76	−2	5·9	−0·2	16·8	0	9	18	1	0	0	1	2	12	7	4	3	0
	1130	,,	1001·3	996·1	..	32·2	26·6	24·2	30·2	64	.	6·1	..	16·6	1	5	23	1	0	1	1	2	15	4	5	1	0
	1730	,,	998·9	993·7	..	30·4	26·2	24·4	30·5	71	..	6·5	..	20·0	0	13	17	0	1	0	1	3	16	6	3	0	0
	2330	,,	1001·2	996·0	..	27·6	25·9	25·3	32·2	87	..	5·6	..	18·5	0	9	21	0	0	0	2	3	17	3	4	1	0
Puri	0830	6	1002·8	1002·1	+1·7	29·2	27·3	26·6	34·8	85	+4	6·3	+1·0	25·8	0	17	13	5	0	0	1	1	21	1	1	0	0
	1730	,,	999·8	995·1	..	29·1	27·6	27·0	35·7	..	..	6·9	..	21·7	0	15	15	3	0	0	0	5	18	3	1	0	0
Gopalpur	0530	17	1000·8	998·9	..	27·3	26·2	25·7	33·0	91	..	6·5	..	13·2	0	8	15	2	1	0	0	6	11	0	3	7	0
	0830	,,	1002·5	1000·4	+1·2	29·6	26·9	26·0	33·6	84	+3	6·3	+1·8	15·1	0	10	17	1	2	1	1	16	10	0	2	3	0
	1130	,,	1001·9	1000·0	..	30·5	27·8	26·6	34·8	81	..	6·4	..	21·0	0	12	18	2	0	1	4	11	8	1	3	0	0
	1730	,,	999·5	997·6	..	29·2	27·2	26·4	34·4	85	..	6·4	..	23·5	0	20	9	2	0	0	0	10	13	0	4	1	0
	2330	,,	1001·6	999·7	..	27·8	26·6	26·2	34·0	91	..	5·2	.	18·5	0	11	15	2	0	0	0	8	10	1	1	4	0
Koraput	0830	913	1000·8	995·3	+1·1	24·1	21·4	20·1	23·5	77	0	6·5	+1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1444·6	993·4	..	25·0	21·3	19·4	22·2	72	..	6·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1000·6	984·1	+0·4	29·0	25·9	24·6	30·9	77	+2	4·4	−0·3	6·3	0	0	24	0	6	5	5	2	2	3	1	6	0
	1730	,,	997·5	981·1	..	29·9	26·0	24·3	30·4	70	..	4·6	..	4·9	0	0	25	1	4	1	11	1	3	4	0	5	0
Daltonganj	0830	221	1000·5	976·2	+1·2	30·9	26·5	24·6	30·9	72	+12	5·6	+2·1	..	..	.	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	996·5	972·4	..	32·1	28·5	27·4	36·5	78	..	7·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	999·9	933·7	+0·1	27·4	23·0	21·0	24·9	71	+6	6·9	+1·2	11·5	0	2	25	3	2	1	3	2	3	7	6	3	0
	1730	,,	996·8	931·0	..	28·5	23·7	21·4	25·5	70	..	6·9	..	9·0	0	2	21	6	2	0	2	4	2	3	4	7	0
Dhanbad	0830	257	1000·3	971·9	..	28·7	25·3	24·1	30·5	77	..	6·0	..	6·6	0	0	24	0	4	3	4	3	3	6	1	6	0
	1730	,,	996·6	968·5	..	30·4	25·5	23·3	28·6	69	..	6·5	..	9·6	0	2	23	4	3	6	3	3	0	3	2	5	1
Ranchi	0830	655	1000·1	929·1	+0·5	26·5	23·2	21·3	25·3	76	+8	5·8	+0·8	1·7	0	0	11	2	0	3	0	1	2	3	0	19	0
	1730	,,	997·5	927·1	..	28·2	23·4	21·2	25·2	68	..	6·2	..	0·6	0	0	3	0	0	0	0	2	1	0	0	27	0
Ranchi Aerodrome	0530	652	999·2	928·2	..	24·3	22·2	21·2	25·2	84	..	6·7	..	6·3	0	0	26	2	0	1	3	4	10	4	2	4	0
	0830	,,	1000·0	929·5	..	26·6	22·7	20·9	24·7	73	..	6·9	..	9·1	0	0	29	4	0	3	2	4	8	8	0	1	0
	1130	,,	999·1	929·1	..	29·0	23·0	20·2	23·7	60	..	7·0	..	11·7	0	1	28	4	2	3	3	2	4	4	7	1	0
	1730	,,	997·2	927·0	..	27·7	22·7	21·9	26·3	70	..	(i) 6·9	..	(i) 6·8	0	0	21	6	0	1	2	3	3	0	6	1	0
Jamshedpur	0830	129	1000·6	986·3	+0·5	28·8	25·4	23·9	29·7	76	+6	6·0	+0·6	8·3	0	1	28	0	1	7	0	0	2	16	3	1	0
	1730	,,	997·2	983·0	..	30·4	25·8	23·8	29·3	69	..	6·5	..	5·7	0	0	25	0	0	4	3	3	6	7	2	5	0
Jamshedpur (P.B.O.)	0530	142	999·4	983·6	..	26·7	24·6	23·5	28·9	84	..	7·0	..	4·2	0	0	23	0	2	6	2	5	5	2	1	7	0
	0830	,,	1000·6	984·9	..	28·9	25·1	23·3	28·6	74	..	6·8	..	8·0	0	1	26	0	3	1	5	3	13	1	1	3	0
	1130	,,	999·9	984·3	..	31·4	25·8	23·2	28·4	65	..	6·8	..	9·0	0	3	25	0	0	2	2	8	7	5	4	2	0
	1730	,,	997·3	981·6	..	30·5	25·6	23·4	28·6	69	..	6·8	..	9·4	0	0	29	1	1	2	8	3	9	3	2	1	0
	2330	,,	1000·0	984·2	..	27·4	25·0	23·8	29·5	82	..	6·0	..	7·3	0	1	25	0	8	2	1	7	4	4	0	4	0
Chaibasa	0830	226	1000·8	975·9	+1·1	29·2	25·0	23·1	28·3	71	+2	5·9	+0·8	11·0	0	2	24	0	2	0	2	1	19	0	2	4	0
	1730	,,	997·5	972·7	..	30·3	25·1	22·1	27·6	65	..	6·7	..	11·4	0	2	23	0	5	0	2	1	15	0	2	5	0
Bihar Plains																											
Motihari	0830	66	1000·5	993·0	−0·1	28·1	25·7	24·7	31·1	82	+5	4·0	−0·1	2·3	0	0	13	1	0	11	0	0	1	0	0	17	0
	1730	,,	997·1	989·7	..	31·3	27·3	25·7	32·0	74	..	2·6	..	1·8	0	0	7	0	2	3	1	1	0	0	0	23	0
Forbesganj	0830	61	1001·5	994·7	..	28·1	25·7	24·7	31·1	83	..	6·3	..	6·8	0	0	30	0	3	25	2	0	0	0	0	0	0
	1730	,,	997·7	991·0	..	30·5	26·5	24·8	31·3	73	..	5·1	..	5·1	0	0	30	0	4	15	8	0	0	3	0	0	0

(i) Mean of 22 days.

Division and station	Hours of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains — *Contd.*																											
Purnea	0830	38	1001·6	997·3	+0·5	28·2	26·0	25·1	31·9	84	+2	6·2	+0·8	2·6	0	0	22	0	3	19	0	0	0	0	0	8	0
	1730	,,	998·1	993·9	..	29·9	26·7	25·3	32·2	77	..	5·4	..	4·1	0	0	23	0	1	21	0	0	0	0	1	7	0
Patna	0830	53	1000·3	994·4	+0·4	29·3	25·9	24·3	30·4	74	+2	5·9	+1·4	7·7	0	0	30	1	11	9	3	1	0	3	2	0	0
	1730	,,	996·5	990·7	..	33·2	26·8	24·1	30·0	59	..	6·0	..	5·9	0	0	26	1	14	4	2	0	1	3	1	4	0
Patna Aerodrome	0530	60	998·6	991·9	..	27·3	25·7	25·0	31·7	88	..	5·2	..	9·2	0	2	21	0	2	15	4	0	0	1	1	7	0
	0830	,,	1000·0	993·3	..	29·9	26·2	24·4	30·5	74	..	5·4	..	12·7	0	2	28	1	6	9	9	2	1	1	1	0	0
	1130	,,	999·4	992·8	..	32·5	26·7	24·2	30·2	63	..	5·7	..	12·9	0	5	24	0	8	12	3	1	1	1	3	1	0
	1730	,,	996·1	989·5	..	32·6	26·4	23·7	29·3	62	..	4·4	..	9·3	0	0	27	3	6	9	4	0	1	0	4	3	0
	2330	,,	999·2	993·4	..	28·6	25·9	24·6	30·9	81	..	3·4	..	10·2	0	5	17	0	3	16	3	0	0	0	0	8	0
Bhagalpur	0530	49	1000·0	994·5	..	26·7	25·5	25·0	31·7	91	..	6·3	..	7·1	0	1	19	0	2	13	5	0	0	0	0	10	0
	0830	,,	1001·1	995·6	+0·8	29·0	26·3	25·2	32·1	81	+5	6·3	+0·8	7·5	0	0	26	1	2	12	8	1	0	1	1	4	0
	1130	,,	1000·6	995·2	..	30·8	26·8	25·1	31·0	73	..	6·5	..	9·5	0	2	26	0	2	15	8	0	0	0	3	2	0
	1730	,,	997·5	992·1	..	30·7	26·8	25·1	31·9	75	..	5·7	..	7·9	0	1	24	1	3	15	1	2	0	0	1	5	0
	2330	,,	1000·2	994·7	..	27·9	26·1	25·3	32·2	86	..	3·8	..	6·4	0	0	21	0	0	9	11	1	0	0	0	9	0
Sabour	0830	37	1000·9	996·7	+0·3	28·6	26·6	25·8	33·2	85	+8	6·7	+0·9	9·6	0	2	26	2	4	14	5	0	1	1	1	2	0
	1730	,,	997·1	993·0	..	30·6	27·2	25·8	33·2	76	..	6·3	..	7·7	0	0	22	1	1	14	4	1	0	0	1	8	0
Jamui	0830	82	1000·0	990·7	..	29·9	27·0	25·9	33·4	80	..	5·2	..	4·1	0	0	28	0	3	18	2	1	0	3	1	2	0
	1730	,,	996·7	987·5	..	31·7	27·6	26·4	31·4	74	..	5·0	..	3·9	0	0	24	0	0	19	0	1	0	3	1	6	0
Deoli	0830	107	999·7	987·9	..	31·0	26·1	23·9	29·7	69	..	5·0	..	3·6	0	0	30	1	5	5	8	2	1	5	3	0	0
	1730	,,	996·0	984·2	..	32·9	26·6	23·8	29·5	63	..	6·1	..	4·1	0	0	30	3	2	13	0	1	2	7	2	0	0
Gaya	0230	116	998·5	985·0	..	27·8	25·3	24·2	30·2	82	..	3·6	.	8·8	0	2	20	0	3	6	2	4	5	0	2	8	0
	0530	,,	998·8	985·7	.	27·3	25·0	23·9	29·7	83	.	5·3	..	7·7	0	2	21	0	2	7	2	2	7	1	2	7	0
	0830	,,	1000·1	987·2	+0·3	30·3	25·8	23·8	29·5	71	+18	5·5	+1·8	12·7	0	4	21	2	2	5	4	0	4	6	2	5	0
	1130	,,	999·6	986·8	..	32·8	26·2	23·2	28·4	60	..	5·9	..	17·3	1	9	17	1	2	4	5	2	1	7	5	3	0
	1730	,,	996·4	983·6	..	32·6	26·2	23·5	28·9	61	..	5·9	..	12·2	0	5	22	3	6	8	5	0	1	2	2	3	0
	2330	,,	999·2	986·2	..	28·7	25·8	24·5	30·7	79	..	3·8	..	10·8	0	4	20	0	3	6	7	2	5	1	0	6	0
Uttar Pradesh (East)																											
Kheri	0830	147	999·6	983·3	+0·6	29·4	25·5	23·7	29·3	73	+4	2·0	−1·9	4·5	0	0	27	0	3	13	4	0	1	4	2	3	0
	1730	,,	995·5	979·5	..	34·7	26·8	23·3	28·6	54	..	2·0	..	4·0	0	0	24	0	1	4	3	1	2	11	2	6	0
Bahraich	0830	124	1000·2	986·5	+1·0	30·2	25·7	23·6	29·1	68	+1	4·1	+1·2	8·5	0	1	26	0	0	24	0	0	0	3	0	3	0
	1730	,,	996·6	983·1	..	33·9	26·2	22·4	27·7	54	..	4·5	..	6·9	0	0	26	2	0	17	0	0	0	5	2	4	0
Nautanwa	0830	99	1001·3	990·2	..	27·8	25·5	24·1	30·5	80	..	3·9	..	5·9	0	0	27	3	0	11	12	0	1	0	0	3	0
	1730	,,	997·3	986·6	..	31·9	26·5	24·2	30·0	65	..	2·2	..	5·7	0	0	26	1	2	9	8	2	2	2	0	4	0
Hardoi	0330	142	999·5	983·8	+1·1	31·7	26·3	23·7	29·8	65	+4	2·7	−0·4	9·1	0	0	28	2	0	15	3	0	1	6	1	2	0
	1730	,,	995·3	980·0	..	36·4	27·4	23·5	29·1	51	..	2·4	..	7·5	0	0	27	6	0	7	1	0	0	9	4	3	0
Gonda	0830	110	999·9	987·9	..	31·2	26·1	23·8	29·5	66	−3	4·1	−0·3	..	..	..	..	0	0	23	0	0	0	1	2	4	0
	1730	,,	995·8	983·9	..	35·2	26·3	22·0	26·9	50	..	3·0	..	..	..	..	..	2	0	18	1	0	0	2	6	1	0
Lucknow	0830	111	..	..	..	31·1	25·5	22·8	27·7	64	+3	3·7	+0·4	2·9	0	0	27	0	4	8	4	3	4	0	4	3	0
	1730		..	..	..	36·3	25·9	20·8	24·6	44	..	3·2	..	4·6	0	0	30	1	4	5	2	2	2	6	8	0	0
Lucknow (Amausi)	0230	128	997·5	983·4	..	29·5	24·8	22·4	27·6	69	..	2·8	..	12·9	0	7	17	0	4	11	3	1	3	2	0	6	0
	0530	,,	998·2	984·0	..	28·5	24·8	22·8	28·3	74	..	4·2	..	10·8	0	1	26	0	3	12	3	1	3	4	1	3	0
	0830	,,	999·4	985·4	+0·4	31·3	25·7	23·0	28·3	64	+8	4·1	+0·8	18·6	0	12	16	1	1	12	3	1	2	4	4	2	0
	1130	,,	999·0	985·1	..	35·3	26·1	21·7	26·1	48	..	4·1	..	20·2	0	14	15	1	2	5	4	2	0	7	8	1	0
	1730	,,	995·3	981·5	..	36·1	25·9	20·9	24·9	45	..	3·4	..	18·1	0	10	18	1	4	5	3	0	1	4	10	2	0
	2330	,,	998·0	984·0	..	30·8	25·5	22·9	27·9	65	..	3·0	..	11·4	0	5	20	1	4	12	3	1	2	2	0	5	0
Faizabad	0830	102	1000·2	989·0	..	30·3	25·9	23·9	29·7	69	..	5·0	..	5·8	0	0	30	2	4	8	10	0	2	2	2	0	0
	1730	,,	995·8	984·7	..	34·4	26·4	22·6	27·7	53	..	4·4	..	5·7	0	0	28	1	4	4	12	1	0	6	0	2	0
Gorakhpur	0830	77	1000·4	991·7	+0·3	31·4	26·2	23·9	29·7	68	−5	4·9	+1·5	..	0	0	30	3	3	12	4	3	1	0	1	0	3
	1730	,,	996·0	987·4	..	33·2	27·2	24·4	30·5	62	..	3·9	..	..	0	0	29	1	5	7	6	0	0	3	4	1	3
Gorakhpur (P.B.O.)	0230	78	998·4	989·7	..	28·7	26·3	25·4	33·8	83	..	3·8	..	0·7	0	0	26	2	14	7	2	0	0	1	0	4	0
	0530	,,	998·9	990·1	..	27·6	25·6	24·9	31·9	86	..	5·6	..	5·9	0	0	24	4	7	8	3	2	0	0	0	6	0
	1130	,,	1000·1	991·5	..	31·8	27·0	25·4	31·9	69	..	5·8	..	7·8	0	0	30	1	5	6	11	4	3	0	0	0	0
	2330	,,	999·1	990·4	..	29·3	26·6	25·6	32·8	78	..	3·4	..	5·7	0	1	22	2	7	7	6	0	1	0	0	7	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km.p.h.): 63 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —*Contd.*																											
Kanpur	0830	126	1000·2	986·4	−1·4	32·3	25·8	22·7	27.6	59	+1	4·2	+2·0	8·4	0	0	30	0	2	7	4	0	6	9	2	0	0
	1730	,,	996·4	982·9	..	37·5	26·9	22.0	26·4	44	..	4·3	..	7·4	0	0	30	5	3	2	1	1	3	8	7	0	0
Kanpur (Aerodrome)	0530	126	998·3	984·1	..	29·7	24·3	21·3	25·3	64	..	4·0	..	10·7	0	0	26	0	0	8	5	0	2	10	1	4	0
	0830	,,	997 7	985·5	..	32 9	24·8	20·4	24·0	51	..	3·7	..	19·5	0	12	18	0	0	10	4	0	2	9	5	0	0
	1130	,,	999·4	985·4	..	36·8	25·5	19.6	22·8	40	..	3·6	..	21·6	0	17	13	1	1	7	3	2	0	10	6	0	0
	1730	,,	995·6	981·7	..	37·5	25·4	18·9	21·8	38	..	3·7	..	16 0	0	7	23	3	1	7	1	0	0	7	11	0	0
	2330	,,	998·1	984·0	..	32·3	24·8	20·6	24·3	54	..	2·3	..	12·1	0	3	24	1	1	8	4	1	2	6	4	3	0
Sultanpur	0830	97	1000·3	989·5	..	31·5	25·7	23·0	28·3	63	..	5·4	..	4·4	0	0	27	1	3	13	2	1	2	3	2	3	0
	1730	,,	995·9	985·3	.	35·6	26·4	21·6	26·9	50	..	(b) 4·5	..	(b) 4·1	0	0	26	2	3	13	0	0	1	1	6	3	0
Azamgarh	0830	78	999·7	991·0	..	29·8	26·3	25·1	31·5	76	..	5·0	..	..	0	0	30	1	2	22	0	0	0	5	0	0	0
	1730	,,	996·0	987·7	..	33·6	27·1	24·3	30·4	64	..	4·1	..	..	0	0	27	1	2	15	0	0	1	8	0	3	0
Fatehpur	0830	114	999·5	987·0	..	33·0	25·4	21·6	26·3	54	−8	5.6	0	7·8	0	0	29	0	1	5	2	0	6	8	7	1	0
	1730	,,	995·1	982·8	..	38·2	26·2	20·0	24·1	38	..	3·7	..	7·5	0	0	30	1	6	6	2	1	3	3	8	0	0
Ballia	0830	64	1000·5	993·5	..	30·8	26·0	24·0	29·7	69	..	5·3	..	3·9	0	0	30	0	4	17	5	0	0	1	3	0	0
	1730	,,	997·2	990·2	..	34·2	27·0	23·8	29·7	58	..	4·4	..	4·3	0	0	28	1	7	13	2	0	0	1	4	2	0
Banda	0830	121	1000·3	986·9	..	34·9	27·1	23·6	29·1	54	..	2·9	..	5·2	0	0	27	0	2	0	2	0	16	2	5	3	0
	1730	,,	995·6	982·6	..	38·2	27·7	22·7	27·6	44	..	4·0	..	5·0	0	0	30	0	6	0	6	0	13	0	5	0	0
Allahabad (Bamauli)	0230	98	997·7	986·9	..	30·4	24·8	21·8	26·3	63	..	3·8	..	4 8	0	0	22	0	3	5	2	3	4	5	0	8	0
	0530	,,	998·3	987·5	..	29·3	24·5	21 9	26.3	69	..	5·4	..	6·1	0	0	24	2	1	6	3	2	2	8	0	6	
	0830	,,	999·6	988·9	+0·7	33.0	25·4	21.5	25.6	55	−1	4.8	+1·0	10·7	0	3	25	1	4	5	0	3	4	8	3	2	0
	1130	,,	999·2	988·6	..	36.5	25.7	20 2	23.7	42	..	5.0	..	13·0	0	4	26	2	8	4	1	0	2	6	7	0	0
	1730	,,	995·5	984·9	..	36·4	25·4	19.5	22.7	42	..	5.6	..	10·7	0	1	28	4	7	6	0	2	1	3	6	1	0
	2330	,,	998.4	987·6	..	31.7	25 2	21·9	26.3	59	..	3·2	..	6·1	0	0	21	0	1	7	3	4	2	4	0	9	0
Varanasi (Babatpur)	0530	85	999·2	989.6	..	28.3	25.0	23.1	28.9	77	..	4.6	..	7.7	0	1	24	1	3	7	5	0	4	3	2	5	0
	0830	,,	1000·6	991·1	+1·2	31·2	25·9	23·4	28·9	67	+6	4·8	+1·1	15·1	0	6	24	0	1	5	6	2	7	6	3	0	0
	1130	,,	1000·2	990·8	..	34·7	26·7	22·9	28·4	55	..	4·7	..	17·9	0	8	22	3	3	5	4	1	2	3	9	0	0
	1730	,,	996·6	987·2		34·5	26·5	22·7	28·1	55	..	5·0	..	15·6	0	6	23	1	4	9	6	1	3	1	4	1	0
	2330	,,	999·4	989·8	..	30·3	25·6	23·4	28·9	71	..	3·8	..	9·6	0	2	26	1	3	9	4	4	5	2	0	2	0
Varanasi	0830	76	999·7	991·5	+0.7	31·4	26·5	24.3	30·5	69	+8	4·6	+0·6	4·5	0	0	29	0	5	1	4	3	5	11	0	1	0
	1730	,,	996·1	987·7	..	34·3	26·7	23·0	28·8	57	..	5·2	..	3·7	0	0	28	1	11	3	3	1	2	4	3	2	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	998·9	924·8	..	25·3	21.8	20.0	26.7	74	..	3·4	..	1·0	0	0	9	2	2	1	2	1	0	1	0	21	0
	0830	,,	999·4	926·1	+0.3	28·7	23.2	20·3	24·3	64	+4	3·2	−0·2	1·6	0	0	16	2	1	1	3	6	0	2	1	14	0
	1130	,,	998·6	926·1	..	31·8	23.8	19·9	23.5	52	..	3·5	..	3·6	0	0	26	1	1	1	12	1	7	2	1	4	0
	1730	,,	994·8	922·7	..	32·9	24·1	19·9	23.5	50	..	3·1	..	2·3	0	0	21	1	3	2	2	3	5	3	2	9	0
	2330	,,	998·1	924·6	..	27·8	23·2	21·0	25·0	68	..	2·3	..	2·1	0	0	14	4	3	1	3	0	0	3	0	16	0
Roorkee	0830	274	1001·0	970·9	+1.8	30·6	24·4	21·2	25·5	60	+3	4·1	+1·2	2·4	0	0	24	0	0	0	13	0	0	0	11	6	0
	1730	,,	995·7	966 3	..	36·4	26·6	22·2	26.7	46	..	4·4	..	2·5	0	0	25	0	0	0	12	0		0	12	5	0
Najibabad	0830	270	1000·0	970·5	..	29·5	24·3	21·5	26·1	65	..	2·4	..	7·0	0	0	27	1	6	0	7	0	3	0	10	3	0
	1730	,,	995·9	966·9	..	35·9	25·9	20·8	25.2	46	..	2·2	..	7·7	0	0	27	0	4	1	7	0	8	0	7	3	0
Meerut	0830	222	999·7	975·3	+0·5	31·1	26·8	24·9	31·7	71	+15	1·8	−1.3	9·4	0	0	27	2	1	10	2	0	0	5	7	3	0
Bareilly	0830	173	999·6	980·5	+0·4	31·0	24·9	22·0	26·6	61	−3	3·2	−0.1	10·5	0	4	25	0	2	10	7	0	0	6	4	1	0
	1730	,,	995·1	976·3	..	35·1	26·0	21·5	26·1	49	..	3·6	..	4·0	0	0	25	1	0	10	1	1	0	11	1	5	0
Bareilly (P.B.O.)	0230	172	997·3	978·3	..	29·9	24·5	22.1	26·3	66	..	2·3	..	6·2	0	0	26	0	0	14	5	0	0	6	1	4	0
	0530	,,	998·1	979·0	..	28·7	23·7	21·8	25·2	70	..	3·8	..	7·2	0	0	26	0	2	14	4	0	0	6	0	4	0
	1130	,,	999·3	980·5	..	33·4	25·7	22·5	26·6	56	..	3.3	..	10.2	0	3	25	1	2	8	5	0	0	6	6	2	0
	2330	,,	997·6	978·7	..	30·9	25·0	22·4	27.6	63	..	2·0	..	6·4	0	1	23	0	1	12	4	0	0	5	2	6	0
Aligarh	0830	187	999·7	979·0	..	32·3	25·6	22·2	26·7	59	+3	2·7	+0·4	6·6	0	0	26	1	0	11	0	1	0	7	6	4	0
	1730	,,	995·3	975·1	..	37·5	27·0	22·6	27·4	45	..	3·2	..	4·2	0	0	23	2	0	8	0	6	0	2	5	7	0
Mainpuri	0830	157	999·6	982·3	+0·9	32·2	25·3	21·2	25·2	54	+1	1·9	−1·1	2·1	0	0	29	1	5	5	2	2	3	10	1	1	0
	1730	,,	995·7	978·5	..	37·5	26·2	20.3	23·8	42	..	1·8	..	2·9	0	0	28	0	6	7	1	1	3	9	1	2	0
Agra	0830	169	999·6	981·1	+0·8	32·8	25·2	21·7	25·9	55	+10	1·4	−1·2	1·2	0	0	12	0	2	0	1	0	3	2	4	18	0
	1730	,,	995·1	977·0	..	37·7	26·7	21·5	25·6	42	..	4·5	..	5·9	0	0	21	0	5	3	2	2	5	0	4	9	0
Agra (Aerodrome)	0530	169	998·1	979·2	..	29.4	23·4	20·1	23·8	60	..	3·4	..	8·4	0	1	23	2	0	2	4	3	2	8	3	6	0
	0830	,,	999·5	980·7	..	32·5	25·0	21·1	25·6	54	..	2.9	..	14·8	0	4	26	1	1	3	5	1	2	13	4	0	0
	1130	,,	999.3	980.7	..	36·7	26·1	21·1	25·2	45	..	3·5	..	17·7	0	8	22	2	3	3	4	1	1	10	6	0	0
	1730	,,	995·5	977.1	..	37.5	25·8	19.8	23.1	39	..	4·6	..	13·6	0	4	23	2	2	7	2	2	2	7	3	3	0
	2330	,,	997.7	978.9	..	32·0	24·4	20.0	24·3	53	..	3·5	..	9·7	0	3	22	2	1	6	3	3	2	8	0	5	0

(b) Mean of 29 days

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh West) —(contd.)																											
Orai	0830	141	1001.2	985·8	..	34·6	27·9	25·2	31·7	61	..	2·4	..	5·1	0	0	29	1	1	4	1	1	6	4	11	1	0
	1730	,,	...	...	..	37·7	27·9	26·3	35 2	57	..	2.4	..	6.1	0	0	30	0	4	2	3	2	11	4	4	0	0
Jhansi	0830	251	1000·1	972·6	+0·6	32·7	23 9	19·1	22·1	47	−3	3·0	+0·3	3·0	0	0	23	10	0	1	0	3	0	9	0	7	0
	1730	,,	996·0	969·1	..	36·9	24·6	17·9	20.9	37	..	4·7	..	3·0	0	0	25	9	1	2	0	3	3	6	1	5	0
Punjab (India) (Including Delhi)																											
Pathankot	0830	312	998·7	964·8	+0.8	31·7	23·2	18·3	21·4	48	+13	2·6	0	6·7	0	1	27	1	6	6	7	2	5	0	0	2	1
	1130	,,	998·1	964·6	..	35·4	24·0	17·5	20·5	39	..	2·1	..	6·7	0	1	27	1	2	4	3	6	6	3	3	2	0
	1730	,,	994·3	961·1	..	37·5	23·6	15·0	17·7	30	..	3·4	..	14·3	0	7	20	2	5	1	1	0	8	5	5	3	0
Amritsar (Rajasansi)	0530	234	997·5	971·5	..	26·7	22·9	20·8	24·6	71	..	1·9	..	5·3	0	2	15	0	1	6	3	2	2	3	0	13	0
	0830	,,	998·6	973·0	+1.0	31.6	24·6	21·1	25·0	55	+8	1·6	0	14·0	0	9	16	0	1	5	6	3	6	3	1	5	0
	1130	,,	998·2	973·0	..	36·0	25·8	20·8	24·6	42	..	1·4	..	14·0	0	7	20	0	1	4	6	3	6	4	3	3	0
	1730	,,	994·3	969·3	..	38·6	25·4	17·9	20·5	34	..	1·3	..	11·1	0	4	20	1	1	2	1	0	7	7	5	6	0
Adampur Aerodrome	(R) 0530	238																									
	(R) 0830	,,																									
	(R) 1130	,,																									
	(R) 1730	,,																									
	(R) 2330	,,																									
Ludhiana	0830	247	999·0	972·0	+0.7	32·5	24·6	20·6	24·3	52	+3	1·5	−0.4	7·4	0	1	26	0	2	2	9	2	1	9	2	3	0
	1730	,,	994·3	967·9	..	37·9	25·8	19·4	22·5	39	..	2·9	..	5·8	0	1	26	0	3	1	2	3	0	8	9	3	1
Ferozepore	0830	200	997·8	975·8	..	31·3	24·6	21·3	25·5	57	..	1·1	..	(b) 2·1	0	0	17	0	2	1	6	2	3	1	2	12	0
	1730	,,	994·4	972·9	..	38·4	25·6	19·3	22·4	37	..	0·9	..	1·7	0	0	15	0	1	0	2	1	4	2	5	15	0
Halwara (Aerodrome)	0830	240	999·3	972·9	..	32·3	26·7	23·9	30·2	63	..	1·5	..	2.3	0	15	15	0	2	2	10	3	2	8	3	0	0
	1730	,,	996·3	970·2	..	38·4	29·1	25·4	32·2	51	..	2 3	..	17·5	0	12	18	3	2	2	6	1	1	9	6	0	0
Chandigarh	0830	347	998·4	960·7	+1.2	31·8	24·0	19·7	23 4	52	+6	1·8	+0·4	2·4	0	0	22	0	0	1	8	0	0	0	13	8	0
	1730	,,	994·3	957·3	..	36·0	25·4	19·9	23·6	42	..	3.7	..	2·7	0	0	26	0	2	0	7	0	4	1	12	4	0
Ambala	0830	272	998·8	969·2	+0.5	32·3	24·4	20·3	24·1	51	+4	0·7	−1.5	(m) 4.0	0	0	23	0	6	0	8	0	1	0	8	7	0
	1730	,,	994·1	965·0	..	37·3	25·7	19·1	23·2	39	..	1·0	..	(m) 2.5	0	0	23	0	6	0	13	0	3	0	1	7	0
Ambala (P.B.O.)	0230	278	996·6	966·2	..	30·5	23·3	20·0	23·4	57	..	1·6	..	8·1	0	1	25	1	1	4	10	1	2	0	7	4	0
	0530	,,	997·4	966·8	..	29 4	22·7	19·6	23·4	58		2·5	..	8·9	0	1	22	0	1	5	7	1	2	5	2	7	0
	1130	,,	998·4	968·3	..	34·9	24·6	20·3	24·3	44	..	1·9	..	12.7	0	0	26	1	1	3	12	0	0	4	5	4	0
	2330	,,	996·6	966·4	..	32·3	23·9	20·2	24·3	53	..	1·4	..	7·3	0	0	24	0	0	2	8	2	1	9	1	6	1
Ambala (Aerodrome)	0530	274	997·5	967·2	..	28·6	22·8	19·4	22·9	61	..	2·8	..	13·7	0	6	19	0	0	12	3	0	0	7	3	5	0
	0830	,,	998·9	968·9	..	31·8	24·1	20·0	23·7	53	..	2·2	..	19·0	0	16	12	1	1	6	11	0	1	3	5	2	0
	1130	,,	998.2	968·6	..	34·9	24·9	19·5	23·2	44	..	2·1	..	22·0	0	21	8	1	1	6	10	1	0	5	5	1	0
	1730	,,	994·3	965·0	..	37·1	24·9	18·0	20·8	37	..	3·1	..	18.7	0	13	16	1	1	4	7	1	0	8	7	1	0
	2330	,,	996·6	966·7	..	31·4	23·8	19·5	23·2	53	..	1·9	..	10·6	0	5	16	0	0	8	3	0	1	5	4	9	0
Patiala	0830	251	998·9	971·8	..	32·2	24·6	19·8	24·7	50	..	2·1	..	12·8	0	0	26	0	0	1	17	0	0	0	8	4	0
	1730	,,	994·6	967·8	..	37·1	25·4	19·3	22·5	38	..	(d) 3·4	..	9·0	0	0	27	0	0	0	12	0	0	0	15	3	0
Bhatinda	0830	211	998·7	975·6	..	33·4	27·1	24·1	30·5	60	..	2·3	..	8·7	0	0	29	0	1	0	11	0	8	2	7	1	0
	1730	,,	993·9	971·6	..	38·2	27·8	23·4	28·8	46	..	1·6	..	6·3	0	0	28	1	5	3	3	1	5	3	7	2	0
Karnal	0830	249	993·9	971·5	..	31·7	24·5	20·9	24·9	55	..	1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	994·5	967·9	..	36·8	25·5	20·3	23·4	38	..	1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	997·8	973·4	..	29·0	24.2	21·3	26·3	65	..	1·7	..	7·3	0	0	27	0	2	5	1	1	11	7	0	3	0
	0830	,,	999·1	974·9	+1.0	32·3	25·6	22·4	27·3	57	+9	1·4	−0.1	10.0	0	1	27	0	0	2	5	3	9	9	0	2	0
	1130	,,	998·5	974·7	..	36·6	26·6	21·8	26·6	44	..	1·1	..	11·5	0	0	30	1	1	2	4	1	4	14	3	0	0
	1730	,,	994·9	971·3	..	37·8	25·9	20·2	23·7	38	..	2·8	..	9·5	0	0	30	0	1	4	4	2	4	12	3	0	0
	2330	,,	997·0	972·9	..	31·8	24·6	20·9	25·0	55	..	0·9	..	7·1	0	0	26	0	1	3	8	2	10	2	0	4	0
New Delhi (Safdarjang)	0230	216	997·1	973·4	..	31·1	24·2	20·4	24·0	57	..	1·6	..	9·1	0	2	23	0	0	6	4	1	3	10	1	5	0
	0530	,	997 7	973·9	..	29·7	23·7	20·5	24·1	60	..	(b) 2·6	..	11·0	0	5	21	0	0	6	5	0	0	10	5	4	0
	0830	,,	999·4	975·7	+0.5	31·9	24·5	20·7	24·4	55	+9	2·4	−0.1	20·1	0	13	17	1	2	2	6	2	1	10	6	0	0
	1130	,,	999·0	975·6	..	35·5	25·6	20·6	24·3	45	..	(b) 2·8	..	18·7	0	10	19	2	2	2	5	2	1	4	11	1	0
	1730	,,	995·0	971·8	..	37·4	25·3	18·9	21·8	37	..	(b) 3·3	..	15·3	0	6	21	2	2	6	3	0	2	3	9	3	0
	2330	,,	997·3	973·7	..	32·3	24 6	20·5	24·1	53	..	2·1	..	9·5	0	1	22	1	0	4	8	1	1	6	2	7	0
Palam (Aerodrome)	0230	233	997·2	971·6	..	30·4	24·2	20·4	25·2	57	..	1·4	..	12·6	0	3	27	0	2	8	3	4	10	2	1	0	0
	0530	,,	997·9	972·2	..	29·2	24·0	21·3	25·6	64	..	2·5	..	13·5	0	4	26	0	0	12	1	1	8	7	1	0	0
	0830	,,	999·4	974·0	..	32·4	24·9	20·3	24.9	54	..	2·1	..	...	0	16	14	0	0	8	2	2	2	15	1	0	0
	1130	,,	998·8	973·8	..	36·4	26·0	21·6	25·0	44	..	2.2	..	...	0	17	13	0	0	5	3	4	1	12	5	0	0
	1430	,,	996.6	971.7	..	38·4	26.3	20.4	24.0	37	..	(e) 3.5	..	...	0	14	16	2	2	5	3	1	1	13	3	0	0

(d) Mean of 27 days. (R) Register not received. (b) Mean of 29 days. (m) Mean of 18 days. (e) Mean of 26 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JUNE, 1961 (JYAISTHA 11,—ASADHA 9, 1883 SAKA)

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—Contd.																											
Palam (Aerodrome) —*Contd.*	1730	233	995·0	970·1	..	37·9	25·9	19·7	23·4	38	..	3·3	..	..	0	11	19	1	5	7	2	0	1	8	6	0	0
	2030	,,	996·1	970·8	..	34·4	25·0	20·4	24·0	46	..	(b) 2·4	..	..	0	5	25	2	5	9	2	2	4	5	1	0	0
	2330	,,	997·3	971·9	..	31·9	24·4	20·6	24·6	53	..	2·0	..	..	0	5	25	1	0	9	5	2	10	2	1	0	0
Himachal Pradesh:																											
Mandi . . .	0830	761	1000·2	917·9	+0·4	25.2	21·6	20·0	23·4	74	+17	3·9	+1.7	0·3	0	0	4	0	1	0	1	0	1	1	0	26	0
	1730	,,	995·1	914·8	..	30·6	23·5	20·2	23·7	57	..	(b) 5·4	..	1·0	0	0	10	2	1	0	3	1	1	1	1	20	0
Bilaspur . . .	0830	493	999·7	946·3	..	29·9	23·6	20·6	24·6	60	..	2·6	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	995·4	943·0	..	33·8	24·2	19·5	23·1	46	..	4·4	..	..	0	0	15	3	1	0	0	3	3	1	3	15	1
Jammu and Kashmir																											
Misgar (R) . .	0830																										
(R) . .	1730																										
Gilgit (R) . .	0830																										
(R) . .	1730																										
Skardu (R) . .	0830																										
(R) . .	1730																										
Leh	0530	3514	3082·0	664·3	..	9·4	3·5	−4·4	4·3	38	..	2·6	..	6·8	0	0	25	3	19	0	2	0	1	0	0	5	0
	0830	,,	3078·8	665·5	0	15·3	6·9	−2·7	5·1	31	−11	3·0	−0·1	0·3	0	0	21	0	0	0	3	10	5	3	0	9	0
	1730	,,	3029·8	662·4	..	20·8	9·9	−1·4	5·9	27	..	2·9	..	10·2	0	0	30	0	4	0	0	5	8	8	5	0	0
Srinagar . . .	0830	1587	1459·9	837·8	+1·6	19·9	15·8	13·9	15·3	69	−6	3·0	+0·8	2·0	0	0	18	0	2	1	6	3	1	3	2	12	0
	1130	,,	1456·0	837·5	..	23·8	17·5	14·1	15·9	56	..	3·7	..	2·5	0	0	21	1	1	0	6	2	4	4	2	9	1
	1730	,,	1426·4	834·9	..	25·6	17·9	13·3	15·3	48	..	4·2	..	3·4	0	0	17	1	4	0	6	1	2	1	2	13	0
Srinagar (Aerodrome) .	0530	1666	1444·7	828·8	..	15·6	13·4	11·5	13·7	76	..	3·3	..	6·0	0	0	26	0	0	1	2	12	4	4	3	4	0
	0830	,,	1452·9	829·9	..	19·8	15.7	13·1	15·3	67	..	3·1	..	6·7	0	0	27	2	6	6	4	1	0	3	5	3	0
	1130	,,	1449·5	829·8	..	23·2	16·8	12·9	15·3	54	..	3·7	..	7·3	0	1	26	5	2	7	6	2	0	2	3	3	0
	1730	,,	1420·6	827·2	..	25·3	16·7	11·0	13·7	44	..	4·3	..	10·5	0	5	22	4	3	6	6	3	1	2	2	3	0
	2330	,,	1440·7	828·7	..	19·0	15·3	13·0	14·8	70	..	3·4	..	4·2	0	1	13	0	1	1	1	2	3	3	3	16	0
Gulmarg . . .	0830	2655	3101·5	738·2	+0·9	14.9	11·0	7·7	11·0	65	−3	3·6	+0·9	3·5	0	0	18	2	4	6	3	0	1	2	0	12	0
	1730	,,	3091·0	737·0	..	17·2	12·5	8·7	11·7	61	..	5·0	..	6·3	0	0	24	1	6	6	1	0	3	7	0	6	0
Jammu . . .	0830	,,	..	..	..	33·4	24·2	19·1	22·7	43	−1	2·2	..	5.7	0	0	26	4	5	2	10	3	1	1	0	4	0
Jammu (Aerodrome)	0530	292	997·1	964·8	..	29·1	21·4	16·0	18·2	49	..	2·5	..	7·4	0	2	15	1	7	0	3	1	1	1	3	13	0
	0830	,,	998·1	966·3	..	32·5	23·0	17·3	19·7	44	..	2·1	..	11·6	0	3	25	2	9	3	9	2	2	0	1	2	0
	1130	,,	997·7	966·2	..	35·9	23·9	16·9	19·3	36	..	2·3	..	13·8	0	5	23	2	2	2	6	7	3	5	1	2	0
	1730	,,	994·1	963·0	..	37·9	23·6	14·7	16·7	29	..	(d) 2·6	..	16·2	0	7	22	4	2	0	1	2	1	12	7	1	0
	2330	,,	996·3	964·4	..	31·9	22·4	16·4	18·6	42	..	(b) 1·8	..	8·1	0	2	13	1	5	0	1	1	0	3	4	15	0
Rajasthan (West)																											
Ganganagar . .	0530	177	997·2	977·6	..	29·0	22·8	19·1	22·7	58	..	1·8	..	4·5	0	0	28	1	9	2	4	2	5	3	2	2	0
	0830	,,	998·0	978·8	+0·8	31·9	24·0	20·1	23·4	52	+6	1·0	+0·3	7·8	0	0	27	0	3	2	1	1	17	2	1	3	0
	1130	,,	998·1	979·0	..	36·7	25·0	18·5	22·1	38	..	1·4	..	10·3	0	2	26	0	6	3	2	0	10	4	3	2	0
	1730	,,	994·2	975·3	..	40·6	24·4	15·0	17·3	31	..	1·8	..	5·9	0	0	28	2	2	2	2	1	16		2	2	0
	2330	,,	996·8	977·4	..	31·7	23·7	19·2	22·8	51	..	1·6	..	5·3	0	3	15	2	5	2	2	2	3	1	1	12	0
Churu . . .	0830	291	999·7	967·8	..	32·0	25·5	22·2	27·3	59	..	1·0	..	22·2	0	17	12	1	0	3	1	3	3	18	0	1	0
	1730	,,	995·1	964·1	..	38·7	26·9	20·8	25·6	41	..	2·4	..	15·5	0	5	25	3	1	3	1	3	2	17	0	0	0
Bikaner . . .	0830	224	999·5	974·8	+0·8	30·9	23·7	19·2	22·2	53	+2	0·6	−0·7	11·7	0	0	30	0	0	0	5	2	13	8	2	0	0
	1730	,,	994·7	970·8	..	39·4	24·1	14·4	16·4	27	..	0·6	..	8·8	0	0	30	1	2	1	4	1	14	4	3	0	0
Bikaner (P. B. O.) .	0530	224	998·0	973·3	..	29·3	24·8	22·6	27·7	69	..	1·7	..	5·6	0	0	26	0	0	1	1	6	18	0	0	4	0
	1130	,,	999·0	974·7	..	35·7	26·9	23·0	28·3	50	..	1·8	..	10·7	0	1	27	0	0	3	1	5	14	3	2	2	0
	2330	,,	997·4	973·0	..	33·4	26·0	22·5	27·6	56	..	2·0	..	7·9	0	1	27	1	1	2	2	8	13	1	0	2	0
Nagaur . . .	0830	298	998·9	966·3	..	30·6	25·3	23·0	27·9	66	..	1·6	..	18·9	0	10	20	2	0	0	3	7	16	2	0	0	0
	1730	,,	994·2	962·4	..	37·5	26·7	21·4	25·6	42	..	2·3	..	12·8	0	3	27	0	0	1	4	9	12	2	2	0	0
Phalodi . . .	0830	234	1000·7	974·7	..	29·1	25·7	24·1	30·0	77	..	2·2	..	29·0	0	19	11	0	1	2	2	6	16	2	1	0	0
	1730	,,	996·5	971·4	..	37·1	27·4	22·6	28·6	47	..	2·6	..	22·6	0	15	15	1	1	2	2	6	13	5	0	0	0
Jaisalmer . . .	0830	242	999·1	972·4	..	28·5	24·4	22·4	27·3	72	..	2·3	..	25·6	0	19	10	1	1	1	0	14	11	0	1	1	0
	1730	,,	995·4	969·0	..	37·3	25·3	18·9	22·1	39	..	1·8	..	21·2	0	15	15	3	1	0	1	13	10	1	1	0	0
Jodhpur . . .	0230	224	998·7	973·9	..	30·2	23·8	20·5	24·1	58	..	2·1	..	14·8	0	9	19	0	0	0	5	3	14	5	1	2	0
	0530	,,	999·2	974·3	..	28·3	23·9	21·6	25·8	69	..	2·7	..	16·1	0	9	19	1	1	0	2	4	15	5	0	2	0
	0830	,,	1000·7	975·9	+1·8	29·6	24·7	22·3	26·9	66	+6	3·6	+0·8	20·2	0	11	19	0	2	0	2	5	18	3	0	0	0
	1130	,,	1000·2	975·7	..	34·1	24·8	20·1	23·5	46	..	3·3	..	19·3	0	12	18	1	1	1	2	3	19	3	0	0	0
	1730	,,	996·0	971·9	..	36·7	24·7	18·0	20·6	37	..	(b) 2·7	..	21·2	0	13	16	1	0	2	2	1	19	4	0	1	0
	2330	,,	998·5	4·0	..	32·4	23·9	19·3	22·4	50	..	2·5	..	14·0	0	5	24	0	2	0	3	3	17	4	0	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (west) —*Contd.*																											
Barmer	0530	194	998·6	976·9	..	27·3	24·4	23.0	28·1	76	..	2·9	..	8.2	0	1	24	1	0	0	1	2	19	1	1	5	0
	0830	,,	999.8	978·3	−0.2	28·5	24·9	23·2	28·4	74	+4	3·9	+0.9	9·7	0	0	29	0	1	1	2	6	13	4	2	1	0
	1130	,,	999·3	9[illegible]8·1	..	33·0	25·0	21·1	25·2	53	..	2·9	..	10·4	0	1	27	0	1	0	3	2	20	1	1	2	0
	1730	,,	995·5	974·5	..	36·6	24·9	18·6	21·8	40	..	3·1	..	12·3	0	3	24	0	1	0	2	8	12	2	2	3	0
	2330	,,	998·0	976·6	..	31.3	24.4	20·9	24.9	58	..	3·2	..	11·0	0	2	28	1	2	0	0	10	11	5	1	0	0
Munabao (R)	0830	80																									
(R)	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	999·5	966·8	..	32·6	23·6	18·6	21·4	46	..	0·6	..	23.4	0	14	16	0	2	3	1	2	3	18	1	0	0
	1730	,,	995·3	963·3	..	38·8	24·1	15·0	17·0	28	..	1·6	..	18·5	0	8	22	3	1	3	0	2	4	16	1	0	0
Sikar	0830	433	1000·3	953·3	..	30·9	26·4	24 4	30·7	68	..	1·7	..	3·9	0	0	29	1	0	1	1	4	4	15	3	1	0
	1730	,,	995·5	949·5	..	36·9	27·7	23·9	29·3	49	..	3·0	..	3·5	0	0	28	0	2	0	3	3	5	14	1	2	0
Alwar	0830	271	998·1	968·5	..	32·6	26·3	23·7	29·3	61	..	1·9	..	4·6	0	0	24	0	1	2	4	2	2	10	3	6	0
	1730	,,	994·8	965.9	..	27·7	26·9	21·7	25·9	43	..	(d) 4·3	..	4·6	0	0	25	3	4	2	2	4	4	4	1	5	0
Jaipur (Sanganer)	0230	390	997·8	995·3	..	29·9	23·0	18·9	21·8	55	..	2.0	..	..	0	1	26	0	0	2	0	2	3	15	5	3	0
	0530	,,	998·5	955·8	..	23·4	22·8	19.6	22·8	61	..	3·0	..	..	0	0	27	0	0	3	0	3	1	11	9	3	0
	0830	,,	999·7	957·3	−0·1	31·4	24·1	20·1	23·5	53	+4	(d) 2·5	..	..	0	15	15	0	0	2	3	1	2	15	7	0	0
	1130	,,	998·9	957·0	..	34·8	24·9	19.1	22.1	43	..	2·0	..	..	0	6	24	1	0	2	2	2	3	9	11	0	0
	1730	,,	994·9	953·4	..	36·9	24·9	18·6	21·4	36	..	(b) 3·3	..	..	0	6	24	0	1	2	3	1	7	13	3	0	0
	2330	,,	997·8	955·7	..	31·8	23·7	19.2	22·2	50	..	1.8	..	..	0	4	25	1	1	3	2	3	2	10	7	1	0
Dholpur	0830	176	999·1	978·8	..	33·2	25·1	20.8	25.2	51	..	(b) 3·4	..	11·0	0	5	23	0	1	1	3	0	5	12	6	2	0
	1730	,,	994·6	975·8	..	38·2	25·9	19·5	23.1	37	..	5·9	..	7·2	0	2	24	2	2	4	3	0	3	8	4	4	0
Ajmer	0830	486	1000·3	947·6	0	28·8	23.2	20.5	23·8	62	+6	3.1	+0.9	16·4	0	8	22	0	0	1	3	3	12	11	0	0	0
	1730	,,	995·1	943·7	..	35·6	23·6	17·3	20·2	38	..	3·5	..	10·7	0	3	26	0	2	1	1	1	13	10	1	1	0
Tonk	0830	272	999·0	969·3	..	32·2	24.4	20.5	24.1	53	..	2·5	..	11·9	0	4	24	0	0	0	3	1	8	11	5	2	0
	1730	,,	994·0	964·9	..	38·2	25·3	18·7	21·7	34	..	4·1	..	13.3	0	3	27	0	4	1	0	0	13	11	1	0	0
Kota	0530	257	999·1	970·8	..	29·7	23·6	20.3	23·8	59	..	3·6	..	10·8	0	4	25	0	0	0	3	0	15	8	3	1	0
	0830	,,	1000·5	972·5	+0·7	32·7	24·6	20.4	24.4	50	+3	2·2	−0.4	7·9	0	0	29	0	0	0	2	0	6	15	6	1	0
	1130	,,	999·9	972·2	..	36.6	25·3	19.4	22·5	37	..	3·2	..	9·2	0	3	26	1	0	0	2	0	7	11	8	1	0
	1730	,,	996·2	968·7	..	37·6	25·3	19.1	22.1	37	..	4·8	..	5·2	0	0	28	0	2	0	3	0	6	13	4	2	0
	2330	,,	998·7	970·7	..	33·1	23·5	18·2	20·9	43	..	2·4	..	10·2	0	0	29	0	1	0	2	0	14	8	4	1	0
Erinpura (Jawai Dam)	0830	295	1001·5	968·9	..	28·1	24·6	23·0	28·1	74	..	5·3	..	11.5	0	2	28	1	0	0	9	12	6	2	0	0	0
	1730	,,	996·7	964.9	..	34·5	26·0	21·9	26·7	52	..	4·6	..	8·4	0	0	27	0	0	0	3	9	13	2	0	3	0
Chambal (Rawat Bhatta Dam)	0830	351	1001·2	962·9	..	30·2	24·0	20 9	24·7	58	..	3·0	..	10·1	0	0	29	0	0	0	0	3	10	13	3	1	0
	1730	,,	996·2	958·8	..	36·5	23·9	16·4	19.1	33	..	4·3	..	9·0	0	0	30	0	1	0	3	3	12	6	5	0	0
Udaipur	0230	532	1000·3	937·0	..	26.6	22·6	20·4	24.1	70	..	3·4	..	8·6	0	1	20	0	1	0	0	6	12	1	1	9	0
	0530	,,	1000·6	937·1	..	25·7	22·4	20·7	24·4	74	..	4·8	..	6·0	0	1	19	0	0	0	0	7	12	1	0	10	0
	0830	,,	1001·5	938·3	−0·1	27·7	22·9	20·5	24·0	66	+3	5·1	+2.7	7.3	0	0	28	1	0	1	2	7	12	4	1	2	0
	1130	,,	1000·6	938·3	..	31·5	23·6	20·0	22·7	52	..	4·7	..	9·2	0	1	26	0	1	0	3	10	8	3	2	3	0
	1730	,,	997·1	935·2	..	32·9	23·6	18·9	21·6	46	..	4·8	..	9·5	0	0	29	0	2	1	2	4	15	2	3	1	0
	2330	,,	1000·4	937·5	..	28·6	22·9	20·3	23.1	63	..	3·1	..	7·7	0	0	21	0	0	0	1	6	12	0	2	9	0
Jhalawar	0830	321	1001·1	965·9	+0·7	30·2	24·1	20·9	25·0	58	−5	2·7	−0.4	5.3	0	0	30	0	0	0	1	1	12	15	1		0
	1730	,,	996·1	962·0	..	37·3	24·1	16·2	18·9	30	..	3.8	..	6.0	0	0	30		0	1	0	4	7	17	1	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	997·2	974·6	..	32·1	23·8	19.1	22·6	50	..	3·6	..	14·1	0	8	21	1	0	3	2	2	11	8	2	1	0
	0530	,,	997·9	975·2	..	31·0	23·4	19.0	22·9	53	..	3·7	..	12·1	0	7	18	2	0	2	0	0	8	12	1	5	0
	0830	,,	999·3	976·8	+0·8	33·8	24·4	19.3	22·8	45	+2	2·9	+0.4	17·6	0	14	15	2	0	0	2	2	6	13	4	1	0
	1130	,,	998·9	976·6	..	37·1	25·4	19·3	23·0	38	..	3·9	..	16·7	0	9	21	2	0	1	0	1	4	13	9	0	0
	1730	,,	995·1	973·0	..	37·6	25·4	18·7	22.4	37	..	5·1	..	17·0	0	9	19	3	0	3	1	2	5	11	3	2	0
	2330	,,	997 7	975·2	..	33·2	24·6	19·9	23·8	49	..	4·0	..	10·7	0	3	25	1	2	3	1	4	9	7	1	2	0
Sheopur	0830	235	1000 5	974·8	+1.2	32·6	25·1	21·4	25.6	55	+3	2·8	−1·0	15·6	0	5	24	0	0	0	2	7	7	8	2	1	3
	1730	,,	995·4	970·0	..	38·0	25·3	18.4	21.3	34	..	4.7	..	15·6	0	5	25	1	3	1	2	4	6	8	4	0	1
Shivpuri	0830	464	1000·0	949·9	..	30·5	24·6	22.0	26·6	62	..	2.9	..	7·9	0	0	30	1	0	0	1	2	6	18	2	0	0
	1730	,,	995·7	946·3	..	35·0	24·2	19·0	22·2	43	..	4.5	..	5·6	0	0	30	5	1	1	0	3	4	10	6	0	0
Nowgong	0830	229	1000·2	975·2	+0·8	31·8	24·5	20.8	24·8	54	0	4.0	0	8·8	0	0	30	1	1	2	0	4	12	8	1	0	1
	1730	,,	995.8	971·2	..	36·6	25·1	19·1	22·5	39	..	5·3	..	6·9	0	0	28	1	2	1	0	2	14	3	5	2	0
Guna	0530	478	1000·0	947·6	..	26·8	22.6	21·0	24·3	70	..	3·8	..	18.7	0	13	16	0	0	0	2	1	6	19	1	1	0
	0830	,,	1001·2	949·2	0 ·8	29·6	24·3	22·0	26·6	65	+9	3·9	+1·3	14.8	0	8	22	1	0	0	1	4	2	21	1	0	0

(R) Register not received.

(d) Mean of 27 days.

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms. per hour	Wind speed (Km.ph.): 62 or more	Wind speed (Km.ph.): 20 to 61	Wind speed (Km.ph.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—*Contd.*																											
Guna—*Contd.*	1130	478	1000·0	948·8	..	34·1	25·1	21·2	25·3	48	..	4·0	..	17·8	0	14	16	9	0	0	1	4	3	15	7	0	0
	1730	,,	996·1	945·2	..	34·9	24·3	19·2	22·7	43	..	5·4	..	22·1	0	8	22	0	3	1	2	2	7	10	5	0	0
	2330	,,	999·4	947·5	..	29·6	23·2	20·0	23·7	58	..	2·6	..	8·7	0	2	23	0	0	1	2	5	7	9	1	5	0
Nimach	0830	496	1002·4	948·1	+0·8	27·4	22·9	20·8	24·7	68	+1	5·6	+2·3	24·0	0	20	10	0	0	2	0	1	8	19	0	0	0
	1730	,,	997·5	944·5	..	33·3	23·1	17·4	20·8	42	..	5·1	..	20·5	0	18	12	1	2	0	0	1	12	13	1	0	0
Rajgarh	0830	382	1001·3	959·5	..	29·5	23·0	19·2	22·7	57	..	3·1	..	6·2	0	0	27	5	0	0	0	0	1	21	0	3	0
	1730	,,	996·2	955·4	..	35·7	24·7	18·7	22·1	40	..	5·2	..	6·8	0	0	28	4	0	0	0	0	1	23	0	2	0
Sagar	0830	551	1001·1	941·3	+1·1	28·2	22·9	20·4	23·5	64	+6	3·4	−0·4	13·5	0	4	25	0	0	0	1	0	5	13	10	1	0
	1730	,,	996·3	937·5	..	32·5	23·5	19·1	21·6	49	..	5·4	..	5·6	0	0	23	0	1	1	1	0	3	10	7	7	0
Raisen	0830	486	1002·6	949·2	+0·6	26·4	23·6	22·5	27·1	79	−1	6·0	+0·5	10·2	0	0	29	0	0	0	1	3	10	14	1	1	0
	1730	,,	997·9	945·6	..	33·9	24·7	20·6	24·4	47	..	5·3	..	12·0	0	1	28	0	0	0	0	2	17	10	0	1	0
Bhopal (Batragarh)	0233	523	1000·0	942·9	..	27·1	21·5	18·5	21·6	62	..	3·4	..	16·3	0	10	19	0	0	0	1	1	7	15	5	1	0
	0530	,,	1001·2	943·8	..	25·9	21·5	19·2	22·5	67	..	4·7	..	16·5	0	13	14	1	0	0	0	2	3	15	6	3	0
	0830	,,	1002·2	945·3	+1·0	28·3	22·7	20·1	23·5	63	0	4·2	+0·1	22·9	0	21	8	0	0	0	0	2	1	10	16	1	0
	1130	,,	1001·0	944·8	..	32·9	23·5	18·9	22·1	45	..	4·3	..	20·1	0	17	13	4	0	1	0	2	2	14	7	0	0
	1730	,,	997·1	941·1	..	33·1	22·8	17·4	20·1	42	..	5·7	..	20·1	0	15	15	1	0	3	1	1	6	11	7	0	0
	2330	,,	1000·7	943·7	..	28·1	21·8	18·2	21·3	56	..	3·5	..	12·5	0	4	23	1	0	0	2	4	5	13	2	3	0
Ujjain	0830	,,	..	..	..	27·7	23·4	21·4	25·6	67	..	2·8	..	29·1 (c)	0	22	8	8	0	1	1	2	2	16	0	0	0
Hoshangabad	0830	302	1000·5	967·0	−1·4	23·2	24·1	21·4	26·6	71	+8	4·3	−0·1	6·1	0	0	28	0	1	1	1	1	13	3	8	0	0
	1730	,,	996·4	963·7	..	34·6	25·8	21·6	25·9	51	..	4·4	..	7·9	0	1	29	2	4	1	3	0	8	7	5	0	0
Indore	0530	567	1002·3	939·8	..	24·1	21·7	20·6	24·1	81	..	3·6	..	20·7	0	18	11	1	0	0	0	3	19	6	0	1	0
	0830	,,	1002·8	940·9	+0·6	26·6	22·8	21·0	25·0	72	−3	3·8	−0·8	31·3	0	24	6	0	0	0	1	2	10	16	1	0	0
	1130	,,	1001·7	940·6	..	30·8	23·4	19·9	23·4	55	..	3·9	..	28·0	0	20	10	0	0	0	1	2	9	13	2	0	3
	1730	,,	997·4	936·9	..	32·9	23·2	18·3	21·1	44	..	4·1	..	25·5	0	22	8	0	0	0	0	3	13	11	2	0	1
	2330	,,	1001·7	939·8	..	26·7	22·3	20·1	23·7	69	..	2·9	..	19·8	0	16	13	0	0	0	1	5	19	3	1	1	0
Rajpur (Jhabua)	0830	293	1003·8	971·3	..	27·4	24·5	23·2	28·4	78	..	5·6	..	14·3	0	9	21	0	0	1	1	2	5	19	2	0	0
	1730	,,	999·0	967·3	..	33·3	24·9	20·8	24·6	56	..	4·5	..	17·3	0	13	17	1	0	0	0	2	8	15	4	0	0
Chhindwara	0830	685	1002·1	928·1	+1·1	27·2	22·6	20·5	24·0	69	+4	5·7	+1·3	12·2	0	3	25	2	1	0	0	2	2	8	13	2	0
	1730	,,	997·9	924·7	..	29·9	23·3	20·1	23·8	58	..	6·4	..	9·0	0	0	29	1	2	3	0	1	6	8	8	1	0
Seoni	0830	619	1001·8	934·6	+0·9	26·9	23·2	21·5	25·8	74	+14	6·1	+1·8	4·5	0	0	26	2	0	0	1	2	10	6	5	4	0
	1730	,,	997·9	931·6	..	30·2	24·1	21·2	25·5	61	..	6·4	..	4·1	0	0	27	1	1	0	5	1	7	3	9	3	0
Betul	0830	653	1003·3	932·2	+1·2	26·5	22·3	20·2	23·7	70	0	5·2	−0·2	1·0	0	2	28	1	0	0	1	2	2	17	7	0	0
	1730	,,	998·0	928·3	..	31·1	22·7	18·5	21·4	50	..	6·2	..	9·8	0	0	30	2	3	1	4	0	4	13	3	0	0
Khandwa	0830	318	1003·4	968·2	+1·0	28·3	23·8	21·6	25·6	67	+2	5·3	+1·1	7.1	0	0	30	0	0	0	1	2	8	16	3	0	0
	1730	,,	998·1	963·8	..	34·0	24·3	19·1	22·4	44	..	6·4	..	7·0	0	0	30	0	0	0	2	6	12	7	3	0	0
Madhya Pradesh (East)																											
Satna	0530	317	998·9	964·0	..	28·4	23·0	20·0	23·7	63	..	4·5	..	5·0	0	1	26	0	1	2	0	2	13	7	2	3	0
	0830	,,	999·8	965·2	+0·7	31·6	23·7	19·4	22·8	51	−1	4·3	+0·3	5·5	0	0	27	0	0	1	2	1	6	15	2	3	0
	1130	,,	999·0	964·9	..	35·5	24·5	18·4	21·3	40	..	5·2	..	9·9	0	1	29	1	1	1	1	3	2	11	10	0	0
	1730	,,	995·6	961·5	..	35·0	21·2	18·1	21·3	41	..	6·1	..	8·6	0	0	29	4	2	3	1	2	3	5	9	1	0
	2330	,,	998·7	964·1	..	30·3	23·5	19·8	23·4	57	..	3·3	..	5·0	0	0	25	0	0	2	1	4	8	5	5	5	0
Sidhi	0830	272	999·2	969·5	..	31·3	24·2	20·3	24·4	55	..	3·4	..	3·2	0	0	22	0	0	0	0	2	7	10	3	8	0
	1730	,,	995·4	965·7	..	34·1	24·5	19·2	22·9	46	..	5·1	..	2·8	0	0	23	3	4	3	3	2	3	1	4	7	0
Umaria	0830	459	1000·5	950·8	..	29·5	23·7	20·9	24·7	62	+4	5·4	+0·3	8·2	0	0	29	0	1	0	2	1	11	13	1	1	0
	1730	,,	996·2	947·1	..	32·9	24·8	21·2	25·3	52	..	6·3	..	7·5	0	0	30	0	4	4	3	2	3	10	4	0	0
Jabalpur	0530	393	1000·2	957·0	..	26·6	22·9	20·8	25·3	72	..	5·4	..	4·3	0	0	26	0	1	0	4	6	7	8	0	4	0
	0830	,,	1001·3	958·5	+1·2	29·8	23·8	20·6	24·6	60	+5	5·1	+1·2	6·9	0	0	29	0	0	0	2	4	12	9	2	1	0
	1130	,,	1000·3	958·0	..	33·6	24·8	20·3	24·6	49	..	5·2	..	8·1	0	0	30	0	3	1	3	0	6	13	4	0	0
	1730	,,	996·4	954·3	..	33·5	24·5	19·5	23·2	47	..	6·7	..	7·9	0	0	30	1	0	2	2	2	11	8	4	0	0
	2330	,,	1000·0	957·0	..	28·7	23·7	21·0	25·2	65	..	5·5	..	6·1	0	0	27	0	2	0	2	9	9	4	1	3	0
Ambikapur	0830	611	1001·0	934·7	+1·0	27·1	23·2	21·3	25·5	74	+13	6·1	+2·5	4·3	0	0	26	5	1	0	0	2	8	9	1	4	0
	1730	,,	997·5	931·8	..	28·8	23·7	21·3	25·6	69	..	5·4	..	4·6	0	0	30	7	1	0	0	1	10	5	6	0	0
Pendra	0530	625	1000·1	931·9	..	24·7	21·4	19·6	22·9	77	..	6·6	..	6·3	0	0	30	2	1	1	0	6	8	8	4	0	0
	0830	,,	1001·1	933·3	+0·7	26·8	22·5	20·3	24·1	71	+9	6·3	+2.0	7·4	0	1	27	6	1	0	1	4	6	5	5	2	0
	1130	,,	1000·3	933·2	..	29·7	23·4	20·1	24·1	61	..	6·5	..	9·7	0	2	28	8	3	1	0	4	3	7	4	0	0
	1730	,,	997·3	930·3	..	29·2	23·2	20·0	24·0	63	..	7·4	..	7·0	0	0	29	4	1	0	0	4	9	10	1	1	0
	2330	,,	1000·5	932·5	..	25·6	22·2	20·5	24·3	76	..	6·6	..	6·8	0	1	29	0	0	0	1	9	11	7	2	0	0

(c) Mean of 28 days.

Division and station	Hour of observation I. S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Mandla	0830	443	1001·8	953·3	+1.3	28·3	23.8	21·4	25.6	69	+5	4·7	+0.2	2·3	0	1	8	4	0	0	0	4	0	1	0	21	0
	1730	"	997·2	949·5	..	31·5	24.1	20·2	24·0	54	..	6·0	..	9·5	0	2	26	4	0	2	4	4	5	6	3	2	0
Champa	0830	245	1001·8	974·7	+1.5	28·1	24.7	22·8	28·3	76	+14	6·4	+1.0	10·6	0	3	26	1	0	2	1	0	6	14	5	1	0
	1730	"	998·0	971·2	..	31·7	25·4	22·3	27·4	63	..	7·3	..	10·9	0	4	23	1	0	2	0	3	6	11	4	3	0
Raigarh	0830	220	1001·4	977·0	+1·2	28·6	24·8	23·0	28·3	74	+13	6·3	+0.8	5·8	0	0	28	0	2	0	4	0	9	11	2	2	0
	1730	"	997·4	973·4	..	31·1	25·4	22·6	27·7	66	..	6·6	..	4·1	0	0	24	1	4	0	2	0	13	1	3	6	0
Raipur	0530	298	1001·0	967·9	..	26·2	24.2	23·2	28·6	85	..	6.8	..	7·0	0	0	26	0	1	2	1	1	10	11	0	4	0
	0830	"	1002·4	969·5	+1.6	28·3	25·0	23·5	28·9	77	+16	5.9	+0.9	8·2	0	0	29	0	0	2	0	2	13	10	2	1	0
	1130	"	1001·6	969·0	..	31·4	25·8	23·3	28·6	66	..	6·6	..	9.6	0	1	27	1	1	0	1	3	2	13	7	2	0
	1730	"	998·2	965.8	..	31·9	26.1	23.6	29·1	65	..	7·0	..	8·5	0	1	23	2	2	0	1	1	6	10	2	6	0
	2330	"	1001·2	968·2	..	27·5	24.8	23.5	28·9	80	..	6·0	..	9·9	0	0	29	0	0	1	3	7	13	4	1	1	0
Kanker	0830	402	1002·7	958·5	+1.1	27·8	24·3	22·5	27.4	74	+11	5·8	—0.2	3.3	0	0	22	0	0	0	2	0	17	1	2	8	0
	1730	"	998·7	955·2	..	31·1	25·5	22·9	28.1	64	..	6·0	..	3.2	0	0	23	0	2	0	1	0	12	5	3	7	0
Jagdalpur	0530	553	1002·5	941·6	..	23·7	22·1	21·3	25·5	87	..	6·5	..	3.6	0	1	12	0	0	1	1	2	5	3	1	17	0
	0830	"	1003·3	943·0	+1·1	26·2	23.0	21·6	25·8	77	+6	6.2	+1.2	3.7	0	0	22	1	0	0	1	0	10	7	3	8	0
	1130	"	1002·3	942·5	..	29·2	23.9	21·5	25·6	67	..	6·5	..	6·9	0	0	28	2	0	1	1	1	4	14	5	2	0
	1730	"	999·8	940·0	..	27.9	23·6	21.7	25·9	71	..	7·4	..	4·9	0	0	23	0	0	1	1	3	10	6	2	7	0
	2330	"	1002·8	942·2	..	24·8	22·8	21.9	26·3	85	..	6·2	..	4.7	0	0	21	1	0	1	1	7	11	0	0	9	0
Gujarat Region																											
Deesa	0830	136	1002·1	986·8	0	28·4	24·9	23·3	28·6	75	..	5·0	..	6·7	0	1	25	0	1	0	5	10	6	3	1	4	0
	1730	"	997·0	982·2	..	35·1	25·4	20·3	23·8	45	..	3.4	..	8·9	0	4	26	1	0	1	5	7	7	7	2	0	0
Radhanpur	0830	30	1001·7	998.4	..	29·0	26·3	25.3	32·2	81	..	4·9	..	11.8	0	2	26	0	0	0	4	6	14	3	1	2	0
	1730	"	997.8	994·5	..	35·6	26·8	22.6	27·4	50	..	3·6	..	14.7	0	6	22	0	0	1	2	5	13	6	1	2	0
Idar	0830	219	1002·6	978·3	..	28·1	24·4	22·6	27·4	73	..	6.0	..	7.0	0	0	30	1	1	0	5	1	16	6	0	0	0
	1730	"	997·6	973·9	..	34·7	24·3	18·5	21·3	42	..	5·8	..	9·4	0	0	30	1	0	0	6	1	18	3	1	0	0
Ahmadabad	0230	55	1001·5	995·3	..	28·3	24·7	23·1	28·3	74	..	3·6	..	13·6	0	2	27	0	0	0	1	6	16	6	0	1	0
	0530	"	1001·5	995.3	..	27·3	24·5	23·2	28·4	79	..	4·5	..	11·8	0	2	28	1	0	0	2	8	16	3	0	0	0
	0830	"	1002·9	996·7	0	28·8	25·1	23·4	28·8	73	—6	5·2	+0·4	14·7	0	4	26	1	0	0	2	5	12	9	1	0	0
	1130	"	1002·4	996·2	..	32·7	25.6	22.2	26·7	55	..	5.3	..	17·0	0	4	26	0	1	0	1	8	12	8	0	0	0
	1730	"	998·2	992·1	..	35·1	25.7	21.2	25·2	47	..	5.4	..	24·4	0	20	10	0	0	1	1	13	9	4	2	0	0
	2330	"	1001·6	995·4	..	29·3	24·9	22.9	27·9	70	..	3·8	..	14·1	0	3	25	0	0	0	0	6	14	7	1	2	0
Dohad	0830	333	1003·0	966·1	+0.1	27.3	23·8	22·1	26·5	74	—2	4.9	—0·5	23·4	0	79	11	0	1	0	0	2	12	15	0	0	0
	1730	"	998·4	962·5	..	33.0	23·8	18.7	21·6	46	..	3·7	..	22·9	0	16	14	0	2	0	1	1	13	13	0	0	0
Baroda Aerodrome	0830	38	1003·4	999·2	..	28·7	26.3	25·4	32·4	83	..	5·4	..	17·0	0	7	23	0	0	1	0	15	13	1	0	0	0
	1130	"	1002·9	998·8	..	31.9	26·6	24·3	30·4	66	..	5·5	..	17·9	0	11	18	0	1	0	0	9	16	2	1	1	0
	1730	"	999·1	995·0	..	33.8	27.1	24.4	30·5	56	..	4.6	..	27·1	0	22	8	0	0	1	0	9	17	1	2	0	0
Baroda	0530	34	1002·4	998·4	..	26·9	25·2	24.3	30.4	86	..	3.6	..	3·3	0	0	22	0	0	0	0	0	19	3	0	8	0
	0830	"	1003·7	999·7	+0.6	29·0	25.8	24.4	30·5	77	+2	4·3	—0.1	4·5	0	0	27	0	1	0	1	3	19	3	0	3	0
	1130	"	1003·3	999·5	..	32·6	26·1	23.2	28.4	60	..	5·1	..	5·7	0	0	29	1	1	0	3	2	20	2	0	1	0
	1730	"	999·6	995·7	..	34·3	26·2	22·5	27·3	52	..	3·8	..	8·7	0	0	30	1	2	0	2	4	16	4	1	0	0
	2330	"	1002·7	998·8	..	28·4	25·6	24·4	30.5	80	..	3·0	..	8·2	0	0	29	0	0	0	1	2	24	2	0	1	0
Broach	0830	17	1003·3	1001.3	+0.4	28·0	25·6	24.6	30·9	83	+4	5·5	+0·8	6·2	0	0	30	0	0	0	1	7	22	0	0	0	0
	1730	"	999·9	998·0	..	33·0	25·8	22.4	27·3	55	..	4.1	..	13·1	0	2	28	0	0	0	0	0	30	0	0	0	0
Surat	0530	12	1002.8	1001.5	..	27·3	26·1	25.5	32·6	90	..	5.3	..	3·3	0	0	17	0	0	0	1	3	11	2	0	13	0
	0830	"	1003·9	1002.6	+0.4	29·1	26·7	25·8	33·2	83	+9	6·0	+0·3	7·3	0	0	27	0	0	0	2	4	18	3	0	3	0
	1130	"	1004·0	1002·7	..	31·6	27·6	25.8	33.2	73	..	6.1	..	7·8	0	0	26	0	0	1	0	8	14	3	0	4	0
	1730	"	1001·1	999.8	..	31·4	27·9	26.5	34·6	76	..	4.7	..	11·5	0	0	30	0	0	0	0	6	24	0	0	0	0
	2330	"	1003·6	1002.3	..	28·7	26·9	26.1	33.8	87	..	4·4	..	7·3	0	0	30	0	0	0	0	9	20	1	0	0	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1001·8	996·5	..	28·9	..	..	..	..	..	5·7	..	27·4	0	22	8	1	0	0	3	5	13	7	1	0	0
	1730	"	999·1	993·9	..	34·9	..	..	..	..	..	2·8	..	31·7	0	24	6	2	0	0	0	4	15	9	0	0	0
Naliya	0830	21	1000·9	998·5	..	28·9	26·5	25.7	32·1	82	..	5·9	..	20.0	0	16	12	0	2	0	0	0	20	5	1	2	0
	1730	"	998·5	996·1	..	30·9	26·9	25.2	32·1	73	..	6·0	..	30·0	0	25	4	0	0	0	1	0	23	5	0	1	0
Bhuj (Rudramata)	0230	80	999·9	990.9	..	27·3	25·8	25.1	31·9	87	..	3·1	..	20·8	0	20	9	1	0	0	1	1	15	11	0	1	0
	0530	"	999.7	990·7	..	26·9	25·7	25·2	32.1	91	..	3·9	..	17·7	0	13	15	0	0	0	1	0	13	13	1	2	0
	0830	"	1001·0	992·0	..	28·8	25·9	24.6	31.1	79	..	4·3	..	20.9	0	18	11	0	0	0	2	1	11	14	0	1	0
	1130	"	1000·9	992·0	..	32·6	26·1	23.1	28·6	59	..	4·3	..	24.0	0	20	10	1	1	0	1	1	11	14	0	0	0
	1730	"	998·0	989·1	..	32·9	26·2	23.2	28·6	58	..	4·3	..	25·5	0	23	7	1	0	0	1	0	14	13	1	0	0
	2330	"	1000·5	991·5	..	28·2	25·8	24.8	31.3	82	..	3·0	..	21·1	0	19	1	0	0	0	1	0	18	10	1	0	0

Division and station	Hour of observation I.S.T.	Height of barometric cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in q.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Kandla* (Aerodrome)	0830	35	1001·5	997·6	..	29·4	26·3	24.9	31.5	77	..	4·7	..	22·4	0	15	15	1	0	3	1	1	18	6	0	0	0
	1130	,,	1001·3	997.5	..	32·8	26·5	23·7	29·3	60	..	5·1	..	26.5	0	21	9	1	0	1	3	2	17	6	0	0	0
	1730	,,	998·5	994·7	..	33·3	26·3	23·0	28.1	57	..	4·3	..	27·8	0	23	7	0	0	0	1	3	17	8	1	0	0
New Kandla . .	0830	14	1002.1	1000·5	..	29·2	26·3	25.0	31·7	79	..	5·5	..	23.9	0	18	12	1	0	0	4	2	13	10	0	0	0
	1730	,,	999·2	997·6	..	32·2	26·6	24.1	30·0	64	..	3·3	..	37.8	0	25	5	1	0	0	1	0	18	10	0	0	0
Mandvi . . .	0830	9	1001·4	1000·3	−0.7	29.2	27·4	26·7	35·0	87	+19	6·3	+2.0	18·2	0	17	12	1	0	1	1	4	19	0	0	1	3
	1730	,,	999·2	998·1	..	30·3	28·0	27.2	36 1	83	..	5·7	..	22·0	0	24	6	0	0	0	0	1	27	1	0	0	1
Surendranagar . .	0830	74	1002·5	994·2	+0·1	28.9	27·2	26.5	34•6	87	+8	6·1	+2.2	20·1	0	12	18	0	0	1	2	3	19	4	1	0	0
	1730	,,	998·1	990·0	..	35·2	29·5	27·2	36·7	66	..	5·8	..	20.7	1	15	14	1	0	0	4	3	13	7	2	0	0
Jamnagar (Aerodrome)	0530	23	1000·4	997·9	..	27·3	25·4	24·6	30 9	85	..	3·6	..	20·4	0	13	17	0	0	1	0	3	16	7	1	0	2
	0830	,,	1001.8	999.2	−0·1	29·2	26·0	24·6	30·9	77	+10	5·2	+1.4	23 7	0	17	12	0	1	1	0	1	20	6	0	1	0
	1130	,,	1001·6	999·1	..	32·9	26·5	23·8	29·5	60	..	4·8	..	29.8	0	24	6	0	0	1	1	1	10	17	0	0	0
	1730	,,	998·9	996·4	..	32.6	26·7	24·2	30·2	63	..	4·3	..	35.9	0	26	4	1	0	0	0	1	6	21	1	0	0
	2330	,,	1001·4	998·9	..	28·5	25·9	24·8	31·3	81	..	3·2	..	27·3	0	22	8	0	0	0	0	2	18	10	0	0	0
Dwarka . . .	0830	11	1001·9	1000·6	−0·4	28·6	27·2	26·8	35·2	89	+7	4.4	+0.1	25.7	0	22	8	2	0	1	1	0	10	16	0	0	0
	1730	,,	999·5	998·3	..	30·0	28.1	27·3	36·3	85	..	4·7	..	27·2	1	25	4	1	0	0	0	2	12	14	1	0	0
Rajkot . . .	0830	138	1002·3	986.9	−0·2	28·3	26·5	25·8	33·8	87	+7	5·0	+1.1	27·5	0	26	4	0	1	0	2	0	23	4	0	0	0
	1130	,,	1001·8	986·6	..	32·3	27·7	25·8	33·4	69	..	4·1	..	28·7	0	24	5	0	1	0	2	0	18	8	0	1	0
	1730	,,	998·6	983·6	..	33·8	27·5	24·8	31·5	60	..	4·3	..	34·1	0	28	2	0	0	1	1	0	15	13	0	0	0
Bhavnagar Aerodrome	0830	11	1003·3	1002·1	..	29·8	25·9	24·1	30·0	72	..	3·3	..	18·2	0	10	18	0	1	0	0	3	16	8	0	2	0
	1130	,,	1002·9	1001·7	..	33·2	25·9	22·5	27.3	55	..	4·1	..	22·3	0	15	15	2	1	0	0	6	14	7	0	0	0
	1730	,,	999·3	998·1	..	33·5	26.3	23·4	28·8	56	..	4·2	..	39·1	1	25	4	0	0	2	0	13	13	2	0	0	0
Bhavnagar . .	0830	17	1003·5	1001·6	+0·4	29·6	26·2	24.5	30·7	75	+8	..	..	12·1	0	4	26	0	1	0	1	2	15	10	1	0	0
	1730	,,	999·5	997·7	..	33·6	26·4	23·2	28·4	56	..	..	..	19·8	0	13	17	0	0	0	1	13	12	3	1	0	0
Porbander Aerodrome	0830	7	1002·5	1001·7	..	29·1	26·9	26·0	33·6	84	..	3·9	..	22·6	0	18	12	0	2	0	1	3	15	7	2	0	0
	1130	,,	1002·8	1002·0	..	30·7	27·5	26·3	34·2	78	..	3·7	..	27·1	0	24	6	0	0	1	1	2	18	8	0	0	0
	1730	,,	1000·4	999·6	..	30·2	27·6	26·6	34·8	81	..	4·2	..	28.7	0	28	2	0	0	0	0	3	16	10	1	0	0
Porbander . .	0830	7	1002·6	1001·8	+0.1	28·7	26·8	26·0	33·6	85	+1	6·2	+1.3	16·7	0	7	23	1	2	1	0	3	10	13	0	0	0
	1730	,,	1000·7	999·9	..	30·4	27·7	26·6	34·8	80	..	7·4	..	20.0	0	9	21	0	0	0	1	4	17	7	1	0	0
Keshod . . .	0830	51	1003·2	997·4	..	28·6	25·9	24·7	31·1	80	..	4·1	..	28·4	0	22	8	0	1	2	0	4	16	7	0	0	0
	1130	,,	1003·3	997·6	..	31·1	25·9	23·7	29·3	66	..	4·2	..	33.9	0	27	3	0	0	1	1	3	14	10	1	0	0
	1730	,,	1000·9	995·1	..	30·7	26·0	24·0	29·8	68	..	4·2	..	34.9	0	28	2	0	0	0	1	3	16	9	1	0	0
Mahuva . . .	0830	9	1003·6	1002·6	..	28·9	26·5	25·4	32·4	82	..	..	..	16·8	0	9	21	1	1	0	1	5	22	0	0	0	0
	1730	,,	1000·7	999·7	..	30·8	26·6	25·0	31·7	71	..	..	..	27·9	0	24	6	0	0	0	2	9	19	0	0	0	0
Veraval . . .	0230	8	1002·1	1001·3	..	28·0	26·2	25·5	32·6	87	..	4·1	..	20·6	0	16	13	0	1	0	0	1	9	17	1	1	0
	0530	,,	1001·9	1001·0	..	27·8	26·3	25·7	33·0	89	..	4·6	..	20·5	0	12	18	2	0	1	0	2	7	16	2	0	0
	0830	,,	1003·3	1002·4	−0.1	28·4	26·7	26·0	33·6	87	+5	4·6	−0·1	17·1	1	4	25	1	1	1	1	2	5	19	0	0	0
	1130	,,	1003·6	1002·7	..	30·0	27·3	26·2	34·0	81	..	4·8	..	17·6	0	7	22	1	0	1	1	2	6	17	1	1	0
	1730	,,	1001·1	1000.2	..	29·4	27·2	26·3	34·2	83	..	4·8	..	19·1	0	7	23	0	0	0	1	3	7	17	2	0	0
	2330	,,	1002·9	1002.0	..	28·3	26·7	26·1	33·8	87	..	4·1	..	19·7	0	12	17	0	0	0	1	1	10	16	1	1	0
Konkan																											
Dahanu . . .	0830	5	1004·4	1003.9	+0.5	28·9	25·9	24·3	30·4	77	−7	7·3	+1.2	15·4	0	7	23	0	0	3	5	2	11	9	0	0	0
	1730	,,	1002·2	1001.7	..	30·3	26·5	24 9	31·5	73	..	6·8	..	23·7	0	22	8	0	0	1	1	3	13	12	0	0	0
Bombay (Santa Cruz) . . .	0230	15	1003·8	1002.2	..	27·5	25·4	24.6	30.9	84	..	5·1	..	12·8	0	4	25	0	0	1	1	9	8	9	1	1	0
	0530	,,	1003·6	1002.0	..	27·0	25·2	24·4	30·5	86	..	6·0	..	12.5	0	1	28	0	1	1	1	11	2	11	2	1	0
	0830	,,	1005·2	1003·5	0	28·3	25·9	24·9	31·5	82	+5	6·5	+0.7	13.6	0	2	28	0	1	0	6	7	3	11	2	0	0
	1130	,,	1005·3	1003·7	..	30·3	26·4	24·8	31·3	73	..	6·2	..	18·2	0	11	19	0	0	0	0	6	7	16	1	0	0
	1730	,,	1002·9	1001.3	..	29·4	26·1	24·7	31·1	77	..	6·2	..	19·3	0	14	16	0	0	0	0	1	10	15	4	0	0
	2330	,,	1004·9	1003.3	..	28·0	25·6	24·7	31·1	83	..	5·0	..	14·2	0	4	25	0	0	0	0	9	10	10	0	1	0
Bombay . .	0830	11	1005·3	1004·1	+0.2	28·5	26·0	24.9	31.5	81	+2	6·4	+0.6	10·7	0	0	27	0	0	0	5	9	4	7	2	3	0
	1130	,,	1005·5	1004.3	..	30·7	26.7	25.1	31·9	73	..	5·9	..	11·9	0	2	28	0	0	0	4	9	9	6	2	0	0
	1730	,,	1003·1	1001·9	..	29·8	26·4	24·9	31·5	76	..	6·2	..	13·5	0	5	25	0	0	0	0	3	12	12	3	0	0
Alibag . . .	0830	7	1005·5	1004·7	0	27·8	26·1	25·5	32·2	87	+7	6·1	−0.3	8.7	0	0	29	0	0	4	11	2	5	3	4	1	0
Harnai . . .	0830	20	1006·1	1003·7	+0.9	27·2	25·5	24·8	31·3	87	+2	6.9	+0.7	10.0	0	3	22	0	0	4	7	7	1	4	2	5	0
	1730	,,	1004·0	1001·7	..	27·9	25·7	24.8	31·3	84	..	6·8	..	19·0	0	9	21	1	0	0	4	6	5	13	1	0	0
Ratnagiri . .	0830	34	1006·7	1002·9	+0.9	25·9	25·1	24·8	31·3	93	..	6.9	..	11·1	0	3	26	0	2	5	15	3	2	2	0	1	0
	1730	,,	1004·7	1000·9	..	27·7	25·9	25.1	31·9	86	..	6.6	..	17·5	0	11	19	0	0	0	0	7	11	6	6	0	0

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—*Contd.*																											
Devgarh	0830	36	1006·6	1002.6	+0·7	25·8	24·7	24·3	30·4	91	+5	7·1	+0·7	13·2	0	7	23	0	2	9	8	3	3	3	2	0	0
	1730	,,	1004·8	1000·8	..	27·3	25·9	25·1	31·9	86	..	6·9	..	20·7	0	16	14	0	0	0	2	2	11	11	4	0	0
Vengurla	0230	9	1006·1	1005.1	..	25·1	24·3	24·0	29·8	94	..	6·7	..	3·3	0	0	11	1	1	2	1	3	3	0	0	19	0
	0530	,,	1006·0	1005·0	..	24·6	24·0	23·7	29·3	95	..	6·6	..	4·7	0	0	20	3	1	7	2	1	5	1	0	10	0
	0830	,,	1007·5	1006·5	0	25·7	24·5	24·0	29·8	90	+4	6·7	0	4·5	0	0	21	1	1	6	4	3	2	3	1	9	0
	1130	,,	1007·7	1006·7	..	27·3	25·4	24·6	30·9	86	..	6·8	..	6.5	0	1	25	1	0	1	1	9	12	2	0	4	0
	1730	,,	1005·5	1004·5	..	27·3	25·2	24·3	30·4	84	..	7·2	..	7·9	0	0	29	2	1	0	1	8	13	4	0	1	0
	2330	,,	1007·6	1006.6	..	25.2	24.3	23.9	29.7	93	..	6·9	..	6 4	0	0	23	1	1	1	3	7	8	2	0	7	0
Madhya Maharashtra Nandurbar	0830	206	1003·7	980·8	..	28·5	24·6	22.7	27·6	72	..	5·7	..	14·6	0	4	26	0	1	1	1	1	9	17	0	0	0
	1730	,,	999·5	977·1	..	33·4	25·1	21·0	25·0	49	..	4·7	..	14·8	0	10	20	1	0	1	0	0	2	16	0	0	0
Jalgaon	0830	201	1004·1	981·7	+1.2	28·2	24·5	22 8	27·6	74	+2	4·1	+0·2	21.1	0	14	16	0	0	1	1	1	3	19	5	0	0
	1730	,,	998·7	976·9	..	35.1	24·9	19.6	23·2	43	..	4·4	..	24·4	0	20	10	1	0	2	0	1	8	9	9	0	0
Malegaon	0830	437	1004.1	955.8	+0.5	26.6	22·7	20.8	24.6	71	+3	4.4	−0.1	13.0	0	5	25	0	1	0	1	0	10	14	4	0	0
	1730	,,	999·2	952 1	..	33·0	23 3	18.0	20·6	44	..	5.3	..	20.9	0	15	14	2	1	1	1	0	7	16	1	1	0
Deolali (Aerodrome)	0830	571	1005·2	942·4	..	25·6	22 8	21·6	25.8	79	..	5·5	..	17·1	0	12	15	0	0	0	0	0	18	8	1	3	0
	1730	,,	1002·0	940·1	..	28·6	23·2	20·7	24·4	64	..	5·5	..	22·7	0	21	8	1	0	0	0	0	22	5	1	1	0
Ahmednagar	0830	657	1004·9	933·0	+0.3	24·1	21·6	20·4	24·0	79	+8	4·8	+0·3	8·3	0	0	27	0	0	0	2	1	13	2	9	3	0
	1730	,,	1000·3	929·6	..	29·0	22·6	19·4	22·5	60	..	5·9	..	8.6	0	1	28	0	1	0	2	0	9	7	8	1	0
Poona (Aerodrome)	0230	593	1004·6	939·1	..	23·0	21.4	20·5	24·3	86	..	4·6	..	11·0	0	7	18	0	0	0	0	0	0	24	1	5	0
	0530	,,	1004·3	938·7	..	22·7	21·3	20·6	24.3	88	..	5.1	..	8·0	0	1	23	0	0	0	0	0	0	22	1	6	1
	0830	,,	1005·2	940·0	..	25·1	22·0	20·6	24·1	77	..	6·1	..	12 6	0	4	26	0	0	1	1	0	2	24	2	0	0
	1130	,	1004·3	939·8	..	28·2	22·7	20·0	23·5	63	..	5·8	..	18·2	0	14	15	0	0	1	0	0	4	22	2	1	0
	1730	,,	1001·8	937·4	..	27·6	22·9	20·8	24·4	69	..	6·0	..	24·1	0	20	9	0	0	0	0	0	2	25	2	1	0
	2330	,,	1005·4	939·9	..	23·7	21·8	20·9	24·7	85	..	5·3	..	14·2	0	8	20	0	0	0	0	0	2	24	2	2	0
Poona	0530	559	1004·1	942·2	..	23·3	21·2	20·2	23·7	83	..	5·8	..	3·8	0	0	15	0	0	0	0	1	7	6	1	15	0
	0830	,,	1005·0	943·6	+0.3	25·6	22·2	20·6	24·3	75	+2	6·0	+0 6	4·8	0	0	22	0	0	0	0	0	9	11	2	8	0
	1130	,,	1004·1	943·4	..	28·8	22·9	20·1	23·5	61	..	5·4	..	6·5	0	0	26	1	0	0	0	2	7	10	6	4	0
	1730	,,	1001.8	941·1	..	28·1	22·7	20·1	23·5	64	..	6·4	..	8·1	0	0	24	0	0	0	0	0	5	19	0	6	0
	2330	,,	1005.1	943·4	..	24·2	21·6	20·3	23·8	79	..	4·7	..	5·3	0	0	19	0	0	0	0	0	8	11	0	11	0
Jeur	0830	521	1005·1	947·6	+0·7	24·9	22·1	20·8	24·6	79	+4	6·4	+1·9	11·9	0	1	28	0	1	0	0	3	5	17	3	1	0
	1730	,,	1000·3	944·1	..	30·1	22·8	19·2	22·2	54	..	7·0	..	20·6	0	16	13	1	0	0	0	3	6	11	8	1	0
Baramati	0830	551	1004·1	944·4	+0.5	25.4	22·0	20·4	24·0	75	−1	5·5	+0·8	11·6	0	2	27	0	0	0	0	1	5	20	3	1	0
	1730	,,	1001·0	941·4	..	29·1	22·4	19·1	22·1	57	..	6·2	..	28·6	0	23	7	1	1	0	0	1	7	16	4	0	0
Sholapur	0530	479	1005·0	951·7	..	23·0	21·5	20·8	24·6	87	..	5·7	..	5·5	0	0	26	1	0	0	0	2	14	7	2	4	0
	0830	,,	1005·8	952·9	+0·8	25·4	22.6	21·4	25·5	79	+11	6·0	+1.0	11·3	0	1	29	1	0	1	0	1	15	9	3	0	0
	1130	,,	1004·8	952·5	..	29·2	23·6	21·1	25·0	62	..	6·2	..	12·5	0	2	28	1	0	0	0	1	9	10	9	0	0
	1730	,,	1001·2	949·3	..	29·7	23·4	20·5	24·1	60	..	6·8	..	13·7	0	5	25	2	2	1	0	0	12	9	4	0	0
	2330	,,	1005·5	952·5	..	24·9	22·2	20·9	24·7	79	..	6·1	..	10·0	0	1	27	0	1	0	1	3	13	8	2	2	0
Miraj	0830	554	1006·6	945·4	+0·4	24·0	21·9	20·9	24·7	83	+3	5·4	−0·9	..	..	..	..	0	0	0	0	0	0	21	2	7	0
	1730	,,	1003·3	943.0	..	27·7	22·4	19·8	23·1	64	..	5·6	..	..	..	..	..	0	0	0	0	0	4	21	2	3	0
Kolhapur	0530	570	1005·6	942·0	..	21·9	21·0	20·5	24.1	92	..	6·5	..	9·8	0	1	26	0	0	0	0	0	6	20	1	3	0
	0830	,,	1006·3	943·4	+0.7	23·6	21·9	21·0	24·9	86	+5	6·6	+1·2	12·2	0	4	22	0	0	1	0	0	8	16	1	4	0
	1130	,,	1005·5	943·3	..	26·7	22·7	20·9	24·7	71	..	6·7	..	20·2	0	14	15	0	0	0	0	0	6	22	1	1	0
	1730	,,	1003·5	941.1	..	25·7	22·3	20·7	24·4	75	..	6·6	..	20·1	0	12	18	0	0	0	0	0	5	23	2	0	0
	2330	,,	1006.4	943.3	..	22·8	21.5	20.8	24.6	89	..	6·5	..	13·0	0	1	29	0	0	0	0	0	11	18	1	0	0
Marathwada																											
Aurangabad	0830	581	1005.0	941·3	+0.5	25.4	22.1	20.6	24·1	75	+3	5·6	+0·1	17·0	0	12	17	0	0	1	0	1	4	23	0	1	0
	1730	,,	999·7	937·4	..	30·8	22·8	18·7	21·8	51	..	6·2	..	18·8	0	11	18	3	0	0	1	1	4	18	2	1	0
Aurangabad (Chikalthan)	0230	579	1003·3	939·5	..	23·6	21·7	20 8	24·6	85	..	4·8	..	10·8	0	2	24	1	0	0	1	0	1	21	2	4	0
	0530	,,	1003·5	939.5	..	22·9	21·4	20·7	24·4	88	..	4·9	..	12·5	0	2	27	1	0	0	1	2	2	22	1	1	0
	0830	,,	1004·3	940·8	..	25·4	22·8	21.6	25·8	80	..	5·4	..	16·0	0	6	23	0	0	1	1	0	3	21	3	1	0
	1130	,,	1003·2	940·6	..	29·3	23·8	21·2	25·2	63	..	5·5	..	19·9	0	12	18	0	0	0	1	1	3	19	6	0	0
	1730	,,	999·2	937·1	..	30·9	23·5	20·0	23·4	55	..	6·6	..	18·7	0	9	21	2	0	1	1	0	3	18	5	0	0
	2330	,,	1003·8	940·2	..	24·8	22·1	20·8	24·6	79	..	5·1	..	16·7	0	8	21	0	0	0	1	0	3	21	4	1	0
Parbhani	0830	423	1004·9	958·2	+1·7	26·4	23·3	21·6	25·8	76	+5	5·5	..	16·9	0	8	22	0	0	0	0	1	4	18	7	0	0
	1730	,,	999·6	953·8	..	31·7	23.9	19·6	23·2	52	..	6·6	..	14·4	0	7	22	3	1	0	3	4	3	12	3	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Nander	0830	358	1004·9	965·1	..	26·8	23·3	21·5	25·6	74	..	4·6	..	4·7	0	0	29	0	0	0	0	2	13	13	1	1	0
	1730	,,	..	..	..	31·5	23·8	19·6	23·2	53	..	4·9	..	3·9	0	0	30	4	2	0	0	0	17	5	2	0	0
Bir (R)	0830	519																									
(R)	1730	,,																									
Vidarbha																											
Gondia	0830	313	1003·1	968·5	+1·9	28·4	24·0	21·9	26·3	70	+4	4·6	0	5·9	0	0	28	4	1	1	1	4	10	5	2	2	0
	1730	,,	999·2	965·3	..	32·8	24·5	20·3	24·0	52	..	5·8	..	6·5	0	0	29	3	2	2	2	7	9	1	3	1	0
Nagpur (Sonegaon)	0230	310	1000·8	966·4	..	26·5	23·2	21·5	25·7	76	..	5·5	..	8·3	0	4	21	0	1	0	2	1	10	7	4	5	0
	0530	,,	1001·4	966·9	..	25·7	22·9	21·4	25·8	78	..	6·2	..	8·0	0	3	20	0	1	0	1	0	7	10	4	7	0
	0830	,,	1002·8	968·6	+1·2	28·5	23·5	20·9	25·0	66	+7	5·8	+1·0	13·5	0	7	21	1	0	0	0	1	3	14	9	2	0
	1130	,,	1001·9	968·2	..	32·2	24·3	20·1	24·0	52	..	6·1	..	12·9	0	7	21	2	1	2	0	1	4	8	10	2	0
	1730	,,	998·1	964·5	..	33·1	24·2	19·3	23·0	48	..	6·7	..	15·0	0	7	21	2	0	1	0	2	7	10	6	2	0
	2330	,,	1001·8	967·4	..	27·3	23·6	21·7	26·0	73	..	6·0	..	7·9	0	3	21	1	0	0	1	3	12	5	2	6	0
Amraoti	0830	370	1003·2	962·4	+0·8	27·4	23·3	21·3	25·3	71	+6	4·5	−0·1	15·3	0	6	24	1	1	0	1	2	9	14	2	0	0
	1730	,,	998·1	958·1	..	32·7	23·7	18·6	21·8	47	..	5·3	..	9·7	0	0	30	2	0	2	6	2	9	5	4	0	0
Akola Aerodrome	0530	309	1002·1	967·6	..	25·9	22·6	20·7	24·6	74	..	6·0	..	8·1	0	2	26	0	0	0	0	0	8	19	1	2	0
	2330	,,	1001·8	967.8	..	28·5	23·5	20·2	24·9	64	..	4·9	..	8·3	0	3	23	0	0	0	0	0	10	16	0	4	0
Akola	0830	282	1003·4	972·3	+0·8	28·1	24·0	21·9	26·6	70	+6	5·7	+1·0	7·0	0	1	26	0	0	0	1	0	2	20	4	3	0
	1130	,,	1002·4	971·6	..	31·8	25·1	21·6	26.2	57	..	6·3	..	5·9	0	0	28	1	0	0	0	1	2	21	3	2	0
	1730	,,	998·5	968·1	..	34·4	25·0	20·2	23·9	46	..	5·5	..	2·9	0	0	24	0	0	0	0	0	0	23	1	6	0
Bramhapuri	0830	229	1003·2	978·0	..	29·0	25·1	23·4	28·8	73	..	4·8	..	10·8	0	4	26	2	1	0	1	3	6	14	3	0	0
	1730	,,	998·8	973·9	..	33·2	26·3	23·2	28.4	59	..	5·8	..	10.8	0	1	29	2	2	3	1	4	8	9	1	0	0
Buldana	0830	650	1003·7	932·6	+0·9	24·4	21·8	20·4	24·0	78	+4	5·2	+0·2	4·1	0	0	26	0	0	0	1	0	5	0	20	4	0
	1730	,,	999·0	929·5	..	30·5	23·1	19·0	22·2	54	..	5·8	..	3.8	0	0	30	0	0	0	1	0	6	0	23	0	0
Yeotmal	0830	451	1003·3	953·7	+1·5	27·3	23·1	20·9	24·9	69	0	5·4	+0·2	20·4	0	15	13	0	0	0	0	1	5	17	5	2	0
	1730	,,	998·4	949·5	..	31·7	23·5	18·9	22·1	52	..	6·5	..	16·8	0	8	21	3	0	3	0	2	7	12	2	1	0
Chanda	0830	193	1003·4	981·9	+1.0	29·2	25·1	23·3	28·4	72	+13	6·0	+1·3	12·3	0	1	29	2	0	0	1	1	6	16	4	0	0
	1730	,,	999.1	977·9	..	32·3	26·0	23·4	28·6	62	..	6·6	..	6·9	0	1	27	2	0	2	5	4	6	6	3	2	0
Pusad	0830	334	1004·1	966·9	..	27·5	23·4	21·2	25·3	69	..	4·3	..	9·7	0	0	29	3	0	0	0	1	7	16	2	1	0
	1730	,,	999·5	963·3	..	32·6	24·1	19·4	23·1	49	..	6·2	..	8·6	0	0	27	2	2	1	2	2	7	10	1	3	0
Sironcha	0830	123	1003·9	990·1	+1·3	29·9	24·8	22·3	27·3	65	−1	5·8	+0·5	3·9	0	0	29	0	0	1	5	3	6	9	5	1	0
	1730	,,	999·8	986·2	..	32·9	25·2	21·4	25·8	55	..	6·1	..	4.7	0	0	28	2	1	2	3	4	9	6	1	2	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1002·5	1001·9	+1·0	29·0	27·3	26·6	34·8	87	+12	4·7	−0·3	16·0	0	11	18	2	1	0	0	1	17	7	1	1	0
	1730	,,	999·8	999·2	..	29·9	28·2	27·5	36·7	87	..	5·1	..	18·1	0	13	17	0	0	0	0	6	20	1	3	0	0
Vishakhapatnam	0230	3	1001·6	1001·2	..	27·3	25·6	24·7	31·1	84	..	4·4	..	6·4	0	3	11	0	0	0	0	3	9	2	0	16	0
	0530	,,	1001·9	1001·5	..	27·3	25·2	24·3	30·4	84	..	6·4	..	6·7	0	2	17	0	0	0	0	1	13	4	1	11	0
	0830	,,	1003·1	1002·7	+0·9	29·8	25·9	24·3	30·4	72	−9	6·2	0	11·1	0	5	19	0	0	0	0	2	18	4	0	6	0
	1130	,,	1002·6	1002·2	..	32·4	26·8	24·4	30·5	64	..	6·4	..	15·5	0	10	18	0	1	0	0	8	15	3	1	2	0
	1730	,,	1000·3	999·9	..	30.5	26·1	24·2	30·2	70	..	6·6	..	13·2	0	7	20	0	0	0	0	11	10	2	2	3	0
	2330	,,	1002·8	1002·4	..	28·2	25·8	24·7	31·1	82	..	5·3	..	7·7	0	3	16	0	0	0	0	2	13	3	1	11	0
Kakinada	0830	8	1004·2	1003·3	+1·2	29·7	25·8	24·1	30·1	73	+1	5·2	−0·4	14·3	0	5	25	0	0	0	0	0	29	1	0	0	0
	1730	,,	1001·7	999·8	..	32·4	26·5	23·7	29·3	62	..	5·7	..	13·3	0	2	28	0	0	0	6	0	20	1	3	0	0
Nidadavole	0830	12	1006·4	1005·0	..	28·7	25·9	24·8	31·3	80	..	6·7	..	9·9	0	2	28	0	1	1	1	0	18	8	1	0	0
	1730	,,	1000·7	999·3	..	33·0	26·0	22·8	27·7	59	..	6·8	..	13·4	0	5	25	1	1	2	0	2	12	9	3	0	0
Rentachintala	0830	106	1005·2	993·7	..	28·9	24·8	22·9	27·9	71	+8	6·2	−0·4	5·0	0	0	29	0	1	0	1	2	2	22	1	1	0
	1730	,,	1000·7	989·7	..	33.8	26·0	22·5	27·9	53	..	6·5	..	4·3	0	0	30	2	0	0	1	1	3	23	0	0	0
Gannavaram	0230	24	1002·7	1000·0	..	27·4	25·3	24·3	30·4	84	..	5·7	..	11·4	0	4	25	1	0	2	0	1	11	10	4	1	0
	0530	,,	1003·0	1000·3	..	27·0	24·9	23·9	29·7	84	..	6·3	..	10·5	0	4	24	0	1	1	1	1	8	10	6	2	0
	0830	,,	1004.8	1002·1	+1·8	29·3	25·1	23·1	28·3	71	+8	6·3	+0·4	14·8	0	8	20	0	0	0	0	1	3	14	10	2	0
	1130	,,	1004·1	1001·4	..	32·5	25·7	22·6	27·4	57	..	6·3	..	18·7	0	12	17	2	0	1	0	0	2	10	14	1	0
	1730	,,	1000·8	998·1	..	33·1	25·8	22·4	27·1	56	..	6·9	..	14·2	0	6	22	2	1	0	1	4	3	11	6	2	0
	2330	,,	1004·1	1001·4	..	28·3	25·3	24·0	29·8	79	..	6·3	..	10·7	0	1	28	1	2	0	0	6	11	6	3	1	0
Nagarjunakonda	0830	126	..	..	..	29·3	23·9	21·2	25·2	62	..	5·6	..	23·0	0	23	6	1	0	0	0	1	3	22	2	1	0
	1730	,,	..	..	..	33·5	24·8	20·5	24·1	48	..	5·8	..	20·2	0	20	10	0	0	1	1	3	3	17	5	0	0
Masulipatam	0830	3	1004·9	1004.5	+1·2	29·1	25·2	23.2	28·9	71	0	5·9	+1·1	6·1	0	0	29	0	0	0	0	0	8	16	5	1	0
	1730	,,	1001·1	1000·7	..	32·1	25·8	23·0	28·1	59	..	6.1	..	7·4	0	0	29	0	0	0	0	15	3	8	3	1	0
Ongole	0830	12	1004·9	1003·7	..	30·2	27·3	26·1	33·8	80	..	5·6	..	4·7	0	0	26	1	0	0	5	2	0	12	6	4	0
	1730	,,	1001·2	999·9	..	33·0	28·6	26.9	35·4	71	..	6·7	..	2·8	0	0	26	1	0	0	14	1	1	6	3	4	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars. At station level	Mean pressure in millibars. Departure from normal	Mean temperature in °C. Dry bulb	Mean temperature in °C. Wet bulb	Mean temperature in °C. Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Cloud amount (Oktas) Departure from normal	Mean wind speed, in km. per hour	Wind speed (km p.h.) 62 or more	Wind speed (km p.h.) 20 to 61	Wind speed (km p.h.) 1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.*																											
Nellore	0530	20	1003·9	1001·7	..	27·4	24·1	22·4	27·1	76	..	6·3	..	3·0	0	1	14	0	0	0	0	0	2	12	1	15	0
	0830	,,	1005·7	1003·5	+1·1	29·6	24·6	22·2	26·7	66	+10	6·1	+0·5	7·9	0	0	29	0	1	1	1	1	3	22	0	1	0
	1130	,,	1005·0	1002·9	..	33·0	25·2	21·5	25·6	49	..	6·0	..	7·2	0	0	29	0	0	0	1	0	3	24	1	1	0
	1730	,,	1001·9	999·7	..	33·9	25·7	21·8	26·1	51	..	6·6	..	7.1	0	0	29	0	0	4	6	0	1	18	0	1	0
	2330	,,	1004·6	1002·4	..	28·7	25·1	23·4	28·8	74	..	5·2	..	3·4	0	1	18	0	0	1	5	0	0	11	2	11	0
Telangana Ramgundam	0830	156	1003·7	986·3	+1·3	29·1	24·1	21·7	25·9	66	+6	6·1	+0·6	7·2	0	0	29	2	0	0	0	2	2	15	8	1	0
	1730	,,	999·8	982·7	..	33·2	25·0	20·8	24·6	51	..	6·4	..	7·1	0	3	24	3	1	1	2	0	5	11	4	3	0
Nizamabad	0830	381	1004·7	962·5	+0·8	27·0	23·1	21·1	25·0	71	+5	5·0	+0·4	2·0	0	0	26	1	0	0	0	2	19	2	2	4	0
	1730	,,	999·9	958·6	..	31·8	24·0	19.9	23·2	52	..	5·7	..	1·8	0	0	20	0	0	0	0	2	15	2	1	10	0
Hanamkonda	0830	269	1004·2	974·4	+0·8	28·0	24·1	22·6	27·4	73	+14	5·1	0	3·5	0	0	29	1	0	0	1	2	2	17	6	1	0
	1730	,,	1000·4	971·2	..	32·6	24·3	19·8	23·1	50	..	6·0	..	2·8	0	0	30	3	1	0	0	3	3	18	2	0	0
Hakimpet Aerodrome	0530	613	1004·1	936·7	..	23·2	21·1	20·1	23·5	82	..	6·3	..	21·4	0	16	11	0	0	0	0	1	4	19	3	3	0
	0830	,,	1004·7	937·5	..	24·8	21·7	20·3	23·7	77	..	6·3	..	24·1	0	20	10	0	0	0	0	0	7	18	5	0	0
	1130	,,	1003·8	937·4	..	28·4	22·7	19·9	23·2	61	..	6·3	..	24·6	0	20	9	1	0	0	0	1	3	16	8	1	0
	1730	,,	1001·2	935·0	..	28·7	22·7	19·7	23·2	61	..	6·7	..	18·7	0	10	20	2	0	0	1	2	5	16	4	0	0
Bhadrachallam	0830	111	1004·3	991·9	+1·2	29·2	25·0	22·9	27·9	70	+6	6·6	+0·6	5·1	0	0	28	0	3	11	4	1	2	5	2	2	0
	1730	,,	1000·2	988·0	..	33·1	26·0	22·8	27·7	59	..	7·3	..	3·7	0	1	27	2	5	5	2	3	5	1	5	2	0
Hyderabad (Begampet)	0230	545	1003·3	943·5	..	24·6	21·5	19·9	23·2	76	..	6·0	..	15·0	0	11	18	1	0	0	0	1	6	19	2	1	0
	0530	,,	1003·9	943·8	..	23·7	21·0	19.7	22·9	79	..	6·4	..	14·4	0	8	21	0	1	0	0	1	2	22	3	1	0
	0830	,,	1005.2	945·3	+1·2	25·2	21·7	19·9	23·2	73	+2	6·6	+1·2	18·0	0	15	15	1	0	0	0	1	1	22	5	0	0
	1130	,,	1003.9	944·8	..	29·2	22·7	19·5	22·7	57	..	6·6	..	18·9	0	16	14	2	0	0	0	2	2	15	9	0	0
	1730	,,	1000·6	941·9	..	29·8	22·6	19·1	22·1	56	..	6·8	..	17·7	0	13	17	1	0	1	0	2	3	9	14	0	0
	2330	,,	1004·2	944·5	..	25·8	21·9	19·9	23·2	71	..	6·8	..	12.9	0	9	21	2	0	0	0	2	7	17	2	0	0
Khammam	0830	112	1004·5	992·0	..	28·4	25·0	23·4	28·8	76	..	6·6	..	11·0	0	4	25	1	0	3	0	0	2	17	6	1	0
	1730	,,	1000·2	987·9	..	32·3	26·1	23·3	28·6	63	..	6·9	..	9·8	0	3	24	5	0	4	0	2	1	14	1	3	0
Mahabubnagar	0830	505	1005·9	950·0	..	25·1	22·2	20·8	24·6	79	..	6·4	..	10·0	0	0	30	1	0	0	0	0	10	10	9	0	0
	1730	,,	1001·0	946·3	..	30·2	23·5	20·3	23·8	57	..	7·1	..	5·8	0	0	29	1	0	0	0	1	10	9	8	1	0
Rayala Seema Kurnool	0830	281	1006·5	975·2	+1·1	26·5	23·5	22·0	26·4	77	+11	6·1	+0·8	6·9	0	0	30	0	0	0	1	0	1	26	2	0	0
	1730	,,	1001·4	970·7	..	32·3	24·2	20·1	23·5	51	.	5·4	..	13·2	0	7	23	1	2	0	1	0	1	22	3	0	0
Anantapur	0530	350	1005·5	966·4	..	24·4	21·5	20·0	23·4	77	..	6·4	..	12·7	0	7	20	0	0	0	0	0	3	24	0	3	0
	0830	,,	1006·8	967·9	+1 2	26·3	22·1	19·9	23·2	68	0	6·3	+1·0	16·3	0	13	16	0	0	0	0	0	6	22	1	1	0
	1130	,,	1005·6	967·2	..	30·2	23·1	19·2	22·2	52	..	6·4	..	17·9	0	16	13	1	0	0	0	0	2	20	6	1	0
	1730	,,	1001·7	963·7	..	32·0	23·0	17·6	20·1	44	..	6·2	..	17·8	0	15	15	0	0	0	0	0	5	23	2	0	0
	2330	,,	1006·0	967·2	..	26·4	22·0	19·5	22·7	67	..	5·8	..	20·5	0	17	12	0	0	0	0	0	5	24	0	1	0
Cuddapah	0830	130	1006·8	992·3	+1·1	29·1	23·6	20·8	24·6	62	+3	5·1	0	4·2	0	0	22	0	0	0	0	0	0	20	2	8	0
	1730	,,	1001·9	987·6	..	33·9	24·7	20·1	23·5	46	..	5·4	..	6·1	0	0	24	0	0	2	1	0	0	18	3	6	0
Arogyavaram	0830	701	1006·9	930·4	..	24·8	20·8	18·7	21·6	69	..	6·5	..	11·5	0	2	27	2	0	0	0	1	4	13	9	1	0
	1730	,,	1002·4	927·3	..	29·1	21·4	17·3	19·7	50	..	7·1	..	16·6	0	13	17	4	1	0	0	0	2	12	11	0	0
Madras State Madras	0830	6	1006·6	1005·9	..	29·1	24·3	22·2	26·7	67	..	6·1	..	9·9	0	2	28	0	0	0	0	1	15	12	2	0	0
Madras (Minambakkam)	0230	16	1004·7	1003·0	..	27·9	24·5	22·9	27·9	75	..	5 3	..	12·6	0	4	26	0	0	0	0	14	9	7	0	0	0
	0530	,,	1005·1	1003·3	..	27·2	24·0	22·4	27·1	75	..	6·1	..	10 6	0	3	27	0	0	0	0	7	16	7	0	0	0
	0830	,,	1006·7	1003·9	+1·3	29·4	24·6	22·2	26·7	66	+10	6·0	+1·2	14·7	0	4	26	0	0	0	0	8	9	11	2	0	0
	1130	,,	1006·0	1004·3	..	32·9	25·1	21·3	25·3	51	..	6·3	..	20·0	0	16	14	2	0	0	0	2	10	13	3	0	0
	1730	,,	1003·1	1001·4	..	32 0	25·8	22·9	27·9	59	..	6·7	..	15·7	0	7	23	1	0	2	8	11	4	4	0	0	0
	2330	,,	1005·8	1004·1	..	26 4	25·2	23 7	29·3	76	..	5·1	..	13·9	0	8	21	0	0	0	2	13	9	5	0	1	0
Vellore	0530	214	1005·6	981·5	..	25·9	23·2	21·8	26·1	79	..	5·9	..	3.0	0	0	21	0	0	0	0	2	4	15	0	9	0
	0830	,,	1006·8	982·9	+0·9	28·0	24·8	21·7	25·9	69	+6	5·9	+1·9	6·5	0	0	29	1	0	0	0	0	9	19	0	1	0
	1130	,,	1005·9	982·3	..	31·0	25·1	22·0	26·4	57	..	6·3	..	9·7	0	1	29	0	0	0	0	0	11	18	1	0	0
	1730	,,	1002·4	978·9	..	31·0	24·9	21·3	25·3	55	..	6·7	..	5·5	0	0	27	0	1	1	2	1	10	12	0	3	0
	2330	,,	1006·1	982·2	..	28·2	23·9	21·8	26·1	69	..	6·0	..	6·2	0	1	23	0	0	1	0	0	11	12	0	6	0
Tambaram (Aerodrome).	0830	29	1006·3	1003·1	..	29·1	25·1	23·3	28·6	71	..	5·8	..	16·6	0	7	23	0	0	0	0	2	12	14	2	0	0
	1730	,,	1003.0	999·8	..	31·9	26·8	24·4	30·5	66	..	6·3	..	18·0	0	11	18	1	1	0	6	13	3	4	1	1	0
Tiruppattur	0830	390	1007·3	964·1	..	26·1	23·0	21·4	25·5	77	..	4·9	..	4.5	0	0	29	18	2	1	1	4	0	3	0	1	0
	1730	,,	1003·2	960·7	..	30·5	24·2	21·0	24·9	58	..	6·3	..	10·7	0	2	28	7	2	3	2	12	0	4	0	0	0
Cuddalore	0530	12	1005·4	1004·1	..	26·5	24·4	23·4	28·8	83	..	5·7	..	6·7	0	1	25	0	0	0	1	8	17	0	0	4	0
	0830	,,	1007·1	1005·8	+1.0	28·8	25·3	23·7	29·3	75	+11	6·1	+1·8	7·1	0	0	28	1	0	0	1	6	19	1	0	2	0
	1130	,,	1006·6	1005·3	..	33·0	26·2	23·1	28·3	57	..	6·0	..	10·0	0	2	27	0	0	1	2	1	20	4	1	1	0
	1730	,,	1003·4	1002·1	..	31·3	26·7	24·8	31·3	71	..	6·2	..	10·1	0	5	24	0	1	1	13	3	9	0	2	1	0
	2330	,,	1006·5	1005·1	..	28·0	25·5	24·5	30·7	82	..	5·7	..	9·6	0	3	23	0	0	0	5	8	11	0	2	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Kallakkurichchi	0830	127	1006·9	992.7	..	29·0	24·9	22·9	27.9	70	..	4.3	..	7.1	0	1	19	0	0	0	2	6	12	0	0	10	0
	1730	,,	1002·9	989·0	..	32·7	26.2	23.2	28.4	59	..	6·0	..	10.7	0	9	21	0	0	2	2	1	21	0	2	2	0
Salem	0530	278	1006·7	975·4	..	24·5	22·1	20·9	24·7	81	..	6·6	..	2·2	0	0	16	0	0	0	1	5	5	5	0	14	0
	0830	,,	1007.9	976·8	+0·8	26·7	22·8	20·8	24·6	71	—3	6·4	+1.5	4·2	0	0	27	0	0	0	0	12	6	8	1	3	0
	1130	,,	1006·7	976·2	..	30·9	23.6	19·9	23·2	53	..	6·5	..	6·6	0	0	27	1	0	0	0	5	11	10	0	3	0
	1730	,,	1003 8	973·3	..	30·7	23·5	19·8	23·1	54	..	7·4	..	6.9	0	0	27	1	0	0	0	3	9	13	1	3	0
	2330	,,	1007·4	976·3	..	26·2	22·6	20·7	24·4	72	..	5·4	..	5·4	0	0	20	0	0	0	0	1	9	10	0	10	0
Coimbatore (Pilamedu)	0530	399	1007·3	962·5	..	22·4	21·6	21·1	25·0	92	..	5·7	..	18·8	0	12	18	0	0	0	0	3	18	9	0	0	0
	0830	,,	1008·3	963·9	..	24·8	22·7	21·6	25·8	83	..	5·9	..	23.6	0	22	7	0	0	0	0	1	20	8	0	1	0
	1130	,,	1007·7	963·7	..	27·5	23·6	21·6	25·8	71	..	5·7	..	33·6	0	28	2	0	0	0	0	6	18	6	0	0	0
	1730	,,	1005·7	961·5	..	25·8	22·6	20·9	24·7	76	..	6·6	..	34·9	0	30	0	0	0	0	0	3	21	6	0	0	0
	2330	,,	1008·4	963·8	.	23·3	21·7	20·9	24·7	86	..	5·6	..	29·5	0	29	1	0	0	0	0	6	21	3	0	0	0
Coimbatore	0830	409	1008·5	962 9	+1·0	24.7	21·9	20·3	23 8	77	—1	7·0	+2·5	16.7	0	8	22	0	0	0	0	12	15	3	0	0	0
	1730	,,	1005·8	960.6	..	25·4	22·5	20·9	24.7	77	..	7·2	..	18.8	0	15	15	0	0	0	0	9	15	6	0	0	0
Nagapattinam	0830	9	1008.1	1006.9	+1·3	29.4	24·3	21.9	26·3	64	+1	6.0	+1·8	13.8	0	3	27	0	0	0	0	2	17	10	1	0	0
	1730	,,	1004.6	1003 5	..	30·7	25.3	22.8	27·7	64	..	5.4	..	20.5	0	17	13	0	1	0	4	10	12	2	1	0	0
Tiruchirappalli	0230	88	1006.3	996.3	..	26.6	23.5	21·9	26.3	76	..	4·8	..	19.6	0	13	16	0	0	0	0	0	6	22	1	1	0
	0530	,,	1006·6	996.7	..	26·0	23.2	21·8	26.1	78	..	5·8	..	15.7	0	9	21	0	0	0	0	2	5	19	4	0	0
	0830	,,	1008.0	998.1	+1·1	28.2	24.2	22·2	26.7	70	+12	5.7	+1·4	20.0	0	17	13	0	0	0	0	0	6	22	2	0	0
	1130	,,	1007·1	997.4	..	32.1	25.2	22.0	26.4	56	..	5·8	..	25.5	0	20	10	0	0	0	0	2	4	23	1	0	0
	1730	,,	1004.4	994·6	..	32·0	25.1	21.8	26·1	57	..	6·9	..	25·3	0	18	12	0	0	0	1	7	6	15	1	0	0
	2330	,,	1007.3	997·7	..	26.8	23·9	22.3	26·9	75	..	5·4	..	20·8	0	13	17	0	0	0	0	2	9	16	3	0	0
Vedaranniyam	0830	4	1008·5	1008·0	..	29·5	26.9	25·7	33·0	81	..	5·3	..	14·8	0	9	19	0	0	0	0	2	25	1	0	2	0
	1730	,,	1005·2	1004·7	..	29·3	27·3	26·2	34·0	85	..	5·6	..	19·8	0	21	9	0	0	0	1	10	19	0	0	0	0
Atirampattinam	0830	6	1007·8	1007·8	..	28·9	24·5	22·4	27.1	68	..	5·7	..	10·6	0	4	25	0	1	0	0	2	15	6	5	1	0
	1730	,,	1005 0	1004·3	..	29·6	25·7	24·0	29·8	73	..	6·1	..	28·7	0	24	6	0	0	0	0	7	22	1	0	0	0
Madurai	0830	133	1007.9	993.0	+0·8	28·5	23·6	21·2	25·2	65	+8	6·8	+1·6	4·3	0	0	24	0	1	0	1	2	5	0	15	6	0
	1730	,,	1004·7	989·9	..	31·1	23·7	19·9	23·2	53	..	7·6	..	10·6	0	2	28	1	1	2	3	1	14	1	7	0	0
Madurai Aerodrome	0530	130	1006·7	991·8	..	25·2	22·5	21·1	25·0	79	..	5·6	..	3·9	0	0	18	3	0	1	1	6	4	2	1	12	0
	0830	,,	1007.9	993·2	..	28·4	23·4	20·9	24·7	65	..	6·0	..	6·9	0	1	21	2	5	0	1	6	2	5	1	8	0
	1130	,,	1007·2	992·7	..	32·3	24·1	19·8	23·1	49	..	6·1	..	7·5	0	1	19	1	0	0	1	2	6	8	2	10	0
	1730	,,	1004·7	990·2	..	30·8	23·6	19·8	23·1	54	..	6·8	..	17.0	0	12	18	1	0	2	0	6	5	14	1	0	1
Tondi.	0830	5	1008·3	1007·7	..	29·1	24·8	22·9	27·9	70	..	6·0	..	6.0	0	1	16	0	0	0	6	1	9	1	0	13	0
	1730	,,	1005·7	1005·1	..	29·5	25·7	24·0	29·8	73	..	6·1	..	22·3	0	17	13	0	0	0	7	12	10	1	0	0	0
Pamban	0830	11	1008·5	1007·2	+1·3	28·4	25·8	24·7	31·1	81	+6	3·9	+1·0	13·1	0	3	26	0	0	0	0	4	23	2	0	1	0
	1730	,,	1005.9	1004·6	..	28·6	26·4	25·5	32.6	84	..	4·8	..	13·9	0	3	27	0	0	0	2	14	14	0	0	0	0
Tuticorin	0830	4	1008·9	1008·5	+1·3	29·6	24·5	22·0	26.4	64	+4	4·3	+0.1	13.4	0	5	25	0	0	0	0	4	11	15	0	0	0
	1730	,,	1006·0	1005.6	..	31.1	24·5	21·2	25.2	57	..	6.0	..	22.3	0	19	11	0	0	0	1	4	9	15	1	0	0
Palayankottai	0830	51	1008.7	1003·0	+1·5	29·6	24.3	21·8	26·1	63	+6	5·3	+0·4	4·6	0	0	22	1	0	0	0	0	1	18	2	8	0
	1730	,,	1006.2	1000.5	..	30·3	24.0	20.9	24.7	59	..	6.2	..	13.2	0	8	22	0	0	0	0	0	4	23	3	0	0
Kanniyakumari	0830	37	1009.5	1005·3	..	26.4	24·5	23·7	29.3	85	..	5.6	..	17.6	0	11	19	0	0	0	0	0	2	24	4	0	0
	1730	,,	1007·6	1003·5	..	26·8	24·5	23·4	28·8	82	..	6.1	..	19.9	0	17	13	0	0	0	0	0	3	27	0	0	0
Coastal Mysore																											
Karwar	0830	4	1007·8	1007·3	+0·9	25·6	24·5	24·0	29·8	11	+3	6·9	—0·1	8·2	0	2	23	0	1	6	5	3	1	2	1	5	6
	1730	,,	1006·0	1005·5	..	26·2	25·1	24·4	30·5	86	..	6·9	..	10·7	0	3	27	1	0	0	4	5	7	7	5	0	1
Honavar	0830	26	1008·4	1005·5	+0·5	24·6	23·4	23·0	28·1	92	+3	7·4	+0·6	5.1	0	0	29	1	9	10	1	4	2	2	0	1	0
	1730	,,	1006·6	1003·7	..	26·6	24·8	24·1	30·0	87	..	7·5	..	7.9	0	1	28	0	2	0	2	8	8	5	4	1	0
Mangalore (Bajpe)	0230	102	1007.6	995·9	..	23·9	23·4	23·1	28·3	95	..	6·6	..	8·7	0	4	21	0	1	8	6	2	4	4	0	5	0
	0530	,,	1007.5	995·9	..	23·7	23·2	22.9	27·9	95	..	7·2	..	9.5	0	2	28	0	0	9	10	1	4	1	5	0	0
	0830	,,	1009.0	997·4	..	24·7	23·8	23·4	28·8	92	..	7.1	..	8.6	0	1	27	1	1	6	13	0	5	2	0	2	0
	1130	,,	1009·0	997·5	..	26·7	24·7	23·8	29·5	85	..	7·3	..	8·9	0	1	28	0	0	3	7	5	7	6	1	1	0
	1730	,,	1006·9	995·4	..	26·2	24·3	23·5	28·9	85	..	7.7	..	11·1	0	2	28	0	2	0	3	4	10	9	2	0	0
	2330	,,	1009.1	997·5	..	24·3	23·6	23·3	28·6	94	..	7·3	..	8·5	0	2	22	0	1	4	6	2	5	5	1	6	0
Mangalore	0830	22	1009.0	1006·5	+0·7	25·6	24·3	23·7	29·3	89	+2	6·7	—0.1	3·3	0	0	30	1	3	14	6	0	4	2	0	0	0
	1730	,,	1007·0	1004·5	..	27·3	25·0	23.9	29·7	82	..	7·5	..	7·3	0	0	30	0	0	2	2	3	10	9	3	0	1

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)																											
Bidar	0830	664	1004·6	931·7	..	23·7	21·5	20·4	24·0	82	+11	6·0	+1.4	23·8	0	22	8	0	1	0	0	1	19	7	2	0	0
	1730	,,	1000.0	928.5	..	28·2	22·2	19.1	22·1	61	..	6·6	..	18·0	0	15	15	0	1	0	1	1	15	6	6	0	0
Gulbarga	0830	458	1005·8	955·0	+0·7	25·2	22·4	20·0	24·9	78	+7	6·5	+1.7	12.7	0	1	28	0	0	0	0	3	5	20	1	1	0
	1730	,,	1001·0	951·1	..	29·8	23·2	21·0	23·4	59	..	7·7	..	14·3	0	5	25	2	0	1	0	2	4	15	6	0	0
Bijapur	0830	594	1006.1	940·6	+0.6	24·1	21·8	20·7	24·4	81	+8	7·0	+2.0	9·1	0	0	30	2	0	0	0	2	5	20	1	0	0
	1730	,,	1001.4	936·8	..	29·0	22·4	19·2	22.2	58	..	7·2	..	7·7	0	0	30	0	0	0	1	0	3	25	1	0	0
Raichur	0830	400	1006·1	961·7	+0.6	25·5	22·8	21·6	25·8	80	+11	6·2	+2·2	10.6	0	1	28	0	3	0	0	0	11	11	4	1	0
	1730	,,	1001.4	958.0	..	30·4	24·3	21·0	24·9	61	..	7·1	..	11·5	0	4	25	0	1	0	4	1	7	5	11	1	0
Belgaum	0830	753	1006.7	924.3	+0·3	22.0	21·0	20·5	24·1	91	+8	7.4	+1·0	9·2	0	1	29	0	0	0	0	0	0	29	1	0	0
	1730	,,	1004.0	922.3	..	24.4	21.8	20·5	24.1	79	..	7.4	..	12.8	0	1	29	0	0	0	0	0	1	28	1	0	0
Belgaum (Samra)	0530	747	1006·4	923.9	..	20·5	19·9	19.6	22·8	94	..	7·2	..	12·8	0	3	23	0	0	0	1	1	6	17	1	4	0
	0830	,,	1007·0	925·1	..	22·6	20·9	20·1	23·5	86	..	7·3	..	16·0	0	4	26	1	0	0	0	0	9	18	2	0	0
	1130	,,	1006·3	925·1	..	25·3	21·6	19·7	22·9	72	..	7·2	..	19·4	0	8	22	1	0	0	0	0	5	20	4	0	0
	1730	,,	1004.4	923.1	..	24.4	21·3	19·8	23·1	76	..	6·9	..	17·8	0	3	27	0	0	0	0	0	5	22	3	0	0
Gadag	0530	649	1006.2	934.3	..	21.5	20·9	20·5	24·1	94	..	6·9	..	10·7	0	2	26	0	0	0	0	0	8	20	0	2	0
	0830	,,	1007·4	935·7	+0.5	24·1	21·8	20·7	24·4	81	0	7·3	+1.9	10.9	0	2	26	0	0	0	0	0	12	16	0	2	0
	1130	,,	1006·0	935·5	..	27.5	22·5	20·1	23·5	64	..	7·1	..	13·0	0	5	25	0	0	0	0	1	9	18	2	0	0
Interior Mysore (South)	1730	,,	1003·9	933.5	..	26·8	22·4	20·2	23·7	69	..	6·7	..	17·0	0	14	16	0	0	0	0	1	16	12	1	0	0
	2330	,,	1007.4	935·6	..	22·5	21·4	20·8	24.6	91	..	6.1	..	16·1	0	10	20	0	0	0	0	0	13	17	0	0	0
Bellary	0830	449	1006·5	956.9	+0.7	26·3	23·3	21·8	26·1	77	+16	5·3	0	9·5	0	1	29	0	0	0	0	0	6	8	16	0	0
	1730	,,	1001·7	953.1	..	30·9	25·7	23·4	28·8	65	..	5·6	..	11·1	0	2	27	0	0	0	0	0	6	6	17	1	0
Chitradurg	0830	733	1007·1	926.6	+0·5	22·3	20·4	19·4	22·5	84	+7	6·1	−0.1	8.5	0	0	30	0	0	0	0	1	15	14	0	0	0
	1730	,,	1003·4	924·3	..	26·5	21·3	18·7	21·6	63	..	6·3	..	9·1	0	0	30	0	0	0	0	0	10	20	0	0	0
Shimoga	0830	571	1017·6	944.5	+0·6	23·7	21.7	20·7	24.4	83	0	7·6	+1·1	6·5	0	1	27	0	0	0	0	4	18	3	3	2	0
	1730	,,	1004.7	942.1	..	25.4	22.1	20.6	24.3	75	..	8.0	..	7.4	0	0	28	0	0	0	0	7	21	0	0	2	0
Balehonnur	0830	890	..	..	..	19.9	19.4	19.0	22.0	95	+3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1488.1	903·8	..	20.6	19.6	19.1	22.1	91	+9	7.2	+1·0	6.3	0	1	29	0	0	0	0	0	9	21	0	0	0
	1730	,,	1471·4	901·8	..	22·7	20.3	19·2	22·2	81	..	7·0	..	4.8	0	0	29	0	0	0	0	0	5	24	0	1	0
Bangalore	0230	921	1472·3	906.4	..	20·4	19·4	18·9	21·8	91	..	6·3	..	12.5	0	1	29	0	0	0	0	0	13	17	0	0	0
	0830	,,	1487.4	907.8	+0.7	21·2	19·7	18·9	21·8	86	+6	7·4	+1.1	14·2	0	5	25	0	0	0	0	0	11	16	3	0	0
	1130	,,	1492.	907·6	..	25·2	20.8	18.4	21·1	66	..	7·2	..	17·7	0	9	21	0	0	0	0	0	8	20	2	0	0
	1730	,,	1470.1	905.2	..	25·5	20·6	18·0	20·6	65	..	7.6	..	17·3	0	9	21	0	0	0	0	0	5	21	4	0	0
Bangalore Aerodrome	0530	897	1470·8	908·9	..	20·1	19·6	19·4	22·5	95	..	7.3	..	17·7	0	9	21	0	0	0	0	0	10	20	0	0	0
	0830	,,	1486·7	910·2	..	21·7	20·4	19·7	22·9	88	..	7.1	..	21.4	0	16	14	0	0	0	0	0	8	22	0	0	0
	1130	,,	1491·7	910·0	..	25·6	22·0	20·2	23·7	72	..	6.9	..	23·6	0	20	10	1	0	0	0	0	9	20	0	0	0
	1730	,,	1469·4	907·7	..	25·4	21·9	20·1	23·7	75	..	7·3	..	24·9	0	22	8	1	1	0	0	0	8	20	0	0	0
	2330	,,	1485·3	910·1	..	21·5	20·4	19·2	23·2	91	..	6·2	..	20.7	0	14	16	0	0	0	0	0	14	16	0	0	0
Mysore	0830	767	1009·0	924·9	+1.2	22·7	20·5	19·5	22·7	82	+4	6·0	−0.2	5·1	0	0	27	0	1	11	0	0	2	12	1	3	0
	1730	,,	1005.1	922·3	..	26·5	21·7	19·2	22·2	61	..	6.5	..	5·2	0	0	25	0	0	8	0	0	2	14	1	5	0
Kerala.																											
Calicut	0530	5	1008.4	1007·8	..	24·4	23·7	23·4	28·8	94	..	7·2	..	14.5	0	6	24	0	7	14	3	0	2	3	1	0	0
	0830	,,	1009.9	1009·3	+1.0	25·5	24·4	23·9	29·7	91	+2	6·4	−0·4	9·7	0	3	23	1	7	9	3	0	2	3	1	4	0
	1130	,,	1010.1	1009·5	..	26·5	24·8	24·0	29·8	86	..	7·0	..	16·5	0	9	20	3	2	3	0	3	9	5	4	1	0
	1730	,,	1008·1	1007·5	..	26.5	24·8	24·0	29·8	86	..	7·1	..	13.2	0	2	26	3	2	1	0	1	9	7	5	2	0
	2330	,,	1010·2	1009·5	..	25·2	24·1	23·6	29·1	91	..	7·3	..	13·4	0	7	22	0	11	6	1	0	3	6	2	1	0
Palghat	0830	97	1009·7	998.6	..	24·7	23·7	23·3	28·6	92	..	7.1	..	9·7	0	0	30	0	0	0	0	0	4	23	3	0	0
	1730	,,	1007·5	996·4	..	25·7	24·0	23·1	28·3	86	..	7·4	..	11·5	0	0	30	0	0	0	0	0	9	18	3	0	0
Fort Cochin	0830	3	1010.1	1009.8	+0.3	26.3	24.9	24.3	30.4	89	+3	7.2	+0.8	5.2	0	0	26	0	2	6	7	1	4	5	1	4	0
	1730	,,	1007.9	1007.6	..	26.6	24·9	24.1	30·0	87	..	7.5	..	7.0	0	0	26	0	1	0	1	1	6	12	5	4	0
Cochin (Naval Air Station)	0230	3	1009.0	1008.7	..	24.9	24·1	23·8	29·5	94	..	7·0	..	6·0	0	0	19	1	0	7	3	2	3	2	1	11	0
	0530	,,	1009.0	1008.7	..	24·7	24·0	23·6	29·1	94	..	6·9	..	6·3	0	1	18	2	0	7	2	2	2	3	1	11	0
	0830	,,	1010.2	1009.9	..	25·9	24.5	23.9	29.7	89	..	7.4	..	7.6	0	2	24	1	0	8	4	2	3	7	1	4	0
	1130	,,	1010.5	1010.2	..	27·5	25.1	24.0	29.8	82	..	7.3	..	8.4	0	1	22	0	0	0	2	5	9	6	1	7	0
	1730	,,	1008·4	1008.1	..	26.8	24.7	23.8	29.5	84	..	7.3	..	10.8	0	2	24	0	0	0	1	3	9	10	3	4	0
	2330	,,	1010.4	1010.1	..	25.5	24.5	24.0	29.8	91	..	7.1	..	8.6	0	5	14	1	0	4	4	1	2	5	2	11	0
Alleppey	0830	4	1010·6	1010.2	+1.4	25.7	24.8	24.4	30.5	92	+3	7.4	+0.3	16.2	0	9	21	0	9	1	4	0	2	5	9	0	0
	1750	,,	1007.8	1007.4	..	26.7	25.8	24.4	30·5	87	..	7.2	..	17.1	0	11	19	2	4	0	1	0	2	8	13	0	0

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1010·1	1006·3	..	24·7	24·1	23·8	29·5	94	..	7·3	..	2·0	0	0	15	4	1	3	3	0	1	1	2	15	0
	1730	,,	1008·2	1004·4	..	26·7	24·5	23·6	29·1	84	..	7·2	..	5·3	0	0	25	2	0	0	0	2	11	4	6	5	0
Trivandrum	0230	64	1008.9	1001.6	..	24·1	23·6	23·3	28·6	95	..	6·4	..	7·9	0	0	29	9	3	3	0	0	2	5	7	1	0
	0530	,,	1009.0	1001·6	..	23·9	23·4	23·1	28·3	95	..	6·5	..	6·8	0	1	27	5	2	2	0	1	2	8	8	2	0
	0830	,,	1010·4	1003·1	+0·9	25·4	24·2	23·7	29·3	91	+5	6·5	−0·1	6.1	0	1	29	5	4	0	3	1	2	5	10	0	0
	1130	,,	1010·4	1003·1	..	27·0	24·7	23·7	29·3	83	..	6·8	..	9.9	0	3	27	3	1	0	1	0	2	11	12	0	0
	1730	,,	1008·3	1001·0	..	26·3	24·3	23·4	28·8	84	..	6·5	..	9·7	0	2	28	2	0	0	1	0	2	6	19	0	0
	2330	,,	1010·5	1003·1	..	24·4	23·8	23·5	28·9	95	..	6·6	..	6·6	0	2	26	6	3	1	0	0	2	4	12	2	0
Trivandrum Aerodrome	0830	8	1010·3	1009·0	..	26·2	24·7	24·0	29·8	88	..	6.4	..	4·7	0	0	20	4	1	0	0	0	2	5	7	10	1
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1387·1	796·1	+0·6	20·5	15·7	12·3	14·3	63	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1369·0	795·0	..	23·2	16·8	12·3	14·3	55	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dharamsala	0830	1211	..	..	..	26·7	20·4	16·9	19·3	58	+9	3·5	+1·6	4·1	0	0	30	2	8	5	1	1	8	2	3	0	0
	1730	,,	..	..	..	27·9	20·4	15·7	18·4	51	..	5·1	..	5·2	0	0	30	0	6	2	4	1	11	2	4	0	0
Simla	0830	2202	1440·0	778.7	+0·5	19·2	15·1	12·0	14·0	66	+11	3·9	+0·4	2·9	0	0	29	2	5	4	6	3	5	2	2	1	0
	1730	,,	1418·7	777·3	..	21·4	16·5	13·5	15.5	63	..	4.9	..	3·0	0	0	30	5	3	0	2	5	6	0	9	0	0
Lokpal	0830	..	..	..	..	2·4	1·1	−0·5	5·6	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830									Closed during Winter Months.																	
Joshimath	0830	..	..	..	..	21·0	17·4	15·4	17·7	72	..	4·9	..	3·6	0	0	29	4	6	8	1	1	2	5	2	1	0
	1730	..	..	..	..	23·6	17·8	14·4	16·7	59	..	7·2	..	4·2	0	0	30	3	3	5	4	2	5	5	3	0	0
Mussoorie	0830	2042	1431·2	792·5	−0·9	19·9	16·6	14·2	17·0	73	+5	4·6	+0·6	0·3	0	0	3	0	0	0	1	1	1	0	0	27	0
	1730	,,	1410·5	790·9	..	20.6	17·3	15·2	17·7	73	..	5·5	..	1·6	0	0	15	1	1	0	4	6	3	0	0	15	0
Mukteswar (Kumaun)	0830	2311	3112·7	769·6	+0·5	17·7	14·8	12.7	14·8	76	+8	4·3	+0.2	11·9	0	3	25	0	2	2	1	1	1	12	9	2	0
	1730	,,	3097·6	767·6	..	20·2	16·5	14·3	16·3	71	..	4·7	..	18·0	0	15	15	0	1	2	0	0	1	13	10	3	0
Nainital	0830	1953	1435·3	800·8	+0·6	20·1	16·5	14·3	16·4	72	+9	4·6	+0.5	6·3	0	0	25	0	9	4	4	0	0	4	4	5	0
	1730	,,	1410·3	798·9	..	21·2	17.9	15·9	18·3	74	..	4·1	..	9·6	0	1	25	4	0	5	3	1	1	10	2	4	0
Walong (R)	0830																										
(R)	1730																										
Kalimpong	0830	1209	1488.6	878.0	+4·7	22.1	19.9	18.9	21·8	82	−6	1·9	−4·3	3·1	0	0	30	1	0	1	4	0	0	2	22	0	0
	1730	,,	1488·3	878·0	..	22·3	20·0	18·7	21·6	81	..	2·1	..	3·1	0	0	30	0	2	1	26	0	0	0	1	0	0
Darjeeling	0830	2128	1473·2	788·1	+3·0	17·1	16·4	16·0	18·3	93	+5	7·6	+0·7	1·5	0	0	7	0	2	0	0	0	0	0	0	23	5
	1730	,,	1450·1	786·0	..	17.4	16·7	16·1	18·4	93	..	7·4	..	0·7	0	0	4	0	0	0	1	0	0	1	0	26	2
Kohima	0830	1406	1528·3	861·9	..	21·2	19·6	18·8	21·7	86	..	7·1	..	..	..	..	..	6	1	6	4	0	0	2	11	0	0
	1730	,,	1458·1	855·6	..	21·5	20·1	19·4	22·5	88	..	6·5	..	..	..	..	..	7	3	2	1	0	0	0	17	0	0
Shillong	0830	1500	1453.3	845·7	+0·8	21·2	18.8	17 4	20·0	80	+2	7·0	+0·4	0·7	0	0	6	0	1	0	1	2	2	0	0	24	0
	1730	,,	1427.3	843·2	..	21·0	19·3	18·4	21·0	85	..	7·7	..	0·2	0	0	1	0	0	0	0	0	1	0	0	29	0
Cherrapunji (R)	0830	1313																									
(R)	1730	,,																									
Abu	0830	1195	1439·7	874·5	−0·5	20·8	18·9	17·7	20·5	85	+14	5·5	+1·0	6·0	0	0	25	0	1	0	2	11	9	1	1	5	0
	1730	,,	1428.8	873·0	..	26·2	20·6	17·4	20·1	62	..	5·6	..	5·4	0	1	24	0	0	0	1	12	11	1	0	5	0
Aijal	0830	..	..	..	..	22·2	20·8	20·1	23·5	89	..	6·9	..	3·7	0	0	29	1	1	8	5	5	3	3	3	1	0
	1730	..	..	..	..	22·9	21·5	20·8	24·6	89	..	7·0	..	3·2	0	0	30	5	0	4	0	8	5	8	0	0	0
Pachmarhi	0830	1075	1461·3	888·6	+1·1	24.1	20·8	19·1	22·1	75	+7	4·4	−0·5	8·5	0	0	29	1	0	0	0	3	1	11	13	1	0
	1730	,,	1437.0	885·6	..	28·6	21·8	18·3	21·2	56	..	5·2	..	5·3	0	0	26	0	3	0	2	2	1	9	9	4	0
Mahabaleshwar	0830	1382	1471·6	859·1	−0·4	18·1	17·8	17·7	20·2	97	+3	7·7	+0·6	10·2	0	0	30	1	1	1	0	0	10	13	4	0	0
	1730	,,	1452·9	857·2	..	18·9	18·5	18·3	21·0	96	..	7·8	..	10·4	0	0	30	0	1	0	0	0	19	1	9	0	0

*Data given as added in December 1961, issue.

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in mil libars: At mean sea level or hight in g. p. m. of nearest standard isobaric level	Mean pressure in mil libars: At station level	Mean pressure in mil libars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill stations excluding Kashmir — *contd.*																											
Mercara	0830	1152	1490·9	884·4	+0·9	18·7	18·4	18·2	20·9	97	+4	6·7	−0·3	5·8	0	0	30	0	0	0	0	0	0	16	14	0	0
	1730	,,	1475·8	882·8	..	19·5	18·8	18·5	21·3	94	..	6·7	..	7·4	0	0	30	0	0	1	0	0	0	17	12	0	0
Ootacamund	0830	2249	1493·3	778·4	+0·8	13·9	12·9	12·3	14·3	90	+6	5·8	−0·4	5·3	0	0	29	0	0	1	0	0	15	12	1	1	0
	1730	,,	1477·5	777·0	..	14·6	13·1	12·1	14·1	82	..	7·7	..	7·5	0	0	27	0	0	1	0	1	14	10	1	3	0
Coonoor	0830	1747	1480·5	824·6	..	19·7	16·2	14·1	15·9	70	+6	5·7	0	3·5	0	0	29	0	1	0	9	0	14	0	5	1	0
Kodaikanal	0830	2243	3140·5	770·1	+1·0	14·5	12·3	10·7	12·9	80	+8	6·6	+1·4	16·7	0	12	16	1	0	0	1	1	4	13	8	2	0
	1130	,,	3149·8	770·4	..	16·8	14·1	12·2	14·2	76	..	7·4	..	16·3	0	8	21	1	1	0	1	2	1	11	12	1	0
	1730	,,	3124·4	768·7	..	14·2	13·0	12·2	14·2	89	..	8·9	..	16·6	0	12	14	0	0	0	0	1	2	16	7	4	0
Nepal																											
Katmandu	0830	1324	1438·5	861·4	..	22·5	20·3	19·1	22·2	81	..	6·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	,,	1434·5	860·9	..	25·4	21·1	18·9	21·8	68	..	6·2	..	0·2	0	0	2	1	0	0	1	0	0	0	0	28	0
	1730	,,	1409·8	858·5	..	24·5	21·3	19·8	22·9	76	..	6·5	..	0·4	0	0	4	0	0	0	1	0	1	1	1	26	0
Sikkim																											
Lachen	0830	..	..	..	..	16·0	14·7	13·9	15·9	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	29·2	24·1	21·7	26·1	67	..	5·0	..	..	1	0	27	1	1	6	4	0	0	12	3	2	1
	1730	..	..	..	..	30·2	24·5	21·6	25·9	62	..	5·4	..	..	1	0	23	4	1	5	5	1	0	3	5	6	0
Hazaribagh	0830	615	999·3	932·8	..	27·3	23·5	21·6	25·8	74	..	6·0	..	..	1	0	28	2	1	3	3	1	4	10	5	1	0
	1730	,,	996·2	930·0	..	28·0	24·1	22·3	27·3	73	..	6·6	..	..	1	0	18	1	1	2	1	1	5	4	4	11	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6·1	..	..	0	8	22	0	0	7	6	0	3	6	8	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·5	..	..	1	7	22	1	0	7	6	2	2	3	9	0	0
Bokaro	0830	242	1000·2	973·5	..	29·4	25·1	23·3	28·1	71	..	6·5	..	..	0	1	22	1	0	7	3	1	2	9	0	7	0
	1730	,,	995·8	969·5	..	31·7	26·2	23·6	29·3	66	..	6·7	..	..	0	1	18	0	0	6	2	1	1	6	3	11	0
Maithon*	0830																										
	1730																										
Ramgarh	0830	..	..	..	..	29·1	25·1	22·8	29·0	71	..	5·4	..	4·0	0	0	26	2	3	3	0	1	2	8	7	4	0
	1730	..	..	..	..	30·0	25·3	23·2	28·3	69	..	5·8	..	3·8	0	0	22	1	6	3	1	1	1	3	6	8	0
Panchet Hills	0830	..	..	..	..	29·8	25·8	24·2	30·1	73	..	6·4	..	6·0	0	0	27	0	2	9	1	1	11	3	0	3	0
	1730	..	..	..	..	29·9	25·7	24·0	29·9	71	..	7·3	..	6·9	0	0	24	2	1	12	0	1	4	1	3	6	0
Durgapur	0830	..	..	..	..	28·5	26·2	25·3	32·7	87	..	5·9	..	..	0	0	30	2	2	1	4	17	2	2	0	9	0
	1730	..	..	..	..	31·0	26·9	24·9	32·5	73	..	6·1	..	..	0	0	30	1	2	2	7	12	2	2	2	0	[illegible]
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	26·9	24·1	22·9	27·7	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1001·3	983·8	..	28·6	24·9	23·2	28·6	74	..	6·1	..	8·4	0	0	29	0	2	2	1	2	14	7	1	1	0
	1730	..	997·8	980·3	..	31·2	25·6	22·9	28·1	65	..	6·2	..	7·7	0	0	25	1	0	2	2	2	10	5	3	5	0
Bhimkund	0830	..	..	..	..	27·9	23·8	21·9	26·3	77	..	5·2	..	1·1	0	0	11	2	4	0	1	0	3	0	1	19	0
	1730	..	..	..	..	29·2	24·7	22·7	27·4	68	..	5·0	..	1·5	0	0	13	0	2	1	1	1	3	3	2	17	0
Sonepur	0830	..	..	..	..	28·4	25·1	23·4	29·1	76	..	..	..	11·0	0	0	30	0	0	4	0	0	26	0	0	0	0
Khijrawan	0830	..	..	..	..	28·4	23·8	21·6	25·6	69	..	6·8	..	6·5	0	0	29	1	0	2	1	3	7	15	0	1	0
	1730	..	..	..	..	29·7	24·1	21·2	25·3	62	..	6·8	..	4·9	0	0	30	2	2	1	1	3	10	10	1	0	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	30·0	23·8	20·7	24·4	59	..	3·2	..	13·6	0	0	30	0	0	0	0	3	12	14	1	0	0
	1730	..	..	..	..	33·6	24·3	19·4	22·7	47	..	3·8	..	11·1	0	1	26	0	3	0	3	1	11	7	2	3	0
Punasa	0830	..	..	..	..	29·4	24·5	22·3	26·6	67	..	..	..	11·6	0	0	29	2	0	0	2	1	9	16	1	1	0
	1730	..	..	..	..	35·1	25·3	20·2	24·1	45	..	..	..	10·6	0	2	24	1	1	1	1	1	9	11	1	4	0
Thikri	0830	..	..	..	..	28·7	25·1	23·6	29·5	74	..	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi*	0830																										
	1730																										
Ganga Catchment																											
Mukhim	0830	..	..	..	..	20·7	16·9	14·6	16·6	71	..	3·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·8	17·2	14·5	16·5	66	..	5·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	28·2	21·8	18·4	21·1	57	..	3·4	..	1·3	0	0	12	2	7	0	1	1	0	1	0	18	0
	1130	..	..	..	..	33·8	23·0	17·3	20·1	39	..	3·5	..	3·9	0	0	27	4	3	4	1	7	4	2	2	3	0
	1730	..	..	..	..	33·6	22·6	16·5	18·	39	..	4·7	..	7·9	0	0	29	1	3	2	3	6	8	3	1	1	2

*Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mm	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment																											
Jomosom	0830	..	..	..	..	19·7	15·0	12·4	14·4	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·9	14·6	12·1	14·1	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·6	22·6	21·8	26·1	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·5	25·3	25·0	31·7	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	21·2	18·5	17·1	19·5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·4	18·8	17·0	19·4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·3	22·4	21·6	25·6	86	..	6·6	..	3·6	0	0	20	1	0	1	11	5	1	0	1	10	0
	1130	..	..	..	..	26·5	23·2	21·8	25·9	77	..	6·2	..	5·0	0	0	24	1	1	2	15	4	0	0	1	6	0
	1730	..	..	..	..	26·6	23·3	21·9	26·3	76	..	5·8	..	5·3	0	0	25	2	0	6	12	3	2	0	0	5	0
Gorkha *	0830																										
*	1730																										
Nuwakot	0830	..	..	..	..	24·3	22·5	21·7	25·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·6	22·9	21·3	25·3	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari (R)	0830																										
(R)	1730																										
Dandeldhura	0830	..	..	..	..	20·3	17·7	16·3	18·5	78	..	4·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·1	19·0	17·5	20·0	76	..	4·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana	0830	..	..	..	..	21·9	19·2	17·7	20·2	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·9	20·3	18·4	21·1	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·3	25·7	24·1	30·0	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·4	26·6	25·0	31·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment																											
Katmandu†	0830	1324																									
	1130	"																									
	1730	..																									
Kosi Catchment																											
Chautara	0830	..	..	..	..	21·9	19·9	19·3	22·4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·0	20·2	18·9	21·8	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·5	17·9	17·4	19·9	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	18·0	17·5	20·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	0830	..	..	..	..	13·3	11·8	10·9	13·0	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·5	11·7	11·2	13·3	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	22·7	20·5	19·4	22·5	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·1	20·1	19·1	22·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	20·3	19·1	18·5	21·3	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	19·3	18·9	21·8	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·3	19·2	18·6	21·6	90	..	7·0	..	..	..	..	..	3	2	0	0	1	1	2	5	16	0
	1130	..	..	..	..	22·5	20·3	19·3	22·4	83	..	6·6	..	..	..	..	..	3	0	0	1	2	3	6	4	11	0
	1730	..	..	..	..	21·5	19·3	18·2	21·0	82	..	6·5	..	..	..	..	..	0	1	0	1	4	3	5	1	15	0
Okhaldunga	0830	..	..	..	..	19·7	18·6	18·1	20·8	90	..	6·5	..	2·3	0	0	8	0	0	0	1	0	3	4	0	22	0
	1130	..	..	..	..	21·8	19·7	18·7	21·6	84	..	7·1	..	2·4	0	0	14	2	0	0	2	2	1	6	1	16	0
	1730	..	..	..	..	20·0	18·9	18·3	21·0	90	..	6·8	..	3·7	0	0	13	2	0	0	0	1	1	9	0	17	0
Chainpur	0830	..	..	..	..	22·5	21·3	20·7	24·4	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·4	21·3	20·3	23·8	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23·0	21·5	20·7	24·4	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·7	21·3	19·6	22·8	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1001·9	985·6	..	27·4	25·2	24·3	30·4	83	..	6·4	..	3·4	0	0	25	0	1	1	3	1	8	6	5	5	0
	1130	"	1001·2	985·0	..	29·4	26·1	24·6	30·9	76	..	6·7	..	4·9	0	0	28	0	0	0	4	1	20	4	2	2	0
	1730	"	998·3	982·1	..	29·5	26·2	24·7	31·1	77	..	6·4	..	3·0	0	0	23	0	2	0	3	0	14	3	1	7	0
Tista Catchment																											
Gangtok	0830	1812	1439·8	815·3	..	18·5	18·1	17·8	20·5	96	..	7·3	..	0·6	0	0	6	2	1	0	1	0	1	1	0	24	0
	1130	"	1443·1	814·9	..	20·4	19·0	18·4	21·0	89	..	7·1	..	2·2	0	0	17	0	1	1	2	9	4	0	0	13	0
	1730	"	1421·8	812·8	..	19·6	18·6	18·1	20·8	92	..	7·1	..	1·8	0	0	13	1	1	0	6	3	1	1	0	17	0
Gezing	0830	..	..	..	..	20·5	19·7	19·3	22·4	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·4	19·7	18·9	21·8	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data not reliable

†Data included under 'Nepal'.

(R) Register not received.

MONTHLY MEANS OF UPPER WINDS

June, 1961 (*Jyaistha* 11–*Asadha* 9, 1883 *Saka*)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the Table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T)			
1	Agartala	23°53′	91°15′	17	28th November, 1951	0530	1130	1730	2330
2	Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530	1730	2330	
3	Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4	Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5	Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6	Asansol	23°41′	86°59′	135	29th May, 1942	0530	1130	1730	2330
7	Bagdogra	26°38′	88°19′	140	7th June, 1953	0530	1130	1730	2330
8	Bairagarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
9	Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
10	Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
11	Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
12	Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
13	Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
14	Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1130	1730	
15	Bhubaneshwar	20°15′	85°50′	51	5th December, 1942	0530	1130	1730	2330
16	Bhuj	23°15′	69°48′	90	11th September, 1937	0530	1730	2330	
17	Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
18	Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
19	Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
20	Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530	1730		
21	Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
22	Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
23	Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
24	Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
25	Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
26	Gaya	24°45′	84°57′	119	19th March, 1937	0530	1130	1730	2330
27	Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
28	Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
29	Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
30	Imphal	24°51′	93°58′	805	8th March, 1952	0530	1130	1730	2330
31	Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
32	Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
33	Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
34	Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1130	1730	
35	Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
36	Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
37	Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
38	Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
39	Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1130	1730	2330
40	Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
41	Nanpara	27°50′	81°30′	142	23rd April, 1957	0530	1730		
42	New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43	Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44	Port Blair	11°40′	92°43′	93	29th October, 1945	0530*	1130	1730*	2330
45	Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46	Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1130	1730	
47	Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49	Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50	Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51	Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52	Veraval	20°54′	70°22′	17	13th October, 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

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Table IV— Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	AGARTALA																AHMEDABAD							
Time in I. S. T.	0530				1130				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·6	1·8	135	15	3·7	2·6	159	30	2·4	1·4	154	30	2·7	2·1	146	30	2·7	2·2	213	30	5·8	4·8	207
0·15 a.g.	22	5·0	4·0	147	11	4·3	3·8	160	25	4·5	2·5	189	27	6·1	4·6	163	29	5·9	4·8	220	30	7·5	5·7	205
0·3 a.m.s.l.	22	6·4	4·9	171	11	5·3	4·5	169	25	4·5	3·3	187	27	7·0	5·5	175	28	7·0	5·8	226	30	7.7	5.6	204
0·6 ,,	22	7·3	5·3	178	9	7·7	6·2	173	24	5·8	4·0	179	27	8·0	6·7	183	28	8·6	7·5	235	30	7·4	6·2	213
0·9 ,,	22	7·3	5·3	179	8	9·7	8·4	183	24	6·8	4·7	177	25	7·3	5·9	182	25	8·3	7·3	242	29	7·4	6·3	222
1·5 ,,	20	5·5	3·0	178					20	6·1	2·7	174	19	6·2	4·7	185	23	7·9	6·7	230	23	7·1	5·8	225
2·1 ,,	17	4·8	2·0	175					16	4·2	1·8	190	13	3·5	2·2	187	16	7·4	6·1	210	19	7·1	5·0	234
3·0 ,,	15	4·7	1·5	157					13	4·3	2·9	140	7	2·5	0·6	242	8	7·1	2·7	165	14	7·4	2·4	205
3·6 ,,	14	3·6	0·1	132					11	3·9	2.8	127	4	2·9	1·2	202	4	8·6	3·1	073	12	7.5	1·9	189
4·5 ,,	7	2·9	1·1	144					8	3·8	2·7	097									6	7·7	3·0	147
5·4 ,,	6	3·6	1·5	111					8	8·0	4·4	109									4	8·8	2·1	132
6·0 ,,	6	4·6	3·0	140					8	6·2	5·4	099									3	8·0	1·4	224
7·2 ,,	3	9·8	8·5	101					5	6·4	5·6	085									2	9·3	2·1	133
9·0 ,,	1	12·0	12·0	090					3	9·0	8·7	089												

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·4	3·6	219	30	3·2	1·3	121	30	4·0	1·4	329	30	3·2	2·0	096	30	2·5	0·9	123	30	3·2	0·9	282
0.15 a.g.	29	8·1	6·6	218	29	3·4	1·1	102	30	4·6	2·1	336	30	9·4	2·0	105	30	7·6	0·5	118	30	6·6	2·5	287
0.3 a.m.s.l.	29	9·0	7·3	219	29	7·2	1·1	135	30	4·7	1·1	336	30	7·0	1·3	107	30	3·8	0·9	105	30	4·1	1·3	275
0·6 ,,	29	10·2	8·5	224	29	8·7	1·5	229	30	5·3	2·1	320	30	7·2	1·3	116	30	9·0	1·9	219	30	6·4	2·4	280
0·9 ,,	29	9·9	8·4	230	29	8·3	3·0	273	29	6·2	2·3	314	30	6·5	0·2	075	30	9·5	3·2	244	30	6·7	2·6	273
1·5 ,,	26	7·9	5·8	226	28	7·7	4·1	289	27	7·0	8·8	304	28	7·0	2·3	270	29	8·2	3·7	279	28	7·0	3·9	289
2·1 ,,	21	7·8	2·2	220	25	7·6	5·1	298	23	7·1	4·3	304	22	7·1	4·2	293	28	7·7	3·9	302	22	6·9	4·2	283
3·0 ,,	12	8·2	3·9	083	18	6·5	4·1	323	18	7·9	5·6	313	8	6·0	1·8	295	17	7·0	3·1	303	19	7·7	5·0	309
3.6 ,,					13	4·2	1.8	318	15	6·5	4·9	316	1	2·0	2·0	125	13	7·7	3·2	292	14	7·6	4·6	328
4·5 ,,					11	4.1	1·0	214	11	5·5	3·4	327					7	8·8	6·6	326	12	7·8	5·3	321
5·4 ,,					3	2.8	2·2	059	9	4·8	2·4	358					4	7·3	4·8	258	9	6·6	4·7	299
6·0 ,,					3	4·3	3·3	074	8	3·9	0·9	058					3	8·7	7·9	257	6	7·3	6·5	270
7·2 ,,					3	7.3	5.8	119	3	5·2	4·6	113					3	12·0	11·2	269	3	7·0	6·6	252
9·0 ,,									1	5·5	5·5	140									1	6·0	6·0	230

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I.S.T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·2	0·4	170	30	3.7	3.5	263	30	4.7	4.6	267	30	6.0	5.8	264	30	1.6	0.7	179	15	2.5	0.3	114
0.15 a.g. .	30	8.5	2.0	272	30	6.4	6.1	256	30	7.4	7.1	264	28	9.5	9.3	254	28	5.8	2.2	213	14	6.5	1.3	256
0.3 a.m.s.l. .	30	3.4	0.1	240													28	6.2	2.5	224	14	6.5	1.4	252
0.6 ,, .	30	8.7	1.5	294	30	7.7	7.5	255	30	8.1	7.9	260	28	10.3	10.2	253	27	8.3	5.0	249	14	6.5	1.8	290
0.9 ,, .	30	8.3	2.5	341	30	10.6	10.3	264	30	8.4	8.3	263	28	11.7	11.5	258	26	8.6	5.5	265	13	7.6	3.7	284
1.5 ,, .	28	6.5	3.3	294	30	11.3	10.9	275	30	9.0	8.9	266	28	9.9	9.6	269	23	7.7	4.2	282	12	11.5	8.8	281
2.1 ,, .	25	6.5	3.7	308	30	8.6	7.9	277	29	8.4	8.1	269	27	8.6	8.1	271	18	7.1	4.1	322	6	9.7	8.8	276
3·0 ,, .	22	7.0	4.7	313	28	7.0	5.1	277	25	6.7	5.7	270	22	6.8	4.9	276	15	7.2	4.5	334	2	12.3	12.2	302
3.6 ,, .	5	8.3	7.5	304	24	7.5	5.2	268	20	6.7	5.1	267	20	5.9	3.3	276	10	6.1	4.1	337				
4.5 ,, .	2	5.0	2.8	264	21	5.8	3.8	258	18	6·3	4·3	262	13	5·5	3·2	258	3	5·0	3·7	354				
5.4 ,, .					16	5.3	3.3	260	16	5·3	2·9	267	9	3·4	1·6	285	2	4·7	4·5	027				
6.0 ,, .					16	5.5	2.7	261	13	5·0	1·7	285	8	2·8	1·5	302	1	2·5	2·5	040				
7.2 ,, .					8	3.9	0.9	117	10	4·7	2·3	023	2	5·5	5·4	075								
9.0 ,, .					4	7.6	6.8	091	6	8·3	5·4	071												

Station	ASANSOL								BAGHDOGRA															
Time in I.S.T.	1730				2330				0530				1130				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.9	1.2	125	30	1.9	1.1	161	30	2.5	1.6	059	15	4.1	3.7	078	30	2.9	1.9	078	30	2.8	2.3	071
0.15 a.g. .	27	5.5	2.3	141	28	5.7	2.9	185	20	4.5	3.2	069	11	5.6	5.2	077	28	4.0	2.9	091	26	5.0	4.5	081
0.3 a.m.s.l. .	27	5.6	2.4	143	28	5.8	3.1	183	20	4.6	3.4	077	11	5.6	5.2	080	28	4.0	3.0	096	26	4.9	4.4	084
0.6 ,, .	27	6.1	2.1	157	28	6.4	3.6	183	20	5.4	4.6	093	9	7.2	7.2	087	28	4.5	3.4	097	25	5.7	4.2	094
0.9 ,, .	27	6.5	1.5	180	27	6.5	2.9	184	16	6.6	5.6	097	8	9.7	9.7	087	24	5.0	3.3	098	22	5.9	4.4	089
1.5 ,, .	24	7.1	1.7	287	26	6.8	1.2	097	11	5.7	9.5	094	5	10.9	10.8	098	21	5.1	3.8	092	19	6.3	5.7	097
2.1 ,, .	20	7.3	2.3	329	22	6.8	3.0	318	8	5.3	4.9	094	3	11.9	11.9	104	19	5.3	2.3	093	14	5.7	4.6	099
3.0 ,, .	14	6.5	2.1	302	16	7.3	2.8	329	6	3.1	1.8	168	1	7.0	7.0	130	12	4.5	1.8	113	6	3.3	1.6	114
3.6 ,, .	11	5.9	1.7	333	9	4.9	3.7	084	6	2.4	1.9	157					11	4.8	1.2	089	4	1.9	0.9	163
4.5 ,, .	8	6.1	2.5	321	8	6.6	5.0	076	4	3.6	2.7	175					7	2.6	0.3	346	1	1.0	1.0	055
5.4 ,, .	4	2.0	1.7	078	3	3·2	2·8	098	4	3.4	2.1	196					5	2.6	1.7	074				
6.0 ,, .	4	3.3	3.1	245	3	5·2	5·1	095	3	2·7	1.4	149					5	3.1	2.3	110				
7.2 ,, .	1	6·5	6·5	115	1	6·5	6·5	105	3	5·3	3·6	120					1	3.0	3.0	135				
9.0 ,, .									1	7·0	7·0	065					1	4·5	4·5	145				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·3	3·7	262	30	4·9	2·9	260	30	3·7	2·5	240	30	2·6	0·5	146	30	3·5	2·7	251	30	2·3	1·4	219
0·15 a.g.	30	8·3	7·2	262	29	6·9	4·7	246	29	8·2	6·6	242	24	4·6	2·2	176	25	5·2	4·5	241	22	4·4	3·5	219
0·3 a.m.s.l.													24	4·8	3·0	198	25	5·5	4·7	238	22	5·0	4·3	225
0·6 ,,	30	7·0	5·9	261	29	6·3	4·5	249	29	7·9	5.1	236	22	5·5	4·8	243	25	6·0	5·6	250	21	6·4	5·7	240
0·9 ,,	30	11·3	10·0	277	29	6·6	4.5	254	29	9·1	7·7	249	19	5·9	5·3	258	22	7·2	6·8	257	18	6·9	6·3	256
1·5 ,,	30	9·5	7·7	279	29	6·4	3·8	277	29	7·8	5·5	258	15	6·8	6·3	262	17	7·1	6·6	268	13	7·9	7·7	265
2·1 ,,	26	5·7	2·8	256	27	6·7	3·5	277	27	6·1	2·7	265	12	6·6	5·9	259	13	7·3	6·6	269	12	8·8	8·6	262
3·0 ,,	21	5·5	1·2	168	22	6·0	2·1	257	20	4·8	1·4	074	8	6·8	5·4	250	7	8·1	7·6	273	7	6·3	5·7	264
3·6 ,,	18	5·4	1·2	172	17	5·6	0·1	289	2	7·0	6·5	137	6	4·4	1·9	229	6	7·0	6·6	272	6	5·9	3·6	253
4·5 ,,	12	5·8	0·8	164	9	4·9	0·8	291					5	3·2	1·6	127	6	5·7	5·3	253	3	2·7	1·8	138
5·4 ,,	8	6·4	0·9	143	5	6·1	2·5	352					2	4·5	4·5	087	3	4·7	3·4	233	3	4·7	2·9	098
6·0 ,,	3	8·5	4·4	067	4	6·7	4·5	334					2	4·3	4·3	072	2	5·5	5·4	236	3	4·3	2·8	092
7·2 ,,	2	6·3	5·9	099	2	6·0	5·0	348					2	5·7	5·5	086	2	5·3	4·7	194	1	9·5	9·5	100
9·0 ,,	2	8·7	8·7	110	2	4·3	4·0	038					2	13·7	13·5	090	2	5·5	3·1	097				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	0·4	242	30	3·3	1·5	326	30	3·0	1·4	359	30	1·9	0·4	136	30	3·4	3·2	259	30	4·7	4·4	258
0·15 a.g.	30	6·1	2·7	266	30	5·3	2·6	341	30	5·9	2·5	357	30	6·7	1·6	170	17	7·6	7·3	260	25	7·8	7·3	253
0·3 a.m.s.l.	30	6·2	2·8	268	30	5·5	2·5	338	30	6·2	2.8	351	30	7·1	1·5	174								
0·6 ,,	30	7·0	3·7	273	30	6·2	3·0	323	30	5·8	3.1	345	30	7·1	0·7	173								
0·9 ,,	30	7·9	4·9	284	29	6·3	3·5	311	30	5·9	3·1	336	30	6·4	0·8	263								
1·5 ,,	30	7·8	5·0	295	27	7·6	4·6	314	30	6·8	4·3	324	30	5·9	3·0	316	17	11·0	10·3	268	24	8·8	8·4	258
2·1 ,,	29	8·3	5·6	310	25	7·9	5·0	330	30	7·3	4·8	313	26	6·2	4·1	321	14	10·3	9·9	271	17	8·7	8·3	265
3·0 ,,	29	7·7	4·8	330	19	7·9	4·1	320	29	8·1	5·9	307	20	7·2	4·9	316	9	8·1	7·2	268	13	8·9	7·8	268
3·6 ,,	29	7·3	5·0	326	14	6·3	2·1	338	29	8·2	5·7	306	4	5·1	3·9	318	9	6·8	4·8	262	10	8·7	7·3	263
4·5 ,,	29	7·7	4·4	331	8	6·0	3·1	036	29	8·4	4·8	316	1	6·0	6·0	345	8	6·3	4·0	226	9	7·4	5·0	271
5·4 ,,	29	6·3	2·3	354	6	5·5	2·7	065	29	6·9	3·4	330					7	5·5	1·7	236	6	6·5	3·8	269
6·0 ,,	29	5·3	2·0	055	5	5·2	1·1	156	29	6·3	3·1	357					6	5·6	0·8	059	6	5·6	3·3	295
7·2 ,,	28	7·0	4·0	066	4	4·7	1·9	158	29	6·5	2·8	025					6	5·7	3·2	083	5	5·2	3·0	341
9·0 ,,	21	7·0	4·6	074	1	7·5	7·5	080	27	6·3	2·9	080					4	8·9	8·8	081	2	9·7	9·1	088

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.9	3.6	255	30	1.9	1.0	084	30	2.0	0.1	286	30	3.7	3.5	269	30	4.6	3.4	264	30	4.0	3.4	263
0.15 a.g. .	18	8.5	8.4	247	30	7.4	2.7	092	29	5.0	1.1	268	28	7.9	7.5	267	30	6.9	5.0	275	28	7.4	6.6	257
0.3 a.m.s.l. .					30	6.6	2.8	085	29	4.8	1.0	280												
0.6 ,, .					30	9.3	1.8	166	29	6.1	1.8	283	28	6.1	5.8	267	30	6.2	4.2	278	28	6.0	4.9	258
0.9 ,, .					30	9.2	2.2	216	29	5.9	2.4	276	28	11.4	10.7	258	30	7.6	6.1	263	28	9.3	8.5	258
1.5 ,, .	18	11.3	11.2	259	28	8.7	4.3	276	27	6.6	4.6	286	26	11.9	11.3	288	29	7.6	6.3	267	27	9.8	9.1	265
2.1 ,, .	16	8.6	8.2	271	25	8.0	5.0	289	25	8.1	6.2	296	24	7.1	5.8	290	26	6.7	5.4	263	25	8.6	7.4	274
3.0 ,, .	14	6.8	5.6	265	18	7.8	5.8	313	23	8.8	7.1	298	23	5.1	2.6	293	22	7.0	5.4	262	16	6.0	3.5	292
3.6 ,, .	12	6.5	4.9	258	16	6.9	4.7	302	20	6.9	5.2	303	18	5.0	0.4	304	15	6.2	4.4	265	9	3.9	1.6	333
4.5 ,, .	8	5.5	3.7	249	10	4.7	2.2	287	19	5.8	4.1	302	16	4.3	0.9	300	8	5.1	3.0	231	4	4.5	0.3	060
5.4 ,, .	5	3.8	2.1	245	6	3.4	2.1	171	18	5.0	3.1	292	13	2.7	0.7	310	3	3.7	2.5	162	1	3.5	3.5	135
6.0 ,, .	2	4.3	1.3	360	5	3.5	0.5	048	17	4.7	3.0	268	11	3.7	0.8	359	2	4.7	1.3	142	1	2.5	2.5	135
7.2 ,, .	1	10.0	10.0	030	3	5.5	2.3	163	11	5.1	1.5	283	5	4.9	1.8	073	1	7.0	7.0	140				
9.0 ,, .					1	10.5	10.5	145	4	5.5	3.3	196	4	6.3	5.2	060								

Station	BHAGALPUR												BHUBANESHWAR											
Time in I.S.T.	0530				1130				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.7	2.5	088	15	3.6	3.0	094	30	2.7	2.2	085	30	4.4	3.4	234	15	7.7	6.7	237	30	5.5	4.2	229
0.15 a.g. .	22	6.4	4.7	088	10	7.5	6.7	092	26	5.4	4.6	084	25	6.9	4.7	228	14	9.6	8.2	233	29	7.9	5.8	219
0.3 a.m.s.l. .	22	6.9	4.5	095	10	6.1	5.5	097	26	6.5	5.6	090	25	8.4	5.6	249	14	9.3	8.0	237	29	7.6	5.5	229
0.6 ,, .	20	7.0	3.5	112	9	8.5	7.5	113	26	6.4	5.2	115	25	7.9	6.0	264	13	9.3	7.2	251	28	6.4	4.1	247
0.9 ,, .	19	6.6	2.1	154	8	7.9	6.3	126	25	6.5	4.6	130	24	8.2	6.5	274	12	9.7	8.4	266	25	6.5	4.0	284
1.5 ,, .	17	6.1	0.6	296	5	9.2	1.8	215	23	7.3	1.3	190	22	7.4	4.9	281	6	9.3	8.8	293	23	7.0	4.3	308
2.1 ,, .	16	7.0	1.1	303	2	13.7	3.3	182	21	7.7	3.8	288	19	5.9	3.5	306	3	5.5	4.2	322	19	6.2	2.6	321
3.0 ,, .	14	6.6	1.8	312					20	8.7	5.0	304	18	5.4	2.4	340	1	3.0	3.0	245	15	5.7	3.1	021
3.6 ,, .	13	5.0	1.3	348					18	6.8	3.2	311	14	5.5	2.8	001					11	6.7	3.2	051
4.5 ,, .	9	4.7	2.0	096					17	5.9	1.9	334	8	6.6	3.3	047					7	6.0	3.8	061
5.4 ,, .	9	4.5	2.1	105					14	4.9	1.6	050	8	7.0	3.6	079					5	6.9	4.3	087
6.0 ,, .	6	4.0	3.3	066					11	5.5	3.3	065	7	8.2	5.4	079					4	7.0	4.3	056
7.2 ,, .	6	5.7	4.9	077					9	6.7	4.1	086	3	4.6	3.3	075					2	5.7	3.9	029
9.0 ,, .	5	8.7	7.5	082					9	6.3	3.6	076	2	7.0	6.9	103					1	9.5	9.5	040

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·7	4·8	228	30	4·6	4·2	234	30	6·5	5·5	237	30	5·5	5·2	228	30	2·1	1·7	218	30	2·0	1·0	203
0·15 a. g.	24	9·0	7·3	220	28	8·1	7·0	231	29	9·6	8.9	233	28	8.5	8·1	233	30	9·9	8·1	225	30	5·9	3·3	218
0·3 a.m.s.l.	24	8·9	7·1	232	28	8·8	7·6	232	29	9·8	9.1	231	28	8·7	8·3	233	30	6·7	5·2	222	30	4·9	2·4	212
0·6 ,,	24	8·4	6·4	240	28	10·2	9·0	238	29	9·3	8·5	235	28	9·8	9·1	235	30	13·6	11·5	235	30	6·6	3·6	231
0·9 ,,	23	7·1	5·5	249	27	9·4	7·9	241	29	8·8	7·7	240	26	9·0	8·0	231	30	13·5	11.2	235	29	6·9	3·3	227
1·5 ,,	20	5·6	3·6	277	16	6·5	2·4	255	21	7·4	6·1	253	22	5·9	3·0	229	26	9·4	6·2	230	27	6·1	2·9	224
2·1 ,,	14	5·7	1·4	295	8	7·6	1·9	300	13	5·1	3.2	252	21	5·5	0·5	275	24	9·4	2·4	209	20	5·4	1·8	225
3·0 ,,	9	5·6	3·7	089	5	8·3	1·7	346	7	9·8	2·9	224	18	5·9	2·3	013	17	5·0	1·7	102	18	5·7	0·9	285
3·6 ,,	4	9·5	8·3	095					7	6·1	1·9	236	10	7·3	5·7	022	8	5·7	2·4	136	16	4·9	2·3	315
4·5 ,,	2	9·3	8·5	114					6	6·7	2·9	326	6	6·3	4·1	021	1	2·0	2·0	100	14	5·0	2·4	001
5·4 ,,									4	9·1	2·9	304					1	4·0	4·0	085	10	5·3	3·2	315
6·0 ,,									4	8·6	2·1	272									7	7·1	4·5	300
7·2 ,,																								
9·0 ,,																								

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	1·4	211	30	4·1	3·4	267	30	5·4	4·1	277	30	5·2	4·5	267	30	2·0	0·4	245	30	2·6	2·1	254
0·15 a.g.	30	8·9	7.1	219	28	8·3	7·3	272	29	7·6	5·9	269	27	9·1	8·1	260	20	3·9	1·6	227	23	4·2	3·5	260
0.3 a.m.s.l.	30	5.9	4.4	217													20	4·2	2·9	248	23	5·0	4·5	263
0·6 ,,	30	9.6	7.6	221													20	6·1	5·7	261	23	6·8	6·4	268
0·9 ,,	29	8·6	6·7	229	28	9·6	8·6	275	29	8·1	6·5	275	27	10·2	9·3	267	20	7·7	7·3	266	23	8·0	7·6	273
1·5 ,,	27	7·4	4·2	223	26	9·0	8·0	274	28	6·4	4·5	271	26	8·7	7·9	266	17	8·9	8·5	272	20	9·5	9·2	275
2·1 ,,	22	5·8	2·4	224	20	5·1	3·1	228	20	7·9	5·3	269	25	6·2	4·0	260	14	8·2	7·8	277	15	10·6	10·4	281
3·0 ,,	14	6·2	0·5	316	13	3·9	2·5	202	6	6·6	5·0	266	20	5·4	2·3	232	10	9·7	8·6	278	7	10·6	10·4	284
3·6 ,,	2	5·0	2·5	070	2	4·3	4·3	155	4	6·4	4·7	220	13	5·3	2·5	257	4	3·9	3·0	243	5	6·7	6·3	275
4·5 ,,									2	5·7	3.9	149	1	3·5	3·5	170	4	5·4	4.1	237	4	5·1	3·3	255
5·4 ,,									1	9.5	9.5	216					3	5·0	4·4	241	3	3·0	2·8	237
6·0 ,,									1	6·5	6.5	215					3	4·3	3·3	238	3	3·2	3·0	258
7·2 ,,									1	3·5	3·5	220					2	3·7	1·5	175	2	6·0	2·7	244
9·0 ,,																	1	10·0	10·0	065	2	5·7	3·3	060

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

June, 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I. S. T.	2330				0530				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·3	0·9	254	30	0·7	0·7	225	30	0·1	0·1	193	30	0·3	0·2	093	30	2·3	1·6	278	30	1·9	1·0	184
0·15 a.g. .	19	3·3	1·8	235	2	2·0	2·0	208	2	1·0	0·7	172	30	2·0	1·0	105	30	4·2	2·9	278	30	6·2	3·6	196
0·3 a.m.s. . .	19	3.7	2.8	246																	30	6·9	4·2	210
0·6 ,, .	19	5.9	5.4	266																	29	7·8	5·3	220
0·9 ,, .	19	7·3	6·8	269									30	2·0	1·0	116	30	4·3	3·1	275	26	7·4	4·7	230
1·5 ,, .	15	8·8	8·4	278									30	2·5	1·1	257	29	4·1	3·4	269	26	7·6	3·4	248
2·1 ,, .	11	9·0	8·7	281									26	4·4	3·0	287	23	5·3	4·2	274	23	7·7	2·8	228
3·0 ,, .	7	7·6	7·1	280	2	6.3	5.1	254	2	1·0	0·5	045	16	6·7	5·2	308	14	6·9	5·9	297	23	9·7	3·0	243
3·6 ,, .	5	8·1	6·3	277	2	9·0	9.0	274	2	1·3	1·2	360	13	7·4	6·0	305	11	7·1	6·2	301	22	8·8	2·7	236
4·5 ,, .	3	7·5	3·7	257					1	1·0	1·0	360	8	4·9	3·4	301	5	5·5	5·1	307	21	9·0	2·8	200
5·4 ,, .													5	3·5	2·6	173	3	4.2	3·4	316	21	9·1	3·6	185
6·0 ,, .													4	3·5	1·8	177	3	5·2	3·2	300	21	7·1	3·1	182
7·2 ,, .													2	5·5	4·3	164	2	10·5	9.5	264	21	7·7	3·9	164
9·0 ,, .																					17	9·1	4·6	126

Station	DUM DUM												GADAG											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	2·9	1·7	175	30	1·9	1.4	162	30	2·5	1·9	190	30	4·6	4·2	251	30	7·0	6·4	262	30	5·5	5·1	254
0·15 a.g. .	29	5·5	3·3	184	30	5·4	3·4	179	30	6·7	5·2	195	30	8·5	8·3	245	30	11·1	10·5	254	30	10·4	10·2	248
0·3 a.m.s.l. .	29	5·6	3·1	184	30	6·1	4·1	173	30	7.5	5.8	200												
0·6 ,, .	28	5·6	3·3	199	30	6·8	4·5	185	30	7.9	6.1	205												
0·9 ,, .	23	5·9	3·2	232	29	6.6	3.9	196	29	7.3	5.2	209	30	11·6	11·0	260	30	11·0	10·6	257	30	12·1	11·8	255
1·5 ,, .	17	7·3	3·4	260	27	6·6	3.2	203	24	5.9	2.2	245	23	12·5	11·7	273	28	11·2	10·8	264	25	12·2	11.8	266
2·1 ,, .	7	6·1	0·7	336	23	8.2	2·7	230	18	5.7	1.0	233	21	10·3	9·5	271	24	9·3	8·3	266	21	8·5	7·7	268
3·0 ,, .	3	6·5	5·6	326	21	9·0	2·6	225	10	5·3	0·6	137	17	7·4	5·6	277	14	6·5	4·9	273	16	6·4	4·3	252
3·6 ,, .					21	8·5	2·6	230	4	4·0	3·0	125	16	7·1	4·6	277	11	5·5	3·7	271	15	5.9	3.1	249
4.5 ,, .					21	8·5	3·5	188	1	2·5	2·5	115	12	6·5	3·6	277	7	5.0	1·8	290	11	5·1	1·9	237
5·4 ,, .					21	10·1	3·2	161					8	3·7	1·0	229	5	3·5	0·5	204	9	3.5	1·8	161
6·0 ,, .					21	8·2	2·7	150					7	2·4	0·5	251	4	2·6	0·5	191	3	5·2	3·9	107
7·2 ,, .					21	8·2	4.1	137					5	2·9	2·0	138	3	2·3	2·2	275				
9·0 ,, .					20	9.9	6·3	117					4	5·7	5·5	080								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1882 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4.0	3.4	256	30	5.2	3.4	275	30	3.2	1.9	236	30	0.5	0.3	063	30	2.1	1.4	347	30	0.8	0.4	350
0·15 a. g.	28	7.1	6.1	257	30	6.7	4.4	267	26	7.5	5·7	223	30	2.3	1.1	069	29	2.9	1.8	019	30	2.7	0·6	348
0·3 a.m.s.l.	28	8·2	7·4	269	30	6·9	5.0	267	26	8.1	6.2	230	30	2.5	1.1	069	29	2.9	1.5	022	30	2.8	0.6	016
0·6 ,,	27	10.5	9.9	278	30	7.0	5.8	269	26	8.1	6.7	243	30	3.4	0.9	074	27	3.3	1.5	071	30	3.1	0.9	043
0·9 ,,	26	12.1	11.7	284	29	7.1	6.6	277	25	8.4	7.5	254	30	3.6	0.3	057	24	3.2	1.3	126	30	3.1	0.5	310
1·5 ,,	24	10.1	9.3	287	27	7.4	6.4	283	23	8.1	7.3	269	30	4.8	1.4	214	23	4.5	2.2	188	30	4.8	2.1	231
2·1 ,,	23	7.7	6.3	292	25	7.8	6.4	285	21	7.4	6.5	275	30	5.5	2.5	221	18	4.6	2.2	193	30	5.9	3.1	226
3·0 ,,	18	6.2	4.3	299	25	7.7	5.9	281	19	5.3	3.3	285	30	4.8	1.9	226	16	4.0	1.2	138	30	5·7	2.9	233
3·6 ,,	16	5.3	3.0	292	18	5.7	3.5	285	16	4.9	1.5	305	30	5.2	2.3	228	15	4.0	1.2	152	30	5.5	2.8	225
4·5 ,,	10	5.5	2.8	302	15	6.4	4.1	283	11	4.4	1.2	295	30	5.0	2.2	213	14	4.0	1.9	145	30	5·1	2·6	210
5·4 ,,	7	3.4	1.1	037	13	4.7	2.2	315	6	3.5	0.6	217	30	4·6	1.4	195	11	3.7	2.4	127	30	4.5	1.2	217
6·0 ,,	7	4.0	1.6	082	10	4·3	1.7	288	5	3.8	0.9	230	30	4.8	1.2	184	10	3·4	2.6	099	30	4.5	1.6	140
7·2 ,,	2	2.3	1.7	210	7	4·1	1·9	336	3	3.8	1·8	245	30	4.6	1.0	040	7	4.6	4.1	095	29	4.8	1.3	090
9·0 ,,	1	2.5	2.5	080	3	6·0	5·9	045					15	5.0	1.1	106	6	6.7	4.1	128	25	5.0	2.2	265

Station	GAUHATI				GAYA																GOPALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.1	0.3	191	30	2.2	0.7	107	15	5.2	1.0	274	30	3.5	1.1	082	30	3.5	1.5	118	30	3·9	3.2	214
0·15 a.g.	30	2.9	0.5	187	25	5.5	2.1	187	12	6.4	1.3	339	27	4.7	2.1	066	24	6.2	3.3	141	27	6.6	4.9	233
0·3 a.m.s.l.	30	3.2	0.3	264	25	5.9	2.6	211	12	6·3	1.4	345	27	4.8	2.0	066	24	6.0	3.1	149	27	6.7	5.1	248
0·6 ,,	30	3.9	0.5	006	24	7.3	4.0	256	12	6.0	2.0	328	27	5.1	0.8	051	24	6.7	3.2	169	27	7.0	5.1	260
0·9 ,,	29	3.8	0.6	243	24	8.0	3.7	285	11	7.3	2.6	339	27	5.4	0.7	358	24	7.0	1.9	192	26	7.3	5·3	277
1·5 ,,	29	5.1	2.4	218	23	8.1	4.1	302	7	10.1	5.6	297	25	7.0	2.3	318	18	6.0	1.5	289	25	7.2	5.3	290
2·1 ,,	23	5.5	3·2	209	19	7.6	3.5	332	4	11.5	1.9	336	18	7.0	4.8	317	13	5.4	3.3	297	17	5.4	3.6	307
3·0 ,,	18	8.7	3.6	183	14	7.7	4.6	327					12	5.4	3.1	332	8	5.9	5.6	307	13	4.8	2.3	333
3·6 ,,	13	5.4	3·7	205	7	5.3	1.6	062					10	5.7	3.3	328					10	5.3	2.1	349
4·5 ,,	5	3.9	2.5	221	5	3.1	2.3	040					4	5.9	3.4	320					4	5.4	5.1	067
5·4 ,,	4	5.6	3·4	221	3	3.3	3.3	112					2	2.3	1.9	085					3	6.2	5.9	094
6·0 ,,	4	5·4	4.8	193	1	3.5	3.5	173					2	2.7	2.8	115					1	2·0	2·0	070
7·2 ,,	2	7.0	7.0	152									1	6.5	6.5	100					1	8.5	8·5	095
9.0 ,,	1	9.5	9.5	090									1	8.5	8.5	095					1	7.5	7.5	100

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	6.8	5.7	212	30	4.9	4.6	210	30	2.0	1.5	068	30	1.6	0.7	084	30	3.0	2.5	265	30	3.9	1.5	249
0·15 a.g. .	28	8.8	7.2	213	27	8.8	7.9	222	27	5·3	4.4	092	30	4.2	1.7	077	30	6.6	5.0	262	30	5.6	2.8	238
0.3 a.m.s.l. .	29	8.8	6.7	220	28	8.1	7.0	229	27	6.1	5.0	105	30	4.5	2.1	077	30	5.6	4.1	262	30	5.1	2.5	251
0.6 ,, .	29	6.1	3.7	237	28	7.2	5.6	240	27	6.0	4.4	119	29	4.8	2.1	090	30	9.2	7.2	266	30	6.1	3.2	261
0.9 ,, .	28	5.4	3.5	263	25	6.3	4.5	260	24	6.0	1.6	161	29	5.0	1.9	085	30	8.8	7.0	283	30	5.9	3.0	273
1.5 ,, .	23	5.5	3.6	304	26	5.5	3.5	279	22	7.5	3.7	287	28	7.5	1.4	305	30	6.9	4.6	295	30	5.5	3.0	282
2.1 ,, .	19	5.5	4.1	319	22	4.1	2.3	298	21	9.1	5.5	300	27	8.8	3.7	310	27	6.1	2.5	305	29	6.2	3.6	291
3.0 ,, .	17	6.0	2.6	346	15	4.2	1.8	335	18	8.8	5.2	307	24	9.8	6.0	305	25	6.0	2.1	335	29	7.3	3.6	292
3.6 ,, .	10	5.2	0.8	118	4	3.7	2.4	086	13	7.2	4.4	319	22	9.6	6.6	304	19	5.7	1.5	323	25	7.5	3.5	297
4.5 ,, .	7	4.1	1.1	098	1	6.5	6.5	060	6	5.9	3.5	332	14	5.7	4.0	305	18	5.6	1.9	295	19	6.6	1.9	316
5.4 ,, .	6	5.3	1.9	357					3	3.7	1.5	087	12	5.0	2.1	303	16	5.5	0.3	147	14	4.9	1.9	351
6.0 ,, .	6	6.3	2.3	353					2	3.0	2.9	116	8	5.1	1.3	355	16	5.8	1.7	070	12	5.2	1.2	008
7.2 ,, .	1	7.5	7.5	090					2	4.7	4.7	088	2	3.0	1.7	094	13	6.1	4.0	100	10	5.5	2.5	095
9.0 ,, .	1	6.0	6.0	105					1	2.7	2.7	110	2	6.0	1.1	075	12	6.1	4.7	104	7	6.9	4.9	087

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.3	1.1	213	30	0.9	0.4	347	15	1.4	0.2	059	30	1.6	0.2	243	30	1.4	0.5	298	30	1.5	1.5	235
0.15 a.g. .	29	5.9	3.1	231	27	2.0	0.7	016	14	2.0	0.4	097	29	2.8	0.6	210	26	2.5	0.7	329	28	6.5	5.9	254
0.3 a. m.s.l. .	29	5.0	2.6	223																				
0·6 ,, .	29	6.9	3.5	238																	28	7.9	6.9	258
0·9 ,, .	29	6.6	3.4	245	27	1.9	0.7	011	14	1.8	0.2	082	29	2.8	0.4	166	26	2.5	0.9	348	28	10.7	9.8	275
1·5 ,, .	28	5.9	3.2	265	27	3.6	1.6	220	14	5.5	2.4	196	29	3.9	2.2	182	26	3.7	1.4	219	26	10.6	8.7	289
2·1 ,, .	28	5.8	3.1	281	23	6.2	4.0	244	7	7.8	5.8	207	26	4.9	2.7	217	20	2.4	1.4	217	22	7.3	5.0	302
3 0 ,,	24	5·8	3.1	318	14	5.4	3.0	249	4	7.6	4.4	213	15	5.9	3.8	244	13	3.3	1.8	190	19	7.2	2.5	346
3·6 ,, .	9	6.3	5.1	351	7	3.9	0.9	247					11	5.0	3.3	215	7	3.5	2.2	142	11	6.6	1.1	044
4·5 ,, .					5	4.5	1.9	210					9	4.3	1.5	195	4	3.6	3.3	135	9	6.1	2.8	098
5·4 ,, .					4	4.6	2.7	134					8	4.9	1.1	135	4	2.9	2.0	109	6	5.9	4·1	115
6·0 ,, .					2	5.3	5.1	137					7	5.2	2.5	119	3	4.0	3.8	118	6	5.8	3.9	110
7·2 ,, .					1	5.0	5.0	060					6	5.5	3.6	112	1	3.5	3.5	120	3	4.5	4.2	110
9.0 ,, .													4	7.5	7.1	111								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

June 1961 (Jyaistha 11— Asadha 9, 1883 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.4	1.5	246	30	1.7	1.2	215	30	1.3	0.9	218	30	1.3	0.9	236	30	1.3	1.1	207	30	2.1	1.1	284
0.15 a.g.	30	6.2	4.4	257	29	6.4	4.8	231	28	5.4	4.8	222	24	4.5	3.1	229	28	6.0	5.0	227	30	7.6	4.8	272
0.3 a.m.s.l.																								
0.6 ,,	30	6.7	4.8	257	29	6.5	4.9	234	28	2.7	2·3	215	24	2.9	1.9	221	28	3.8	3.1	220	30	8·0	5·8	266
0.9 ,,	30	6.6	4.6	268	28	7.1	5.3	245	28	7.3	6.4	246	24	4.6	3.7	245	28	6.9	5.5	238	29	9.8	7.9	266
1.5 ,,	30	6.7	4.1	297	28	6.9	4.3	268	23	8.0	6.9	270	24	5.1	4.4	279	26	6.5	5.3	258	28	7.7	5.4	266
2.1 ,,	26	5.9	2.9	307	24	5.7	3.3	287	19	7.2	5.8	302	16	5.5	4.5	304	19	4.7	2.9	283	21	5.7	3.6	214
3.0 ,,	18	7.7	3.7	323	15	5.4	1.7	339	19	6.1	4.0	329	14	5.0	2.5	311	14	5.8	2.3	304	14	0.5	0.5	034
3.6 ,,	14	8.0	2.9	341	6	4.7	1.1	008	14	4.5	0.9	355	12	5.4	2.7	303	2	6.3	5.5	333	9	5.0	1.8	068
4.5 ,,	9	8.0	2.3	341					7	5.4	1.6	096	6	3·3	1.4	270					5	6·7	2·5	053
5.4 ,,	3	5·3	3·4	050					3	9.2	5.7	113	1	4·5	4·5	065					5	5.0	3.7	058
6.0 ,,	1	6·5	6·5	140					2	8.5	4·0	064									4	4·1	2.8	069
7.2 ,,																					2	5·5	4.2	225
9.0 ,,																					2	3·0	2.7	105

Station	JAIPUR								JAMSHEDPUR												JHARSUGUDA			
Time in I.S.T.	1730				2330				0530				1130				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4.0	1.7	248	30	2.4	0.4	197	30	1.5	0.4	157	15	3.1	2.2	234	30	2.8	1.0	191	30	2.3	1·6	227
0.15 a.g.	28	5.1	3.4	250	30	7.3	3.3	265	26	4.4	2.6	215	13	7.1	5.7	242	25	5.5	2.2	197	26	5.1	3.7	235
0.3 a.m.s.l.									26	4.5	2.7	217	13	7.1	5·9	246	25	5.5	1.9	207	26	4.4	3.3	233
0.6 ,,	28	5.4	3.2	250	30	7.9	3.5	263	26	6.8	4.5	246	13	8.7	6.9	251	25	6.1	2.5	226	26	7.3	6.2	265
0.9 ,,	28	5.1	3.0	254	30	8.5	4.6	262	24	8.4	6.1	260	13	9.1	6.8	266	25	6.1	2.1	235	25	9.0	7.5	271
1.5 ,,	28	5.2	3.1	261	30	6.2	3.0	262	18	7.5	5.7	295	11	9.9	7.9	311	19	6.8	2.3	332	22	8.6	7.0	280
2.1 ,,	28	6.0	3.3	247	27	6.1	3.2	242	17	7.2	5.0	322	6	8.3	8.1	303	17	8.5	4.4	328	20	7.7	5.5	311
3·0 ,,	19	6.3	1.8	282	19	5.5	2.0	210	13	6.9	5.9	340	1	7.0	7.0	275	10	7.1	4.3	351	14	5.3	3.4	010
3.6 ,,	17	6.6	2.0	276	14	6·2	1·9	045	12	6.3	5·3	355					5	4.7	3.4	343	11	5.3	3.1	040
4.5 ,,	14	7.5	1.4	320	4	3.7	1.7	065	4	4.6	2.2	044					4	4.1	1.5	358	3	3.7	3.0	113
5.4 ,,	10	6.9	2.0	340	1	4.0	4.0	075	2	5.0	4.0	119					2	5.5	2.1	323				
6.0 ,,	8	10.1	4.8	331	1	2.5	2.5	025	2	6.3	6.0	111					1	2.0	2.0	065				
7 2 ,,	6	11.7	4.4	323	1	1.5	1.5	035	2	11.7	6.7	113					1	5.5	5.5	070				
9 0 ,,	4	11.5	7.3	337					1	11·0	11.0	125					1	8·0	8.0	065				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	JHARSUGUDA								JODHPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.4	1.5	230	30	2.4	1.6	217	30	4.7	3.5	231	30	5.0	3.8	218	30	5.5	4.1	230	30	4.3	2.8	208
0.15 a.g. . .	25	4.4	2.9	243	23	5.8	3.8	222	30	7.3	3.2	240	29	7.0	5.7	221	30	5.7	3.8	229	28	9.1	7.3	213
0.3 a.m.s.l. .	25	4.5	2.9	242	23	5.1	3.1	217	30	6.5	4.0	225	29	6.0	5.2	226	30	5.7	4.0	233	28	7.4	5.9	212
0.6 „ .	25	4.6	3.1	259	23	6.3	4.1	240	30	7.7	5.8	224	29	7.4	6.1	217	30	5.4	4.0	218	28	10.1	8.0	216
0.9 „ .	25	5.1	3.5	266	23	6.2	4.1	251	30	8.1	6.3	219	29	8.7	6.5	213	30	5.6	4.5	215	27	10.5	8.5	220
1.5 „ .	23	5.7	3.3	306	23	5.8	3.3	287	30	8.2	5.7	200	23	7.7	5.5	189	30	5.4	4.2	210	24	9.2	7.1	217
2.1 „ .	18	6.2	4.7	312	17	4.6	1.5	286	29	5.7	3.8	185	16	8.2	6.1	202	30	6.2	3.9	202	13	10.2	8.0	207
3.0 „ .	8	4.4	3.2	345	8	6.0	1.0	297	29	6.2	2.5	140	14	7.5	4.1	153	30	5.6	1.9	177	6	6.4	3.6	145
3.6 „ .	2	7.5	7.5	348	3	2.7	0.5	240	29	6.2	3.3	120	12	8.8	4.0	146	30	6.0	1.8	153	3	5.7	5.3	122
4.5 „ .									28	7.7	1.5	110	10	7.5	3.7	103	30	6.5	2.6	127	2	10.0	10.0	057
5.4 „ .									28	7.8	1.5	114	8	8.4	3.9	084	30	6.7	2.0	106	2	13.7	13.7	015
6.0 „									28	8.7	2.7	133	6	6.6	3.1	090	28	6.9	2.0	139	2	9.5	8.9	018
7.2 „ .									27	7.4	3.4	108	2	5.0	4.2	122	28	7.5	1.9	175	1	6.0	6.0	300
9.0 „ .									20	6.8	1.6	152	1	8.5	8.5	160	21	7.0	0.2	358				

Station	MADRAS																MINICOY							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3.4	2.9	242	30	5.1	4.2	258	30	4.4	3.2	187	30	4.3	3.6	199	30	4.0	3.7	250	30	4.7	4.2	261
0.15 a.g. . .	30	9.7	9.1	257	30	6.3	5.7	266	30	8.1	5.1	195	27	9.0	7.9	209	29	8.2	7.8	252	29	9.2	8.4	260
0.3 a.m.s.l. .	30	10.1	9.6	262	30	6.5	5.9	264	30	7.4	5.0	203	27	10.1	8.9	218	29	9.5	9.1	255	29	9.8	9.2	258
0.6 „ .	30	10.4	9.9	271	30	7.1	6.6	265	30	6.2	4.9	228	27	10.9	9.7	253	29	10.1	9.8	257	29	11.0	10.3	260
0.9 „ .	30	11.2	10.7	276	30	8.5	7.8	267	30	6.3	5.6	254	27	10.6	9.5	245	29	10.7	10.5	265	28	11.2	10.7	265
1.5 „ .	30	10.8	10.2	279	29	10.4	9.7	273	30	8.3	7.8	268	27	10.0	9.1	262	28	10.5	10.3	272	28	11.6	11.3	269
2.1 „ .	30	9.3	8.4	277	28	10.8	10.0	274	30	9.9	9.3	277	26	9.7	9.2	274	23	9.3	9.1	274	25	9.9	9.6	267
3.0 „ .	30	9.9	8.4	269	24	10.9	9.8	269	30	10.9	10.1	276	21	8.9	7.7	279	19	7.2	6.5	267	19	8.1	7.6	269
3.6 „ .	30	10.1	8.3	269	22	11.0	9.1	271	30	10.3	9.0	276	11	6.4	3.1	272	16	6.6	5.9	263	15	6.4	5.6	269
4.5 „ .	29	10.1	7.6	267	14	10.5	7.3	282	29	8.8	6.9	274	9	4.4	1.5	262	11	5.7	4.6	263	11	5.8	4.6	263
5.4 „ .	29	8.8	6.7	268	10	5.5	1.9	277	29	7.6	5.7	282	5	2.9	0.6	358	9	5.6	2.8	257	10	5.1	3.2	271
6.0 „ .	29	6.9	4.6	275	9	5.9	1.7	304	29	6.8	4.6	283	3	2.3	1.3	102	6	4.5	4.1	229	8	4.9	1.7	236
7.2 „ .	29	5.1	1.1	264	5	6.3	4.8	116	29	6.3	1.7	298					4	4.4	2.1	185	6	3.9	1.7	098
9.0 „ .	29	7.3	4.4	083	5	6.4	6.4	086	26	6.7	3.3	060					2	9.0	6.7	110	4	10.4	10.3	080

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

June 1961 (Jyaistha 11— Asadha 9, 1883 Saka)

Station	MINICOY				MOHANBARI																NAGPUR			
Time in I.S.T.	2330				0530				1130				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4.3	4.0	260	30	1.0	0.8	046	15	2.1	0.9	050	30	1.2	0.3	079	30	0.9	0.7	046	29	2.2	1.9	266
0.15 a.g.	26	8.0	7.6	254	25	3.5	2.5	065	14	3.6	1.1	022	30	3.3	0.6	104	30	3.7	1.3	050	29	6.2	5.1	275
0.3 a.m.s.l.	26	8.3	7·5	256	25	3·6	2·3	076	14	3.6	1.1	018	30	3.2	0.7	114	30	3.7	1.7	050				
0.6 ,,	26	9.3	8.8	260	24	4.0	1.1	102	13	3.9	0.5	114	29	3.1	0.7	154	29	3.8	0.2	187	29	7.9	6.3	277
0.9 ,,	26	9.9	9.5	265	24	4.0	0.7	204	9	5.6	1.3	145	29	3.5	1.0	195	29	3.9	1.3	210	29	8.6	6.9	287
1.5 ,,	23	9.3	9.0	275	18	3.6	1.9	230	5	5.3	5.2	105	27	4.5	3.1	227	28	4.4	3.7	230	29	7.9	5.9	292
2.1 ,,	20	7.6	7.1	278	14	3.3	1.3	215	3	3.7	2.5	121	27	4.6	3.6	216	22	3.1	2.3	228	29	6.4	4.0	297
3.0 ,,	11	5.2	4.8	273	11	3.5	1.1	223	3	3.0	1.7	139	19	3.3	2.4	210	15	2.8	2.3	218	29	5.3	2.0	317
3.6 ,,	10	5.7	4.9	268	8	3.9	1.1	195					18	3.8	2.6	217	10	3.0	2.2	226	29	5.4	0.8	353
4.5 ,,	2	4.0	3.5	244	6	3.5	0.5	300					13	3.8	2.3	216	5	1.7	1.1	207	29	5.9	1.1	081
5.4 ,,					6	3.1	0.8	276					12	4.2	1.7	210	1	2.5	2.5	200	28	5.5	1.4	045
6.0 ,,					4	2·6	0.7	275					10	3.9	1.9	219					28	5.5	1.1	036
7.2 ,,					2	1.3	0.9	037					9	5.3	1.7	325					28	6.0	1.7	054
9.0 ,,													2	13.5	13.5	330					26	6.3	5.1	063

Station	NAGPUR												NANPARA								NEW DELHI			
Time in I.S.T.	1130				1730*				2330				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3.9	2.6	281	29	4.2	2.0	273	30	2.6	1.9	243	30	2.2	1.9	090	30	2.5	0.5	014	30	3.4	1.1	237
0.15 a.g.	29	5.3	3.7	283	29	6.1	3.2	265	28	6.3	4.4	241	30	6.9	5.4	118	30	5.7	0.4	355	30	8.6	3.1	256
0.3 a.m.s.l.													30	7.0	5.5	122	30	5.7	0.3	003	30	5.8	2.9	268
0.6 ,,	29	5.3	3.6	290	29	5.6	2.7	266	28	6.4	4.5	250	30	7.7	4.8	130	30	6.0	0.4	264	30	9.1	4.5	257
0.9 ,,	29	5.4	3.9	298	29	5.1	3.3	268	28	5.9	3.9	257	30	7.5	2.7	125	30	5.7	1.2	258	30	9.5	5.6	270
1.5 ,,	28	5.6	3.4	303	29	6.0	3.8	275	27	5.5	2.8	264	30	8.4	2.4	276	30	6.5	3.7	283	30	7.9	4.9	290
2.1 ,,	26	5.6	3.3	285	29	6.5	3.4	283	27	4.8	2.2	276	25	9.6	5.6	293	28	8.5	5.6	296	30	7·0	4.0	304
3.0 ,,	22	5.0	0.5	326	29	6.1	2.7	300	23	4.4	0.9	004	22	8.8	6.5	300	27	10.4	7.6	300	30	6.6	3.5	318
3.6 ,,	20	5.4	0.5	310	29	6.2	2.4	306	6	3.5	1.4	006	16	6.1	3.5	317	25	8.1	6.1	303	30	6.4	3.8	315
4.5 ,,	14	4.8	0.9	237	29	5.9	2.0	335	3	3.3	2.6	012	11	4.0	1.4	350	23	6.2	4.6	309	30	6.7	3.6	320
5.4 ,,	11	4.5	0.7	195	29	5.6	1.8	340	1	4.0	4.0	085	9	3.0	0.9	227	20	4.8	3.9	318	30	6.2	3.6	317
6.0 ,,	9	5.1	0.7	206	28	5.8	1.5	348	1	6.5	6.5	090	7	3.1	0.9	160	17	4.9	2.8	312	30	6.6	2.1	319
7.2 ,,	6	5.7	1.2	280	27	5.5	1.3	002					6	4.5	3.5	158	14	4.9	0.2	349	30	7.5	2.8	246
9·0 ,,	3	4.8	4.8	074	26	5.9	4.0	059					5	5.3	4.0	124	11	4.9	3.4	128	27	7.0	2.7	251

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	NEW DELHI												POONA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	6·0	3·1	287	30	3.0	0·8	336	30	2·4	0·4	224	30	1·6	1·4	260	30	3·4	3·2	258	30	2·1	2·0	256
0·15 a. g. .	29	7·6	4·1	287	30	6.1	2·1	331	30	8·0	1·8	213	30	5·5	5·3	258	28	8·3	7·9	255	28	5·8	5·6	254
0·3 a.m.s.l. .	29	7·5	3·9	281	30	3·7	1·1	323	30	6·0	1·4	216												
0·6 „ .	29	8·4	4·8	282	30	5.8	1·8	325	30	8·4	2·3	233	30	3·1	3·0	259	28	5·4	5·0	261	28	3·7	3·6	256
0·9 „ .	25	7·4	5·0	277	30	5·7	1·9	306	30	8·7	3·4	260	30	6·7	6·5	259	28	9·3	9·0	255	28	7·3	6·9	257
1·5 „ .	22	7·5	4.0	281	30	6·4	3·8	291	26	7·2	3·4	272	22	9·1	8·3	263	27	8·7	8·0	260	24	9·9	9.3	261
2·1 „ .	22	8.3	5.0	284	30	7·8	5·0	280	13	12·2	6·5	270	18	6·7	4·6	253	17	8·2	6·1	257	21	6·8	5·2	254
3·0 „ .	19	8·0	4.6	259	30	7·9	5·1	285	16	8.6	4.5	270	14	4·6	3·2	206	11	8·5	4·7	243	17	4·1	0·8	261
3 6 „ .	14	7·4	3.0	273	30	7·8	5·0	296	2	9·0	4.5	022	10	4·1	2·1	237	7	8·4	3·4	232	14	3·5	0.9	288
4·5 „ .	11	8.2	3.8	296	30	7·8	4.9	304					3	3·3	1.9	128	1	3·5	3·5	150	7	2·8	1·4	241
5 4 „ .	9	8·4	2·0	300	30	7·4	4·1	306					2	1.3	1.3	029	1	3·5	3.5	090	1	2·5	2·5	115
6·0 „ .	7	8·6	2·7	352	30	7·7	4·2	299					1	1.5	1.5	255								
7·2 „ .	5	5·8	2·4	358	30	7·2	4·2	273					1	3.0	3.0	320								
9·0 „ .	1	11·5	11·5	150	28	7.3	3·7	260																

Station	PORT BLAIR																RAIPUR							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	4·0	3·6	233	30	7·9	7·4	235	30	4·6	4·3	234	30	4·4	4·2	232	30	2·4	1·5	240	30	2·8	1·5	257
0·15 a. g. .	27	9·4	9·0	236	28	9·4	8·9	237	28	8·6	8·2	244	30	8·8	8·6	239	24	7·7	6·1	241	28	5·4	3·0	255
0·3 a.m.s.l. .	27	10.0	9·7	236	28	9·5	9·1	237	28	8·9	8·4	245	30	9·6	8·1	260								
0·6 „ .	27	11·5	11·2	236	28	10·8	10·3	242	26	10·4	9·8	248	30	11·8	11·4	244	24	9·4	7·9	258	28	5·7	3·5	261
0·9 „ .	26	12·9	12·5	241	23	11·3	10·6	246	24	11·3	10·5	250	27	11·2	10·8	251	23	9·7	8·4	262	28	5·5	3·6	272
1·5 „ .	25	12·7	11·6	250	11	9·6	8·3	250	24	11·0	9·9	259	20	9·7	8·4	255	19	6.9	5·3	288	27	5·9	3·9	287
2·1 „ .	24	11·4	10·7	248	5	6·9	4·2	291	24	10·1	8·5	260	13	6·2	5·9	260	16	5·9	3·6	317	18	6·3	4·2	303
3·0 „ .	25	10.3	9·7	252	1	3·0	3·0	245	23	9·0	7·9	257	7	4·5	3·5	263	14	3·8	2·1	317	14	6·3	2·6	342
3.6 „ .	26	8·9	7·5	260	1	3·5	3·5	265	23	8·1	6·8	256	4	3·6	1·8	316	10	4·7	1.2	294	9	7·7	3·5	299
4·5 „ .	25	7·8	6·3	254	1	3·5	3·5	250	22	7·4	6·2	256	2	3.0	0·9	056	4	3·7	2·5	125	6	7·1	4·4	295
5·4 „ .	25	6·7	5·0	256					23	6·7	3·2	232					2	4·0	3·9	128	3	7·7	4·8	277
6·0 „ .	25	6·1	2·0	258					23	6·3	2·6	223					2	5·7	5·7	130	2	5·0	1·5	185
7·2 „ .	22	5·9	1·0	096					25	6·9	1·6	168												
9·0 „	20	8·0	6·6	087					25	9·5	7·5	097												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	RAIPUR				RAXAUL												SANTA CRUZ							
Time in I.S.T.	2330				0530				1130				1730				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3.0	2.0	210	30	1.2	1.1	087	15	2.2	2.1	103	30	1·4	1.2	083	30	3.8	2.1	238	30	4.0	3.0	23
0.15 a.g.	22	7.7	5.5	214	23	5.6	4.9	094	13	6.7	6.5	110	27	4.9	4.0	102	28	7.3	5.4	243	28	6.2	4.8	22
0.3 a.m.s.l.					23	6.6	6.0	103	13	6.9	6.7	106	27	4.8	3.9	105	28	6.9	5.4	244	28	6.3	5.1	23
0.6 ,,	22	8.3	5.6	229	22	7.3	6.7	114	11	8.1	8.0	103	27	4.6	3.7	109	28	6.5	5.4	242	28	7.1	5.9	23
0.9 ,,	22	8.1	5.2	247	21	6.4	5.5	112	9	7.5	7.4	107	27	4.9	3.1	122	28	7.3	6.2	243	19	7.3	6.3	24
1.5 ,,	22	6.8	4.4	273	17	6.3	3.4	114	5	4.9	4.5	113	25	5.6	1.1	112	28	7.2	6.0	248	9	5.7	3.5	25
2.1 ,,	20	5.0	2.4	301	14	7.4	0.8	043	3	8.8	4.1	110	24	6.8	1.3	298	28	7.0	5.3	244	3	5.8	2.4	12
3·0 ,,	15	5.3	1.4	349	11	7.8	3.1	307					20	7.1	3.4	290	28	6.8	3.7	244	1	6.5	6.5	07
3.6 ,,	10	3.8	1.5	041	9	5.3	2.8	303					20	6.6	3.8	290	28	7.5	3.5	257	1	8.5	8.5	05
4.5 ,,					6	3.3	1.1	312					8	5.2	4.0	292	27	5.8	1.4	250				
5.4 ,,					2	4.5	1.0	275					5	3.2	0.7	297	27	5.5	0.8	232				
6.0 ,,					1	3.0	3.0	075					3	1.6	1.6	193	27	5.6	0.2	278				
7.2 ,,																	27	5.0	0·5	097				
9.0 ,,																	22	5.7	3.8	086				

Station	SANTA CRUZ								TIRUCHIRAPALLI												TRIVANDRUM			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5.6	4.9	249	30	3.3	2.7	226	30	5.0	4.6	267	30	7.1	5.7	259	30	5.3	4.7	261	30	2.5	1.9	293
0.15 a.g.	30	8.6	7.7	255	30	5.9	5.2	225	30	8.3	7.8	261	29	9.4	8.1	248	30	9.0	8.1	260	30	5.7	4.9	297
0.3 a.m.s.l.	30	8.2	7.4	254	30	6.6	5.8	220	30	9.1	8.6	263	29	9.0	7.7	255	30	9.3	8.6	262	30	6.1	5.2	293
0.6 ,,	30	8.0	7.1	249	29	7.2	6.6	241	30	12.1	11.9	267	29	9.2	8.5	257	30	12.0	11.5	263	30	8.0	7.5	278
0.9 ,,	29	8.3	7.2	254	25	7.5	7.0	246	30	13.0	12.0	268	29	9.5	8.9	260	30	12.3	11.7	262	30	9.3	8.8	277
1.5 ,,	28	7.9	6.9	235	16	7.2	7.1	241	30	12.1	11.8	267	29	10.5	10.1	265	29	11.0	10.5	264	30	10.4	9.9	279
2.1 ,,	28	8.0	6.4	244	8	5.3	4.8	228	28	10.8	10.4	261	25	11.9	11.6	266	28	10.3	9.6	264	30	10.8	10.4	276
3.0 ,,	28	8.0	5.1	247	5	6.1	4.3	231	26	9.6	8.5	259	17	10.1	9.3	273	20	10.6	9.1	263	30	10.0	9.3	271
3.6 ,,	28	8.2	4.5	265	2	2.3	1.1	183	19	8.8	6.9	255	15	8.9	7.5	274	14	7.8	6.1	259	30	8.7	7.7	270
4.5 ,,	28	7.1	2.6	264	1	1.5	1.5	315	13	8.4	6.1	269	7	7.9	6.4	300	5	6·6	4·4	268	30	7.8	6.7	269
5.4 ,,	28	6.4	2.5	224					11	6.1	3.2	251	5	7·2	2·6	287	1	7.5	7.5	050	30	7.1	5.4	266
6.0 ,,	28	5.9	1.4	214					8	5.3	1.1	175	3	4.8	2·4	094					30	5.7	3.6	272
7.2 ,,	28	5.7	2.0	1.6					2	3.5	3.4	125	2	4.0	2.8	094					30	5.2	1.5	013
9.0 ,,	20	6.7	5·5	099					2	8.0	5.3	057	2	5.5	5·3	067					28	8.9	6.2	055

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

June 1961 (Jyaistha 11— Asadha 9, 1883 Saka)

Station	TRIVANDRUM												UDAIPUR											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·0	2·4	292	30	4·2	3·6	064	30	2·1	1.5	305	30	1·7	1·5	226	30	2·5	4·7	264	30	2·5	1·9	221
0·15 a.g.	25	5·7	4·9	288	30	7·5	6·4	290	24	5·4	4·5	305	30	4·5	3·8	227	29	5·3	3·7	223	30	5·7	5·0	224
0·3 a.m.s.l.	25	6·5	5·6	287	30	8·2	6·9	291	24	6·5	5·6	298												
0·6 ,,	24	8·7	7·9	281	30	9·5	8·2	283	24	8·9	7·9	287												
0·9 ,,	21	11·0	10·4	283	30	10·5	9·3	283	20	10·7	9·9	279	30	6·2	5·1	233	29	5·6	4·2	227	30	6·1	5·6	226
1·5 ,,	10	10·4	10·2	287	30	11·7	10·9	282	15	11·1	10·5	284	24	7·7	5·5	244	26	5.2	3·2	231	27	6·9	6·2	234
2·1 ,,	6	10·5	9·9	288	30	10·7	10·1	281	13	9·7	9·2	285	21	7·1	2·2	258	25	5·4	2·8	237	27	6·8	4·0	222
3·0 ,,	2	7·7	7·4	255	30	9·7	8·9	269	10	8·6	8·0	263	16	8·1	2·1	105	23	6·3	2·5	220	18	7·1	2·5	134
3.6 ,,	1	9·5	9·5	235	30	10·3	8·4	259	7	4·9	4·6	253	11	6·7	1·4	062	20	6·6	1·3	251	4	6·1	5·5	093
4.5 ,,	1	10·0	10·0	215	30	7·5	6·1	263	6	4·6	2·9	279	6	7·1	4·2	072	17	6·5	1·1	272	1	11·0	11·0	070
5·4 ,,					30	8·0	5·2	262	5	3·2	1·7	315	3	7·3	2·6	072	11	6·7	4·3	269				
6·0 ,,					30	7·2	3·9	268	2	3·7	3·5	292	3	6·3	4·7	040	10	6.5	3.7	265				
7·2 ,,					30	6·1	0·4	028									5	6.8	2·1	267				
9·0 ,,					29	8·4	6·4	051																

Station	VENGURLA												VERAVAL											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·5	0·3	134	30	2·2	1·5	223	30	1·6	1·0	192	30	5·5	4·5	259	30	4·8	3·6	251	30	5·7	4·8	251
0·15 a.g.	26	3·7	2·1	195	26	5·4	4·1	241	22	4·1	3·0	212	29	6·8	5·7	257	30	7·7	5·6	243	30	7·3	6·2	250
0·3 a.m.s.l.	26	4·8	3·4	227	26	6·7	5·0	246	22	5·1	4·2	230	29	6·5	5·6	261	30	8·8	6·7	245	30	7·0	6·0	252
0·6 ,,	25	6·9	5·4	252	25	8·4	6·9	255	22	6·4	5·4	244	28	7·0	6·2	260	28	9·8	7·0	250	30	7·4	6·1	258
0·9 ,,	15	7.5	6·3	280	20	9·3	8·0	270	12	7·0	6·3	246	28	7·4	6·5	260	25	9·4	6·9	247	28	7·9	6·5	257
1·5 ,,	7	8·1	6·7	268	13	8·7	7·5	267	9	7·4	6·9	260	26	6·2	4·2	259	16	9·2	5·0	241	27	6·0	4·2	261
2·1 ,,	4	7·1	5·1	239	10	7·9	6·8	272	6	4·6	3·9	240	26	6·7	3·7	270	14	9·3	5·1	260	26	5·7	3·1	281
3·0 ,,	3	6·2	3·5	213	5	4·9	2·3	257	5	3·4	1·9	200	26	5·9	1·7	292	10	10·3	2·6	266	26	6·1	2·3	344
3·6 ,,	1	4·5	4·5	330	4	5·5	2·7	279	2	1·7	0·7	180	26	5·5	1·0	342	6	8·8	6·8	263	26	5·9	1·8	005
4·5 ,,					3	4·3	1·2	030	1	3·5	3·5	120	26	5·4	1·0	026	6	8·4	6·3	273	26	6·5	2·1	015
5·4 ,,					2	6·5	4·5	017					26	5·0	1·2	077	6	8·5	5·7	279	26	5·3	1·5	024
6·0 ,,					2	5·7	3·9	051					26	4·7	1·3	131	4	5·9	3·5	293	26	5·5	1·4	037
7·2 ,,					1	8·5	8·5	015					26	4·4	2·0	116	3	3·2	2·0	226	26	5·5	3·8	083
9·0 ,,													14	4·6	3·8	102	1	7·5	7·5	110	15	5·2	4·4	100

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Station	VERAVAL				VISAKHAPATNAM															
Time in I. S. T.	2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	5·2	4·2	248	30	3·0	2·7	257	30	4·8	4·0	228	30	3·1	2·5	242	30	2·9	2·7	233
0·15 a. g. .	28	7·9	7·0	235	30	7·7	6·2	291	29	4·8	4·1	226	30	6·1	5·1	266	29	4·9	4·5	235
0·3 a. m. s. l. .	28	8·6	7·6	241	30	8·3	7·1	277	29	4·9	4·4	235	30	6·7	5·7	258	29	5·8	5·3	241
0·6 ,, .	27	9·1	8·0	242	30	9·5	8·5	257	29	5·8	4·9	261	30	6·6	5·9	247	29	7·1	6·6	251
0·9 ,, .	25	9·2	7·9	241	30	10·0	8·6	260	27	7·5	6·1	279	30	6·1	4·8	258	29	7·4	6·6	258
1·5 ,, .	21	8·3	6·5	233	29	7·7	7·0	274	26	8·6	6·3	288	30	6·5	4·6	286	29	7·2	6·1	265
2·1 ,, .	10	7·1	2·5	215	29	7·0	5·4	284	25	6·3	4·3	291	30	5·5	3·2	283	25	4·9	3·2	275
3·0 ,, .	5	8·6	5·0	090	29	5·8	2·8	313	20	4·9	2·7	293	30	6·7	3·8	288	23	5·3	2·3	304
3·6 ,, .	2	6·5	3·5	040	29	5·8	2·1	325	15	4·0	1·4	348	30	6·4	3·2	292	16	5·3	1·6	355
4·5 ,, .	2	6·5	4·7	019	29	5·8	2·2	347	11	4·0	1·6	332	30	6·8	3·4	289	12	5·4	1·9	014
5·4 ,, .					28	5·7	1·8	344	10	4·5	2·6	309	30	7·1	2·5	300	6	4·9	3·4	055
6·0 ,, .					28	6·1	1·6	345	10	4·7	3·3	306	30	6·5	1·9	335	5	5·1	4·5	068
7.2 ,, .					28	6·1	0·9	082	8	5·3	4·2	296	29	7·8	0·7	350	1	5·5	5·5	070
9·0 ,, .					26	7·7	3·2	087	6	6·7	2·1	025	28	7·7	4·8	056				

Table V—Monthly Mean Directions and Velocities of Upper Wind

Winds above 9.0 km. above mean sea level

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Ht. in Km.	n	V	v	D
AGARTALA				
0530 hr.				
10·5	1	11·0	10·9	110
12·0	1	13·0	13·0	110
1730 hr.				
10·5	3	11·3	11·1	079
12·0	1	13·0	13·0	090
ANANTAPUR				
0530 hr.				
10·5	1	3·5	3·5	105
1730 hr.				
10·5	4	12·7	12·0	085
12·0	4	18·3	18·0	091
14·1	2	32·7	32·7	088
16·2	1	18·5	18·5	080
BAG DOGRA				
1730 hr.				
10·5	1	8·0	8·0	150
12·0	1	11.5	11.5	155
BAJPE				
0530 hr.				
10·5	1	9·5	9·5	080
12·0	1	26.5	26.5	100
1730 hrs.				
10·5	2	11·3	10·9	049
12·0	2	16·7	16·7	043
14·1	2	11·5	11·3	062
BAMRAULI				
0530 hr.*				
10·5	13	6·1	3·2	067
12·0	7	7·0	5·6	053
14·1	2	6·5	6·5	061
1130 hr.				
10·5	1	10·5	10·5	070
12·0	1	6·5	6·5	094
14·1	1	5·5	5.5	165
16·2	1	4·0	4·0	098
18·0	1	7·5	7·5	088

Ht. in Km.	n	V	v	D
1730 hr.*				
10·5	18	7·1	3·6	085
12·0	8	10·1	7·9	125
14·1	6	10·3	10·0	118
16·2	4	12·4	12·0	098
18·0	2	13·0	11·5	090
BANGALORE				
0530 hr.				
10·5	4	13·0	12·5	097
12·0	2	18·0	17·6	095
14·1	2	24·7	24·7	097
16·2	2	26·7	26·7	086
18·0	2	25·0	24·5	088
1730 hr.				
10·5	2	13·7	13·5	067
12·0	1	15·0	15·0	075
14·1	1	13·5	13·5	080
16·2	1	21·0	21·0	095
BAREILLY				
1730 hr.				
10·5	2	7·0	6·3	154
BEGUMPET				
0530 hr.				
10·5	2	10·0	8·5	096
12·0	1	15·5	15·5	100
BHAGALPUR				
0530 hr.				
10·5	4	11·0	10·9	098
12·0	3	12·3	11·3	077
1730 hr.				
10.5	8	7·8	5·4	087
12·0	8	9·4	6·6	093
14·1	7	9·5	7·1	090
16·2	6	18·8	17·7	078
18·0	4	24·6	22·9	057
21·0	2	47·0	43·4	065

Ht. in Km.	n	V	v	D
BHUBANESHWAR				
0530 hr.				
10·5	2	8·0	8·0	110
12·0	1	8·5	8·5	130
14·1	1	18·5	18·5	115
16·2	1	24·5	24·5	130
1730 hr.				
10·5	1	10·0	10·0	050
12·0	1	7·0	7·0	070
14·1	1	12·0	12·0	085
16·2	1	25·0	25·0	105
18·0	1	27·5	27·5	085
21·0	1	6·5	65·0	085
COCHIN				
0530 hr.				
10·5	1	15·0	15·0	080
12·0	1	13·5	13·5	070
DUM DUM				
0530 hr.*				
10·5	15	13·0	11·3	104
12·0	13	13·5	12·5	077
14·1	7	17·7	17·2	093
16·2	5	19·5	19·4	100
18·0	2	20·5	20·5	090
1730 hr.*				
10·5	19	9·9	7·2	097
12·0	16	11·2	10·2	089
14·1	12	15·5	14·1	100
16·2	8	21·1	20·7	111
18·0	2	19·2	19·2	118
GADAG				
0530 hr.				
10·5	2	12·3	12·1	087
12·0	1	1·45	14·5	100
GANNAVARAM				
0530 hr.				
10·5	1	10·0	10·0	090
12·0	1	17·0	17·0	095
14·1	1	27·0	27·0	090

Ht. in Km.	n	V	v	D
1730 hr.				
10.5	3	8·3	7·6	085
12.0	1	24.0	24·0	095
14·1	1	29·5	29·5	090
16·2	1	29·5	29·5	085
GAUHATI				
0530 hr.*				
10·5	9	5·7	2.8	138
12·0	7	9·4	2·0	261
14·1	2	17.5	8·0	343
1130 hr.				
10·5	4	7.3	6·4	099
12·0	3	11·3	10·5	115
14·1	2	10·0	9·3	109
16·2	2	12·5	12·5	085
1730 hr.*				
10·5	15	6.4	1·3	059
12·0	11	8·7	0·9	199
14·1	2	12.7	12.3	313
GOPALPUR				
0530 hr.				
10·05	1	4·0	4·0	025
12·0	1	4·5	4·5	105
17.0 hr.				
10.5	1	4.5	4.5	120
12.0	1	5.5	5.5	095
GORAKHPUR				
0530 hr.				
10.5	1	7.0	7.0	045
12.0	1	6.0	6.0	065
14.1	1	6.0	6.0	085
16.2	1	15.5	15.5	105
18.0	1	7.5	7.5	035
1730 hr.				
10.5	2	6.0	5.9	038
12.0	2	10.0	8.5	045
14.1	2	8·3	8.3	083
16.2	2	16.5	16.5	105
18.0	2	21.3	21.3	094
21.0	1	48.5	48.5	095

Ht. in Km.	n	V	v	D
GWALIOR				
0530 hr.				
10.5	10	6.5	4.8	117
12.0	6	7·8	6.5	114
14.1	5	9.6	8.8	109
16.2	2	14·3	12.8	081
1730 hr.				
10.5	5	6.4	5.9	084
12.0	3	5.8	5.5	086
IMPHAL				
1730 hr.				
10.5	4	8.9	8.4	089
12.0	4	10.6	10.5	096
14.1	4	16.1	15.9	105
16.2	1	16.5	16.5	105
18.0	1	50.5	50.5	105
JAIPUR				
0530 hr.				
10.5	1	2.5	2.5	190
1730 hr.				
10.5	3	9.7	8.9	330
12.0	2	11.3	10.7	335
14.1	1	3.0	3.0	295
JAMSHEDPUR				
1730 hr.				
10.5	1	8.0	8.0	060
12.0	1	8.5	8.5	070
14.1	1	12.0	12.0	090
JODHPUR				
0530 hr*				
10.5	15	7.3	1.7	127
12.0	7	6.1	2·1	309
14.1	1	22.5	22.5	140
1730 hr.*.				
10.5	9	5.7	2.3	038
12.0	3	8.8	4.7	045
MADRAS				
0530 hr.*				
10.5	28	10.0	9.2	085
12.0	26	17.2	16.9	089

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

June, 1961 (Jyaishtha 11—Asadha 9, 1883 Saka)

Ht. in Km.	n	V	v	D
		MADRAS		
		0530 hr.*		
14.1	25	26.0	25.5	085
16.2	19	31.2	30.5	087
18.0	12	21.7	21.6	094
21.0	2	36.5	36.4	100
24.0	1	27.5	27.5	060
		1130 hr.		
10.5	4	15.9	15.3	102
12.0	2	20.7	20.7	090
14.1	2	28.3	28.3	080
16.2	2	27.5	27.5	085
18.0	1	19.0	19.0	105
21.0	1	13.0	13.0	090
		1730 hr.*		
10.5	25	9.6	7.0	090
12.0	24	15.0	14.0	080
14.1	29	24.6	24.1	086
16.2	18	29.0	29.4	080
18.0	11	25.0	25.1	089
21.0	4	22.4	22.1	099
24.0	1	34.0	34.0	095
		MINICOY		
		1130 hr.		
10.5	3	16.5	16.4	089
12.0	2	25.7	25.7	095
		NAGPUR		
		0530 hr.*		
10.5	26	7.2	6.8	076
12.0	23	10.2	9.9	091
14.1	17	14.9	14.5	084
16.2	12	20.5	20.0	092
18.0	6	20.5	19.8	094
21.0	4	17.9	17.2	090
24.0	2	11.5	11.4	081
		1130 hr.		
10.5	2	8.3	7.9	074
12.0	1	9.5	9.5	099
14.1	1	11.0	11.0	110
16.2	1	17.5	17.5	095
18.0	1	18.5	18.5	105

Ht. in Km.	n	V	v	D
		1730 hr.*		
10.5	22	6.8	4.2	070
12.0	20	10.8	9.7	088
14.1	19	15.6	14.8	088
16.2	13	24.3	23.8	092
18.0	7	23.6	23.2	096
21.0	4	23.6	23.4	082
		NAGPARA		
		0530 hr.		
10.5	4	5.6	4.5	1.5
12.0	3	4.8	4.4	116
14.1	2	10.7	10.4	112
16.2	1	16.0	16.0	145
		1730 hr.		
10.5	9	4.8	3.5	144
12.0	6	8.4	7.5	136
14.1	5	9.2	7.3	158
16.2	4	9.6	8.7	092
18.0	2	14.7	14.7	100
21.0	1	29.0	29.0	105
		NEW DELHI		
		0530 hr.*		
10.5	26	7.0	2.8	233
12.0	23	6.3	2.9	222
14.1	17	5.4	1.0	208
16.2	15	6.8	2.8	192
18.0	8	9.1	7.5	093
21.0	1	12.5	12.5	095
24.0	1	9.0	9.0	001
27.0	1	10.5	10.5	060
		1130 hr.		
10.5	1	12.0	12.0	140
12.0	1	12.5	12.5	135
		1730 hr.*		
10.5	27	7.3	4.0	236
12.0	25	7.4	4.0	223
14.1	20	6.0	2.3	160
16.2	10	8.3	4.5	242
18.0	5	9.6	8.8	115
21.0	2	7.7	7.7	094
24.0	1	4.0	4.0	110

Ht. in Km.	n	V	v	D
		PORT BLAIR		
		0530 hr.*		
10.5	18	13.9	12.8	070
12.0	14	18.4	17.2	070
14.1	9	29.0	28.3	072
16.2	5	28.9	27.4	076
18.0	1	14.5	14.5	070
		1730 hr.*		
10.5	23	10.9	10.7	073
12.0	18	18.4	17.0	065
14.1	11	26.3	24.8	063
16.2	5	30.4	29.8	078
18.0	1	19.5	19.5	075
		SANTA CRUZ		
		0530 hr.*		
10.5	10	9.3	6.7	09
12.0	14	13.1	10.4	102
14.1	6	19.5	19.3	096
16.2	3	33.0	33.0	105
18.0	1	23.5	23.5	105
		1730 hr.*		
10.5	16	10.7	9.7	101
12.0	12	13.5	12.7	091
14.1	9	24.8	22.7	092
16.2	1	26.4	25.4	095
18.0	1	25.0	25.0	090
		TRIVANDRUM		
		0530 hr.*		
10.5	25	11.7	8.5	064
12.0	21	18.6	17.6	077
14.1	17	27.8	27.4	085
16.2	11	21.7	20.8	079
18.0	7	22.8	22.1	075
21.0	2	24.0	24.0	075
		1730 hr.*		
10.5	28	12.2	10.5	072
12.0	25	18.7	17.6	075
14.1	17	27.8	26.8	084
16.2	11	24.6	24.0	092
18.0	5	20.9	20.4	090
21.0	3	24.2	23.7	080

Ht. in Km.	n	V	v	D
		VERAVAL		
		0530 hr.*		
10.5	11	7.4	7.0	093
12.0	7	10.2	9.9	106
14.1	3	14.8	14.8	103
16.2	1	24.0	24.0	105
		1130 hr.		
10.5	1	10.0	10.0	090
		1730 hr.*		
10.5	11	7.4	7.2	100
12.0	8	11.1	10.6	091
14.1	4	19.7	19.2	104
16.2	1	21.5	21.5	115
		VISAKHAPATNAM		
		0530 hr.*		
10.5	23	10.5	8.0	078
12.0	22	14.5	13.5	091
14.1	19	24.3	24.1	086
16.2	19	26.3	25.5	086
18.0	14	21.0	20.4	086
21.0	3	21.3	20.3	091
24.0	2	23.3	22.7	086
		1130 hr.		
10.5	4	5.9	5.9	086
12.0	4	13.3	12.9	092
14.1	4	20.9	20.7	092
16.2	4	30.3	30.1	091
18.0	3	32.7	29.0	105
21.0	1	44.0	44.0	080
		1730 hr.*		
10.5	27	11.5	10.2	070
12.0	26	13.3	13.0	078
14.1	23	23.6	22.0	082
16.2	17	26.8	26.0	087
18.0	12	23.3	22.3	081
21.0	4	30.4	29.5	085
24.0	1	58.0	58.0	080

RADIOSONDE DATA

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bangalore	Fan type	10th March, 1961	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1946	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

June, 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (988 mb.)						BANGALORE (907 mb.)						BOMBAY (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	098	302.1	306	297	295·4	30	921	293.5	295	292	291.6	30	013	299·9	303	297	297.2
1000	30	—15	..	..	..	..	30	073	..	..	..	..	30	032	..	..	..	..
900	30	927	300.6	308	294	289.4	27	987	292.6	295	290	291.0	30	951	294.9	296	292	291.8
850	30	1432	297.6	305	293	287.5	27	1478	290.2	295	286	287.7	30	1452	292.0	295	289	288.5
800	30	1960	293.5	301	290	285.4	27	1996	287.9	292	281	284.0	30	1971	289.3	292	286	285.2
700	30	3103	285.5	291	282	279.5	27	3119	283.2	286	277	278.1	30	3098	283.8	288	279	276.4
600	30	4379	277.6	282	272	269.7	26	4381	275.7	280	269	272.6	29	4370	276.7	281	273	270.3
500	30	5844	269.9	274	265	..	26	5832	266.4	270	259	..	29	5833	269.2	273	266	..
400	30	7502	261.0	269	254	..	24	7537	255.7	260	250	..	29	7565	259.4	265	255	..
300	26	9735	248.3	256	243	..	23	9634	240.0	246	235	..	24	9702	246.3	254	241	..
250	23	11042	238.7	249	232	..	20	10908	230.8	237	226	..	23	10953	237.5	247	231	..
200	21	12568	227.0	236	220	..	18	12387	218.4	229	211	..	17	12496	226.0	235	220	..
175	18	13454	220.5	232	212	..	17	13227	212.4	223	206	..	15	13396	221·1	227	213	..
150	13	14473	215.7	224	210	..	16	14185	205.7	218	199	..	11	14345	215·4	223	208	..
125	11	15596	208.4	215	203	..	16	15254	199.2	212	190	..	11	15550	209.0	218	198	..
100	8	16921	201.6	213	196	..	16	16559	196.7	206	189	..	9	16800	201.4	211	188	..
80	5	18298	202.0	209	198	..	15	17868	201.3	214	189	..	5	18030	199.6	207	191	..
70	..	..	..	..	..	..	15	18664	203.8	221	191	..	..	..	..	..	..	..
60		..	..	..	..	..	11	19539	209.0	229	196	..	..	..	..	..	..	..
50		..	..	..	..	..	9	20600	211.7	220	203	..	..	..	..	..	..	..
40		..	..	..	..	..	7	22026	215.6	222	210	..	..	..	..	..	..	..

	CALCUTTA (999 mb.)						GAUHATI (997 mb.)						JODHPUR (975 mb.)					
Surface	30	006	300.1	305	297	298.5	30	049	299.6	303	297	298.2	30	218	301.3	307	295	293.9
1000	30	—001	..	..	..	..	30	020	..	..	..	..	30	—009	...	..	..	..
900	30	926	295.6	300	292	291.2	30	944	295.3	299	292	292.0	30	926	298.7	306	294	290.0
850	30	1423	293.1	297	290	288.1	30	1440	292.9	297	291	289.2	30	1427	296.4	305	291	286.0
800	30	1944	289.9	293	286	285.5	30	1963	289.9	293	288	286.3	30	1954	294.4	299	289	281.1
700	30	3073	283.7	287	280	278.9	30	3088	284.0	287	281	280.2	30	3099	287.5	290	283	275.1
600	30	4343	276.1	282	272	272.1	30	4357	277.9	281	274	272.9	30	4384	279.1	282	275	268.0
500	30	5802	268.9	277	267	..	30	5824	267.6	273	261	..	30	5856	271.7	276	266	
400	30	7533	259.5	268	252	..	29	7564	261.4	265	256	..	30	7603	262.9	271	257	..
300	26	9663	243.4	250	241	..	17	9698	247.9	254	241	..	26	9775	249.9	254	244	..
250	23	10961	236.7	243	230	..	11	10990	239.5	245	236	..	22	11079	240.5	245	227	..
200	19	12466	224.9	233	215	..	9	12525	229.2	233	224	..	19	12622	229.3	234	221	..
175	12	13313	217.5	227	208	..	..	..	..	..	..	..	14	13449	223.4	226	217	..
150	11	14274	210.0	217	201	..	..	..	..	..	..	..	13	14496	218.0	221	215	..
125	8	15359	201.6	209	196	..	..	..	..	..	..	..	11	15644	212.1	217	209	..
100	7	16652	196.7	204	189	..	..	..	..	..	..	..	10	17006	205.2	209	201	..
80	..	..	..	..	..	..	..	..	..	..	..	..	9	18350	204.1	210	197	..
70	..	..	..	..	..	..	..	..	..	..	..	..	6	19185	206.5	214	200	..
60	..	..	..	..	..	..	..	..	..	..	..	..	5	20088	210.7	223	203	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

June, 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1003 mb.)						NAGPUR (967 mb.)						NEW DELHI (975 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	015	300·5	303	296	295.9	29	311	298.8	303	296	294.4	30	209	302.7	307	299	294.4
1000	30	044	..	..	..	..	29	015	..	..	..	..	30	—019	..	..	..	..
900	30	971	295.3	298	292	288.6	29	945	297.4	303	293	289.6	30	921	301.3	305	294	289.9
850	30	1467	292.5	296	289	286.4	29	1445	294.6	300	289	287.4	30	1426	298.5	303	291	286.
800	30	1988	289.5	293	285	283.8	29	1970	291.1	295	288	285.3	30	1956	294.4	298	289	284.1
700	30	3111	281.7	285	273	277.0	29	3102	284.1	287	281	278.1	30	3096	286.3	291	283	276.0
600	30	4373	274.7	279	271	269.9	29	4376	276.6	280	273	272.0	30	4373	277.3	283	274	266·2
500	30	5820	266.5	272	263	..	28	5837	268.6	275	265	..	30	5836	270.3	276	263	..
400	29	7531	255.8	261	251	..	28	7563	258.8	264	254	..	30	7576	261.5	266	252	..
300	29	9626	240.9	250	233	..	26	9689	244.3	249	239	..	27	9727	247.9	251	245	..
250	28	10883	230.3	242	223	..	25	10973	234.8	240	226	..	25	11029	238.7	246	235	..
200	26	12353	218·1	231	207	..	23	12472	223.6	229	213	..	24	12550	227.2	233	223	..
175	25	13180	211.7	225	203	..	20	13325	217.1	222	207	..	23	13423	220·5	226	216	..
150	25	14141	204.4	219	195	..	20	14294	206.8	216	200	..	21	14413	214.1	219	209	..
125	23	15223	199.9	213	192	..	20	15389	203.3	208	197	..	20	15536	206.5	214	201	..
100	20	16546	199.9	209	193	..	18	16704	199.2	207	194	..	19	16864	200.8	210	194	..
80	15	17863	204.3	218	195	..	11	18019	199.1	207	192	..	13	18165	200·9	210	194	..
70	10	18691	207.6	228	199	..	10	18823	199.5	208	190	..	11	18955	202·3	210	194	..
60	6	19615	206.0	216	198	..	9	19724	203.3	209	198	..	6	19904	206·8	214	195	..
50	5	20743	208.4	213	201	.	7	20847	206.7	211	203							

Standard Pressure Surface mbs.	PORT BLAIR (998 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1001 mb.)					
Surface	30	079	298.3	300	296	296.9	30	064	297.5	299	296	295.7	28	008	300.6	302	298	298.8
1000	29	064	..	..	..	..	30	074	..	..	..	..	28	016	..	..	..	..
900	29	984	293.2	296	289	288.8	30	993	292.3	295	290	289.6	28	945	294.6	301	292	290.1
850	29	1477	291.3	293	287	286.2	30	1485	289.8	293	287	287.0	28	1440	292.3	298	288	286.2
800	29	1996	288.9	292	285	283.0	30	2001	287.2	290	284	283.2	28	1962	290.2	295	285	280.0
700	29	3119	282.9	285	277	275.0	30	3122	282.1	285	279	276.5	28	3093	284.2	288	282	272.9
600	29	4383	275.3	279	271	271.0	30	4386	275.2	279	273	269.7	28	4361	275.7	282	271	265.0
500	29	5835	267.2	271	264	..	30	5839	266.9	271	264	..	28	5814	267.3	275	263	..
400	29	7548	256.4	261	248	..	28	7550	255.9	260	251	..	28	7536	258.2	266	249	..
300	28	9662	243.0	249	237	..	26	9665	241.4	248	235	..	18	9668	245.1	250	239	..
250	28	10932	232.8	243	221	..	23	10918	231.5	241	221	..	15	10980	236.3	244	232	..
200	27	12409	218.5	231	208	..	20	12390	219.0	229	205	..	11	12485	225·4	230	217	..
175	27	13263	211·6	222	201	..	19	13245	212.8	225	199	..	9	13369	219·5	225	211	..
150	23	14211	205.2	214	191	..	16	14159	205.6	219	193	..	9	14349	212·0	219	201	..
125	15	15321	198.0	205	189	..	15	15234	199.3	215	187	..	7	15489	205.3	215	200	..
100	14	16616	196·0	205	189	..	13	16529	198.1	211	191	..	7	16803	199·1	207	192	..
80	8	17875	198·1	213	192	..	9	17849	201.5	214	193	..	5	18074	200·4	209	197	..
70	..	..	..	..	..	..	8	18597	205.1	210	192	..						
60	..	..	..	..	..	..	..	..	..	..	..	..						
50	..	..	..	..	..	..	..	.	..	..	..	..						

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

June, 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (997 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	29	041	300.4	303	299	287.3
1000	29	019	..	..	..	..
900	29	948	296.7	301	293	289.1
850	29	1446	293.7	299	288	287.4
800	29	1968	290.4	295	285	284.8
700	29	3094	282.4	286	275	278.7
600	29	4354	274.8	279	269	271.5
500	29	5804	266.5	272	260	..
400	28	7516	256.4	262	250	..
300	25	9620	240.7	250	228	..
250	23	10887	230.6	239	221	..
200	22	12353	217.6	226	209	..
175	22	13170	210.7	219	201	..
150	21	14123	202.5	212	191	..
125	21	15184	198.0	210	192	..
100	20	16493	196.4	211	186	..
80	16	17835	200.4	219	190	..
70	13	18609	203.3	215	193	..
60	9	19578	209.3	226	200	..

RADIOSONDE DATA

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

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

June, 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Standard Pressure Surface mbs.	ALLAHABAD Surf. Pr. (985 mb.)						BANGALORE (905 mb.)						BOMBAY (1002 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	098	309.5	316	301	294.3	16	921	297.7	300	294	291.3	30	013	302.4	305	297	297.4
1000	30	—040	..	..	..	..	16	043	..	..	..	..	30	030	..	..	..	..
900	29	918	303.6	309	298	292.6	15	970	296.7	299	295	290.5	30	959	296.1	298	292	291.0
850	29	1427	299.6	304	294	289.7	15	1467	292.9	295	291	288.1	30	1453	293.4	296	290	287.3
800	29	1959	295.1	299	290	287.1	15	1987	289.0	291	287	286.2	30	1981	290.5	293	287	283.4
700	29	3105	287.2	290	283	280.5	15	3109	282.5	286	280	278.9	30	3104	284.6	288	281	276.3
600	29	4390	279.1	283	277	272.9	14	4362	275.3	278	273	272.9	30	4383	278.3	284	275	268.5
500	29	5864	271.7	275	269	263.2	14	5821	267.8	272	263	..	30	5847	270.8	276	265	..
400	29	7614	262.7	267	259	..	14	7535	256.6	259	251	..	30	7592	261.6	266	256	..
300	25	9773	249.1	254	242	..	12	9643	243.7	250	240	..	22	9746	248.5	254	243	..
250	23	11085	240.9	247	234	..	9	10918	233.1	240	229	..	19	11062	239.7	245	234	..
200	20	12620	229.1	233	220	..	9	12399	220.0	229	215	..	15	12593	229.6	235	226	..
175	19	13506	222.9	227	212	..	9	13229	212.9	223	208	..	14	13489	224.0	229	220	..
150	17	14508	216.8	222	213	..	9	14191	205.7	217	197	..	13	14482	217.8	222	213	..
125	15	15665	210.5	217	205	..	7	15234	198.3	209	191	..	10	15636	210.8	215	205	..
100	10	17013	204.3	210	197	..	7	16538	195.9	201	189	..	6	16972	205.8	213	198	..
80	..	..	..	..	..	..	7	17833	198.5	207	191	..	..	..	..	..	..	..
70	..	..	..	..	..	..	7	18629	200.7	210	194	..	..	..	..	..	..	..
60	..	..	..	..	..	..	5	19506	204.0	207	196	..	..	..	..	..	..	..
50	..	..	..	..	..	..	5	20573	207.0	217	197	..	..	..	..	..	..	..

	CALCUTTA (997 mb.)						GAUHATI (993 mb.)						JODHPUR (973 mb.)					
Surface	29	006	302.8	307	298	299.2	30	049	302.2	308	299	298.2	30	218	310.7	316	301	292.8
1000	29	—017	..	..	..	..	30	—007	..	..	..	..	30	—033	..	..	..	..
900	29	916	296.9	301	292	293.5	30	926	297.2	301	291	293.3	30	925	304.1	311	296	292.8
850	29	1414	293.7	300	288	290.0	30	1423	294.3	298	288	290.4	30	1433	299.4	306	293	288.8
800	29	1936	290.7	297	285	286.9	30	1949	291.1	295	286	287.8	30	1959	294.1	301	290	285.2
700	29	3069	284.3	289	279	280.2	30	3075	284.9	289	281	280.9	30	3112	288.4	297	285	277.4
600	29	4342	277.5	284	273	272.8	30	4352	278.1	282	273	272.5	30	4401	280.3	284	272	268.3
500	29	5808	269.5	275	266	..	30	5822	270.0	274	267	..	29	5880	272.4	278	267	259.8
400	29	7540	260.0	266	256	..	30	7563	261.6	273	256	..	29	7637	264.6	270	251	..
300	27	9685	246.7	255	243	..	20	9723	248.5	252	245	..	24	9810	251.3	258	242	..
250	26	10976	236.7	246	232	..	13	11027	239.0	242	235	..	17	11127	241.5	247	233	..
200	22	12480	225.1	236	218	..	11	12568	228.4	232	224	..	14	12652	230.7	236	224	..
175	15	13369	219.4	229	213	..	..	..	..	..	..	..	13	13533	224.0	230	217	..
150	13	14343	212.7	222	204	..	..	..	..	..	..	..	10	14514	216.7	225	211	..
125	12	15485	206.9	216	201	..	..	..	..	..	..	..	9	15674	211.0	219	205	..
100	9	16810	200.9	208	196	..	..	..	..	..	..	..	8	17050	207.1	213	199	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

June 1961 (Jyaistha 11—Asadha 9, 1883 Saka)

Standard Pressure Surface mbs.	MADRAS Surf. Pr. (1001 mb.)						NAGPUR (965 mb.)						NEW DELHI (973 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	30	015	305.2	308	301	296.6	29	311	306.4	314	298	293.7	30	209	309.8	315	300	293.7
1000	30	027	..	..	..	..	29	016	..	..	..	..	30	—042	..	..	..	..
900	30	965	297.8	301	295	291.3	29	933	301.0	309	295	289.9	30	912	304.2	311	297	290.2
850	30	1463	293.7	296	291	288.7	29	1438	297.0	305	293	287·5	30	1421	300.1	306	294	287.0
800	30	1986	289.7	293	287	285.9	29	1965	292.2	299	289	285.1	30	1954	295.8	301	290	284.5
700	30	3112	282.8	286	280	278.4	29	3101	284.1	288	281	279.2	30	3098	287.3	291	283	276.9
600	29	4378	275.8	279	271	271.4	29	4375	276.4	279	274	272.1	30	4379	278.5	283	271	267.6
500	29	5832	267.1	272	263	..	27	5835	268.5	272	265	..	30	5848	270.8	275	265	251.0
400	29	7545	256.7	261	253	..	27	7560	259.2	264	253	..	30	7591	261.7	265	254	..
300	28	9644	241.4	250	236	..	25	9686	244.7	253	238	..	28	9744	248.3	253	242	..
250	27	10905	230.1	240	222	..	24	10975	234.4	243	229	..	27	11046	239.2	244	233	..
200	26	12364	218.4	228	209	..	23	12471	222.6	230	214	..	25	12571	227.4	232	223	..
175	26	13198	212.1	218	205	..	23	13325	216.9	221	211	..	25	13448	220.9	225	216	..
150	23	14163	205.1	212	197	..	22	14293	209.6	214	201	..	23	14418	214.0	219	209	..
125	21	15231	200·4	205	193	..	19	15385	203.3	209	197	..	21	15536	205.7	212	201	..
100	20	16539	196·7	202	190	..	17	16730	197.5	204	191	..	18	16877	199.7	207	194	..
80	14	17840	199·9	209	192	..	13	18057	200·4	207	193	..	13	18171	199.8	205	193	..
70	13	18588	201·9	211	194	..	12	18849	202.7	209	193	..	11	18980	202.4	213	194	..
60	12	19539	203.7	211	197	..	11	19759	205.3	211	195	..	8	19852	205.9	217	198	..
50	9	20642	206·2	213	203	..	9	20854	207.0	215	196	..	8	20958	209.3	221	200	..
40	5	21947	208·2	213	203	..	..	..	..	..	..	..	7	22335	211.3	221	200	..
30	..	..	..	..	..		..	..	..	..	..		5	24086	213.8	218	206	

	PORT BLAIR (997 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (1000 mb.)					
Surface	30	079	299.1	301	296	297.0	30	064	299.6	302	297	296.5	29	008	302.7	305	299	299.8
1000	30	055	..	..	..		30	072	..	..		..	29	017	..	..	..	..
900	30	977	293.7	297	291	289.4	30	915	293.0	295	290	289.7	29	948	296.1	301	293	290.2
850	30	1471	291.7	295	289	285.6	30	1488	290.2	292	286	286.7	29	1446	293.0	297	290	286.8
800	30	1989	289.1	292	286	282.1	30	2005	287.6	291	284	283.2	29	1968	291.2	297	287	280.9
700	30	3114	282.4	286	279	276.0	30	3127	282.6	286	277	274.3	29	3104	285.9	291	280	274.3
600	29	4381	275.6	278	272	271.0	30	4392	275.4	279	270	267.1	29	4379	277.6	283	273	268.2
500	29	5833	267.3	271	263	..	30	5845	267.2	272	262	..	29	5844	270.1	275	264	..
400	28	7550	257.3	262	250	..	30	7559	256.4	262	248	..	28	7577	259.7	266	253	..
300	27	9665	242.1	248	235	..	28	9655	240.6	250	228	..	19	9705	244.2	251	235	..
250	24	10940	233.5	239	224	..	26	10922	231.0	243	220	..	14	10986	234.6	246	224	..
200	23	12431	220.9	229	208	..	23	12406	220.2	231	210	..	12	12471	221.8	227	213	..
175	19	13290	214.5	225	209	..	21	13260	214.0	227	203	..	10	13352	215.6	222	210	..
150	16	14229	206.6	220	198	..	17	14191	206.2	222	195	..	9	14319	209.8	218	207	..
125	13	15303	200.0	213	193	..	11	15331	203.9	217	196	..	8	15407	202.9	207	198	..
100	7	16648	198.4	205	192	..	10	16674	201.4	211	191	..	8	16705	196.9	207	193	..
80	..	..	..	..	..	..	6	18027	203.2	207	195	..	6	18101	198.8	212	194	..
70	..	..	..	..	..	..	6	18817	203.2	208	195	..	5	19040	202.4	216	189	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

June 1961 (Jyaistha 11—Asadha 9, 1882 Saka)

Standard Pressure Surface mbs.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	302.6	305	299	298.4
1000	30	003	..	..	..	..
900	30	938	297.2	303	292	290.7
850	30	1437	294.0	299	289	288.8
800	30	1960	290.8	296	286	285.5
700	30	3088	283.3	286	280	279.7
600	30	4354	275.5	279	272	273.2
500	30	5807	267.3	274	263	..
400	29	7522	256.9	263	252	..
300	29	9629	242.0	253	234	..
250	29	10897	231.7	244	225	..
200	28	12372	218.6	234	208	..
175	27	13185	211.3	221	201	..
150	27	14141	203.2	215	194	..
125	25	15234	198.5	208	184	..
100	22	16490	194.4	203	185	..
80	17	17783	198.2	209	186	..
70	14	18558	199.2	214	186	..
60	10	19501	201.5	219	190	..
50	8	20576	205.4	218	192	..
40	6	21903	206.3	218	189	..

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

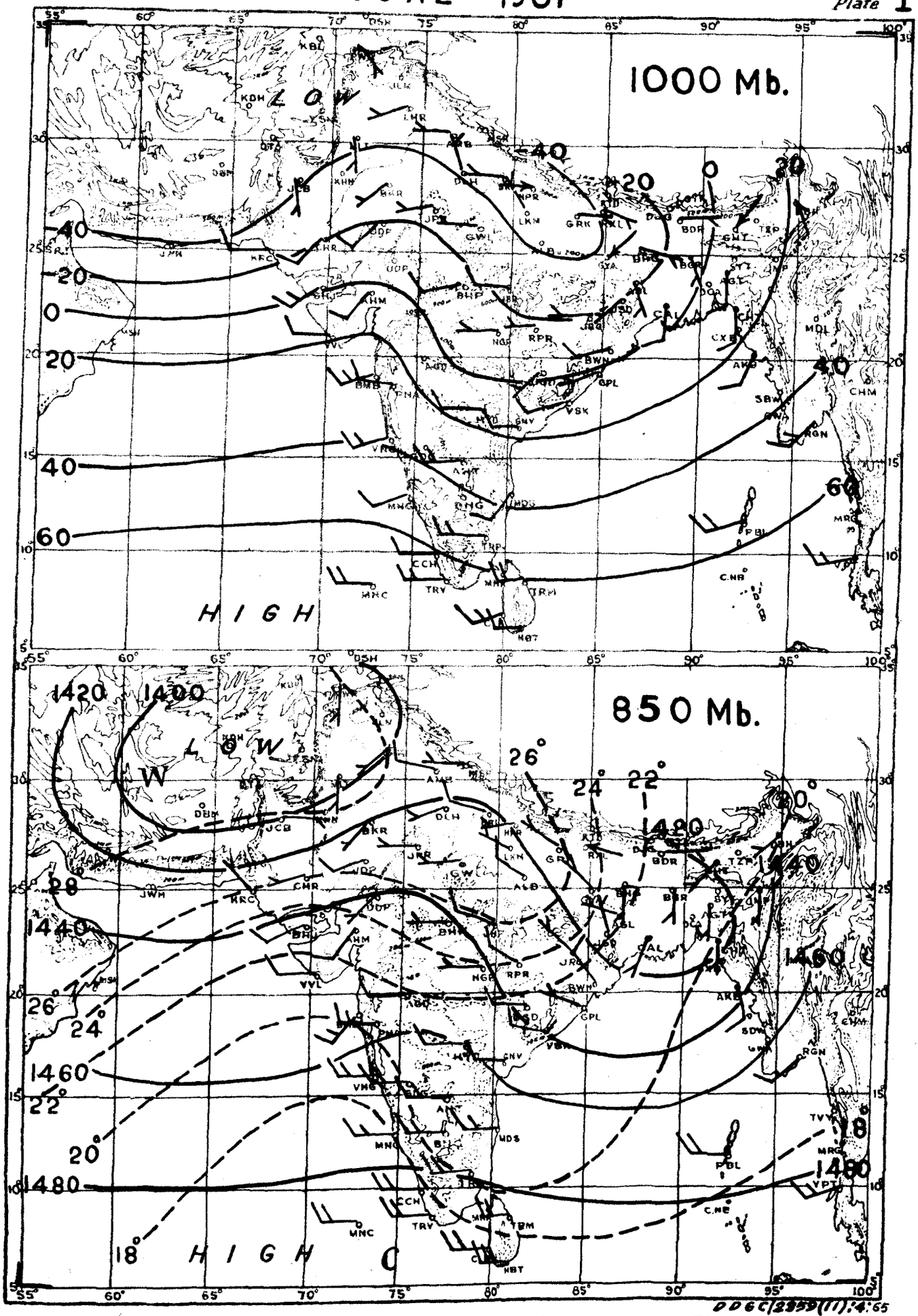
GIPN—S2—261 D. G. Obs. P/65—4-12-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

JUNE 1961

Plate I



DDGC(2359)(11):4:65

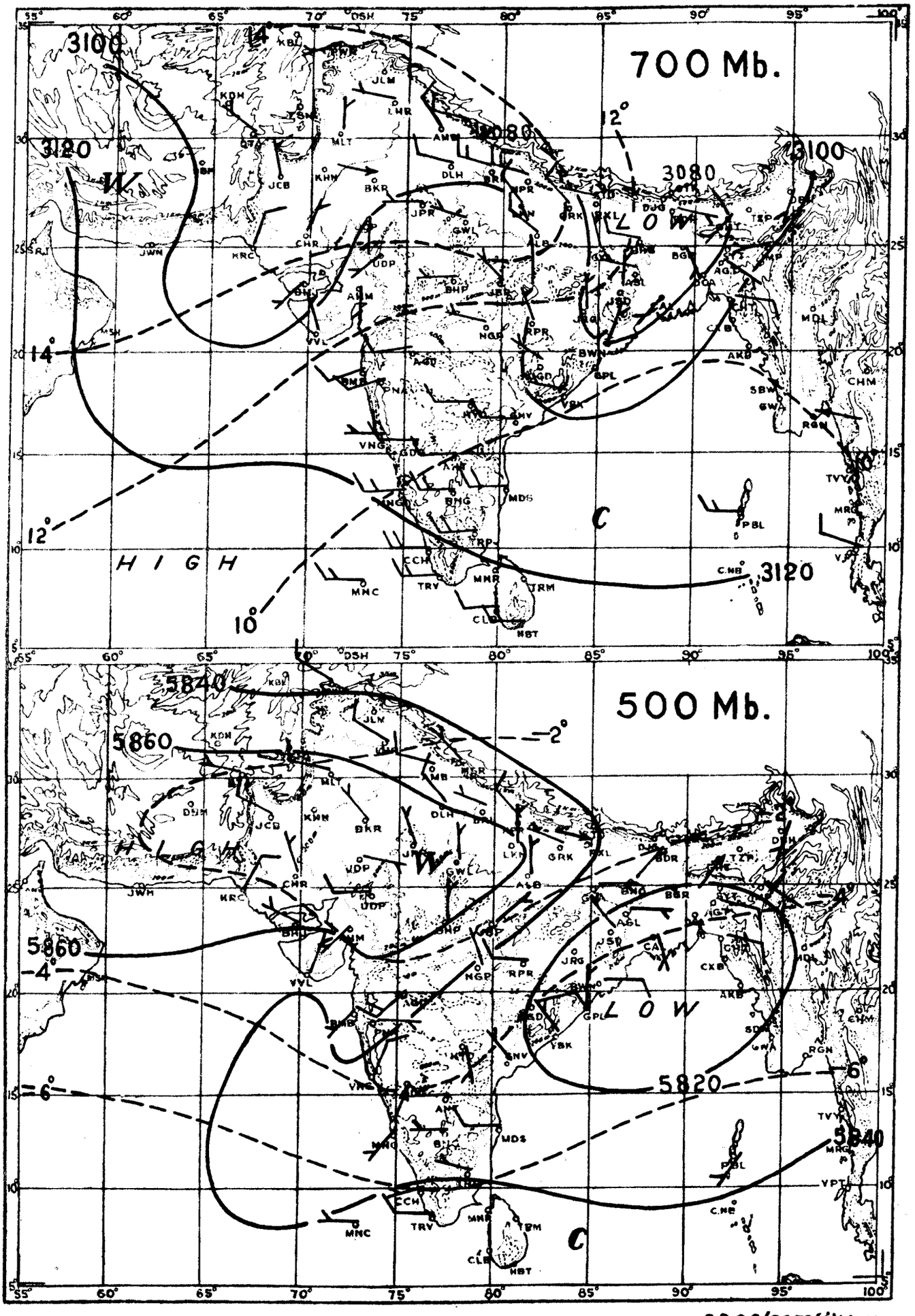
RESULTANT WIND — 5 Knots, — 10 Knots, — 50 Knots.

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

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JUNE 1961

I. Met. D. Plate II



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

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

G.D.Z.D. POONA. 1963

Registered No. B-3097

INDIA WEATHER REVIEW, 1961

Monthly Weather Report

JULY

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U. S. Dept. of Commerce

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Chief features—

(1) Movement of a series of low pressure systems from head Bay of Bengal to Gujarat and South Rajasthan; and

(2) Persistence of active monsoon conditions along the west coast and in the north Peninsula, leading to severe floods in the States of Kerala, Madras, Mysore, Maharashtra and Orissa.

The monsoon trough remained much to the south of its normal position during the month. A depression developed over the northwest angle of the Bay of Bengal on 1st July, crossed coast near Balasore on 2nd evening, lay as a low pressure area over northwest Madhya Pradesh on 4th and became unimportant by 5th. A second depression developed over Saurashtra and Kutch on 2nd, persisted there without appreciable movement for about four days and finally weakened and merged into the seasonal low over Sind and neighbourhood by 7th. A low pressure area developed over Bihar State and neighbourhood on 9th, moved to Uttar Pradesh on 10th and merged in the monsoon trough by 12th. Another low pressure area developed over West Bengal and neighbourhood on 15th, moved in a westerly direction across the country and intensified into a depression over lower Sind and Kutch on 19th morning. It later weakened and merged into the seasonal low over Sind by 21st. One more low pressure area developed over the northwest Bay of Bengal off the Orissa coast on 19th. It moved in a westerly direction, lay over Sind on 26th and merged in the seasonal low by 28th.

In association with this series of low pressure areas and depressions, the monsoon was generally active along the west coast and over the north Peninsula throughout the month. The monsoon activity was well marked in Kerala and south Mysore State in the first week, in the Konkan and adjoining Ghats during the first and second weeks and in Saurashtra and Kutch during the last week of the month. Mercara recorded a rainfall of 135 cm from 1st July to 6th and a total rainfall of 189 cm from 26th June to 6th July. Mahabaleshwar reported a total rainfall of 231 cm from 1st to 11th July. Some other noteworthy amounts of rainfall were : Dahanu 18 cm on 3rd July; Pendra 16 cm on 9th; Surat 24 cm on 10th and Umaria 17 cm on 16th.

In association with this persistent activity of the monsoon, severe floods occurred in the States of Kerala, Madras, Mysore, Maharashtra and Orissa. Floods of the south Peninsula were reported to be comparable with the severe floods of July 1924. Two lakh acres of land were reported to have been inundated in the State of Orissa. Due to the bursting of the two dams on Mutha river, Poona City experienced an unprecedented and devastating flood on 12th July.

A western disturbance affected the extreme northern parts of the country from 28th to 30th July. The western part of the monsoon trough which had remained very much to the south of its normal position practically throughout the month also shifted northwards to the Punjab (I) on 28th. In association with this, the monsoon remained active in parts of Uttar Pradesh and the adjoining Punjab (I) after 28th July. Kheri Lakhimpur reported 24 cm of rain, Nainital 19 cm and Mandi 14 cm on 29th. Jammu reported an exceptionally heavy fall of 34 cm on 31st. Due to the heavy rains, the river Ravi was in floods. A village named Daduwa in the Chamali border district of Uttar Pradesh was completely destroyed by a landslide and considerable loss of life occurred.

The rainfall for the month was in large excess in Saurashtra and Kutch, Madhya Maharashtra, Marathwada and Mysore State, in moderate excess in east Madhya Pradesh, Gujarat Region, the Konkan, Andhra Pradesh, the Madras State and Kerala and in slight excess in Orissa, west Uttar Pradesh and the Arabian Sea Islands. It was normal in the Bay Islands, east Uttar Pradesh, the Punjab (I), east Rajasthan, west Madhya Pradesh and Vidarbha, in slight defect in Assam, Bihar Plateau, Jammu and Kashmir and west Rajasthan, and in moderate defect elsewhere over the country outside Himachal Pradesh.

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The mean maximum temperature was below normal in Orissa, west Rajasthan, Madhya Maharashtra, Marathwada, coastal Andhra Pradesh, Rayalaseema, the Madras State and the Mysore State and normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in Jammu and Kashmir, below normal in Bihar Plateau and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Rajasthan, Saurashtra and Kutch, Madhya Maharashtra, Marathwada, Telangana, Rayalaseema, the Madras State and Interior Mysore State and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Jammu and Kashmir, Telangana, the Madras State, north Interior Mysore and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,
The 18th August 1961.

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

Errata to M.W.R. for July 1961 (Asadha 10. - Sravana 9, 1883 Saka).

Page No.	Station	Hour	Column	For	Read
Table I Division					
347	11. Maharashtra State		2	65.0	625.0
Table II					
348	Tura		20(a)	1	0
350	Agra Aerodrome		25	1	0
350	Mandi		22	12	0
350	Mandi		23	0	12
351	Bhopal (Bairagarh)		28	2	0
351	Raipur		28	2	0
351	(Foot note)		-	(Not given)	(o) Mean of 16 days.
352	Keshod		12	313.5	312.5
353	Balehonnur		7	(Not clear)	-0.4
354	Mysore		3	1.2	-1.2
354	Ramgarh		20(b)	7	27
355	Okhaldunga		13	41.8	41.4
Table III					
356	Dibrugarh (Mohanbari)	1130	5	998.0	988.0
357	Imphal (Tulihal)	1130	17	2	0
358	Calcutta (Dum Dum)	1130	19	2	0
358	Sambalpur	0830	9	25.4	24.0
358	Sambalpur	0830	14	-0.8	0
359	Bhubaneswar	0830	14	+1.2	+0.2
359	Dumka	1730	5	979.9	979.8
359	Ranchi Aerodrome	1730	5	924.6	924.7
359	Purnea	1730	27	7	12
361	Fatehpur	0830	14	0	..
362	Ludhiana	0830	15	5.6	5.5
362	Halwara (Aerodrome)	1730	5	969.7	969.6
362	(Foot note)	-	-	(ii) Mean of 21 days.	(j) Mean of 21 days.
366	Jagdalpur	0830	14	+9.9	+0.9
366	Jagdalpur	2330	9	20.8	21.8
366	Broach	0830	3	12	17
366	Bhuj (Rudramata)	0830	12	+1.0	+10
366	Bhuj (Rudramata)	0830	13	.6	6.6
367	Bhavnagar Aerodrome	0830	14	..	-0.6
367	Mahuva	1730	20	0	1
367	Dahanu	0830	22	0	3
367	Bombay	1730	4	1001.1	1001.3
367	Devgad	0830	6	..	-1.1
367	Devgad	1730	21	0	1
368	Ahmadnagar	0830	12	+1.0	+10
369	Akola	1130	4	1006.1	1000.6
369	Bramhapuri	0830	5	975.9	975.4
369	Yeotmal	1730	4	997.5	997.6
369	Nellore	0530	9	22.9	22.7
371	Karwar	0830	6	-0.1	-1.0
371	Belgaum	0830	6	-1.1	-1.2
371	Belgaum (Samra)	1730	20	(Blank)	0
372	Bangalore	1730	28	1	0
372	Trivandrum	0530	10	8.3	28.3
372	Dharmsala	1730	11	8	80
372	Dharmsala	1730	13	6.	6.3
373	Joshimath	0830	18	15	25
373	Kalimpong	0830	12	6	-6
374	Hirakud	0830	3 to 5	Data of 1130 should be read.	

Page No.	Station	Hour	Column	For	Read
Table III (continued)					
374	Hirakud	1130	4-5	Data of 1730 should be read.	
375	Hirakud	1730	4-5	Data of Bhimkund 0830 should be read.	
375	Daroi	0830	7	26.3	26.7
375	Dandeldhura	1730	11	9	91
375	Sallayana	0830	11	8	89

* * * * *

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
377	Gauhati	-	-	Approximate times of flights (IST)	2300	2330
Table IV						
379	Anantapur	0530	0.6 to 2.1	n V v D	Values for the levels 0.6 to 2.1 are slightly printed up.	
379	Baghdogra	1730	7.2	v	2.4	2.5
379	Bairagrh	2330	0.6	D	300	308
379	Bairagarh	2330	4.5	D	3.5	035
380	Bamrauli	1130	0.15 ag	D	580	080
386	Madras	1130	5.4	V	10.2	10.0
387	Mohanbari	2330	2.1	D	273	237
387	Nagpur	1730	9.0	V	0.9	9.9
388	Poona	1730	1.5	n	25	20
389	Santa Cruz	0530	0.9	D	263	260
391	Veraval	2330	0.6	V	12.2	12.6
Table V						
392	Gannavaram	0530	10.5	v	11.5	12.5
392	Gauhati	1730	-	Time of ascent	1730	1730*
393	Trivandrum	0530	16.2	V	04.3	24.3
393	Trivandrum	1730	16.2	v	34.6	24.6
393	Visakhapatnam	1730	18.0	V	25.1	25.9
Table VI - (RADIOSONDE DATA)						
395	Allahabad	00 GMT	800 mb.	Dew Pt.	283.6	289.1
399	Port Blair	12 GMT	850 mb.	Max.	95	295
399	Port Blair	12 GMT	800 mb.	Max.	92	292
399	Port Blair	12 GMT	700 mb.	Mean	28	282.7
399	Port Blair	12 GMT	600 mb.	Mean	275.	275.4
399	Port Blair	12 GMT	400 mb.	Mean	25.3	256.3
399	Port Blair	12 GMT	100 mb.	Mean	290.2	200.2

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura).	375·0	89	31·9	25.2	85	76	6·7	5·3
	−44·3		+0·8	+0·5	0		+0·1	
2. West Bengal	139·4	46	31·2	25·6	84	80	6 3	5·8
	−164 6		−0 4	−0·2	0		−0·2	
3. Orissa	413 9	119	29·4	24·7	88	85	6·6	6·9
	+65·9		−1·2	−0·4	+4		+0·3	
4. Bihar	235·1	90	32 0	25·1	83	79	6 7	6·4
	−27.2		+0·1	−0·4	+1		+0 4	
5. Uttar Pradesh	337·1	108	33·8	26 2	82	71	5 5	5·3
	+24.8		+0·2	0	+3		+0·1	
6. Punjab (India) (Including Delhi).*	189·8	97	35·6	26·9	77	61	4 3	4 2
	−6·1		−0·4	+0·1	+5		0	
7. Jammu and Kashmir	35·7	75	26·2	14·4	65	54	4·7	4·7
	−11·8		+0·5	+1·4	−3		+1·1	
Sub-division								
1. Bay Islands.	357·4	91	28·6	24·2	86	88	7·5	7·5
	−34·5		−0·2	+0.3	+2		+0·9	
2. Assam (Including Manipur, Tripura).	375·0	89	31·9	25·2	85	76	6·7	5·3
	−44·3		+0·8	+0·5	0		+0·1	
3. Sub-Himalayan West Bengal.	488·4	71	31·3	25·5	87	82	6.4	5·9
	−197·9		−0·2	+0·2	+1		+0·3	
4. Gangetic, West Bengal.	172·5	53	31·2	25·7	83	80	6·3	5 8
	−151·7		−0·4	−0·3	0		−0·4	
5. Orissa	413·9	119	29·4	24·7	88	85	6·6	6·9
	+65 9		−1·2	−0·4	+4		+0·3	
6. Bihar Plateau	292·0	84	30·8	23·6	84	81	7·1	6·9
	−55·0		−0·3	−1·2	+2		+0·8	
7. Bihar Plains	200·9	66	33·1	26·6	82	76	6·2	6·0
	−105·2		+0·6	+0·4	0		0	
8. Uttar Pradesh (East).	295·0	93	33·6	26·5	82	73	5·8	5·7
	−21·8		+0·3	+0·2	+2		+0·2	
9. Uttar Pradesh (West).	384·5	125	33·9	25·8	83	70	5·2	5·4
	+77·1		+0·3	−0·1	+5		0	
10. Punjab (India) (Including Delhi)	189·8	97	35·6	26 9	77	61	4·3	4·2
	−6·1		−0·4	+0·1	+5		0	
11. Himachal Pradesh	627·5	..	31·7	22·7	91	75	6·3	5·7
	..		..	..	..		..	
12. Jammu and Kashmir	35·7	75	26·2	14·4	65	54	4·7	4·7
	−11·8		+0·5	+1·4	−3		+1·1	
13. Rajasthan (West)	64·5	82	36·1	27·1	75	54	4·1	4·7
	−14·1		−1·2	−0·2	+7		+0·1	
14. Rajasthan (East)	195·7	90	32·5	25·1	82	69	6·2	6·6
	−22·6		−0·5	−0·5	+5		+0·8	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	122·8	87	34·3	26·1	79	62	5.2	5·7
	−17·9		−0·9	−0·1	+6		+0·5	
9. Madhya Pradesh	461·8	122	29·9	23·4	88	80	7·2	7·1
	+81·9		−0·5	−0·3	+4		+0·6	
10. Gujarat State	382·3	147	31·3	25·1	89	80	6·9	6·9
	+122·0		−0·8	−1·7	+6		+0·4	
11. Maharashtra State	625·0	140	28.9	23.2	88	80	7.4	7.3
	+179.4		−1.0	−0·3	+6		+0.3	
12. Andhra Pradesh	186.4	137	31·3	24·4	80	70	7·0	6·9
	+50·4		−1·6	−0 5	+6		+0·8	
13. Madras State	80·9	132	32·9	24·9	76	65	7·2	7.2
	+19·8		−1.5	−0·2	−8		+2·3	
14. Mysore	606·9	170	26·8	21·0	91	82	7·7	7·8
	+245·5		−1·7	−0·1	+8		+1·2	
15. Kerala	798·6	148	28·1	23·3	91	86	7·0	7·0
	+260·6		−0·3	−0·1	+4		+0·3	
Sub-division—*contd.*								
15. Madhya Pradesh (West).	357·0	103	30·3	23·5	88	79	7·3	7·2
	+11·8		−0·3	−0·3	+4		+0·7	
16. Madhya Pradesh, (East).	595·1	140	29·4	23·4	88	82	7·1	7·1
	+171·1		−0·7	−0·4	+4		+0·4	
17. Gujarat Region	421·4	130	31·2	24·7	89	79	7·0	6·8
	+98·2		−0·7	−0·4	+4		+0·1	
18. Saurashtra and Kutch.	351·0	167	31·5	25·6	88	80	6·8	6·8
	+141·0		−0·9	−0·5	+8		+0·6	
19. Konkan	1076·2	142	28·5	24·7	90	88	7·8	7·7
	+318·6		−0·8	−0·3	+5		+0·6	
20. Madhya Maharashtra	569·3	158	28·1	21·9	87	76	7·1	7·1
	+208·4		−1·2	−0·1	+8		−0·4	
21. Marathwada	319.4	179	28.8	21·9	90	74	7·5	7.1
	+140.8		−1.2	+0.3	+9		+0.5	
22. Vidarbha	369·2	110	29·8	23·3	88	79	7·4	7·5
	+24·7		−0·9	−0·5	+5		+0·7	
23. Coastal Andhra Pradesh.	152·7	132	32·0	25·1	80	73	6·7	7·1
	+26·6		−1·6	−1·0	+5		+0·3	
24. Telangana	299·2	140	30·0	23·2	84	72	7·4	7·0
	+85·2		−1.0	−0·1	+6		+1·5	
25. Rayalaseema	140·9	145	31·9	24·6	75	61	7·1	6·4
	+43·4		−2·5	−0·1	+6		+0·9	
26. Madras State	80·9	132	32·9	24·9	76	65	7·2	7·2
	+19·8		−1·5	−0·2	+8		+2·3	
27. Coastal Mysore	1573·3	153	27·2	22·5	94	92	7·9	7·9
	+545·7		−1·2	−1·0	−1		+0·9	
28. Interior Mysore (North).	294·4	172	28·0	21·6	89	79	7·8	7·9
	+122·8		−1·6	+0·2	+8		+1·7	
29. Interior Mysore (South).	436·1	200	25·4	19·9	91	80	8·0	7·6
	+218·2		−1·9	−0·1	+10		+0·8	
30. Kerala	798·6	148	28·1	23·3	91	86	7·0	7·0
	+260·6		−0·3	−0·1	+4		+0·3	
31. Arabian Sea Islands.	297·3	113	29·6	24·7	85	83	7·3	7·5
	+34·8		0	−0·4	+4		+1·5	

NOTE.—The entries in the second line for each division and sub-division indicate departures from normal.
*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 mm and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·1	..	30·0	4 days	23·8	..	21·8	9	84·2	296·5	..	50·0	1	20	..	24·4	17·3	..	0	22	0	0	0	0	0	0	0	0	0
Long Island	31·1	..	32·8	25,26	24·0	..	21·7	13	144·0	381·8	..	62·0	1	19	..	9·3	6·2	..	0	22	0	0	2	0	0	0	0	0	0
Port Blair	28·6	−0·2	29·8	13	24.2	+0·3	21·8	27	176·7	357·4	−34·5	90·8	27	16	−4·5	26·5	20·9	−4·7	1	23	0	0	2	0	0	0	0	6	0
Car Nicobar	29·8	..	30·7	7,17	23·9	..	19·9	14	41·5	179.1	..	46·3	27	11	..	5.6	3·3	..	0	14	0	0	3	0	0	0	0	0	0
Nancowry	29.6	..	30·7	14	25.4	..	22·8	28	66·5	152·0	..	29·2	1	10	..	11·8	10·0	..	1	13	0	0	2	0	0	0	0	0	0
Kondul	29·4	..	31·4	12	24·7	..	23·2	27	51·8	148·0	..	60·2	26	9	..	..	..	..	0	14	0	0	3	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	31·0	..	36·0	21	23·9	..	22·2	14	222·8	738·3	..	199·3	14	20		2·9	2·6	..	0	26	0	0	2	0	0	0	0	0	0
Dibrugarh,(Mohanbari)	31·4	+1·0	35·6	21	24·6	+0·5	21·5	23	120·8	568·5	+32·0	56·0	11	23	+1·7	4·8	3·6	−0·3	1	29	0	0	16	1	0	0	0	0	0
Dibrugarh	31·7	+1·0	37·1	21	24·7	+0·6	22·8	15	34·2	496·0	−40·5	46·0	11	24	+2·7	1·8	1·3	−0·3	2	27	0	0	14	0	0	0	0	0	0
Digboi	35·0	..	36·7	3,27	19·1	..	16·6	14	70·5	337·5	..	72·5	10	17	..	..	..	..	0	17	0	0	0	0	0	0	0	0	0
North Lakhimpur	32.2	+1.2	36 9	1	24·9	+0.3	23·5	9,23	49·0	533·1	−83.8	56·4	4	20	−2·1	..	..	..	0	26	0	0	13	0	0	0	0	0	0
Sibsagar	32·6	+0·8	36·2	21	25·7	+0·3	24.1	5	45·2	397·8	−59·1	43·8	28	24	+4·3	5·0	4·5	+1·0	0	28	0	0	9	0	0	0	0	0	0
Gohpur	33·0	..	36·0	4	25·2	..	23·8	1,22	0	349·8	..	51·4	5	12	..	..	..	..	0	12	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	57·4	292·0	..	70 4	10	14	..	6·3	3 0	..	0	14	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	33·1	..	36·7	21	25·1	.	23·3	5	25.9	374.6	..	69·6	12	22	..	..	.	..	0	23	0	0	11	0	0	0	0	0	0
Tangla	33 3	..	37·6	21	25·1	..	21·2	25	11·1	150·9	..	33·5	10	13	..	2·1	0·9	..	0	15	0	0	2	0	0	0	0	0	0
Tezpur	32 4	+0·5	35 6	4,5	26 0	+0·7	24·5	1,12	63·5	357·9	−10·2	64·0	22	15	−1·9	6·0	4·4	+1·7	1	20	0	0	0	0	0	0	0	0	0
Golaghat	33·3	..	36·7	21	25.1	..	22·2	21	(f) 44·0	406·4	..	75·0	9	17	..	..	..	..	0	19	0	0	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	.	..	..	..	..		..
Chaparmukh	34·5	..	43·9	6	25·9	..	23·8	22	53·4	542·4	..	216·1	14	15	..	4·7	4·7	..	0	15	0	0	5	0	0	0	0	0	0
Goalpara	32·9	..	35·1	3	24·4	..	21·1	12	(a) 126·2	439·8	..	63·4	13	18	..	(b) 5·2	(b) 3·1	..	0	18	0	0	0	0	0	0	0	0	0
Gauhati	32·8	+0·7	36·1	21	26·5	+0·8	25·4	12,14	60·8	388·2	+76·3	90·0	11	8	+2.7	0	0	−2·3	0	20	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor)	32·7	+1·1	34·8	21	25·9	+0·7	23·9	25,26	115·1	362·7	+50·8	63·6	25	20	..	7·5	5·8	..	0	26	0	0	23	0	0	0	0	0	0
Dhubri (Rupsi)	32·3	..	34·9	21	25·9	..	24·3	14	49·2	326·5	..	71·8	14	16	..	6·1	3·8	..	1	20	0	0	10	0	0	0	0	0	0
Dhubri	31·5	+1·5	34·7	21	26·6	+0·9	24·6	25	91·8	269·4	−167·2	59·2	29	13	−3·1	3·6	3·0	−3·0	0	14	0	0	1	0	0	0	0	0	0
Lumding	34·2	+1·3	36·8	4	25·3	+0·6	21·7	6	28·0	185·0	−7·8	50·0	1	10	−1·5	5·2	3·3	..	0	13	0	0	0	0	0	0	0	0	0
Umroi	28·8	..	31·8	21	21·1	..	19·5	21	80·1	194·5	..	64·0	28	16	..	7·3	4·3	..	0	25	0	0	22	2	0	0	0	0	0
Tura	29·5	..	32·3	3	22·0	..	20·3	25	139·3	298·7	..	72·1	31	13	..	7·5	5·9	..	1	19	0	0	0	0	0	0	0	0	0
Haflong	29 1	..	32·4	21	21·8	..	19·9	17	37·2	319·6	..	44·2	11	21	..	..	..	..	0	23	0	0	4	0	0	0	0	0	0
Silchar (Kumbhigram)	32·4	..	35 8	2,4	23·9	..	21·8	17	50·5	718·9	..	104·4	4	24	..	6 2	5·1	..	0	25	0	0	12	1	0	0	0	0	0
Silchar	31·3	−1·0	34·4	3	25·3	+0·2	23.1	17	69·4	405·5	−115·7	61·8	27	24	+1·3	(a) 3·3	(b) 2·3	−0·4	2	24	0	0	6	0	0	0	0	0	0
Imphal (Tulihal)	29 4	+1·0	31·9	24	22·1	+0·3	18·1	20	70·0	212·6	−39·9	39·2	17	12	−5·7	7·9	5·8	−0·7	1	21	0	0	5	0	0	0	0	0	0
Kailashahar	32·8	..	35·0	3,21	24·8	..	19·7	17	51·2	251·2	..	64·0	25	16	..	6·8	4·8	..	0	23	0	0	16	1	0	0	0	0	0
Agartala	31·9	+0·7	36·2	26	25·0	+0·2	23·8	18,25	71·9	311·1	−71·1	68·2	28	13	−3·6	11·3	9·4	−0·1	0	23	0	0	9	0	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	31·9	+0·9	34·6	21	24·8	+0·1	21·9	31	109·7	650·5	−198·0	121·2	13,27	18	−4·9	14·0	11.3	+3·8	0	24	0	0	14	0	0	0	0	0	0
Jalpaiguri	29·7	−1 7	33·6	21	25·1	−0·1	22·3	14	49·2	483·0	335·4	160·8	30	17	−5·3	10·0	7·5	+4·3	0	19	0	0	8	0	0	0	0	0	0
Cooch Behar	32·4	..	35·6	21	25·3	..	23·4	30	101·4	651·9	−134·7	296·6	14	17	−3·5	5·6	3·5	..	0	20	0	0	18	0	0	0	0	0	0
Balurghat	32·7	..	35·0	28	25·1	..	23·3	26	72·2	135·3	..	33·1	30	10	..	10·0	7·4	..	1	16	0	0	3	0	0	0	0	0	0
Malda	32·2	+0·1	34·4	28	26·6	+0·5	25·2	6	76·0	168·0	−123·6	55·2	14	7	−7·8	11·1	8·7	+0·2	0	15	0	0	7	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	32·6	+0·5	35·4	26	24·7	−1·4	23·2	15	80·7	150·7	−125·4	28·8	6	14	−2·1	8·0	6·5	+1·0	0	16	0	0	0	0	0	0	0	0	0
Suri	32·2	..	34·8	28	25·5	..	24·1	9	80·0	287·6	..	21·2	12	13	..	11·0	9·2	..	0	22	0	0	1	0	0	0	0	0	0
Asansol	31·5	−0·6	34·4	28	25·6	+0·2	23·8	15	141·5	225·5	−122·2	79·4	5	15	−2·7	10·1	7·6	−0·3	1	20	0	0	14	0	0	0	0	0	0
Shanti Niketan	31·8	..	34·1	31	25·7	..	24·2	14	173·8	295·8	..	83·0	29	15	..	13·0	11·8	..	2	22	0	0	11	0	0	0	0	0	0
Krishnanagar	32·2	0	34·8	31	25·9	0	24·4	17	96·2	172·1	−113·6	65·8	15	12	−4·3	7·2	5·3	−0·5	2	16	0	0	1	0	0	0	0	0	0
Purulia	30·7	−1·0	35·1	28	25·0	0	23·6	15	53·0	128·3	−210·5	16·4	5	15	−3·3	8·5	6·3	+0·3	0	17	0	0	2	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	158·0	−171·7	34·0	5	13	−2·7	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Burdwan	30·3	−2·0	32·9	30	25·8	−0·3	24·4	15,18	125·9	207·4	−117·7	34·6	15	13	−3·0	(e) 16·0	(f) 9·3	+5·1	0	23	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	32·0	..	34·5	31	25·7	..	23·9	17	55·6	74·7	..	22·1	15	11	..	..	..	..	0	18	0	0	6	0	0	0	0	0	0
Calcutta (Dum Dum)	31.9	+0·1	34·4	1	25·8	−0·3	24·2	17	65·8	88·1	−231·2	20.0	8	10	−8·1	11·3	9·3	−2·5	1	19	0	0	5	0	0	0	0	0	0
Calcutta	32·0	+0·1	34·6	25	26·3	+0·4	24·4	17	56·5	108·6	−216·8	16·2	4	10	−7.5	9·8	7·7	+1·7	0	16	0	0	4	0	0	0	0	1	0
Midnapore	31·4	−0·7	34·0	31	25·8	−0·3	24·4	16,17	123·8	236·2	−87·4	56·2	13	15	−1·3	..	..	..	1	17	0	0	1	0	0	0	0	0	0

(e) Mean of 26 days. (f) Total for 25 days. (R) Register not received. (a) Meanof 30 days. (b) Mean of 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*contd.*)																													
Contai	30·2	−0·6	32·3	31	26·1	−0·2	24·2	16	42·7	169·2	−133·8	45·0	1	13	−1·8	15·1	13·1	+0·6	0	17	0	0	0	0	0	0	0	0	0
Sagaor Island	29·6	−1·2	31·5	1	25·9	−0·8	19·1	17	67·5	253·4	−138·8	49·8	1	14	−2·5	29·4	29·1	+9·6	0	22	0	0	3	0	0	0	2	0	0
Sandheads	30·1	..	31·0	26,27	26·5	..	24·1	5	38·5	187·7	−90·4	45·0	31	13	+0·3	..	..	..	0	20	0	0	1	0	0	0	0	0	0
Orissa																													
Baripada	31·4	..	34·7	31	25·4	..	24·6	9	36 2	94·2	..	22·8	6	9	..	3·5	2·6	..	0	15	0	0	2	0	0	0	0	0	0
Jharsuguda	28·9	−2.0	33·9	28	24·3	−0·3	22·2	8,9	288·8	770·7	+336·4	189·8	8	19	+0·2	12·3	9·9	+0·3	0	24	0	0	6	0	0	0	0	0	0
Keonjhargarh	28·1	..	32·7	30	23·1	..	22·1	17	116.9	238·9	..	55·1	4	17	..	8·3	6·6	..	0	21	0	0	0	0	0	0	0	0	0
Balasore	30·6	−1·1	33·0	1	25·9	+0·1	23·9	16	47.1	163·3	−136·4	25·5	6	14	−0·1	14·9	10·2	+3.3	0	19	0	0	4	0	0	0	0	0	0
Sambalpur	30·0	−0·7	35·8	27	24·2	−0.9	22·7	1,8, 17	249·9	720·7	+198.5	118·1	2	21	+1.4	8·5	8·5	+2·2	0	23	0	0	0	0	0	0	0	0	0
Angul	30·2	−1·0	34·6	30	25·0	−0.1	22·9	17	158·5	386·9	+70·2	107·4	6	14	−1·2	11·8	8·3	+0·3	0	19	0	0	0	0	0	0	0	0	0
Cuttack	30·8	−1.1	35·3	28	25·6	−0.1	23·6	16	186·0	393·2	+65.8	105·8	2	15	−0·9	10·1	7·1	+2.9	0	17	0	0	1	0	0	0	0	0	0
Chandbali	30·5	−0.7	33·6	29	24·6	−1·0	22·2	17	186·0	314·9	−110·3	68·0	17	12	−4·8	14·4	11·1	−0·3	0	20	0	0	0	0	0	0	0	0	0
Bolangir	29·6	..	35·1	30	24·4	..	22·8	9	113·6	410·8	..	101·0	16	19	..	17·0	16·8	..	0	22	0	0	5	0	0	0	0	0	0
Phulbani	28·3	..	32·8	28	23·0	..	22·1	9	81·3	222·4	..	55·9	6	15	..	13·8	5·9	..	0	20	0	0	0	0	0	0	0	0	0
Titlagarh	30·8	..	36·1	29,31	23·9	..	22 2	10	163·9	381·9	..	78·5	2	15	..	(a) 2·3	(b) 3·3	..	0	17	0	0	7	0	0	0	0	0	0
Bhubaneswar	30·1	−1·4	33·4	29	25·1	−0·4	23·1	26	212·6	368 9	+76·8	51·4	2	15	+0·1	22·3	18·5	+2·6	2	18	0	0	8	0	0	0	0	0	0
Puri	29·7	−1.0	32·3	30	26·5	−0.1	24·9	2	128·6	304·8	+42.7	148 4	2	11	−1·0	24.9	26.0	+7·8	2	14	0	0	2	0	0	0	1	0	0
Gopalpur	29·4	−1·5	33·8	20	25.4	−0·8	23·8	17	160·8	243·7	+61·8	54·6	11	11	+1·3	22·3	15·5	+1·2	0	15	0	0	2	0	0	0	0	0	0
Koraput	24·1	−1·4	28·6	25	20·1	−0·3	18·3	17	107·9	471·6	+53·5	56·6	12	22	+2.1	..	..	..	0	23	0	0	4	0	0	0	0	0	0
Bihar Plateau																													
Dumka	31·3	−0·6	34·4	28	25·3	−0·3	24·2	10	67·8	172·6	−178·4	30·4	28	18	0	9·9	7·3	+3·6	0	22	0	0	1	0	0	0	0	0	0
Daltonganj	32·4	−0·4	36·3	28	25·3	−0·3	23·7	15	118·0	248.6	−91.8	37·6	12	18	+2·4	..	..	..	0	21	0	0	0	0	0	0	0	0	0
Hazaribagh	29·0	−0·6	32·3	27	23·2	−0·1	22·0	15	140·6	421·5	+90·5	50·2	28	22	+4·2	10.8	8·8	−1·0	0	25	0	0	17	0	0	0	0	0	0
Dhanbad	30·8	..	34·0	28	24.5	..	23.0	15	130·4	255·2	..	58·8	5	17	..	9·8	7.2	..	0	23	0	0	1	0	0	0	0	0	0
Ranchi	30·4	+1·3	35·1	21,23	..	..	..	..	261·5	363·0	−29·4	57·3	30	16	−2·5	7·6	5·8	−2·2	0	18	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	28·0	..	32·3	28	22·7	..	21·7	9,10, 15	(i) 129·0	262·6	..	33·8	13	18	..	(i) 12·4	11·6	..	1	25	0	0	4	0	0	0	0	0	0
Jamshedpur	31·2	−0.6	34·4	28,29	25·5	−0·4	23·1	1	157.8	303·5	−30·8	57·0	13	19	+1.6	11·2	7·3	+0·5	0	23	0	0	5	0	0	0	0	0	0
Jamshedpur (P.B.O.)	30·5	..	33·3	29	25·1	..	23·6	10	79.4	215·8	..	32·4	17	20	..	9·6	7·5	..	0	24	0	0	13	0	0	0	0	0	0
Chaibasa	30·8	−1·1	35·0	28	25·0	−0·3	23·7	10, 15	147·0	242·8	−90·2	57·6	13	18	+1·8	6·3	4·4	+0·4	0	21	0	0	5	0	0	0	0	0	0
Bihar Plains																													
Motihari (R)																													
Forbesganj	33.1	..	35·2	20,21	25·9	..	24·3	28	77·6	381·2	..	126·0	14	16	..	9·8	7·7	..	0	21	0	0	11	0	0	0	0	0	0
Darbhanga	34·3	+2·2	38·1	7	26.9	+0·6	22·6	14	52·4	147·0	−160·9	71·4	14	8	−5.9	10.6	9.6	+4.0	0	14	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	130·1	−194·5	50·0	14	4	−10·0	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Chapra	34·1	..	37·2	28	26·6	..	21·4	11	24.5	78·7	−227·9	30·6	14	6	−7.8	2·8	1·5	..	0	11	0	0	1	0	0	0	0	0	0
Purnea	32.4	+0·4	34·7	27	26·2	+0.3	24·4	28	106·6	376·0	+12.3	145·0	28	15	−1·6	8·2	5·7	+1·5	0	16	0	0	5	0	0	0	0	0	0
Patna	33·9	+1·3	36·1	4,8,26	27·1	+0·5	24·0	26	75·1	165·5	−128·6	58·0	12	7	−6·7	8·6	8·7	+1·8	1	10	0	0	4	0	0	0	0	0	0
Patna (Aerodrome)	33·3	..	35·5	4,8	26·7	..	24·1	26	89·0	167·4	..	47·7	11	8	..	12·2	8·8	..	0	16	0	0	17	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	130·6	−200.1	42·6	3	10	−4.5	..	..	..	1	15	..	..	..	..	..	..	..	..	..
Bhagalpur	33·1	+0·6	38·3	27	26·6	+0·4	24.7	10	63·8	97·5	−155·5	44·7	31	5	−8·3	9·6	7·4	+0·8	1	15	0	0	13	0	0	0	0	0	0
Sabour	32·6	+0.2	36.6	28	26·5	+0.2	25·0	10	51·0	124·6	−128·4	28·4	13	10	−5·1	9.5	5.9	−3.8	0	15	0	0	12	0	0	0	0	0	0
Jamui	32·8	..	36·8	27	26·3	..	..	..	24.1	69·9	..	25·2	1	7	..	10·0	7·1	..	1	13	0	0	5	0	0	0	0	0	0
Dehri	32·5	..	35·0	4 days	26·3	..	24·3	15	106·8	328·4	+35·8	73·6	30	14	−0·2	6·5	5·9	..	0	19	0	0	2	0	0	0	0	0	0
Gaya	32·5	−0·9	35·8	27	26·1	+0·2	22·5	1	73·2	430·9	+95·4	74·0	15	17	+1·2	14·6	12.0	+2·8	1	21	0	0	18	0	0	0	0	2	0
Uttar Pradesh (East)																													
Kheri	33·2	+0.5	36·5	4	26·3	+0.4	23·8	8	117·4	598·1	+151.5	235·8	29	13	−0.9	7.0	4·6	+0.4	0	15	0	0	9	0	1	0	0	0	0
Bahraich	33·8	+0·5	37·6	4	26·5	+0·3	23·6	29	89·0	273·2	−37·7	83·8	29	10	−1·9	12·5	9·3	+4·8	0	12	0	0	0	0	0	0	0	0	0
Nautanwa	33·6	..	37·3	6	26·7	..	24·7	31	45·9	279·1	..	61·5	31	10	..	12·2	8·4	..	0	10	0	0	0	0	0	0	0	0	0
Hardoi	33·8	+0.2	38·6	4	26·9	+0.3	24·1	30	216·2	403·8	+69·1	122·8	10	10	−1.5	11·4	8·2	+1·1	1	13	0	0	1	0	0	0	0	0	0
Gonda	33·5	+0·6	36·2	6,28	26·8	+0·5	23·9	29	88·0	300·0	−72·6	90·8	29	10	−4·0	..	..	..	0	12	0	0	0	0	0	0	0	0	0
Lucknow	33·8	+0.2	37.5	8,9	25·7	−0.7	22·2	9	62·2	306·0	+1.2	100·2	29	12	−1·4	5.6	4·7	+1.2	0	16	0	0	3	0	0	0	0	0	0
Lucknow (Amausi)	33·9	+0.3	37·7	4	26·2	+0.3	23·7	29	87·3	416·8	+112.0	166·2	10	10	−3.4	13·5	9·3	..	2	17	0	0	15	0	0	0	0	3	0
Faizabad	33·0	..	35·8	28	26·0	..	23·0	31	83·4	348·0	..	88·2	31	10	..	6·0	4·2	..	0	13	0	0	9	0	0	0	0	0	0
Gorakhpur	34·1	+1·4	36·8	28	27·1	+0·9	24·6	31	22·9	160·4	−185·8	39·3	14	10	−4·3	..	..	..	0	12	0	0	3	0	0	0	0	0	0
Kanpur	33·8	+0·2	39·1	3	26·5	−0·1	23·9	9,29, 30	85·6	318·2	+45·1	119·0	9	13	+0·5	15·3	11·4	−0·3	0	17	0	0	3	0	0	0	0	0	0
Kanpur (Aerodrome)	33.8	..	39·1	3	26·6	..	24·2	14	122·5	325·3	..	96·0	9	14	..	..	..	..	0	17	0	0	7	0	1	0	0	1	0
Sultanpur	33·5	..	37·6	28	26 6	..	23·6	31	52·2	258·4	..	78·8	9	8	..	7·9	5·9	..	0	8	0	0	7	0	0	0	0	0	0
Azamgarh	33·2	..	37·4	28	23·7	..	21·3	29	25·8	205·2	..	58·0	1	9	..	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Fatehpur	33·6	−0·3	40·0	1	26·8	+0.3	24·0	14	195·7	347·2	+28·9	119·2	9	14	+0·1	8·4	6·4	+0·6	0	17	0	0	3	0	0	0	0	0	0
Ballia	34·1	..	37·2	28	26·4	..	24·5	29	83·6	177·0	..	34·6	12	11	..	7·5	5·3	..	0	13	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (R) Register not received. (i) Total or Mean of 22 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Banda	33·4	..	39·5	1,2	26·2	..	23·2	15	243·0	399.0	..	82.8	15	14	..	7 2	5·2		0	17	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli).	33·6	+0·2	38·0	28	26·3	−0·3	24·0	15,26, 29	145.1	265.6	−53·4	64.0	9	11	−4·2	9·2	7·2	−0·5	4	13	0	0	13	0	0	0	0	3	0
Varanasi(Babatpur)	32·7	−0·3	35·9	28	26·6	+0·2	25·4	29	84.3	264.1	−111·1	48.2	9	10	−5·1	14·8	11·6	+0·3	1	11	0	0	11	0	0	0	0	0	0
Varanasi	32·8	−0·6	36·2	2	26·8	+0·3	24·0	29	139.5	267.4	−32·6	74·6	9	12	−2·3	7·7	6.4	+0·8	0	14	0	0	8	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	30·6	+0·3	34·5	4	22·4	−0·8	19·9	1,5	365.6	973·7	+305 7	126·2	9	26	+5 7	4·2	3·2	+0·6	0	30	0	0	14	2	1	0	0	1	0
Roorkee	33·6	+0·2	37·7	29	25·4	−0·2	22·2	2	..	494.5	+182·1	95·3	30	14	+2·1	8 5	6 0	+2·0	0	18	0	0	9	0	0	0	0	0	0
Najibabad	33·8	..	37·9	4	25.2	..	21.7	1	316.8	617.6	..	148 0	30	16	..	(a) 8·6	(b) 6·4	..	0	17	0	0	22	0	0	0	0	0	0
Meerut	34·9	+0 8	40·4	7	26·0	−0·4	22.2	11	..	390.0	+171·8	100.0	9	11	+0·7	..	4·0	..	0	12	0	0	0	0	0	0	0	0	0
Bareilly	35·2	+1·8	39·5	31	26·7	+0·6	23·2	31	176.3	411.1	+81·9	162 4	30	9	−3·8	10·3	7·2	+3·7	0	12	0	0	5	0	0	0	0	0	0
Aligarh	35·0	+0·4	40·1	5	26·8	+0 1	23·5	9	112 0	197.8	−25 0	65.0	11	10	−0·3	10·3	8.3	+0·9	0	14	0	0	2	0	0	0	0	0	0
Mainpuri	34·8	−0·3	40 6	4	27·1	+0.3	22.5	10	29.8	112.6	−78·9	32·4	9	11	+0 6	7·0	5·0	+1.5	0	14	0	0	1	0	0	0	0	0	0
Agra	34·7	+0·4	40·5	1	26·9	0	21·4	31	73.6	128.3	−88 9	38.2	11	10	−1·0	9 3	6·4	−0·7	0	11	0	0	0	0	0	0	0	0	0
Agra Aerodrome	34·7	..	40·8	1	27 2	..	24·8	26	70.0	148.9	..	50.0	11	11	..	..	..	..	0	14	0	0	12	0	1	0	0	0	0
Orai	32·9	..	38·3	3,4	26·4	.	22·8	14	174.4	296 2	.	38.4	11	14	..	13·5	10·2	..	0	18	0	0	0	0	0	0	0	0	0
Jhansi	32·8	−0·9	39·0	1	25·1	−0·8	22·4	14	97.0	368.2	+68 2	116.0	13	19	+5·2	5·0	3·7	−3·1	0	21	0	0	7	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	33·9	−0·2	37·6	14	25·3	+0.3	21·7	30	105·6	413 7	−27.2	79·2	26	12	−1 6	9 2	7·6	−1.4	1	19	0	0	18	0	0	0	0	0	0
Amritsar (Rajasansi)	35·7	+0·2	39 9	4	25·8	−0·1	22·4	10	199.4	257·1	+43·1	66.2	31	8	−0·8	12·4	11 2	+0·3	0	11	0	0	15	0	2	0	0	2	0
Adampur Aerodrome (R)																													
Ludhiana	35·2	−1·1	39·9	17	26 6	−0 2	22·8	1	73.6	158·2	−46·8	67·8	17	7	−1·4	7·5	5·4	+2·2	0	11	0	0	4	0	3	0	0	0	0
Ferozepur	35.8	..	40·5	1	26 5	..	21·0	11	70.0	253.2	..	62·7	31	9	..	3·0	2 3	..	0	10	0	0	1	0	0	0	0	0	0
Halwara (Aerodrome)	35·7	..	40·1	8	26·6	..	22·2	10	31.0	143·8	..	96·5	10	4	..	..	..	..	0	7	0	0	12	0	0	0	1	0	0
Chandigarh	34·0	+0·2	38·0	4	25.3	+0.9	22.2	17	37.8	334·1	+57.6	112.1	9	10	−0·6	..	..	..	0	15	0	0	0	0	0	0	0	0	0
Ambala	34·9	−0.4	38·9	5	26·7	+0·5	22·8	1,9	65.0	325.7	+81·6	120.4	30	6	−4·6	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	34·2	..	38·4	1,5	25·5	..	22·6	9	94.1	389.0	..	162.8	9	9	..	..	..	..	0	12	0	0	14	0	0	0	0	0	0
Patiala	35·8	..	39·5	4	26·9	..	23 4	1	64·6	187.4	−55.9	71.0	31	6	−1·7	12·2	9·0	..	0	9	0	0	5	0	0	0	0	0	0
Bhatinda	37·8	..	41·8	8	27·8	..	25·1	17	37.8	78·1	..	43.0	17	4	..	12·7	10·2	..	0	7	0	0	9	0	0	0	0	0	0
Karnal	34.6	..	40.0	1	..	..	..	..	3.7	53.8	..	12.5	17	9	..	..	..	..	0	11	0	0	0	0	0	0	0	0	0
Hissar	36.9	−0 7	41.5	8	27.9	+0.6	25.6	8	5.8	79·4	−29.3	66·6	17	2	−4.0	12·0	10.5	+1.6	0	5	0	0	4	0	0	0	0	0	0
New Delhi (Safdarjung)	35·5	+0.4	33 2	4	26·5	−0.4	23·6	10,17	25.2	198.4	+19.8	88.8	31	9	0	9·9	7·2	−3·1	2	12	0	0	9	0	0	0	2	0	0
Palam (Aerodrome)	35·8	..	40 0	8	..	..	..	..	49.9	201·5	..	44.1	31	9	..	..	..	..	1	13	0	0	9	0	1	0	0	1	0
Himachal Pradesh																													
Mandi	31·0	−0·2	34·4	5	22·3	+0·4	20.8	30,31	110·6	831·4	+284·3	141.8	29	20	−0·3	4·2	2·2	−0·4	0	23	0	12	0	0	0	0	0	0	0
Bilaspur	32·3	..	35·6	17	23·1	..	20·8	15	133·3	423·7	..	79·8	8	16	..	..	..	..	0	17	0	0	13	0	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	3.0	−13.0	2·8	30	1	−0.6	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	26·4	+1·7	31·6	16	12·4	+2·2	10·6	1	0.4	1.7	−10·2	1·2	26	0	−1·4	5·8	6·1	+3·0	0	2	0	0	4	0	0	0	0	0	0
Srinagar	30·8	−0.2	35·2	15,16	19·8	+1.9	17·6	4	22·6	49.9	−9·3	16.2	31	5	+0·1	6.0	4·3	+0.3	0	10	0	0	5	0	0	0	0	0	0
Srinagar Aerodrome	29.8	..	34·6	16	19.4	..	16.4	4	15.3	42.7	..	19·0	26	4	..	..	..	..	0	7	0	0	7	0	0	0	0	0	0
Gulmarg	21·5	0	28·0	16	11.0	+0·1	7.8	11	78.4	88.2	−14·9	51·4	31	6	−2.9	6.7	4·3	−0·8	1	17	0	0	10	7	0	0	0	0	0
Jammu	35·5	+0·3	40·0	4	..	..	..	..	..	699.2	+374.3	299.2	31	12	+0·5	..	5.9	..	0	14	0	0	7	0	0	0	0	0	0
Jammu Aerodrome	35·0	..	39·4	5,14	26.0	..	22·2	31	196.3	680.6	..	335.3	31	13	..	..	..	..	0	15	0	0	15	0	1	0	0	0	0
Rajasthan (West)																													
Ganganagar	38·8	+0.2	41·6	4	28·2	+4.8	25·3	18	67.3	49.8	−24·5	20 5	17	4	0	8·5	6·9	−0.9	0	6	0	0	7	0	2	0	0	0	0
Churu	37·1	..	41·7	5	27·4	..	23·7	17	90.4	69.6	..	21.0	27	4	..	14·6	11·8	..	0	8	0	0	9	0	2	0	0	0	0
Bikaner	34·3	−4·2	43·0	5	27·3	−0·7	23·3	8	20.4	58.0	−26·8	21·0	8	6	+1.1	10·2	9.1	−2·2	0	9	0	0	6	0	1	0	0	0	0
Nagaur	37·0	..	41·3	3	27·0	..	23·4	27	51·5	57.1	..	46.8	26	3	..	14·3	14·0	..	0	5	0	0	0	0	0	0	0	0	0
Phalodi	36·4	..	42·1	3	27·0	..	24·5	6,7	36.6	64.8	−4 0	27.0	7	5	+1·2	18·9	16·5	..	0	7	0	0	7	0	0	0	0	0	0
Jaisalmer	36·5	..	42.6	3	27·1	..	25·1	5	14.4	27.7	..	7·8	19	4	..	18·6	17·0	..	2	7	0	0	0	0	1	0	0	0	0
Jodhpur	36·1	0	41·5	2	26·5	−0·3	24·4	18	7·0	77.7	−23·1	41.0	5	5	−0·5	13.9	13·8	−5.7	1	10	0	0	9	0	2	0	0	1	0

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

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajstan West—*contd.*																													
Barmer	35·2	−0·6	39·4	4	26·3	+0·2	24·5	19	21·1	72.2	−10·3	12·2	5	9	+5·0	10·1	8·6	−3.0	1	16	0	0	7	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	36·8	..	40·8	1	27·6	..	23·8	18	40·6	49·8	..	25·2	14	4	..	18·3	14·1	..	0	4	0	0	0	0	0	0	0	0	0
Sikar	35·7	..	40·3	5	25.0	..	21.2	23	81·9	102·7	..	53·2	11	6	..	13·9	10·9	..	0	7	0	0	1	0	0	0	0	0	0
Alwar	35.5	..	41·3	1	27·8	..	24.4	10	76·4	218·6	..	80·8	10	8	..	6·9	4·8	..	0	10	0	0	4	0	0	0	0	0	0
Jaipur (Sanganer)	33·4	−1·2	39·2	1	25·5	−0·2	22·3	11	72·0	135·5	−61·1	40·2	11	8	−2·3	..	..	..	0	17	0	0	10	0	1	0	0	5	0
Dholpur	34.5	..	41·0	1	27·1	..	24.2	10	132·0	262·7	..	72·0	10	13	..	10·3	7·5	..	1	16	0	0	17	0	0	0	0	0	0
Ajmer	33.5	+0·3	38·8	3	25·7	−0·1	23·0	26	71·0	154·8	−8·0	34·2	19	9	+0·1	12·8	11·3	+1·6	0	12	0	0	10	0	0	0	0	0	0
Tonk.	34·5	..	41.3	1	26·1	..	22·8	5	59·6	278·5	..	150·6	13	10	..	11·8	7 9	..	1	17	0	0	8	0	0	0	0	0	0
Kota	33·9	−0·5	40·5	1	25·8	−0·8	22·4	14	73·4	217·2	−40·4	167·3	13	14	+2·9	10·2	9·0	+2·6	0	17	0	0	5	0	0	0	0	0	0
Erinpura (Jawai Dam)	32·7	..	38·7	2	24·8	..	23·3	4	48·5	204·1	..	72·1	4	10	..	6·5	6·9	..	1	15	0	0	7	0	0	0	0	0	0
Chambal Rawat Bhata Dam	32·7	..	38·6	1	25·2	..	21·7	12	166·0	336·8	..	95·2	14	12	..	12·3	10·3	..	0	13	0	0	13	0	0	0	0	0	0
Udaipur	30·4	−1·4	36·1	2	23·9	−0·4	22·4	19	110·1	237·2	+20·0	65·5	4	10	−0·4	5·4	4·4	..	0	16	0	0	8	0	0	0	0	0	0
Jhalawar	32·6	+0·4	38·3	2,6	25·3	+0·5	23·8	13,14	89.0	255·4	−41·3	74·6	14	14	+0·5	10·6	9·4	+1·5	0	17	0	0	3	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	33·8	−0·1	41·1	1	26·2	−0·4	23·7	17	199·4	364·5	+66·0	58·7	10	16	+1·2	11.9	9·6	..	0	18	0	0	15	0	0	0	0	0	0
Sheopur	33·0	−0·8	39.6	1	25·4	−0·5	22.9	14	150·4	258·8	−46·7	45·8	7	13	+0·4	(a) 10·9	(a) 8·3	0	0	20	0	0	16	0	0	0	0	0	0
Shivpuri	(o) 31·6	..	..	...	(o) 24·2	..	..	..	132·3	225·3	..	36·2	13	15	..	..	..	..	0	20	0	0	0	0	0	0	0	0	0
Nowgong	32·5	−0·3	36·4	4	24.8	−1.1	22·6	15	148·2	259·0	−91·8	82·0	5	14	−0·1	10·1	7·5	+2·5	0	22	0	0	11	0	0	0	0	0	0
Guna	30·9	−0·2	36·4	1	23·8	−0·2	21·3	13	145·1	344·3	−20·2	82·2	14	15	−0·5	15·8	12·5	..	0	21	0	0	14	0	0	0	0	0	0
Nimuch	30·8	−0·3	35·5	1	23·7	0	22·4	18,20	114·2	274.8	+34·3	135·4	18	11	+0·4	15·8	13·8	−0·4	0	17	0	0	9	0	0	0	0	0	0
Rajgar	31·6	..	37·0	1,2	24·2	..	22·5	19	110·0	219·2	..	40·2	4	16	..	(a) 14·1	(a) 11·1	..	1	20	0	0	0	0	0	0	0	0	0
Sagar	29·0	−0·9	32 3	26	22·1	−0·7	20·2	21	151·6	436·6	+41·1	77·0	13	21	+4·5	11·8	10·6	..	0	26	0	0	12	0	0	0	0	0	0
Ratlam	30·2	+0·1	36·0	2	22·6	−0·7	20·8	18	110·1	324·2	−25·4	65·0	18	15	+0·3	( ) 11·1	(a) 8·4	−3·3	0	26	0	0	4	0	0	0	0	0	0
Bhopal (Bairagarh)	29·9	+0·1	35·3	13	22·9	−0·5	21·3	18	188·2	367·2	−133·9	76·2	13	19	+2·6	19·1	16·4	+0·3	0	26	0	0	9	3	0	0	0	2	0
Ujjain	30·2	..	34·0	1,2	24·6	..	23·0	18	..	231·2	..	41·2	6	15	..	..	15·8	..	1	21	0	0	4	0	0	0	0	0	0
Hoshangabad	30·5	+0·4	36·4	3	24·6	+0·7	22·3	18	112·5	434·0	+9·6	70·0	6	20	+4·3	8·7	6·9	+1·1	0	23	0	0	0	0	0	0	0	0	0
Indore	29·4	−0·5	32·1	1,4	22·5	0	20·5	19	91·2	206·9	−75·6	33·8	22	17	+3·7	25·2	20·9	..	0	24	0	0	9	1	0	0	0	0	0
Rajpur	30·3	..	34·0	2,3	23·7	..	21·4	18	104·4	364·5	..	89·2	4	18	..	12·5	11·0	..	0	26	0	0	1	0	0	0	0	0	0
Chhindwara	28·0	−0·3	32·3	28	22·5	+0·2	21·0	9	189·1	478·4	+155·0	82·3	17	23	+5 9	9·9	7·4	−0·8	0	29	0	0	3	0	0	0	0	0	0
Seoni	28·4	−0·5	33·5	29	22·4	0	21·1	17	301·4	581·3	+169·3	86.0	17	21	+2·7	10·0	8·1	+0·9	1	25	0	0	8	0	0	0	0	0	0
Betul	27·7	−0·4	32·0	3	22·2	−0·1	21·0	10	197·5	398·5	+60·0	90·6	26	24	+6 7	10·1	8.2	−0·2	0	28	0	0	3	0	0	0	0	0	0
Khandwa	30·5	−0·6	35·4	2,3	23·8	−0.3	22·0	19	115·1	269·3	+23·9	72·0	21	17	+4·9	14.9	11·9	0	0	21	0	0	4	0	0	0	0	0	0
Madhya Pradesh (East)																													
Sutna	32·5	+0·9	39·4	4	24·9	−0·3	23·3	16	161·1	338·6	−23·3	76·7	16	15	−0·4	10·9	8·3	+0 1	0	20	0	0	10	0	0	0	0	0	0
Sidhi	31·8	..	36·1	27	25·4	..	23·5	16	170·2	377·0	..	106·0	16	15	..	(a) 10·7	(a) 7·9	..	0	18	0	0	1	0	0	0	0	0	0
Umaria	29.9	−0·4	35·0	28	23·6	−0·4	20·4	17	247·8	642·9	+192·0	168·7	16	21	+0·9	8·6	6·8	+0·7	0	22	0	0	13	0	0	0	0	0	0
Jabalpur	30·1	−0.1	35·0	28	24·1	+0·4	22·5	16	230·0	467·9	−24·4	70·4	9	18	−0 1	10·2	8·0	+2·5	0	23	0	0	10	0	0	0	0	0	0
Ambikapur	28·9	−0·6	33·3	29	22·7	−0·5	21·4	10	451·9	816·1	+381·3	107·8	16	21	+3·3	10·6	9·7	+0·4	0	23	0	0	10	0	0	0	0	0	0
Pendra	27·9	−0·7	32·5	28	22·3	−0·1	21.0	20	269·2	862·8	+489·2	161·4	9	22	+3·1	10.1	8·5	..	0	26	0	0	12	0	0	0	0	0	0
Mandla	29·1	−1·0	34·5	28	22·5	−0·8	20·9	9	366·2	721 8	+225·4	143·0	9	21	+0·5	6·0	4·3	+0·4	0	25	0	0	14	0	0	0	0	0	0
Champa	29·8	−1·5	35·0	28	23·9	−1·0	21·9	17	229·4	590.6	+176·6	121·2	9	17	−1·8	13·0	11·5	+2·3	0	23	0	0	11	0	0	0	0	0	0
Raigarh	29·6	−1·9	35·2	28	24·2	−0·8	22·3	17	358·6	952.7	+477·5	135·8	9	20	+1 4	10·2	8·5	+1·5	0	21	0	0	0	0	0	0	0	0	0
Raipur	29·3	−1.1	34·7	29	23·2	−0·7	21·1	17	216·2	525·5	+144·8	131.0	8	21	+5·0	(a) 13·2	(a) 12·1	−1·9	3	22	0	0	5	0	0	0	0	2	0
Kanker	28·6	−0·3	33·0	27	23·6	+0·3	22·0	17	117·1	263·3	−136 0	33·4	13	18	+0·1	13.5	9·7	0	1	24	0	0	2	0	0	0	0	0	0
Jagdalpur	27·7	−0·6	32.0	28	22·1	−0·1	20·5	17	129·9	357·9	−26·4	44·2	21	23	+3·6	10·2	8·2	..	0	29	0	0	12	1	0	0	0	0	0
Gujarat Region																													
Deesa	32·4	..	38.8	4	25·3	..	23·8	19	84·7	185·7	..	52·0	18	10	..	16·5	12·3	..	1	17	0	0	0	0	0	0	0	0	0
Radhanpur	32·1	..	38·5	4	25·4	..	22·1	19	125·4	312·6	..	152·0	7	11	..	11.9	10·4	..	0	15	0	0	1	0	0	0	0	0	0
Idar	31·1	..	36·5	4	24·7	..	22·9	18	82·6	240·6	..	61·0	7	12	..	11·0	8·2	.	1	20	0	0	2	0	0	0	0	0	0
Ahmadabad	32·1	−1·8	38.0	4	25·5	−0·2	24.3	19	133·3	341·3	+30·9	79·8	18	13	+0·4	8.5	8·0	−3·3	1	18	0	0	4	0	0	0	0	0	0
Dohad	30·1	−0·3	35·4	2	23·3	−0·6	22·0	17,22	134·1	437·6	+210·3	149·8	17	17	+4·3	17·6	17·9	−8·4	1	25	0	0	10	0	0	0	0	0	0
Baroda Aerodrome	31·7	...	36·0	2	25·4	..	24.6	10,18	108·4	244·4	..	72·6	10	14	..	14·6	13·9	..	1	24	0	0	10	0	0	0	0	0	0
Baroda	32·1	−0·2	37·2	2	25·8	+0·4	24·8	18	123·1	247·4	−63·2	69·6	10	20	+7·3	7·6	6.0	−3·0	1	25	0	0	4	0	0	0	0	0	0
Broach	31·2	−0·8	34·1	2	25.3	−0·4	23·8	22	147·0	284·1	−48·7	71·2	7	22	−2·6	13.6	12·4	+1·2	0	24	0	0	0	0	0	0	0	0	0
Surat	30·4	−0·3	32·2	2	24·1	−1·3	22·2	11	235·4	659·3	+216·8	239·2	10	19	+2·7	15·6	14·7	+3·0	0	28	0	0	1	0	0	0	0	0	0

(a) Mean of 30 days.

(c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—																														
Bhutakia Bhimsar	32·4	...	37.9	3	25·9	...	23·0	19	22·9	269·5	...	74·0	4	8	..	(a) 25·1	(a) 21·8	..	9	0	0	0	0	0	0	0	0	0	0
Naliya	30·8	..	37.0	3	25·8	..	22·8	4	270·2	602·8	..	111·2	7	14	..	22·9	19·4	..	0	18	0	0	10	0	0	0	1	0	0
Bhuj (Rudramata)	31·8	−1·4	36·7	3	25·6	−0·3	22·5	3	66·6	243·0	+82·2	58·8	4	9	+3·0	21.0	17.6	−4·1	2	16	0	0	9	0	0	0	0	0	0
Kandla	32·2	..	38·5	3	25·7	..	23·2	3	42·1	195·8	..	35·0	4	11	..	22·9	18·7	..	1	18	0	0	7	0	0	0	0	0	0
New Kandla	31·9	..	36·9	5	26·4	..	24·5	26	139·0	314·0	..	80·0	26	11	..	29·1	26·2	..	1	18	0	0	4	0	0	0	0	0	0
Mandvi	30·5	−0·6	37·6	3	26·3	−0·6	23·5	4,5	228·0	406·0	+194·1	88·0	5	14	+4·8	32·4	31·9	−4·4	0	18	0	0	0	0	0	0	0	0	0
Surendranagar	33·1	−1·0	37.3	3	25.8	−0·1	24.0	19	(a) 18·1	(a) 106·6	−72·1	74·2	7	5	−2·9	20·9	18·2	−2·1	0	9	0	0	3	0	0	0	0	0	0
Jamnagar (Aerodrome)	32·0	−0·6	35·1	3	25·8	−0·6	23·9	19	94·0	283·2	+56·4	81·6	26	16	+8·1	..	..	..	0	18	0	0	4	0	0	0	0	0	0
Dwarka	29·7	−0·7	32·4	2	26·1	−1·0	23·2	5	239·6	424·4	+247·9	175·8	27	13	+7·0	29·0	27·6	+3·6	0	18	0	0	0	0	0	0	0	0	0
Rajkot	31·4	+0·9	36·2	3	24·8	+0·2	23·2	19,26	253·7	438·5	+66·4	87·8	5	16	+3·3	31.4	25·9	+3·6	0	20	0	0	3	1	0	0	0	0	0
Bhavnagar (Aerodrome.)	32·8	−1·0	35·0	9	25·7	−0·4	21·0	7	61·4	94·5	−83·6	13·3	7	11	+1·7	33·9	27·0	+6·8	0	12	0	0	0	0	0	0	0	0	0
Bhavnagar*																														
Porbander	29·8	..	35·2	3	26·0	..	24·0	19	227·0	552·2	..	120·7	4	16	..	26·4	23·5	..	0	21	0	0	4	0	0	0	0	0	0
Aerodrome Porbander	29·9	−0·2	33·4	3	26·1	−0·4	24·2	19	241·0	548·3	+168·9	104·0	19	18	+6·6	24·9	21·1	−2·0	0	23	0	0	2	0	0	0	0	0	0
Keshod	30·2	..	36·4	3	24·9	..	22·9	24	162·4	713·7	..	313·5	4	16	..	33·6	27·6	..	2	20	0	0	6	0	0	0	0	0	0
Mahuva	30·4	..	32·6	12	24·6	..	22·2	22	177·2	289·0	..	61.3	22	15	..	21·5	17·1	..	0	22	0	0	2	0	0	0	0	0	0
Veraval	29·5	..	32·7	3	24 5	..	20·4	27	249·6	514·5	+316·9	142·8	24	18	−7·4	35·6	36·1	..	3	24	0	0	1	0	0	0	0	0	0
Konkan																														
Dahanu	29.2	−0·6	30·8	20	25.4	+0·1	24·0	23	251·7	1240·7	+353·8	287·5	23	29	+5·5	25·6	25·2	−1·1	0	31	0	0	1	0	0	0	0	0	0
Bombay (Santacruz)	28·7	−1·0	30·2	20	24·2	−0·6	22·9	24	699·2	1385·5	+415·7	157·8	25	28	+3·3	25·7	23·9	..	0	31	0	0	5	0	0	0	0	7	0
Bombay	28·9	−0·8	30·7	9,21	24·9	+0·1	23·6	20	524·6	1109·8	+493·3	144·5	2	29	+6·9	13·8	13·4	−5·3	0	31	0	0	3	0	0	0	0	16	0
Alibag	28·2	−0·9	29·6	9	25·0	−0·3	23·2	1	..	1341·2	+745.8	150·3	24	26	+2.7	..	34·3	+5·8	0	31	0	0	0	0	0	0	1	0	0
Harnai	28·2	−0·3	29·2	9	24·6	+1·8	23·3	1,29	202·2	797·3	−119·8	137·0	1	29	+2·0	22·7	23·9	+1·8	0	31	0	0	1	0	0	0	0	0	0
Ratnagiri	28·3	..	29·7	20	24·1	..	22·4	23	239·4	856·2	−3·6	127·6	23	28	+2·0	27·3	28·6	..	0	30	0	0	0	0	0	0	0	0	0
Devgarh	28·1	−0·5	29·4	5,20	24·3	−0·6	18·2	2	258·0	802·9	+11·5	140·8	23	27	+0·9	30·9	31·3	+2·5	0	30	0	0	1	0	0	0	0	0	0
Vengurla	28·4	−0·3	30·0	4	23·9	−0·1	21·9	1	425·4	1082·2	−65·7	111·8	1	30	+2·0	13·5	12·0	..	0	31	0	0	6	0	0	0	0	0	0
Madhya Maharashtra																														
Nandurbar	30·4	..	35·0	2	..	..	..	..	229·6	359·4	..	87·6	3	16	..	14·1	10·5	..	1	23	0	0	0	0	0	0	0	0	0
Jalgaon	31 5	−0·5	35·7	1	23·9	−0·1	22·3	18	155·2	256·7	+14·7	44·5	2	16	+1·5	17·0	13·9	−1·7	0	25	0	0	7	0	0	0	0	0	0
Malegaon	30 5	−0·7	32·6	23	22·9	−0·2	20·9	18	69·7	169·9	+57·6	66·2	23	10	+2·6	18·1	13·7	−1·7	0	14	0	0	2	0	0	0	0	0	0
Deolali Aerodrome	..	..	..	..	22·0	..	21·1	1	71·8	242·3	..	47·0	11	18	..	25.0	21·3	..	0	26	0	0	0	0	0	0	0	0	0
Ahmadnagar	28·3	−1·3	31·0	16	21·3	−0·1	20·4	24	36·1	72·4	−23·6	17·3	10	8	+1·2	15·6	11·3	−4·3	0	13	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	3045·9	+1308·0	294·0	6	31	+1·0	..	..	..	0	31	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	26·7	..	28·6	16	21·5	..	20·6	18	79·3	267·1	..	43·9	2	17	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Poona	27·2	−0·9	29·3	4	21·6	−0·5	20·7	10,11	116·4	316·9	+150.3	48·2	2	19	+6·3	9·0	7·5	−8·9	1	27	0	0	0	0	0	0	0	0	0
Jeur	30·3	−1·0	32·4	5	22 0	+0·2	20·4	9	49·5	63·3	−44·1	15·5	9	5	−2·9	22·4	15·7	−1·3	0	10	0	0	0	0	0	0	0	0	0
Baramati	29·1	−0·6	31·5	25	22·1	0	21 0	10	17·4	35·4	−24·1	12·9	10	4	−1·7	19·5	15·5	−1·7	1	8	0	0	0	0	0	0	0	0	0
Sholapur	29·4	−2·4	32·1	20	22·4	+0·1	21.5	10,27	51·3	133·8	+27·6	5·3	10	11	+3·3	17·2	12·6	−3·7	0	20	0	0	0	0	0	0	0	0	0
Miraj	26·6	−1·1	28·4	22	21 6	0	20·5	18,30	140·8	248·4	+143·5	37·0	2	18	+8.9	..	..	..	0	26	0	0	0	0	0	0	0	0	0
Kolhapur	25·3	−1·2	27·2	14	21·2	0	20·4	11	359·2	844·3	+491·0	100·4	10	28	+9·3	22·8	21·2	+2·5	1	30	0	0	0	0	0	0	0	0	0
Marathwada																														
Aurangabad	28·8	−1·2	31·6	23	21·9	+0·3	20·4	18	64 0	247·0	+75·8	17·2	13	15	+3·7	19·5	15·7	−2·0	1	27	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana)	29·0	..	31·9	5	22·1	..	20·7	18	61·7	205·4	..	71·4	23	16	..	20·5	16·9	..	2	20	0	0	0	0	0	0	0	0	0
Parbhani	30·6	−1·1	34·0	16	22·5	−0·3	21·4	10	23·2	391·8	+187·0	133·0	26	12	−0·1	16·2	12·7	−1·3	0	19	0	0	3	0	0	0	0	0	0
Nander	31·8	..	37·4	1	20 0	..	18·3	25	18·3	416·5	..	136·0	21	15	..	7·6	6·5	..	1	22	0	0	1	0	0	0	0	0	0
Bir	30·0	..	33·5	16	22·8	..	21 6	27	27·4	172·0	..	61·0	23	11	..	15·3	11·6	..	0	17	0	0	1	0	0	0	0	0	0
Vidarbha																														
Gondia	29 5	−0·7	33·5	28	24.0	−0·3	22·4	9	189·8	603·4	+173·8	69·2	9	22	+4·1	9·8	7·6	+1·1	1	28	0	0	3	0	0	0	0	0	0
Nagpur (Sonegaon)	30·3	−1·0	33 6	28	23·7	−0·4	21·6	17	201·3	277·6	−93.2	47·8	17	19	+2·5	17·9	13·8	..	0	25	0	0	9	0	0	0	0	5	0
Amravati	29 9	−0·9	33·0	5 days.	22·3	−1·0	20·9	17	134·2	285·2	+46·2	50·6	23	15	+2·2	19·9	14·7	+2·5	0	19	0	0	3	0	0	0	0	0	0
Akola	30·7	−1·0	36·0	16	23·9	+0·1	22·3	21	119·4	229·8	−18·9	44·6	10	17	+4·6	14·6	10·4	−0·7	1	20	0	0	0	0	0	0	0	0	0
Brahmapuri	29·4	..	33·4	28	24·2	..	21·7	17	233·8	511.7	..	66·2	21	26	..	11·1	8·9	..	0	29	0	0	5	0	0	0	0	0	0
Buldhana	28·1	−0·6	30·5	1,28	20·9	−1·0	20·0	5 days.	47·8	224·4	+0·2	33·5	17	13	−0·1	18·7	14·9	−0·4	1	20	0	0	0	0	0	0	0	0	0
Yeotmal	29·1	−1·1	32·4	5	..	..	..	..	119·3	407·2	+96·4	73·6	22	18	+1·3	21·0	18·0	+0·6	0	21	0	0	1	0	0	0	0	0	0
Chanda	30·3	−1·0	36·2	2	24·2	−0·1	22·3	17	237·1	443·5	+29·2	73·0	21	20	+3·1	14·9	9·7	+1·3	0	24	0	0	6	0	0	0	0	0	0
Pusad	30·5	..	34.4	6	23·6	..	21·6	21	68·6	265·1	..	47·8	26	15	..	22·2	12·2	..	0	19	0	0	0	0	0	0	0	0	0
Sironch	30·4	−1·1	33·6	5	24·4	−0·5	22·7	17	162·3	482·9	+43·9	114·6	12	22	+3.6	7·7	4·9	−0·8	0	25	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Kalingapatam	30·4	−1·7	35·0	21	24·7	−1·4	22·9	12	37·2	146·2	+5·5	53·6	21	14	+5·4	22·6	19·2	+7·1	0	15	0	0	5	0	0	0	0	0	0
Visakhapatnam	31·0	−2·1	33·7	8	25·0	−0·9	23·3	17	54·5	150·0	+37·7	43·8	18	14	+5·5	24·1	19·0	+3·7	0	20	0	0	6	0	0	0	0	0	0
Kakinada	31·8	−0·6	33·7	17	..	..	..	..	78·0	226·6	+60·2	50·6	28	15	+3·9	17·3	12·8	+3·5	1	22	0	0	0	0	0	0	0	0	0
Nidadavole	31·0	..	33·0	1	24·8	..	23·4	12	34·8	356·4	..	49·0	25	14	..	18·3	13·4	..	0	18	0	0	7	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of day with										
	Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—(Contd.)																													
Santachintala	32·5	−1·4	35.2	4	25·1	−0·8	23·2	9	0	189·1	+67·2	56·0	25	11	+2·0	15·8	11·5	−3·6	0	14	0	0	5	0	0	0	0	0	0
Cannavaram	32·0	−0·6	35·1	15	25·0	−0·3	23·1	21	14·0	190·2	−68·1	−3·4	21	12	−2·1	22·1	16·1	−0.1	0	17	0	0	2	0	0	0	0	0	0
Nagarjunakonda	32·5	..	35·8	1	25·9	..	23·3	9	15·1	179·1	..	60·6	20	11	..	24 5	21·3	..	0	20	0	0	2	0	0	0	0	0	0
Masulipatam	31·9	−1·7	35·0	1,19	25·5	−0·1	2·4	4 days	61·6	124·1	−38·2	24·4	20	11	+0·3	..	..	..	0	14	0	0	0	0	0	0	0	0	0
Ongole	33·9	..	35·6	5,15	26·2	..	23·4	15	3·0	40·4	..	17·4	15	6	..	14·7	11·2	..	0	8	0	0	0	0	0	0	0	0	0
Nellore	34·1	−2·0	36·6	20	25·8	−0·8	24·0	24	15·8	80 0	+10·1	20·3	26	11	+5·5	..	..	..	0	17	0	0	1	0	0	0	0	0	0
Telangana																													
Ramagundam	30·7	−1·7	34·8	28	24·5	−0·2	22·3	17	168·2	452·6	+157·8	70·6	12	21	+4·6	9.9	7·4	+0·4	0	21	0	0	3	0	0	0	0	0	0
Nizamabad	30·0	−1·2	33·6	6	23·1	−0·2	21·4	13	78·8	367·0	+109·2	69·0	13	18	+3·0	13·5	11·2	+2·3	0	22	0	0	5	0	0	0	0	0	0
Karimnagar	30·7	−0·5	34·7	5	24·0	−0·3	21·9	12	72·2	305·3	+73·1	62·8	12	14	+0·6	15·6	12·4	+1·6	0	22	0	0	2	0	0	0	0	0	0
Rakimpet (Aerodrome)	28·3	..	32·5	4	21·8	..	20·7	20	62·9	296·0	..	77·0	20	15	..	..	..	..	0	20	0	0	8	0	0	0	0	0	0
Bhadrachallam	31·0	−0·9	33·0	5,18	24·6	−0·3	23·4	19,25	100·0	444·0	+204·9	55·0	28	20	+6·2	10·9	8·8	+0·1	0	25	0	0	2	0	0	0	0	0	0
Hyderabad (Begumpet)	29·2	−1·2	32·7	5	22·5	+0·3	21·3	20	33·2	225·3	+73·2	58·4	20	13	+1·9	30·0	27·2	+6·8	1	19	0	0	3	0	0	0	0	2	0
Khammam	31·4	..	33·8	5	24·3	..	21·8	25	35·2	365·2	..	58·6	31	17	..	13·2	9·4	..	0	21	0	0	1	0	0	0	0	0	0
Mahbubnagar	29·2	..	32·6	5	22·1	.	20.9	21,29	69·7	379·0	..	54·4	21	22	..	15·4	13·9	..	0	30	0	0	7	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30·4	−2·7	34·9	15	23·7	−0·2	21 0	17	65·1	260·4	+148·1	52 4	21	12	+2·7	28·0	24·2	+7·5	0	21	0	0	0	0	0	0	2	0	0
Anantapur	32·1	−0·6	33·9	15,16	24·1	+0·2	22 3	10	12·3	36·4	−25·3	10·5	21	5	+1·0	27 0	21·8	+2·7	0	9	0	0	0	0	0	0	0	0	0
Cuddapah	33·4	−2·3	36·8	6	25·5	−0·1	22·5	25	28·2	125·8	+22·4	44·2	25	8	+1·3	10.2	7·2	−4·7	0	13	0	0	0	0	0	0	0	0	0
Krogyavaram	29·8	..	31·9	15	22·2	..	20·3	24	6·0	64·8	..	14·6	20	8	..	17·2	15·8	..	0	16	0	0	1	0	0	0	0	0	0
Madras State																													
Madras	33·5	..	36·5	6	24·8	..	22·0	13,16	..	215·9	..	60·7	13	12	..	..	9·7	..	0	18	0	0	6	0	0	0	0	0	0
Madras (Minambakkam)	33·9	−1·8	36·1	9	25·3	−1·0	22 4	15	5·9	197·1	+105.7	55·7	13	12	+5·2	15·4	12·4	−3·4	2	17	0	0	5	0	0	0	9	0	0
Vellore	33·3	−1·2	35·7	20	24·6	−0·5	21 3	16	29·7	116·5	+0·9	37·4	16	10	+3·7	9·7	10·6	+2 6	1	12	0	0	7	0	0	0	0	0	0
Tambaram Aerodrome	34·4	..	36·6	6,9	..	..	..	..	6·1	217·3	..	37.1	21	13	..	..	..	..	0	15	0	0	1	0	0	0	0	0	0
Tiruppattur	32·5	..	34·6	27	22·0	..	20 5	23	21·7	53 3	..	17·5	13	5	..	12·8	11·5	..	0	6	0	0	0	0	0	0	0	0	0
Cuddalore	34·5	−1·1	36 9	18,19	25·4	−0·5	23 0	20,27	0·4	98·7	+32·7	34·0	20	8	+2·7	11·7	11·6	+4·2	1	12	0	0	1	0	0	0	0	0	0
Kallakkurichchi	34·7	..	37·5	16	25·4	..	23 0	23	4·4	11·4	..	2·4	1,28	0	..	15·4	12·9	..	0	8	0	0	2	0	1	0	0	0	0
Salem	32·3	−1·6	35·0	16	23·8	−0·5	22·5	23	56 2	71·6	−24·7	16·6	26	6	−1·1	10·5	8·6	+1·8	1	16	0	0	7	0	0	0	0	0	0
Coimbatore (Pilamedu)	27·9	..	30·4	16	21·3	..	19·8	18	12·2	85·9	..	18·6	3	11	..	32 1	27·9	..	1	17	0	0	3	2	0	0	1	0	0
Coimbatore	27.9	−2·5	30·6	31	21·7	0	20 1	5	31·9	138·2	+96·3	20·1	3	16	+11·3	16·2	13·5	+2·9	1	19	0	0	1	0	0	0	0	0	0
Nagapattinam	33·8	−1·8	36·1	21	25·8	−0·3	23 5	17	16·6	50·8	+7 6	14·2	29	6	+3·1	14·4	12·1	+2·4	0	8	0	0	4	0	1	0	0	0	0
Tiruchchirappalli	34·5	−2·0	36·8	9	25·5	−0 2	23·4	24	20 0	48·7	+14·4	15·0	16	5	+2·9	22·8	18·6	−11·5	2	8	0	0	0	0	0	0	0	0	0
Vedaranniyam	32·1	..	34·7	28	26·6	..	24·2	1	1·2	73·4	..	33·2	29	4	..	17·4	14·6	..	0	5	0	0	3	0	0	0	0	0	0
Atirampattinam	31·9	..	35·6	27	25·4	..	23·0	8	4·8	63·0	..	18·2	1	7	..	20·1	15·3	.	0	11	0	0	5	0	0	0	0	0	0
Madurai	34·8	−0·7	37·4	27	25·3	+0·1	23·9	4,23	0	5·2	−44·3	4.2	14	1	−1·7	8·6	6·6	−1 3	1	2	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	34·6	..	36·9	16	24·9	..	23·7	4,23	0	0	..	0	..	0	..	17·5	14·0	..	0	0	0	0	0	0	0	0	0	0	0
Pondi	32·4	..	36·4	23	25·8	..	24·0	29	2·0	8·0	..	3·0	1,16	2	..	21·2	17·7	..	0	3	0	0	4	0	0	0	0	0	0
Pamban	31·1	−0·7	33·4	26	26·4	+0·1	25·5	6,25	1·6	1·6	−10·1	1·6	6	0	−0·8	21.7	20·0	+4·7	0	1	0	0	0	0	0	0	0	0	0
Tuticorin	34·1	−0·3	36·0	15,26	25·3	−1·2	23·6	4	1·0	11·0	+4·8	6·0	6	2	+1·2	19 5	16·5	−3·2	0	3	0	0	0	0	0	0	0	0	0
Palayamkottai	33·6	−0·8	36·2	15	24·5	−1·9	22·8	5	4·4	12·8	+4·8	9·6	4	1	+0·4	14·5	10·4	−7·1	0	3	0	0	0	0	0	0	0	0	0
Kanyakumari	28·6	..	30·6	26	23·4	..	21·7	22	54·4	189·4	..	41·8	4	14	..	17·4	15·9	..	0	17	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	27·9	−0·1	29·6	22,28	23·5	−0·5	22·2	23,29	569·7	1630·7	+625 3	223·6	1	29	+1·4	18·3	17·7	..	0	31	0	0	0	0	0	0	0	0	0
Honavar	27·1	−1·2	29·7	16	22·5	−1·1	21·0	19,29	505·8	1505·6	+377·6	210·8	22	31	+1·4	14·5	13·9	+7·6	0	31	0	0	10	0	0	0	0	0	0
Mangalore (Bajpe)	26.7	..	28·9	5,6	22·3	..	21·0	18	658·4	1697·0	..	141·6	21	31	..	10·8	9·9	..	0	31	0	0	6	1	0	0	1	0	0
Mangalore	27·4	−1·3	30·1	6	22·5	−1·0	21·4	23,30	610·3	1583·7	+595·6	140·1	21	31	+3·5	10·2	9·7	+0·7	0	31	0	0	20	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	28·1	−1·2	31·5	20	21·4	+0·3	20·3	14	78·6	243·0	+37·0	37·2	29	17	+5·4	27·5	25.0	+2·8	0	20	0	0	0	0	0	0	0	0	0
Gulbarga	29·7	−2·2	32·6	5	22·2	0	21·4	14,27, 29	77·3	217·0	+73·2	39·6	29	16	+6·9	24·9	19·6	+2·5	1	18	0	0	0	0	0	0	0	0	0
Bijapur	28·7	−1·6	31·0	6	22·0	+0·4	21·2	10	50·4	170·4	+60·2	38·8	29	11	+6·7	17·5	13·5	−1·6	1	16	0	0	0	0	0	0	0	0	0
Raichur	31·3	−1·1	33 4	4,5&6	23·0	+0·3	21·8	28,29	48·1	249 5	+130·1	65·6	26	12	+3·6	24·5	23·4	+8 0	1	18	0	0	0	0	0	0	0	0	0
Belgaum	24·0	−1·3	25·7	25,28	20·1	+0·8	18·7	17	306·0	841·3	+414·8	87·6	19	27	+4·9	17·0	14·7	+0·4	0	31	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	24·5	..	26·4	22,28	20·3	..	19·5	1,14	180·6	490·2	..	71·6	2	23	..	..	..	..	0	30	0	0	1	0	0	0	0	0	0
Gadag	26·4	−2·0	28·6	28	20·7	−0·4	19·7	24	57·4	95·1	+21·7	8·7	17	15	+8·1	24·7	21·4	+1·6	1	24	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·7	−2·9	31·5	17,25	23·6	−0·3	22·0	19	32·0	94·0	+53.1	28·0	19	11	+7·6	18·9	15·3	+1·6	0	11	0	0	0	0	0	0	0	0	0
Chitradurga	25·5	−2·6	27·5	15	20·9	+0·4	19·9	7 8	38·7	91·3	+18·4	9·4	2	13	+4·8	17·6	14·9	+1·7	3	25	0	0	0	0	0	0	0	0	0
Shimoga	25·6	−1·2	28·2	28	20·7	−0·4	19·3	18	254·7	631·5	+348·6	83·6	18	26	+7·1	9·4	6·6	0	0	30	0	0	0	0	0	0	0	0	0
Balehonnur	21·8	−1·0	22·8	4	18·2	0·4	16.5	18	..	1821·9	+943·3	38·2	13	31	+2·7	..	..	..	0	31	0	0	0	0	0	0	0	0	0
Hassan	22·9	−2·4	25·5	days 29	18·1	−0·6	16·1	18	110·8	306·8	+159·5	25·0	13,18	24	+10·8	16·2	14·0	+2·7	0	29	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm or more)		Wind speed km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—(*Contd.*)																														
Bangalore	26·0	−1·4	29·0	26	19·4	+0·7	17·8	18	50·0	93·4	−6·4	23·3	31	11	+3·0	21·2	17·7	+4·2	2	23	0	0	2	0	0	0	0	0	0
Bangalore Aerodrome.	26·8	..	28·5	17	19·1	..	17·9	20	50·6	89·5	..	16·3	31	12	..	..	..	..	0	19	0	0	2	0	0	0	0	1	0
Mysore	26·7	1·2	28·8	16	19·2	−0·4	15·8	1	99·4	209·2	+14·1	60·5	3	15	+7·7	12·2	11·0	−3·3	0	21	0	0	0	0	0	0	0	0	0
Kerala																														
Calicut	27·4	−0·6	29·2	27	23·0	−0·4	21·8	17	311·6	1235·6	+411·1	119·4	21	29	+2·5	9·6	9·8	+2·1	0	31	0	0	5	0	0	0	0	0	0
Palghat	27·1	..	30·0	9	21·9	..	20·8	18	295·0	912·6	..	95·0	20	30	..	14·1	12·5	..	0	31	0	0	4	0	0	0	0	0	0
Fort Cochin	28·4	+0·3	32·1	16	24·1	+0·4	22·1	7	203·6	783·2	+191·1	92·4	20	27	+2·8	10·3	8·5	+0·5	0	31	0	0	3	0	0	0	0	1	0
Cochin (Naval Air-Station).	28·5	..	30·5	10	23·4	..	22·2	18	241·8	843·2	..	107·1	20	28	..	9·7	7·9	..	0	30	0	0	10	0	0	0	0	14	0
Alleppy	28·4	−0·4	30·2	19	23·1	−0·3	22·0	4 days	270·8	686·4	+142·6	88·8	20	27	+3·9	11·8	11·2	+0·4	0	30	0	0	3	0	0	0	1	0	0
Punalur	29·2	..	31·7	16	22·7	..	21·6	7	257·1	563·3	..	86·4	4	23	.	6·5	3·8	..	0	24	0	0	0	0	0	0	0	0	0
Trivandrum	28·5	−0·7	30·2	9	22·9	−0·3	21·6	5	97·3	377·1	+179·7	61·6	5	22	+7·7	10·7	8·2	−2·1	0	26	0	0	6	0	0	0	0	0	0
Trivandrum (Aerodrome).	28·9	..	30·5	9	23·0	..	21·8	5,6	..	349·0	..	56·7	5	21	..	..	5·3	.	0	24	0	0	2	0	0	0	0	0	0
Arabian Sea Islands																														
Amini*																														
Minicoy*																														
Hill Stations excluding Kashmir																														
Dalhousie	23·6	−0·1	28·2	7	16·9	+0·1	14·6	25	327·0	1063·3	+463·9	181·0	30	28	+8·5	2·4	2·0	−0·8	0	28	0	0	20	0	0	0	0	0	0
Dharmsala	26·4	−0·9	29·2	4	21·3	+0·1	18·9	18	352·8	1116·6	+61·2	108·2	24	24	+1·7	4·9	3·5	−0·3	0	25	0	0	7	3	0	0	0	0	0
Simla	20·9	−0·7	26·2	13	15·9	+0·8	13·9	1	180·7	310·9	−103·1	52·2	30	22	+2·3	2·9	2·8	+1·1	0	28	0	0	1	20	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	549·7	+146·1	89·0	8	15	−2·7	..	..	..	0	26	..	..		..	..	..	..	..	..
Lokpal	9·7	..	11·7	14	5·1	..	2·9	2	..	438·8	..	35·0	30	27	..	..	..	..	0	31	0	0	0	10	0	0	0	0	0
Badrinath (R)																														
Joshimath	24·7	..	28·6	4	17.9	..	16·1	21	34·6	245·0	..	43·0	9	19	..	6·5	3·8	..	2	24	0	0	1	29	0	0	0	0	0
Mussoorce	20·9	+0·2	23·3	17	15.6	−0·3	13·5	22	268·9	769·4	+71·9	102·0	26	25	+1·8	2·2	1·7	−5·1	0	27	0	0	10	22	0	0	0	0	0
Mukteswar	21·5	+0·7	24·6	6	15·1	+0·7	13·4	21	170·6	379·4	+65·2	70·2	10	17	0·8	10·0	11·5	+3·1	1	27	0	0	11	24	0	0	0	0	0
Nainital	21·6	+0·2	23·9	4, 16, 17	17.1	+0·2	15·6	23,31	338·5	947·0	+177·3	188·0	29	26	+2·4	10·1	8·0	−0·3	0	27	0	0	0	13	0	0	0	0	0
Walong (R)																														
Kalimpong	27·3	+3·2	30·0	8	17·9	−1·7	15·6	11 days	548·5	721·2	+143·1	127·0	14	19	−2·9	5·6	4·3	−1·4	0	19	0	0	0	2	0	0	0	0	0
Darjeeling	19·8	−0·2	21·9	20,21	15·6	+0·5	14·9	18, 22, 24	381·2	851·6	+15·4	132·8	13	24	−1·6	3·1	2·5	+0·2	0	29	0	0	2	11	0	0	0	0	0
Kohima	26·1	..	28·9	4 days	20·0	..	15·4	19	170·6	397·4	..	64·2	31	23	..	..	..	..	0	26	0	0	0	5	0	0	0	0	0
Shillong	24·5	−0·4	27·0	21	18·1	0	15·6	26	102·4	159·7	−187·0	28·4	25	17	−1·2	5·7	4·4	+0·9	0	27	0	0	1	0	0	0	0	0	0
Cherrapunji	23·2	−0·8	..	..	19.2	+0.7	..	..	85·7 (f)	1268·4 (f)	..	..	.	..	..	13·5 (i)	9·6 (g)	+1·1	..	.	..	..	..	..	..	..	..	..	..
Abu	24·4	+0·3	30·1	4	19·1	+0·2	18·2	4 days	238·6	517·4	−41·1	45.8	18	23	+5·2	17·7	12·0	−0·9	0	27	0	0	3	13	0	0	0	0	0
Aijal	25·2	..	29·1	21	19·6	..	18·4	16,17	70·6	296·5	..	42·4	23	22	..	7·2	9·5	..	1	27	0	0	4	0	0	0	0	0	0
Pachmarhi	24·1	−0·6	27·0	27	19·0	−0·9	17·5	10	560·0	897·2	+231·0	122·4	21	30	+8·0	10·1	10·4	−1·2	0	31	0	0	9	25	0	0	0	0	0
Mahabaleshwar	18·9	−0·3	19·1	2	16·9	+0·1	15·9	18	1560·6	4003·8	+1328·4	319·3	5	31	+0·9	26·7 (i)	24·7 (i)	+4·1	0	31	0	0	0	31	0	0	0	0	0
Mercara	19·7	−0·7	21·0	12	16·2	0·5	15·0	1 days	973·6	2578·8	+1485·8	286·6	4	31	+2·5	17·9	16·7	+5·1	0	31	0	0	1	0	0	0	0	0	0
Ootacamund	15·6	−1·0	18·9	15	10·9	−0·3	10·1	23, 24	132·0	392·2	+179·9	54·6	3	19	+3·2	18·6	12·4	+2·7	0	29	0	0	0	0	0	0	0	0	0
Coonoor	20·4	−1·2	23·2	27	15·6	+0·5	13·4	30	..	142·5	+76·2	30·2	5	13	+6·0	..	9·1	+1·2	1	21	0	0	0	0	0	0	0	0	0
Kodaikanal	17·1	−0·3	20·4	16	11·3	+0·1	10·2	19	71·2	131·3	+13·2	30·0	16	16	+5·8	15·5	16·5	−0·4	1	20	0	0	3	7	0	0	0	0	0
Nepal																														
Katmandu	28·7	..	30·4	21	20·4	..	18·8	16	62·8	326·2	..	35.3	13	20	..	2·0	1·2	..	0	25	0	0	8	0	0	0	0	0	0
Sikkim																														
Lachen	19·4	..	21·1	29	12·5	..	10·3	19, 26	..	213·8	..	29·0	9	23	..	..	..	..	1	28	0	0	0	0	0	0	0	0	0
Hydro meteorological Observatories—																														
Damodar Catchment																														
Tilaiya	30·8	..	34·6	30	25·0	..	21·8	5	114·3	337.4	..	49·6	16	20	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Hazaribagh	28·9	..	32·5	28	23·0	..	21·9	15	135·3	132.2	..	48·4	28	22	..	..	..	..	1	25	0	0	12	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	97·2	318·5	..	134.6	5	15	..	..	..	..	0	24	0	0	1	0	0	0	0	0	0
Bokaro	31·0	..	35·1	28	24·7	..	23·5	15	64·0	260.4	..	52·4	5	18		..	..		0	20	0	0	4	0	0	0	0	0	0
Maithon	30·5	..	36·6	28	25·3	..	22·8	13	99·0	162·1	..	53·6	5	16					0	18	0	0	1	0	0	0	0	0	0
Ramgarh	31·4	..	36·5	28	24·6	..	..	..	147·7	357.4	..	36·9	13	20	..	4·4	3·3	..	0	7	0	0	0	0	0	0	0	0	0
Panchet Hills	31·9	..	38·3	22	25·9		24·2	15	111·5	220·8	..	67·2	5	15	..	11·5	9·2	..	0	23	0	0	8	0	0	0	0	0	0
Durgapur	33·4	..	36·6	28	..	..	..	..	154·7	254·8	..	63·0	15	15	..	..	..	..	1	22	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																														
Ginabahar	29·4	..	33·4	28	23·2	..	20·2	15	..	604·2	..	80·3	4	20	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..
Hirakud	29·7 (b)	..	..	..	24·7 (b)	..	..	..	326·6	924.1	..	178·4	9	16	..	7.8	7·5	..	2 (a)	21 (a)	0	0	6	0	0	0	0	0	0
Bhimkund	29·0	..	33.3	31	23·8	..	22·1	17	168.0	332.8	..	46·0	4	19	..	4·1	2·8	..	0	23	0	0	20	0	0	0	0	0	0

*Data given as addenda in December 1961 issue.

(a) Mean of 30 days. (f) Total for 25 days. (R) Register not received. (g) Mean of 24 days (i)—Mean of 22 day

(b) Mean of 29 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed km. per. hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Galt	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
drometeorological Observatories— *Contd.)*																													
hanadi Catchment— *contd.*																													
epur	29·8	..	34·4	28,29	24·3	..	22·7	4 dyas	..	310·1	..	84·6	16	15	..	..	9·6	..	2	18	..	..	..	..	..	..	..	..	..
ijrawan	28·3	..	32·2	5 days	23·3	..	21·9	14, 17, 18	128·5	303·8	..	41·4	22	20	..	(a) 12·7	(b) 9·3	..	0	24	0	0	0	0	0	0	0	0	0
rbada Catchment																													
gra Tawa	29·8	..	34·1	2	24·0	..	22·4	17	..	343·1	..	52·5	17	20	..	..	3·2	..	1	25	0	0	7	0	0	0	0	0	0
nasa	31·0	..	36·4	4	24·0	..	21·4	25	0	393·1	..	181·0	21	12	..	3·6	7·1	..	0	17	0	0	0	0	0	0	0	0	0
ikri	32·0		37·3	4	24·7	..	23·4	20,22	..	255·9	..	34·0	21	12	..	..	..	..	1	25	0	0	0	0	0	0	0	0	0
armati Catchment																													
harol (R)																													
Dharoi	32·3	..	38·8	1,2	25·1	..	24·0	7,9	120·5	322·6	..	104·0	18	12	..	..	..	..	0	14	..	..	..	..	..	..	..	..	..
nga Catchment																													
ukhim	23·4	..	26·6	4	17·4	..	15·5	23	146·6	482·1	..	86·0	5	20	..	..	..	..	0	28	0	0	8	5	0	0	0	0	0
ehri	33·3	..	37·2	5	23·9	..	22·0	10	53·6	201·4	..	40·4	11	14	..	4·6	3·6	..	0	19	0	0	0	0	0	0	0	0	0
ndak Catchment																													
amosom	25·1	..	27·7	16	14·3	..	12·3	3	0	29·0	..	17·0	10	3	..	..	..	..	0	4	..	..	..	..	..	..	..	..	.
hudi Bazar	..	..	.	.	..	..	..	..	182·0	743·6	..	89·0	11	27	..	..	..	..	0	30	..	..	..	..	..	..	..	..	..
imure	26·8	..	28·3	5	17·7	..	16·3	24	8·0	171·3	..	25·4	21	20	..	..	..	..	0	26	..	..	..	..	..	..	..	..	..
okhara	30·0	..	31·5	6,20	21·9	..	20·4	20	68·1	1046·7	..	157·8	15	25	..	4·7	3·2	..	0	29	0	0	17	0	0	0	0	0	0
orkha *																													
awakot	30·5	..	32·0	20	21·0	..	19·5	25	79·6	486·8	..	66·0	13	25	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
aghara Catchment (Trans Himayan Region)																													
ailekh (R)																													
aghara chment																													
ansiari (R)																													
andeldhura	23·6	..	26·2	4	17·5	..	15·5	26	134·8	425·1	..	63·6	9	21	..	..	..	..	0	25	0	0	3	27	0	0	0	0	0
llayana	26·7	..	28·9	7,17,22	(j) 20·6	..	19·2	26,29	31·7	95·3	..	25·2	30	6	..	..	..	..	0	13	0	0	0	0	0	0	0	0	0
twal	32·9	..	35·4	4,17	25·7	..	23·9	29	24·1	363·6	..	77·6	31	16	..	..	..	..	1	19	..	..	..	..	..	..	..	..	..
gmati Catchment																													
atmandu†																													
si Catchment																													
hautara	27·5	..	29·4	13	18·9	..	17·1	26	131·4	497·5	..	68·4	9	21	..	..	..	..	1	24	..	..	..	..	..	..	..	..	..
hepua	..	..	..	..	..	..	..	..	21·7	255·7	..	25·1	9	23	..	..	..	..	2	28	..	..	..	..	..	..	..	..	..
/alungchung Gola	17·5	.	20·1	5	10·0	..	8·6	18	88·6	355·0	..	41·0	13	26	..	..	..	..	0	31	..	..	..	..	..	..	..	..	..
aplethok	28·0	..	30·7	5	19·3		17·9	26	143·0	480·0	..	46·4	25	27	..	..	..	..	0	31	0	0	0	0	0	0	0	0	0
hojpur	24·7	..	27·0	4	18·9	..	17·8	24, 29, 31	27·3	156·6	..	31·3	13	12	..	..	..	..	0	14	.	..	..	..	..	..	..	..	..
aplejung	25·5	..	27·4	16	17·6	..	16·4	21	71·4	409·0	..	61·8	28	21	..	..	..	..	0	26	0	0	7	6	0	0	0	0	0
khaldunga	25·5	..	27·9	9	17·7	..	16·1	24,26	117·7	293·5	..	41·8	24	13	..	1·1	1·0	..	1	19	0	0	5	9	0	0	0	0	0
hainpur	28·7	..	30·5	20	20·8	..	19·4	25	43·4	275·1	..	51·0	12	17	..	..	..	..	0	21	..	..	..	..	..	..	..	..	..
ngbung	(k) 30·3	..	31·9	5	(d) 21·4	..	20·2	5	36·0	(d) 201·1	..	47·0	28	14	..	..	..	..	0	17	0	0	0	0	0	0	0	0	0
arahkshetra	32·1	..	34·1	3	23·9	..	22·7	26	202·2	464·0	..	128·1	28	15	..	8·8	4·7	..	1	25	0	0	15	0	0	0	0	0	0
sta Catchment																													
angtok	22·7	..	26·3	21	17·0	..	15·9	18	129·8	690·1	..	100·8	18	26	..	3·6	2·7	..	0	31	0	0	8	25	0	0	0	0	0
eyzing	26·8	..	29·7	21	18·6	..	17·0	16,24	95·3	696·6	..	98·4	31	19	..	.	..	..	0	24	..	..	..	..	..	..	..	..	..

(R) Register not received.
*Data not reliable.
(j) Mean of 21 days.
(a) Mean of a 30 days
†Data includes under "Nepal".
(b) Mean of 29 days.
(k) Mean of 20 days.
(d) Total or Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007·5	1004.4	..	27·3	25·4	24·6	30·8	85	..	6·4	..	9·5	0	0	30	0	0	0	0	0	30	0	0	1	0
	1730	,,	1005·8	1002·7	..	26·9	25·1	24·1	30·2	85	..	5·9	..	12·1	0	3	28	0	0	0	0	0	31	0	0	0	0
Long Island	0830	25	..	..	..	27·9	26·1	25·2	32·1	83	..	7·2	..	4·9	0	0	23	0	0	0	0	0	20	1	0	8	2
	1730	,,	..	..	..	27·0	25·3	24·4	30·5	87	..	7·3	..	5·3	0	0	25	0	0	0	0	0	23	2	0	6	0
Port Blair	0530	79	1006·4	998·5	..	25·3	24·2	23·7	29·3	92	..	7·6	..	13·5	0	10	15	1	0	0	0	0	20	3	1	6	0
	0830	,,	1008·5	999·6	+1·1	26·9	25·0	24·1	30·0	86	+2	7·5	+0·9	22·6	0	19	10	0	1	0	0	0	23	4	1	2	0
	1130	,,	1007·9	999·0	..	27·6	25·2	24·1	30·0	82	..	7·5	..	25·0	0	21	9	0	0	0	0	0	26	3	1	1	0
	1730	,,	1006·9	998·0	..	26·1	24·5	23·2	29·5	88	..	7·5	..	17·2	0	10	19	0	0	0	0	0	25	4	0	2	0
	2330	,,	1003·2	999·2	..	25·2	24·3	24.0	29·8	92	..	6·9	..	12·1	0	3	24	0	0	0	0	1	23	3	0	4	0
Car Nicobar	0830	10	1009·5	1008·3	..	28·0	25·5	24·6	30·9	81	..	6·4	..	5·5	0	0	30	0	0	0	0	5	22	3	0	1	0
	1730	,,	1007·8	1006·6	..	26·9	24·8	23·8	29·5	84	..	6·6	..	2·7	0	0	22	0	0	0	0	4	16	2	0	9	0
Nancowry	0830	26	1010·0	1007·1	..	27·9	25·2	24·1	30·0	79	..	5·3	..	4·7	0	0	19	0	0	0	0	0	17	2	0	12	0
	1730	,,	1008·1	1005·2	..	27·0	24·7	23·6	29·1	82	..	5·0	..	5·2	0	0	22	0	0	0	0	0	20	1	1	9	0
Kondul	0830	8	1009·8	1008·9	..	28·0	25·3	24·1	30·0	80	..	5·7	..	2·2	0	0	14	0	0	0	0	0	14	0	0	17	0
	1730	,,	1008·0	1007·1	..	27·1	25·0	24·0	29·8	83	..	5·6	..	1·7	0	0	13	0	0	0	12	1	0	0	0	18	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1002·3	984·7	..	26·6	25·0	24·4	30·4	89	..	6.8	..	2·1	0	0	15	6	1	3	2	0	1	0	2	16	0
	1730	,,	998·2	980·9	..	29·4	26·6	25·4	32·4	81	..	5·3	..	1·6	0	0	11	0	1	1	0	1	2	0	6	20	0
Dibrugarh (Mohanbari)	0230	111	999·3	986·9	..	25·9	25·2	24·8	31·3	94	..	6·5	..	1·6	0	0	9	0	5	1	0	0	1	2	0	22	0
	0530	,,	1000·2	987·7	..	25·7	25·1	24·7	31·1	95	..	7·5	..	2·7	0	0	17	2	5	4	1	0	3	1	1	14	0
	0830	,,	1001·2	988·8	−1·3	26·8	25·6	25·1	31·9	90	+3	7·4	+0·8	3·2	0	0	22	2	5	7	1	2	3	2	0	9	0
	1130	,,	1000·4	998·0	..	28·9	26·4	25·4	32·4	82	..	7.2	..	4·2	0	0	27	1	11	4	4	3	1	2	1	4	0
	1730	,,	997·4	985·1	..	29.8	26·6	25·3	32·2	78	..	5·4	..	3·1	0	0	18	1	10	4	1	0	0	0	2	13	0
	2330	,,	999·7	987·3	..	26·5	25·6	25·3	32·2	93	..	6·0	..	2·2	0	0	12	0	11	0	0	0	0	1	0	19	0
Dibrugarh	0830	106	1001·5	989·6	−1·0	27·0	24·9	24·0	29·5	84	−3	7·0	+0·4	2·2	0	0	23	2	4	2	4	2	3	2	4	8	0
	1730	,,	997·7	986·0	..	29·8	26·3	25·1	31·5	77	..	1·4	..	0·6	0	0	6	0	2	3	0	0	1	0	0	25	0
Digboi	0830	152	..	..	..	25·2	23·8	23·0	28·3	89	..	2·1	..	..	..	..	..	8	1	7	5	7	1	2	0	0	0
	1730	,,	..	..	..	30.7	28·6	27·7	37·4	85	..	1·2	..	..	..	..	..	6	3	13	2	4	0	3	0	0	0
North Lakhimpur	0830	102	..	..	..	27·2	25·8	25·2	32·1	89	−1	6·8	−0·5	..	0	0	16	2	4	4	1	3	0	0	2	15	0
	1130	,,	..	..	..	29.6	26·7	25·5	32·6	79	..	6·5	..	..	0	0	29	3	1	10	3	11	1	0	0	2	0
	1730	,,	..	..	..	29.8	27·1	26·0	33·6	81	..	4·9	..	..	0	0	19	2	3	8	1	3	1	1	0	12	0
Sibsagar	0830	95	1001·9	991·1	−0·3	27.8	26·2	25·4	32·4	87	0	7·4	+0·2	2·7	0	0	18	2	5	0	2	3	6	0	0	13	0
	1730	,,	998·3	987.9	..	30.6	27·4	26·1	33·8	77	..	6·1	..	2·4	0	0	15	3	5	2	4	0	1	0	0	16	0
Gohpur	0830	..	..	..	..	28·1	26·7	26·3	34·2	89	..	1·9	..	..	0	0	30	0	0	29	1	0	0	0	0	0	0
	1730	..	..	..	..	30·3	28·2	27·2	36·5	83	..	1·9	..	..	0	0	24	1	0	22	1	0	0	0	0	4	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	8·7	..	3·0	0	0	22	2	5	5	3	3	3	1	0	9	0
	1730	,,	..	..	..	..	..	..	..	..	..	3·9	..	1·2	0	0	10	2	2	3	0	0	1	0	2	21	0
Jorhat Aerodrome	0530	90	1000.1	990·1	..	25·7	25·3	25·1	31·9	96	..	7·0	..	3·8	0	1	12	0	2	1	0	1	5	2	2	18	0
	0830	,,	1001·3	991·3	..	28·1	26·2	25·5	32·4	85	..	6·8	..	6·1	0	0	23	1	7	1	0	1	9	2	2	8	0
	1130	,,	1000·2	990·2	..	30·7	27·2	25·7	33·0	75	..	6·6	..	8·6	0	0	27	1	9	5	0	1	6	2	3	4	0
	1730	,,	997·1	987·2	..	30·9	27·3	25·9	33·4	75	..	5·8	..	7·8	0	0	29	1	15	1	0	1	4	3	4	2	0
	2330	,,	1000·0	990·0	..	27·4	26·7	26·4	34·6	94	..	5·9	..	4·5	0	0	15	0	8	0	0	1	4	0	2	16	0
Tingla	0830	78	1000·6	991·8	..	28·7	26·6	25·8	33·0	86	..	5·1	..	2.1	0	0	15	0	4	5	0	0	4	2	0	16	0
	1730	,,	997·1	988·4	..	31·0	28·0	26·8	35·2	79	..	3·5	..	0·8	0	0	5	0	1	1	0	0	3	0	0	26	0
Tezpur	0830	79	1001·7	992·9	−0·8	27·6	26·1	25·4	32·6	88	+2	7·1	+0·5	1.7	0	0	15	0	11	1	0	0	3	0	0	16	0
	1730	,,	997·9	989·3	..	30·5	27·4	26·1	33·8	78	..	5·1	..	1·4	0	0	14	1	9	1	0	0	3	0	0	17	0
Golaghat	0830	..	..	..	..	28·6	26·5	25·6	33·0	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·6	27·4	25·8	33·8	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rangia (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	0830	66	1001·8	994·4	..	29·0	26·6	25·6	32·8	83	..	6·5	..	4·3	0	0	31	11	1	10	1	7	0	1	0	0	0
	1730	,,	997·7	990·5	..	31·5	27·8	26·2	34·2	76	.	5·7	..	4·3	0	0	31	11	1	7	1	4	1	5	1	0	0
Goalpara	0830	38	1001·2	996·9	..	27·9	26·2	25·3	32·6	88	..	(a) 6·5	..	(a) 3·5	0	0	29	0	5	3	6	2	6	3	4	1	0
	1730	,,	997·7	994·3	..	30·6	28·2	27·1	36·3	83	..	(b) 5·9	..	(b) 3·3	0	0	28	0	5	2	3	1	11	2	4	1	0
Gauhati	0830	55	1001·5	995·3	−0·1	28·5	26·6	26·0	33·4	80	−3	5·9	−0·5	0·8	0	0	8	1	4	3	0	0	0	0	0	23	0
	1730	,,	998·5	992·3	..	30·4	27·6	26·4	34.6	79	..	5·6	..	0·6	0	0	6	0	0	1	0	0	3	0	2	25	0
Gauhati (Bhorjor)	0230	54	999·7	993·5	..	26·9	25·9	25·5	32·6	92	..	6·5	..	2·2	0	0	16	0	1	1	1	5	6	2	0	15	0
	0530	,,	1000·2	994·1	..	26·5	25·8	25·5	32.6	94	..	7·3	..	2·9	0	0	21	1	7	2	2	4	3	0	2	10	0

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temprature in °C: Dry bulb	Mean temprature in °C: Wet bulb	Mean temprature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —(*Contd.*)																											
Gauhati (Bhorjor) —*contd.*	0830	54	1001·2	995·1	—0·4	28·7	26·6	25·8	33·0	85	+4	6·8	..	4·5	0	0	23	2	10	2	1	4	2	1	1	8	0
	1130	,,	1000·1	994·1	..	30·7	27·4	26·1	33·2	77	..	6·5	..	7·0	0	0	26	8	8	1	0	1	1	3	4	5	0
	1730	,,	997·7	991·7	..	29·9	27·2	26·1	33·8	80	..	6·4	..	5·5	0	0	28	1	6	1	2	4	3	6	5	3	0
	2330	,,	1000·4	994·3	..	27·5	26·4	25·9	33·4	91	..	6·2	..	2·6	0	0	16	0	0	1	0	8	5	1	1	15	0
Dhubri (Rupsi)	0530	36	999·2	995·1	..	26·5	25·9	25·7	32·8	95	..	6·8	..	2·0	0	0	17	2	1	5	4	1	2	1	1	14	0
	0830	,,	1000·1	996·1	..	28·7	26·7	25·8	33·2	85	..	6·5	..	5·9	0	0	28	0	0	10	6	3	5	2	2	3	0
	1130	,,	999·6	995·6	..	30·4	27·2	25.9	33·4	77	..	6·3	..	8·1	0	0	31	1	1	8	9	2	7	2	1	0	0
	1730	,,	997·0	993·0	..	30·2	27·2	26·1	33·8	79	..	6.6	..	3·9	0	0	19	0	2	2	3	6	4	1	0	12	1
Dhubri	0830	35	1001·6	997·7	+0.1	28·6	26·8	26·1	33·8	87	+2	6·5	+0·5	1·5	0	0	14	0	1	3	5	5	0	0	0	17	0
	1730	,,	998·3	994·3	..	29·6	27·3	26·3	36·3	83	..	6·2	..	1·8	0	0	9	0	0	2	1	4	1	1	0	22	0
Lumding	0830	149	1000·9	984·3	..	29·0	26·2	25·2	31·7	80	—2	6·2	..	2·0	0	0	14	0	0	1	8	1	1	1	2	17	0
	1730	,,	997·2	980·9	..	30·9	27·1	25·6	32·6	74	..	5·2	..	1·1	0	0	9	0	2	1	2	2	2	0	0	22	0
Umroi	0830	899	..	..	..	25·3	22·8	21·7	25·9	81	..	6·8	..	3·8	0	0	18	2	7	4	3	0	1	0	1	13	0
	1130	,,	..	..	..	27·1	23·3	21·4	25·5	72	..	6·8	..	6·2	0	0	26	3	3	5	7	4	0	0	4	5	0
	1730	,,	..	..	..	24·7	22·7	21·8	26·1	84	..	7·1	..	5·2	0	1	23	3	4	2	1	6	0	1	6	7	0
Tura	0830	370	1001·9	960·9	..	26·3	24·7	23·9	29 8	87	..	7·5	..	3·4	0	0	24	1	2	0	0	11	1	4	5	7	0
	1730	,,	999·0	958·3	..	28·1	25·3	24·0	30·0	79	..	7·8	..	3·1	0	0	22	1	0	0	7	4	8	1	1	9	0
Haflong	0830	682	1002·0	927·7	..	24·3	22·6	21·8	26·1	87	..	5·8	..	..	0	1	30	0	1	0	3	1	26	0	0	0	0
	1730	,,	997·4	923·9	..	26·5	23·6	22·3	26·7	78	..	5 4	..	..	0	1	30	0	0	0	0	5	26	0	0	0	0
Silchar (Kumbhigram)	0530	97	1000·2	989.3	..	24·8	24·5	24·3	30·4	97	..	6·9	..	4·7	0	0	27	0	1	22	1	0	1	2	0	4	0
	0830	,,	1000·9	990·2	..	27·5	25·7	25·0	31·5	86	..	6·7	..	4·5	0	0	27	0	4	11	5	1	3	1	2	4	0
	1130	,,	999·7	989·0	..	30·2	26·7	25·1	32·2	75	..	6.1	..	5·9	0	0	30	3	2	2	3	1	3	8	8	1	0
	1730	,,	997·2	986·5	..	29·5	26·4	25·0	31·8	78	..	6·3	..	5·4	0	0	24	2	1	4	2	2	5	7	1	7	0
Silchar	0830	29	1002·5	999·2	—0·4	28·3	26·2	25·3	32·2	85	0	5·8	—0·4	(a) 2·6	0	0	24	3	9	4	1	1	2	1	3	6	0
	1730	,,	998·8	995·6	..	29·8	26·9	25·3	33·0	77	..	5·2	..	(a) 2·4	0	0	23	1	0	1	3	3	4	7	4	7	0
Imphal (Tulihal)	0530	801	1002·1	917·1	..	22.8	22·0	21·6	25·8	94	..	6·8	..	2·5	0	0	21	4	4	4	0	2	2	1	3	10	1
	0830	,,	1002·4	917·9	—1·4	25·1	22·8	21·8	26·1	82	+1	7·0	0	3·1	0	0	29	5	0	4	2	7	1	3	7	2	0
	1130	,,	1000·8	917·1	..	27·5	23·6	21·8	27·7	72	..	6·3	..	2·9	0	2	22	0	1	0	2	6	8	4	1	9	0
	1730	,,	998·7	914·9	..	26·3	23·4	22·3	26·6	78	..	6·7	..	6·3	0	0	31	2	0	0	9	4	2	9	4	0	1
	2330	,,	1002·1	917·3	..	23·5	22·4	21·9	26·3	91	..	6·5	..	4·1	0	0	26	4	1	1	4	0	1	8	7	5	0
Kailashar	0530	29	100[illegible]·9	998·6	..	25·6	25·0	24·7	31·1	95	..	6·8	..	4·2	0	0	14	1	0	1	2	9	1	0	0	17	0
	0830	,,	1002·5	999·3	..	28·8	26·3	25·2	32·2	81	..	6·5	..	7·3	0	0	27	2	2	3	5	10	4	1	0	4	0
	1130	,,	1001·5	998·3	..	30·7	27·3	25·9	33·4	76	..	6·2	..	8·4	0	3	24	0	1	3	5	12	3	2	1	4	0
	1730	,,	999·1	995·9	..	29·6	26·9	25·9	33·4	81	..	6·7	..	6·7	0	1	24	1	1	0	0	17	3	2	1	6	0
Agartala	0230	16	999·6	997·8	..	26·0	25·4	25·0	31·9	95	..	6·8	..	9·2	0	0	30	0	0	5	18	5	1	1	0	1	0
	0530	,,	1000·2	998·4	..	25·5	25·0	24·7	31·1	95	..	7·3	..	10·0	0	0	31	0	1	7	18	5	0	0	0	0	0
	0830	,,	1001·1	999·3	—1·2	28·2	26·2	25·3	32·4	85	0	7·1	+0·1	11·5	0	1	29	0	1	2	17	8	2	0	0	1	0
	1130	,,	1000·3	998·5	..	30·0	26·9	25·6	33·0	77	..	7·0	..	13·7	0	5	26	1	0	0	15	11	3	0	1	0	0
	1730	,,	998·0	996·2	..	29·4	26·6	25·4	32·4	79	..	6·9	..	11·5	0	2	29	1	0	0	10	12	3	3	2	0	0
	2330	,,	1000·6	998·8	..	26·3	25·5	25·2	32·1	94	..	5·9	..	10·5	0	2	26	0	0	1	17	7	3	0	0	3	0
Sub-Himalayan West Bengal																											
Bagdhogra	0230	131	999·0	984·4	..	26·7	25·6	25·0	31·7	91	..	6·4	..	8·2	0	0	29	6	15	4	2	0	0	1	1	2	0
	0530	,,	999·5	984·8	..	25·8	25·4	25·2	32·1	97	..	6·9	..	7·2	0	0	29	4	13	4	4	1	1	0	2	2	0
	0830	,,	1000·4	985·8	—1·1	28·2	26·7	26·2	34·0	89	+2	6·8	—0·4	9·4	0	2	28	0	14	7	5	1	3	0	0	1	0
	1130	,,	999·8	985·3	..	30·5	28·3	27·4	36·5	84	..	6·7	..	10 4	0	3	28	0	10	4	13	2	2	0	0	0	0
	1730	,,	997·3	982·8	..	29·1	27·9	27·5	36·7	91	..	6·9	..	8·4	0	1	27	2	12	4	6	0	1	1	2	3	0
	2330	,,	999·9	985·3	..	26·7	25·9	25·3	32·2	91	..	6·0	..	9·0	0	1	27	8	11	4	0	0	1	3	1	3	0
Jalpaiguri	0830	83	1000·6	991·3	—0·8	27·3	25·9	25·3	32·2	89	+1	5·7	+0·4	6·1	0	0	26	3	9	14	0	0	0	0	0	5	0
	1730	,,	997·3	988·1	..	29·5	26·7	25·7	32·7	80	..	4·9	..	8·1	0	1	28	4	8	7	6	2	2	0	0	2	0
Cooch-Behar	0830	43	1000·6	995·8	..	29·2	26·9	26·1	33·8	84	..	6·9	..	5.4	0	0	25	0	2	14	5	1	0	1	0	6	2
	1130	,,	1000·0	995·2	..	30·6	27·7	26·7	35.0	79	..	6·8	..	7·0	0	1	24	0	0	11	8	4	1	1	0	6	0
	1730	,,	997·6	992·8	..	29·9	27·5	26·7	35·0	82	..	6·5	..	3·5	0	0	18	0	3	3	6	2	1	2	0	13	1
Balurgh	0830	..	..	..	..	28·9	26·7	26·1	33·8	84	..	5·4	..	6·5	0	1	26	0	0	9	9	7	2	0	0	4	0
	1730	..	..	..	..	30·7	27·1	25·6	32·8	75	..	5·2	..	4·6	0	0	30	0	2	5	14	5	4	0	0	1	0
Malda	0830	31	1000·1	996·5	—0·2	29·1	26·7	25·8	33·2	83	+1	6·7	+0·9	9·9	0	2	29	2	0	9	10	7	2	0	1	0	0
	1730	,,	997·0	993·5	..	30·6	27·2	25·8	33·2	76	..	5·8	..	8·1	0	0	31	1	1	11	8	6	3	0	1	0	0
Gangetic WestBengal																											
Berhampore	0830	19	999·4	997·3	—0·7	28·2	26·5	25·9	33·4	86	+2	6·7	0	5·8	0	0	30	0	0	12	0	14	1	3	0	1	0
	1730	,,	996.5	994·5	..	29.8	27·0	25·9	33·4	80	..	6·4	..	5·4	0	0	31	0	0	12	0	18	0	1	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in m b	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in Km. per hour	Wind spee (Km p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Suri	0830	77	999·8	991.2	..	28·2	26·2	25·3	32·5	85	..	6·7	..	9·8	0	1	30	0	4	6	7	9	4	1	0	0	0
	1730	,,	996·9	988·3	..	29·5	26·4	25·2	31·9	78	..	6·0	..	9·1	0	0	31	1	3	6	7	8	4	1	1	0	0
Asansol	0230	126	997·9	984·2	..	26·3	25·7	25·5	32·6	97	..	5·6	..	7·1	0	0	21	0	0	5	7	6	1	2	0	10	0
	0530	,,	998·2	984.1	..	25·9	25·6	25·4	32·4	97	..	6·6	..	5·1	0	0	21	0	1	3	7	7	1	2	0	10	0
	0830	,,	999·4	985·3	+0·4	27·7	26·5	25·8	33·2	89	+4	6·5	—0·3	8·5	0	0	28	0	1	10	9	5	2	1	0	3	0
	1130	,,	998·9	985·0	..	29·8	27·3	26·5	34·6	82	..	6·5	..	8·7	0	0	28	0	2	6	12	4	2	1	1	3	0
	1730	,,	996·4	982·5	..	29·2	27·0	26·1	33·8	84	..	6·4	..	8·6	0	0	27	1	1	11	7	5	1	1	0	4	0
	2330	,,	999·1	985·0	..	27·0	26·1	25·9	33·4	93	..	6·0	..	6·2	0	0	21	0	0	3	7	8	1	2	0	10	0
Shanti Niketan	0830	59	999·9	993.3	..	28·3	26·3	25·4	32·8	85	..	6·2	..	9·4	0	0	29	0	5	4	4	11	4	0	1	2	0
	1130	,,	999·6	993·0	..	29·8	26·7	25·5	32·6	78	..	6·3	..	8·1	0	0	31	0	5	3	9	5	8	1	0	0	0
	1730	,,	996·7	990·1	..	29·9	26·7	25·3	32·4	78	..	6·2	..	9·9	0	0	29	0	2	5	4	14	3	0	1	2	0
Krishnanagar	0830	15	1000·0	998·4	—0·2	29·0	26·8	25·9	33.4	85	+2	4·9	—1·7	2·2	0	0	22	0	0	8	3	11	0	0	0	9	0
	1730	,,	996·9	995·3	..	30·0	27·1	26·1	33·8	80	..	4·6	..	2·3	0	0	23	0	0	3	2	18	0	0	0	8	0
Purulia	0830	255	999·4	971·3	—1·0	27·3	25·1	24.4	30·5	83	0	7·1	+0·6	4·2	0	0	27	0	5	0	18	1	2	0	1	4	0
	1730	,,	996·3	968·5	..	28·8	25·5	24.0	29 8	76	..	6·5	..	4·8	0	0	26	0	3	1	11	7	4	0	0	5	0
Burdwan	0830	32	998·3	994·6	—1·7	28·7	26·0	24·9	31·5	78	—6	(e) 6·7	+0·1	(e) 7·8	0	0	25	0	0	11	0	1	13	0	0	1	0
	1730	,,	996·5	992·8	..	29·4	26·4	25·1	31·9	79	..	5·6	..	4·7	0	0	20	0	1	6	0	2	11	0	0	11	0
Barrackpore Aerodrome,	0530	7	999·0	998·2	..	26·2	25·3	24·7	31·1	92	..	6·4	..	7·0	0	0	23	0	0	7	1	3	11	1	0	8	0
	0830	,,	1000·0	999·3	—1·0	28·6	26·2	25·3	32·2	83	—2	6·6	—0·3	11·3	0	3	27	0	0	8	6	2	12	2	0	1	0
	1130	,,	999·6	998·9	..	30·2	26·8	25·3	32·2	76	..	6·9	..	12·5	0	4	25	0	1	3	9	0	11	4	1	2	0
	1730	,,	997·1	996·4	..	29·5	26·6	25·5	32·7	79	..	6·1	..	11·6	0	2	27	0	0	2	6	6	12	3	0	2	0
	2330	,,	1000·0	999·2	..	27·5	26·2	25·6	32·3	90	..	4·4	..	8·5	0	0	25	0	0	3	4	4	13	1	0	6	0
Calcutta (Dum Dum)	0230	6	998·4	997·7	..	26·5	25.6	25·2	32·2	93	..	5·0	..	5·5	0	0	25	0	2	5	1	9	7	1	0	6	0
	0530	,,	998·7	998·0	..	26·3	25·5	25·1	31·9	94	..	6·7	..	4·4	0	0	25	0	3	5	5	4	6	2	0	6	0
	0830	,,	999·7	999·0	—0·8	29·1	26·6	25·5	32·8	82	—1	7·1	+0·1	7·4	0	0	31	0	1	5	8	7	9	1	0	0	0
	1130	,,	999·3	998·6	..	30·3	27·1	25·8	33·2	77	..	3·6	..	8·5	0	0	29	2	0	3	9	7	7	3	0	2	0
	1730	,,	996·9	996·2	..	29·4	26·9	25·9	33·5	81	..	6·7	..	7·3	0	0	31	0	0	1	7	15	8	0	0	0	0
	2330	,,	999·6	998·9	..	27·1	26·0	25·5	32·7	93	..	5·1	..	6·9	0	0	29	0	1	2	4	14	7	1	0	2	0
Calcutta	0830	6	999·5	998·8	—0·5	28.9	26·3	25·3	32·2	80	—3	6·9	—0·1	9 3	0	0	31	0	1	3	9	5	11	2	0	0	0
	1130	,,	999·1	998.4	..	30·6	26·8	25·2	32·1	76	..	6·8	..	8·6	0	0	30	0	1	4	5	6	13	1	0	1	0
	1730	,,	996·8	996·1	..	29·7	26·5	25·3	32·2	77	..	6·4	..	9·2	0	0	31	0	0	1	9	9	11	1	0	0	0
Midnapure	0830	45	999·5	994·4	—0·4	28·0	25·7	24·9	31.5	82	0	5·3	—0·5	4·3	0	0	20	0	1	2	1	12	3	1	0	11	0
	1730	,,	996·9	991·8	..	29 2	26·1	24·9	31·5	78	..	5·3	..	5·0	0	0	24	0	0	0	1	14	9	0	0	7	0
Contai	0830	11	1000·2	999·0	—0·1	28·3	26·1	25·3	32·2	83	—2	5·0	—1·1	7·9	0	0	28	1	0	2	5	4	14	2	0	3	0
	1730	,,	997·5	996·3	..	28·4	26·1	25·2	32·1	81	..	3·9	..	9·7	0	0	31	0	0	0	5	12	14	0	0	0	0
Saugor Island	0830	3	999·8	999·5	0	28·0	26·2	25·5	32·6	87	+5	6·2	—0·8	25·5	0	15	16	0	1	1	4	7	14	3	1	0	0
	1730	,,	997·5	997·2	..	28·6	26·3	25·3	32·2	83	..	5·9	..	28.2	0	21	10	0	0	1	5	9	14	2	0	0	0
Sandheads	0530	10	998·0	996·9	..	27·6	25·8	25·0	31·7	86	..	7·0	..	24·7	0	18	12	0	0	0	2	6	19	3	0	1	0
	0830	,,	999·5	998·4	—0·4	28·2	26·2	25·4	32·4	85	+3	6·5	+0·3	24·4	0	18	12	0	0	0	3	6	17	4	0	1	0
	1130	,,	999·2	998·1	..	28·6	26·3	25·3	32·2	82	..	6·5	..	25.1	0	17	13	0	0	2	3	5	14	6	0	1	0
	1730	,,	996·8	995·7	..	28·6	26·3	25·5	32·6	82	..	6·5	..	24.8	0	17	14	0	0	0	5	5	18	3	0	0	0
	2330	,,	999·5	998·4	..	28·2	26·3	25·5	32·6	84	..	2·3	..	25.1	0	19	12	0	0	1	3	8	16	3	0	0	0
Orissa																											
Baripada	0830	54	1000·3	994 2	..	27·8	25·7	24·8	31·3	84	.	7·1	..	1·9	0	0	19	3	1	0	2	2	11	0	0	12	0
	1730	..	997·6	991·2	..	29·2	26·2	24 9	31·5	78	..	5·7	..	2·9	0	0	21	0	0	4	6	1	8	2	0	10	0
Jharsuguda	0230	230	998·1	972·4	..	25·0	24·5	24·4	30·5	96	..	7·0	..	6·1	0	0	24	0	0	1	4	6	9	3	1	7	0
	0530	,,	998·3	972·6	..	24·6	24.2	24·0	29·8	97	..	7·3	..	6·2	0	1	22	1	1	0	2	3	11	5	0	8	0
	0830	,,	999·5	973·9	—1·1	25·9	24·6	24·0	29·8	89	+3	7·5	+0·3	8·8	0	0	31	0	2	2	3	7	13	3	1	0	0
	1130	,,	999·2	973·7	..	27·1	25·0	24·1	30·0	85	..	7·6	..	8·7	0	0	30	0	0	5	1	2	11	11	0	1	0
	1730	,,	996·9	971·5	..	27·2	25·1	24·4	30·5	85	..	7·6	..	7·5	0	0	27	0	0	3	4	4	14	2	0	4	0
	2330	,,	999·4	973·8	..	25·5	24·8	24·5	30·7	94	..	7·0	..	8·0	0	1	28	1	0	2	6	6	11	3	0	2	0
Keonjhargarh	0830	463	996·9	946·2	..	25·4	23·1	22·2	26·7	82	..	6·4	..	7·9	0	2	29	2	4	3	4	1	3	12	2	0	0
	1730	,,	994·5	944·1	..	26·2	23·7	22·8	27·7	81	..	7·4	..	3·3	0	0	28	0	1	2	5	2	1	17	0	3	0
Balasore	0830	20	999·3	997·1	—1·0	27·5	25·9	25·2	32·1	88	+6	6·8	+0·9	11·9	0	8	19	0	2	0	0	9	15	0	1	4	0
	1730	,,	997·1	994·9	..	28·6	26·1	25·0	31·7	81	..	6·8	..	12·2	0	9	18	0	0	1	4	11	11	0	0	4	0
Sambalpur	0830	148	1000·0	983·4	—0·4	26·5	24·7	25·4	29·8	87	+3	6·6	—0·8	3·1	0	0	18	0	0	0	0	3	12	3	0	13	0
	1730	,,	997·3	980·8	..	27·3	25·2	24·2	30·2	85	..	6·4	.	2·8	0	0	16	0	0	0	0	2	12	2	0	15	0
Angul	0830	139	1000·6	985·1	+0·1	26·5	25·1	24·6	30·9	89	+9	7·4	+1·1	3·7	0	0	30	2	3	5	4	1	4	4	7	1	0
	1730	,,	999·2	983·7	..	27·1	25·3	24·6	30·9	86	..	6·8	..	3·9	0	0	31	0	1	4	6	2	5	8	5	0	0

(e) Mean of 26 days

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km.p.h.): 62 or more	Wind speed, (km.p.h.): 20 to 61	Wind speed, (km.p.h.): 1 to 19	No. of observarion, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Cuttack	0830	27	1000·2	997·1	−0·6	27·8	26·2	25·5	32·6	86	+6	6·5	+0·3	0·3	0	0	2	0	0	0	0	0	2	0	0	29	0
	1730	,,	997·7	994·7	..	28·5	26·4	25·5	32·6	84	..	6·7	..	0·8	0	0	4	0	0	0	1	0	3	0	0	27	0
Chandbali	0830	6	1000·5	999·8	+0·6	28·1	26·3	25·7	33·0	86	+2	6·7	+0·3	5·6	0	1	27	0	2	0	3	5	14	3	1	3	0
	1730	,,	998·0	997·3	..	28·7	26·3	25·4	32·4	84	..	6·7	..	8·0	0	0	31	0	1	1	12	3	11	3	0	0	0
Bolangir	0830	190	999·8	978·6	..	26·2	24·4	23·6	29·1	85	..	6·8	..	17·5	0	8	23	0	2	3	2	12	9	1	0	0	2
	1730	,,	997·8	976·7	..	27·5	25·3	24·3	30·4	81	..	7·1	..	15·9	0	7	24	4	5	2	3	9	7	0	1	0	0
Phulbani	0830	464	998·1	947·3	..	25·3	23·2	22·2	26·7	84	..	6·7	..	2·8	0	0	11	0	0	0	0	0	7	4	0	20	0
	1730	,,	995·9	945·4	..	26·3	23·7	22·5	27·3	80	..	6·7	..	1·5	0	0	9	0	0	0	0	1	0	8	0	22	0
Titlagarh	0830	211	998·9	975·6	..	26·9	25·2	24·5	30·7	87	..	4·9	..	3·0	0	0	31	0	22	0	9	0	0	0	0	0	0
	1730	,,	997·6	974·3	.	28·1	25·0	23·7	29·3	78	..	3·9	..	2·9	0	0	30	0	14	0	13	2	1	0	0	1	0
Bhubaneswar	0230	46	999·0	993·8	..	26·1	25·3	25·0	31·7	93	..	6·5	..	14·7	0	10	16	0	0	0	0	6	14	4	2	5	0
	0530	,,	999·2	993·9	..	25·8	25·1	24·9	31·5	94	..	6·9	..	13·0	0	2	23	1	1	0	0	2	18	3	0	0	0
	0830	,,	1000·3	995·1	−0·7	27·6	25·7	25·0	31·7	85	+1	7·0	+1·2	13·9	0	5	26	0	0	2	3	3	20	3	0	0	0
	1130	,,	1000·2	995·0	..	29·1	25·9	24·6	30·9	77	..	7·3	..	16·1	0	6	25	1	1	0	2	3	24	0	0	0	0
	1730	,,	998·2	993·0	..	27·8	25·7	24·9	31·5	84	..	7·3	..	16·3	0	9	22	0	1	0	4	5	20	0	1	0	0
	2330	,,	1000·4	995·2	..	26·5	25·5	25·1	31·9	92	..	6·5	..	16·0	0	11	16	0	0	0	1	3	22	1	0	4	0
Puri	0830	6	996·1	995·4	−4·4	27·9	26·4	25·9	33·0	88	+6	6·5	+0·7	27·9	0	21	10	2	0	0	0	0	27	2	0	0	0
	1730	,,	998·6	997·9	..	27·8	26·5	26·1	33·8	89	..	7·1	..	21·9	0	11	20	2	0	0	0	0	20	8	1	0	0
Gopalpur	0530	17	999·7	997·8	..	25·7	25·0	24·7	31·1	94	..	7·2	..	13·5	0	9	16	0	0	0	0	4	17	1	3	6	0
	0830	,,	1001·0	999·1	+0·3	27·2	25·6	25·0	31·7	88	+7	6·7	+1·7	14·5	0	8	21	3	0	1	2	6	16	0	1	2	0
	1130	,,	1000·9	999·0	..	28·6	26·2	25·2	32·1	82	..	6·7	..	20·5	0	15	16	1	0	3	3	11	13	0	0	0	0
	1730	,,	998·8	996·9	..	27·5	25·9	25·2	32·1	87	..	6·9	..	22·1	0	16	15	1	0	0	5	11	13	1	0	0	0
	2330	,,	1001·0	999·1	..	26·5	25·4	24·9	31·5	91	..	6·1	..	19·5	0	15	16	1	0	0	0	8	20	1	1	0	0
Koraput	0830	913	1438·8	903·3	−0·6	22·0	20·9	20·3	23·8	90	0	4·6	−2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1418·5	901·0	..	22·2	21·0	20·3	24·0	90	..	6·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	998·7	982·1	−1·1	27·9	26·2	25·4	32·7	87	+5	6·6	+0·8	5·6	0	0	24	0	5	5	9	3	1	1	0	7	0
	1730	,,	996·2	979·9	..	29·4	26·6	25·3	32·6	79	..	6·3	..	4·9	0	0	21	0	2	4	8	4	2	1	0	10	0
Daltonganj	0830	221	997·8	973·5	−1·0	29·0	26·5	25·6	32·8	80	0	7·3	+2·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	995·4	971·1	..	29·2	26·7	25·8	33·2	82	..	7·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	998·6	932·1	−0·5	25·5	23·9	23·3	28·6	87	+2	7·1	0	8·0	0	2	24	0	2	10	2	5	5	1	1	5	0
	1730	,,	996·1	929·9	..	26·3	24·3	23·6	29·1	85	..	6·7	..	7·5	0	0	25	1	0	5	8	4	3	3	1	6	0
Dhanbad	0830	257	998·9	970·3	..	26·8	25·3	24·8	31·3	88	..	6·9	..	5·3	0	0	25	1	0	8	5	6	3	2	0	6	0
	1730	,,	996·2	967·9	..	28·1	25·9	25·1	31·7	84	..	6·6	..	9·3	0	4	21	2	0	7	4	8	1	1	0	6	2
Ranchi	0830	655	997·6	926·5	−1·3	25·0	23·2	22·4	27·1	85	0	7·2	+0·6	1·9	0	0	12	0	3	4	0	2	3	0	0	19	0
	1730	,,	994·4	923·5	..	25·5	23·5	22·6	27·4	84	..	7·2	..	2·0	0	0	14	0	3	2	3	0	5	1	0	17	0
Ranchi Aerodrome	0530	652	997·9	926·8	..	23·2	22·5	22·2	26·7	94	..	7·3	..	6·4	0	0	26	1	3	3	2	6	11	0	0	5	0
	0830	,,	998·6	927·7	..	24·7	23·1	22·4	27·1	87	..	7·4	..	8·3	0	0	28	1	5	3	1	4	12	2	0	3	0
	1130	,,	998·2	927·7	..	26·2	23·7	22·7	27·6	81	..	7·6	..	9·4	0	0	30	1	5	5	3	6	9	0	1	1	0
	1730	,,	995·3	924·6	..	25·4	23·4	22·3	27·3	85	..	(i) 7·4	..	(i) 8·5	0	0	22	1	0	3	7	3	8	0	0	0	0
Jamshedpur	0830	129	999·1	984·8	−0·1	27·4	25·5	24·8	31·3	85	+4	7·1	0	5·6	0	0	25	0	0	7	2	0	10	5	1	6	0
	1730	,,	996·4	982·1	..	29·0	26·0	24·7	31·1	79	..	6·5	..	6·3	0	0	25	1	0	7	2	0	7	7	1	6	0
Jamshedpur (P.B.O.)	0530	142	998·1	982·3	..	25·7	24·7	24·4	30·5	92	..	7·2	..	4·6	0	0	20	1	4	2	2	2	8	0	1	11	0
	0830	,,	999·2	983·4	..	27·2	25·3	24·6	30·9	85	..	7·2	..	6·8	0	0	28	0	3	4	1	8	10	2	0	3	0
	1130	,,	998·9	983·2	..	28·7	25·8	24·5	30·7	79	..	7·2	..	8·8	0	2	25	0	3	3	5	8	5	2	1	4	0
	1730	,,	996·4	980·7	..	28·7	25·7	24·5	30·7	78	..	7·2	..	9·3	0	0	28	0	7	1	6	1	9	2	2	3	0
	2330	,,	999·1	983·3	..	26·5	25·2	24·6	30·9	89	..	6·4	..	6·3	0	0	27	9	7	3	2	5	5	4	1	4	0
Chaibasa	0830	226	998·8	973·8	−0·4	27·3	25·1	24·2	30·2	81	0	7·5	+1·0	5·6	0	0	28	0	3	0	5	0	18	0	2	3	0
	1730	,,	996·4	971·4	..	28·1	25·2	23·9	29·7	79	..	7·2	..	5·7	0	2	23	0	2	0	6	0	15	2	0	6	0
Bihar Plains—																											
Motihari (R)	0830	66																									
(R)	1730	,,																									
Forbesganj	0830	61	999·8	993·0	..	28·8	26·6	25·6	32·8	83	..	6·0	..	5·4	0	0	29	0	3	18	6	0	1	1	0	2	0
	1730	,,	996·5	989·8	..	30·8	27·3	25·9	33·4	76	..	5·4	..	3·5	0	0	29	0	3	15	5	0	4	2	0	2	0
Darbhanga	0830	49	999·4	993·9	−0·4	29·8	26·8	25·6	32·8	79	−4	5·5	−0·6	7·7	0	0	31	1	6	16	2	3	3	0	0	0	0
	1730	,,	996·7	991·2	..	30·9	27·3	25·9	33·4	76	.	5·0	..	6·9	0	0	29	0	3	14	8	1	1	2	0	2	0
Chapra	0830	..	..	..	..	30·2	26·8	25·4	32·4	78	..	5·4	..	2·2	0	0	11	0	4	3	2	1	0	0	1	20	0
	1730	..	..	..	..	31·6	27·1	25·4	32·4	71	..	5·3	..	1·3	0	0	11	0	3	6	1	0	0	0	1	20	0
Purnea	0830	38	1000·0	995·9	−0·2	29·0	27·0	26·2	34·0	85	0	6·0	+0·1	3·9	0	0	24	0	0	19	4	0	1	0	1	7	0
	1730	,,	997·1	992·9	..	29·9	27·3	26·3	34·2	81	..	5·6	..	3·3	0	0	19	0	2	16	0	0	1	0	0	7	0

(i) Mean of 22 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed km. p. h.: 62 or more	Wind speed km. p. h.: 20 to 61	Wind speed km. p. h.: 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna	0830	53	998·8	992·9	−0·6	29·5	26·5	25·4	32·4	79	−2	6·2	−0·4	7·6	0	0	29	3	9	11	4	1	0	1	0	2	0
	1730	,,	995·9	990·0	..	31·8	27·0	25·0	31·7	69	..	5·7	..	7·1	0	0	26	1	10	9	3	1	1	1	0	5	0
Patna (Aerodrome)	0530	60	997·4	990·6	..	27·3	26·2	25·8	33·2	92	..	6·0	..	6·9	0	0	21	0	1	15	3	0	0	2	0	10	0
	0830	,,	998.4	991·7	..	29·5	26·6	25·4	32 4	79	..	6·3	..	11·7	0	4	26	0	2	14	7	2	0	4	1	1	0
	1130	,,	998·0	991·5	..	31·7	27·2	25·2	32·1	70	..	6·2	..	12·5	0	4	27	0	6	11	6	2	2	3	0	0	1
	1730	,,	995·3	988.7	..	31.6	27·1	25·2	32·1	69	..	5·8	..	10·8	0	0	28	1	4	12	7	1	1	2	0	3	0
	2330	52	998·7	992·9	..	28·2	26·4	25·7	33·0	87	..	4·2	..	6·2	0	0	17	0	2	10	5	0	0	0	0	14	0
Bhagalpur	0530	49	998·7	993·2	..	27·2	26·1	25·6	32·8	91	..	6·7	..	5·4	0	0	20	0	0	8	10	1	0	1	0	11	0
	0830	,,	999·8	994·3	−1·0	29·3	26·9	25·8	33·2	80	−4	6·6	−0·2	7·5	0	1	24	0	1	9	11	4	0	0	0	6	0
	1130	,,	999·4	994·0	..	31·6	27·3	25·5	32·6	70	..	6·8	..	8·9	0	0	29	2	1	10	13	1	1	1	0	2	0
	1730	,,	996·7	991·3	..	31·0	27·1	25·5	32·6	74	..	6·5	..	7·2	0	0	23	0	1	11	8	1	0	1	0	8	1
	2330	,,	999·4	993·9	..	28·1	26·5	25·7	33·0	87	..	5·5	..	5·8	0	0	22	0	1	8	11	1	1	0	0	9	0
Sabaur	0830	37	999 4	995·2	−0·2	29·2	26·8	25·8	33·2	83	0	6.6	−0·1	8·3	0	2	22	0	1	12	6	2	1	2	0	7	0
	1730	,,	996·4	992·2	..	30·5	27·4	26·1	33·2	78	..	6·7	..	5·6	0	0	21	0	2	10	8	0	0	1	0	10	0
Jamui	0830	82	997·9	989 0	..	29·7	26·7	25·7	33·0	79	..	6·1	..	5·6	0	0	29	0	0	17	8	1	1	2	0	2	0
	1730	,,	994·8	985·8	..	30·5	27·0	25·7	33.0	75	..	5·7	..	3·6	0	0	25	0	0	10	10	2	0	3	0	6	0
Dehri	0830	107	998·1	986.2	..	28·8	27·1	26·6	34·8	87	..	6 8	..	3·1	0	0	31	2	4	10	5	4	2	4	0	0	0
	1730	,,	995·4	993·5	..	30·5	27·7	26·7	37·1	81	..	7·4	..	3·3	0	0	29	1	4	10	2	4	4	4	0	2	0
Gaya	0230	116	997·6	984.6	..	27·0	26·1	25·9	33·4	94	..	5·1	..	8·5	0	2	19	0	2	8	3	1	2	4	1	10	0
	0530	,,	997·7	984·6	..	26·5	25·9	25·7	33·0	95	..	5·8	..	8·2	0	0	26	0	1	14	4	1	3	1	2	5	0
	0830	,,	998 8	985 8	−0·2	28·5	26 7	26·1	33·8	86	+11	6·5	+1·3	13 5	0	6	23	0	0	11	7	3	6	1	1	2	0
	1130	,,	998·5	985·6	..	30·2	27·4	26·3	34·2	76	..	6·5	..	13·7	0	6	24	0	2	14	3	2	2	6	1	1	0
	1730	,,	995·7	982·9	.	30·7	27·6	26·3	34·2	78	..	6·4	..	13·9	0	5	25	1	2	12	6	1	2	4	2	1	0
	2330	,,	998·6	985·6	..	27·7	26·7	26 4	34·4	92	..	5·5	..	9·2	0	0	25	0	2	8	5	4	3	2	1	6	0
Uttar Pradesh (East)																											
Kheri	0830	147	998·7	982·3	−0 9	28·1	26·7	26·1	33·8	89	+3	4.5	−1·2	3·7	0	0	25	0	2	21	2	0	0	0	0	6	0
	1730	,,	995.4	979·3	.	31·1	27·5	26·1	33·8	76	..	4·4	..	3·3	0	0	26	0	3	15	4	0	2	2	0	5	0
Bahraich	0830	124	999·1	985·3	+0 3	29·4	26 3	25·5	31·7	80	0	6·3	+1·8	10·4	0	2	28	0	0	27	0	2	0	1	0	1	0
	1730	,,	996 2	982·5	..	31·3	26·9	25·1	31·9	71	..	6·1	..	6·6	0	1	28	0	0	20	1	3	3	2	0	2	0
Nautanwa	0830	99	999 4	988·3	..	28·9	26·4	25·5	32·2	83	..	4·3	..	6·1	0	0	28	4	2	15	7	0	0	0	0	3	0
	1730	,,	996·1	985·3	.	30·8	26·4	25·1	30·7	69	..	3·1	..	6·4	0	0	30	1	1	14	9	4	0	0	1	1	0
Hardoi	0830	142	998·0	982·2	−1·1	29 4	27·0	26·1	33·6	83	−1	5·1	−0·3	7·2	0	0	27	0	1	17	3	3	1	2	0	4	0
	1730	,,	994 7	979·2	..	32·1	27·7	25 9	33·2	72	..	4·8	..	7·8	0	0	28	1	1	13	9	1	1	2	0	3	0
Gonda	0830	110	998 6	986·5	.	29·3	26·7	25 7	32·8	81	−1	5·5	−0·6	..	..	..	..	2	0	23	3	0	1	0	1	1	0
	1730	,,	995 5	983·5	.	31·5	27·2	25·4	32·6	71	..	4·8	..	..	..	..	..	2	2	17	3	0	0	2	1	4	0
Lucknow	0830	111	(m) 999·4	(m) 987·4	+1·1	29·2	26 8	25·8	33·2	83	+4	5·4	−0 4	3.1	0	0	25	0	3	15	1	3	1	2	0	6	0
	1730	..	(l) 996 4	(l) 984·4	..	31·8	27·4	25·6	32.8	71	..	5·4	.	4·4	0	0	28	0	7	9	0	3	0	9	0	3	0
Lucknow (Amausi)	0230	128	996 7	982·5	..	27·4	26·1	25·5	32·6	89	..	3·6	..	7·9	0	2	20	0	4	10	2	2	2	2	0	9	0
	0530	,,	996 9	982·7	.	27·0	25·9	25·4	32·2	91	..	6·4	..	6 9	0	1	23	2	8	7	2	2	2	1	0	7	0
	0830	,,	998 0	983·9	−0·6	29·0	26·6	25·6	32·8	82	+8	6·0	+0·2	14·7	0	8	20	1	2	16	3	2	3	1	0	3	0
	1130	,,	997 8	983·8	..	31·0	27·1	25·5	32·6	74	..	6·5	..	15·2	0	10	18	1	1	14	6	1	2	2	1	3	0
	1730	,,	994·9	980·9	..	31·2	26·9	25·5	31·9	72	..	6·3	..	13·1	0	7	21	2	5	10	4	2	1	2	2	3	0
	2330	,,	997 6	983·4	..	28·1	26·3	25·6	32·6	87	..	5·5	.	10·5	0	2	27	1	7	10	6	3	1	1	0	2	0
Faizabad	0830	102	998·7	987·4	..	8·8	26·5	25 4	32·6	83	..	6·4	..	4·2	0	0	25	0	1	8	13	0	2	0	1	6	0
	1730	,,	995·2	984·2	..	20.9	27 2	25·7	33·0	75	..	5·9	..	3·8	0	0	27	1	3	5	13	2	1	1	1	4	0
Gorakhpur	0830	77	998·4	989·7	−1 0	39·9	26.9	25·6	32·8	75	−8	5·2	+0·4	4·3	0	0	31	1	3	14	4	2	1	2	1	0	3
	1730	,,	995·2	986·5	..	22·0	27·5	25·8	33·0	71	..	4·6	..	5·2	0	0	30	1	3	10	2	1	4	1	2	1	6
Gorakhpur (P.B.O.)	0230	78	997 5	988·7	..	38·0	26·3	25·8	32·8	88	..	4·6	..	5·8	0	1	21	1	7	11	1	0	1	1	0	9	0
	0530	,,	997·6	988·8	..	27·4	26·0	25·5	32·8	90	..	6·0	..	4·3	0	0	24	1	10	10	0	0	2	1	0	7	0
	1130	,,	998·7	990 0	..	21·4	27·5	26·2	34·4	74	..	6·3	..	9·9	0	2	29	1	10	13	4	0	2	1	0	0	0
	2330	,,	998·3	989·6	..	38·7	26·7	26·1	33·8	86	..	4·3	..	4·1	0	0	22	1	7	12	1	0	1	0	0	9	0
Kanpur	0830	126	998·1	984·1	−0·5	28·7	26·5	25·3	32·8	84	+1	6·2	+1·7	6·2	0	0	31	2	1	17	2	2	5	2	0	0	0
	1730	,,	995·8	982·0	..	21·1	27 0	25·3	32·2	73	..	5·9	..	6·5	0	0	31	1	1	10	5	4	6	4	0	0	0
Kanpur (Aerodrome)	0530	126	997·2	982·7	..	37·2	25·8	25·3	32·1	90	..	5·6	..	11·4	0	2	26	0	3	11	2	5	4	1	2	3	0
	0830	,,	998·3	983·9	..	29·2	26·5	25·3	32·3	81	..	5·8	..	17·5	0	8	22	1	1	14	5	3	1	4	1	1	0
	1130	,,	998·0	983·8	..	21·6	27·0	25·0	31·9	69	..	6·5	..	18 9	0	11	19	0	2	14	2	2	4	4	2	1	0
	1730	,,	995·4	981·1	..	31·0	26·5	24·7	31·1	71	..	5·8	..	19·1	0	12	19	0	1	11	8	2	3	4	2	0	0
	2330	,,	997·9	983·5	..	38·3	26·3	25·4	32·6	85	..	4·7	..	12·2	0	2	28	0	2	11	9	2	5	1	0	1	0
Sultanpur	0830	97	998·6	987·8	..	29·0	26·5	26·0	32·4	81	..	6·2	..	4·1	0	0	22	0	1	17	0	2	1	1	0	9	0
	1730	,,	995·2	984·5	..	12·5	27·1	25·2	32·2	71	..	5·6	..	3.0	0	0	24	1	1	17	1	1	0	2	1	7	0

(m) Mean of 18 days. (l) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Azamgarh	0830	78	998·2	989·5	..	28·8	27·1	26·3	34·2	86	..	6·2	..	..	0	0	30	0	1	26	0	0	0	3	0	1	0
	1730	,,	995·1	986·6	..	31·5	27·8	26·3	34·4	75	..	6.4	..	..	0	0	29	0	0	25	0	0	0	4	0	2	0
Fatehpur	0830	114	997·9	985·2	..	28·9	26·7	25·9	33·2	84	+3	5·6	0	7·1	0	0	30	1	4	10	4	1	6	3	1	1	0
	1730	,,	994·9	982·3	..	31·2	27·1	25·5	32·4	74	..	5·6	..	7·1	0	0	30	1	3	11	4	1	5	2	3	1	0
Ballia	0830	64	998·7	991·6	..	28·9	26·8	26·0	33·6	85	..	5·9	..	2·7	0	0	23	2	5	9	5	1	0	0	1	8	0
	1730	,,	996·0	988·9	..	31·2	27·6	26·4	34·0	76	..	6·0	..	2·7	0	0	22	0	4	7	7	0	1	1	2	9	0
Banda	0830	121	997·9	984·5	..	29·2	26·9	25·9	33·6	83	..	4·3	..	4·0	0	0	29	0	6	0	9	0	12	0	2	2	0
	1730	,,	995·6	982·1	..	30·3	26·9	25·6	32·4	77	..	4·9	..	4·0	0	0	27	0	10	0	5	0	7	0	5	4	0
Allahabad (Bamhrauli)	0230	98	996·7	985·7	..	27·5	26·0	25·3	32·2	90	..	6·1	..	4·9	0	0	24	1	4	10	0	1	3	3	2	7	0
	0530	,,	997·1	985·9	..	27·2	25·9	25·3	32·2	90	..	6·5	..	5·0	0	0	21	1	4	10	0	2	1	2	1	10	0
	0830	,,	998·0	986·9	−1·0	29·3	26·5	25·2	32·1	80	+1	6·1	−0·4	8·4	0	0	28	2	1	12	0	4	2	5	2	3	0
	1130	,,	998·0	987·2	..	31·3	26·9	25·2	32·1	71	..	6·8	..	10·0	0	0	30	0	3	12	2	3	3	5	2	1	0
	1730	,,	995·1	984·3	..	31·2	27·0	25·3	32·2	72	..	6·7	..	10·2	0	1	29	1	4	12	2	3	2	5	1	1	0
	2330	,,	997·8	986·9	..	28·1	26·3	25·5	32·6	86	..	6·0	..	5·8	0	0	23	1	2	9	1	1	2	6	1	8	0
Varanasi (Babatpur)	0530	85	997·9	988·2	..	26·7	26·3	26·1	33·8	94	..	6·3	..	8·9	0	0	27	0	4	10	4	3	3	2	1	4	0
	0830	,,	999·1	989·5	−0·7	28·5	26·8	26·0	33·8	85	+2	6·5	+0·1	12·1	0	3	27	0	2	11	4	3	3	5	2	1	0
	1130	,,	999·0	989·4	..	30·5	27·5	25·8	34·2	77	..	6·9	..	14·7	0	9	22	1	3	9	7	1	5	1	4	0	0
	1730	,,	996·1	986·6	..	30·7	27·3	26·0	33·4	77	..	6·2	..	11·7	0	0	31	1	1	11	7	2	1	4	3	0	1
	2330	,,	998·8	989·0	..	28·3	26·9	26·2	34·2	89	..	5·1	..	10·3	0	1	28	0	2	12	4	2	3	5	1	2	0
Varanasi	0830	76	997·9	989·4	−1·0	29·2	27·2	26·4	34·4	86	+6	5·6	−0·7	5·3	0	0	28	0	6	5	5	1	1	9	0	3	1
	1730	,,	995·3	987·0	..	30·8	27·9	26·3	34·8	78	..	5·9	..	3·9	0	0	28	2	7	6	4	0	2	5	2	3	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	998·2	923·9	..	24·1	23·3	22·9	28·0	93	..	6·7	..	1·8	0	0	14	6	1	1	5	0	1	0	0	17	0
	0830	,,	999·1	925·1	+0·1	25·3	23·9	23·3	28·6	92	+8	6·6	+0·4	1·3	0	0	14	4	1	1	3	3	1	0	1	17	0
	1130	,,	998·8	925·2	..	27·3	24·7	23·6	29·1	81	..	6·2	..	3·8	0	0	26	4	1	2	4	6	4	4	1	5	0
	1730	,,	995·3	922·3	..	28·4	25·1	23·7	29·3	76	..	5·1	..	1·8	0	0	18	5	1	1	1	3	3	3	1	13	0
	2330	,,	998·4	924·5	..	25·6	24·3	23·8	29·3	90	..	5·9	..	1·7	0	0	15	8	5	0	2	0	0	0	0	16	0
Roorkee	0830	274	999·1	968·8	+0·3	27·9	25·7	24·7	31·1	84	+6	5·7	+0·6	1·8	0	0	19	0	2	1	14	0	0	0	2	12	0
	1730	,,	995·3	965·5	..	31·8	27·3	25·3	32·6	68	..	4·8	..	1·7	0	0	18	0	1	2	9	0	0	0	6	13	0
Najibabad	0830	270	998·8	969·1	..	28·2	25·9	24·7	31·9	86	..	5·5	..	(a) 4·6	0	0	24	1	1	2	18	0	0	0	2	6	0
	1730	,,	995·8	966·6	..	32·2	27·9	26·0	34·2	72	..	4·2	..	(a) 3·1	0	0	22	0	2	0	16	0	0	0	4	8	0
Meerut	0830	222	998·7	974·2	+0·2	29·0	26·5	25·4	32·4	81	+6	1·9	−3·2	2·9	0	0	15	0	1	9	0	0	0	3	2	16	0
Bareilly	0830	173	998·1	979·0	−0·6	29·9	26·6	25·3	32·2	78	−4	6·1	+0·3	5·8	0	0	28	0	1	16	6	1	0	4	0	3	0
	1730	,,	994·6	975·7	..	32·4	27·3	25·1	32·2	67	..	5·9	..	3·3	0	0	24	0	0	16	2	1	2	3	0	7	0
Bareilly (P.B.O.)	0230	172	996·7	977·7	..	28·8	26·3	25·4	32·1	82		4·1	..	6·4	0	0	26	0	1	16	7	0	1	1	0	5	0
	0530	,,	996·9	977·8	..	27·9	25·8	25·0	31·5	85	..	5·9	..	5·2	0	0	27	0	3	17	3	1	0	3	0	4	0
	1130	,,	997·9	979·0	..	31·3	27·1	25·9	32·6	72	.	5·8	..	8·5	0	0	30	0	0	11	11	1	3	3	1	1	0
	2330	,,	997·4	978·4	..	29·7	26·7	25·7	32·6	80	.	3·9	..	5·6	0	0	27	0	0	18	5	1	1	2	0	4	0
Aligarh	0830	187	998·0	977·3	..	29·4	27·0	25·9	33·6	82	+4	6·4	+1·6	3·8	0	0	29	0	0	23	0	1	0	5	0	2	0
	1730	,,	994·6	974·1	..	32·8	28·2	26·4	34·4	71	..	6·7	..	2·7	0	0	25	0	0	16	0	5	0	4	0	6	0
Mainpuri	0830	157	998·3	980·9	−0·2	29·3	26·8	25·8	33·0	82	+6	3·6	−1·7	2·6	0	0	27	0	9	9	5	1	3	0	0	4	0
	1730	,,	994·7	977·5	..	33·3	27·6	25·2	32·2	66	..	3·4	..	2·6	0	0	27	0	7	10	4	0	4	1	1	4	0
Agra	0830	169	998·0	979·4	−0·3	29·8	26·6	25·2	32·1	78	+4	5·0	−0·3	1·5	0	0	8	0	2	3	1	0	1	0	1	23	0
	1730	,,	994·4	976·0	..	32·1	27·1	25·0	31·7	68	..	5·6	..	5·8	0	0	23	0	9	5	3	1	4	1	0	8	0
Agra (Aerodrome)	0530	169	996·7	977·7	..	27·7	26·3	25·8	33·2	88	..	6·3	..	9·0	0	1	25	2	0	10	3	2	5	4	0	5	0
	0830	,,	997·8	978·9	..	29·5	26·8	25·7	33·0	82	..	6·2	..	13·8	0	5	24	1	3	8	7	0	2	6	2	2	0
	1130	,,	997·7	978·9	..	31·9	27·6	25·6	32·8	71	..	6·8	..	14·9	0	9	21	1	2	10	3	4	0	7	3	1	0
	1730	,,	994·8	976·0	.	31·9	27·3	25·2	32·6	71	..	6·2	..	13·9	0	7	24	2	1	10	6	3	4	3	2	0	0
	2330	,,	997·2	978·3	..	28·8	26·4	25·6	32·4	83	..	4·7	..	10·0	0	2	23	0	0	5	4	3	8	3	2	6	0
Orai	0830	141	998·9	983·3	..	29·0	26·7	25·8	33·4	83	..	5·2	..	3·6	0	0	31	4	1	6	2	1	6	3	8	0	0
	1730	,,	995·2	979·8	..	31·3	27·5	26·3	33·6	75		5·6	..	4·4	0	0	30	2	7	5	2	0	9	0	5	1	0
Jhansi	0830	251	997·9	970·1	−1·3	27·7	25·8	24·7	31·7	85	+9	6·7	+2·0	1·8	0	0	18	1	2	4	1	0	0	10	0	13	0
	1730	,,	994·9	967·5	..	30·5	26·4	24·6	31·1	72	..	6·6	..	2·1	0	0	19	2	2	2	1	0	1	9	2	12	0
Punjab (India) (Including Delhi)																											
Pathankot	0830	312	998·1	963·8	−0·4	28·4	25·5	24·2	30·4	79	+4	6·2	+0·8	3·8	0	0	19	1	3	6	4	3	2	0	0	12	0
	1130	,,	998·2	964·1	..	30·4	26·0	24·1	30·0	70	..	6·1	..	7·8	0	0	28	0	3	3	7	3	6	4	2	3	0
	1730	,,	994·6	960·9	..	32·1	26·7	24·3	30·5	65	..	5·4	..	5·7	0	0	28	2	2	2	4	3	6	4	5	3	0
Amritsar (Rajasansi)	0530	234	996·4	970·5	..	26·9	25·6	25·1	31·9	90	..	5·0	..	8·6	0	3	19	0	3	11	5	2	1	0	0	9	0
	0830	,,	997·7	971·9	−0·4	29·6	26·4	24·9	31·5	77	+1	4·6	+0·4	10·3	0	3	26	0	0	8	11	6	3	1	0	2	0
	1130	,,	997·7	972·2	..	32·0	27·1	25·1	31·9	69	..	5·3	..	9·9	0	4	22	0	1	7	7	6	2	2	1	5	0
	1730	,,	994·2	968·8	..	33·4	27·4	4·8	31·3	63	..	3·8	..	10·2	0	4	23	1	1	6	6	6	2	3	2	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level standard	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Var
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(*Contd.*)																											
Adampur (Aerodrome). (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Ludhiana	0830	247	998·4	971.2	+0·4	29·9	26·4	25·1	31.9	76	+4	5·2	+1·3	5·6	0	0	27	0	0	5	14	5	1	1	1	4	0
	1730	,,	994·0	967·5	..	32·7	27·2	24.7	31·1	63	..	5·6	..	3.8	0	1	24	1	6	6	6	1	0	1	3	6	1
Ferozepur	0830	200	996.9	974·8	..	29.6	26·6	25.1	32·4	77	..	3·5	..	1·0	0	0	10	0	1	0	3	3	1	0	2	21	0
	1730	,,	994·2	972·4	..	33·0	27·5	25.2	32·1	65	..	3·4	..	2·0	0	0	21	2	6	1	3	0	2	0	7	10	0
Halwara (Aerodrome).	0830	242	998·3	971·8	..	30·2	27·1	25.8	33·0	79	..	5·3	..	13·9	0	7	22	0	0	2	17	3	1	4	2	2	0
	1730	,,	995·9	969.7	..	33·2	28·0	25.7	33·6	67	..	4·9	..	14·4	0	4	25	3	3	4	12	1	0	4	2	2	0
Chandigarh	0830	347	997·7	959·7	−0·5	28·2	25·7	24.4	30·5	77	0	4·7	+0·3	1·8	0	0	18	0	0	0	6	0	0	0	12	13	0
	1730	,,	994·6	957.0	..	31·4	26 7	24·5	31·1	69	..	4·1	..	1.7	0	0	18	0	0	1	5	0	2	0	10	13	0
Ambala	0830	272	998·2	968·3	0	28 9	26 1	24·8	31·3	79	+3	2·0	−2.8	1·8	0	0	17	0	6	0	9	0	0	0	2	14	0
	1730	,,	994·5	965.1	..	33·3	27·4	24·9	31·5	63	..	0·9	..	1·6	0	0	16	0	5	0	8	0	0	0	3	15	0
Ambala (P.B.O.)	0230	278	996·4	965·7	..	28·5	26.0	25·1	31·7	82	..	3·3	..	(j) 4·9	0	0	16	0	4	3	16	2	1	0	0	5	0
	0530	,,	996·5	965·8	..	27.8	25·5	24.6	31·7	84	..	5·5	..	(j) 5·3	0	0	14	1	2	3	15	0	1	0	0	9	0
	1130	,,	9[illegible]7·9	967·5	..	30·9	26·3	24·7	31.7	71	..	5.8	..	(i) 8·5	0	0	21	2	2	2	18	1	1	2	2	1	0
	2330	,,	9[illegible]6.8	966·3	..	29·1	26·5	25·4	32·8	80	..	3.1	..	(i) 3.8	0	0	14	0	2	7	10	0	1	1	0	10	0
Ambala Aerodrome	0530	274	[illegible]6·8	966.3	..	26·8	25.4	24·7	31·3	88	..	6.1	..	10.0	0	4	16	1	1	11	3	3	0	1	0	11	0
	0830	,,	9[illegible]8·0	967·9	..	28.3	25.9	24·9	31·3	82	..	6 0	..	14·3	0	6	20	0	1	13	7	0	0	2	3	5	0
	1130	,,	9[illegible]7·9	967.8	..	30·5	26·4	25.1	31·1	74		6 6	..	16·3	0	8	22	1	0	15	7	0	1	4	2	1	0
	1730	,,	994·5	964·7	..	32·5	27·1	24.9	31.1	65	..	5·7	..	11·4	0	6	21	0	1	9	7	1	1	1	7	4	0
	2330	,,	996·9	966 6	..	28·3	26·3	25·5	32·4	86	..	3 4	..	4·4	0	2	7	0	2	4	3	0	0	0	0	22	0
Patiala	0830	251	998.5	970·9	..	29·5	26·0	24.5	30.7	75	..	4.7	..	7 6	0	0	23	0	0	0	20	0	1	0	2	8	0
	1730	,,	994.6	967·4	..	33.3	27·1	24.4	30.7	60	..	5 7	..	5.4	0	0	27	0	1	1	17	0	0	0	8	4	0
Bhatinda	0830	211	997.4	974·2	..	31·1	28·5	27.3	36.5	81	..	3.5	..	7·1	0	1	28	0	0	0	22	1	4	1	1	2	0
	1730	,,	993·7	970·9	..	34.4	30·1	28·6	38.9	73	..	2·8	..	4·5	0	0	27	2	1	3	13	0	3	0	5	4	0
Karnal	0830	249	998·1	970·7	..	28·9	25·7	24.2	30·2	76	..	3·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	994.5	967·5	..	32·5	27·2	25·0	31·9	66	..	2.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	996·2	971·8	..	28·3	26·3	25·5	32·4	85	..	2·8	..	6.2	0	0	28	0	1	9	6	3	6	2	1	3	0
	0830	,,	997.7	973·4	−0.1	30·2	27 2	25·7	33.6	78	+11	4·3	+1·5	7·3	0	0	31	0	2	6	11	5	3	3	1	0	0
	1130	,,	997.1	973·2	..	34·1	28·1	25.4	32.8	62	..	4.6	..	8.6	0	0	31	0	2	5	10	3	6	3	2	0	0
	1730	,,	994.1	970·3	..	35·0	28·1	25·1	32·1	59	..	4·4	..	6.6	0	0	31	0	2	10	7	5	3	4	0	0	0
	2330	,,	996.6	972·3	..	30·2	26·8	25·5	32·4	77	..	2·8	..	6.0	0	0	24	0	2	6	7	2	4	3	0	7	0
New Delhi (Safdarjung)	0230	216	996.3	972·4	..	28·7	26·2	25.1	31·9	81	..	4·6	..	7·2	0	1	25	1	0	11	5	0	4	3	2	5	0
	0530	,,	996.5	972.7	..	28·0	25·7	24.7	31·1	83	..	5.6	..	7·1	0	0	26	2	0	11	7	0	0	6	0	5	0
	0830	,,	998·1	974·3	−0·3	29·9	26·5	25.0	31·7	76	+2	5·6	+0.1	13·5	0	6	25	0	4	8	10	0	1	6	2	0	0
	1130	,,	997.7	974·1	..	32.6	27 0	24.6	30·9	64	..	6.1	..	13·1	0	4	23	0	1	10	10	0	0	0	6	4	0
	1730	,,	994.3	970·8	..	33.6	27·1	24.4	30·5	60	..	5.9	..	10·4	0	2	28	0	5	9	7	0	3	2	4	1	0
	2330	,,	997.0	973.2	..	29.7	26.6	25.4	32·4	78	..	4·4	..	5·8	0	0	25	0	3	9	5	1	6	1	0	6	0
Palam Aerodrome	0230	233	996·4	970·6	..	28·5	26·3	25·5	32·4	84	..	4·3	..	9.9	0	2	26	2	5	11	2	3	2	2	1	3	0
	0530	,,	996·6	970·7	..	27·6	25·9	25.2	31·7	87	..	5.7	..	11.6	0	1	30	1	4	18	0	1	5	2	0	0	0
	0830	,,	998·1	972·4	..	29·5	26·6	25.4	32.4	80	..	5.6	..	15·4	0	8	23	2	4	13	4	0	1	6	1	0	0
	1130	,,	997 6	972·2	..	32·0	27·5	25.7	32.6	69	..	6.1	..	18·4	0	12	19	1	4	13	4	1	1	5	2	0	0
	1430	,,	995·7	970 4	..	34.0	27·9	25·5	32.2	63	..	6·2	..	17.3	0	7	24	2	4	15	4	1	1	2	2	0	0
	1730	,,	994 4	969·1	..	33·2	27·6	25.2	32.2	62	..	5.9	..	15 0	0	4	27	3	2	15	4	1	2	4	0	0	0
	2030	,,	995·9	970 3	..	30·4	27.1	25.8	33.0	77	..	5·6	..	10.6	0	1	28	1	4	14	2	4	2	0	2	2	0
	2330	,,	997·1	971·4	..	29·2	26·9	25·9	33.4	83	..	4·6	..	10.2	0	1	28	1	3	13	2	5	2	2	1	2	0
Himachal Pradesh																											
Mandi	0830	761	998·4	916·1	−0.5	24·8	23.7	22·9	28.6	91	+3	(j) 6.6	+0.4	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	994·2	913·4	..	28·6	25·6	24.2	30.5	77	..	(d) 6.4	..	0.4	0	0	4	0	0	0	0	1	1	1	1	27	0
Bilaspur	0830	493	998·9	945·2	..	26·9	24.9	24·0	29·8	85	..	6·1	..	0.1	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	,,	995·0	942·0	..	30·1	26·0	24.4	30.4	72	..	5·0	..	0.1	0	0	1	0	0	0	0	1	0	0	0	30	0
Jammu and Kashmir																											
Misgar (R)	0830	3106																									
(R)	1730	,,																									
Gilgit (R)	0830	1491																									
(R)	1730	,,																									

(i) Mean of 22 days.

(ii) Mean of 21 days.

(R) Register not received.

(d) Mean of 27 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—JULY, 1961 (ASADHA 10—SRAVANA 9, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Skardu . (R)	0830	2258																									
(R)	1730	,,																									
Leh . .	0530	3514	3054·8	663·3	..	13·4	8·6	5·2	8·8	57	..	3·8	..	2·3	0	0	18	4	13	0	0	1	0	0	0	13	0
	0830	,,	3057·9	664·0	−0·3	17·8	10·4	4·4	8·4	42	−11	3·8	+0·1	2·9	0	0	13	0	1	0	0	3	9	0	0	18	0
	1730	,,	3000·3	660·4	..	23·9	13·5	6·3	9·5	34	..	3·9	..	2·6	0	0	12	0	1	0	0	3	8	0	0	19	0
Srinagar	0830	1587	1419·8	834·1	+0·2	23·3	20·1	18·6	21·0	76	−3	5·2	+1·8	2.5	0	0	20	3	5	1	5	1	1	1	3	11	0
	1130	,,	1414·8	833·8	..	27·2	21·3	18·7	21·8	60	..	4·5	..	2·7	0	0	24	3	3	1	5	2	0	4	6	7	0
	1730	,,	1384·3	831·0	..	29·0	21·4	17·J	21·0	53	..	4·5	..	2·6	0	0	22	3	2	0	3	1	0	6	7	9	0
Srinagar (Aerodrome)	0530	1666	1404·2	825·3	..	20·0	17·9	16·6	19·6	81	..	5·0	..	4·7	0	0	21	1	1	0	2	5	5	4	3	10	0
	0830	,,	1410·9	826·1	..	23·0	19·5	17·6	20·4	73	..	5·2	..	6·3	0	0	26	0	3	7	4	3	1	3	5	5	0
	1130	,,	1407·3	826·1	..	26·2	20·2	17·3	19·6	59	..	5·0	..	7·9	0	1	27	6	5	1	5	4	0	1	6	3	0
	1730	,,	1378·8	823·6	..	28·0	20·1	16·0	17·9	50	..	4·7	..	7·3	0	0	26	4	2	0	4	5	1	2	8	5	0
	2330	,,	1399·8	825·1	..	22·7	19.1	17·1	19·6	72	..	3·2	..	3.7	0	0	12	1	1	4	2	2	0	1	1	19	0
Gulmarg . .	0830	2655	3080·4	736·0	−0.1	17·8	15·2	13 6	15·8	78	+4	5·2	+1·4	4·1	0	0	21	0	8	8	1	1	2	1	0	10	0
	1730	,,	3067·3	734·6	..	19·6	16·5	14·7	17·0	75	..	5·7	..	4·8	0	0	22	2	7	4	2	0	1	3	3	9	0
Jammu	0830	..	..	..	..	29·7	26·1	24·5	30·9	76	..	5·1	..	4.8	0	0	28	4	5	5	8	4	0	1	1	3	0
Jammu (Aerodrome)	0530	292	996·5	961·1	..	27·5	25·3	24·3	30·4	83	..	5·6	..	5·7	0	0	18	0	9	2	5	2	0	0	0	13	0
	0830	,,	997·9	965·7	..	28·9	25·8	24·5	30·7	78	..	5·9	..	8·3	0	1	27	2	7	5	9	1	3	1	0	3	0
	1130	,,	997·7	965·7	..	31·4	26·7	24·6	30·9	70	..	5·5	..	10·5	0	3	24	0	1	3	12	3	2	4	2	4	0
	1730	,,	994·2	962·6	..	33·9	26·9	24·0	29·7	59	..	5·3	..	10·8	0	2	27	1	0	3	10	2	4	7	2	2	0
	2330	,,	996.3	964·1	..	29·6	25·9	24·2	30·0	74	..	4·1	..	7·5	0	4	10	2	3	1	7	1	0	0	0	17	0
Rajasthan (West) Ganganagar	0530	177	995·6	976·1	..	29·2	25·8	24·3	30·4	75	..	3·8	..	5·1	0	0	28	0	9	4	2	4	3	1	2	3	0
	0830	,,	996·6	977·2	−0·6	31·4	26·6	24·5	30·9	68	+4	2·2	0	5·9	0	0	27	0	3	7	4	2	9	2	0	4	0
	1130	,,	996·6	977·4	..	34·8	27·3	23·9	29·8	53	..	5·8	..	8·5	0	0	27	1	3	2	4	3	10	1	3	4	0
	1730	,,	993 0	974 0	..	35·6	27·1	23·4	28·9	51	..	4·9	..	6·3	0	0	27	1	6	5	1	1	10	3	0	4	0
	2330	,,	995·8	976·3	..	31·4	26·5	24·3	30.7	67	..	2·7	..	5·4	0	0	26	1	2	3	3	1	14	1	1	5	0
Churu . .	0830	291	997·6	965·7	..	30·3	27·2	26·1	33·6	78	..	4·4	..	13·7	0	8	19	1	1	9	3	0	2	10	1	4	0
	1730	,,	994 3	962·8	..	34·0	28·2	25·9	33·4	65	..	5·6	..	15·3	0	5	26	3	4	9	1	4	4	5	1	0	0
Bikaner . .	0830	224	997·1	972·5	−0·6	30·6	26·2	24.0	29·8	69	+3	1·3	−1·6	7·9	0	0	28	0	1	3	7	0	13	2	2	3	0
	1730	,,	993 1	969·3	..	35 9	26·7	22·5	27·3	48	..	2·3	..	8·1	0	0	30	2	6	4	2	1	12	1	2	1	0
Bikaner (P.B.O.)	0530	224	995·8	971·1	..	28·5	26·4	25·5	32·6	84	..	4·3	..	4·5	0	0	20	0	2	0	2	2	13	1	0	11	0
	1130	,,	996·9	972·6	..	34 7	28·0	25·3	32·2	59	..	4·0	..	5·3	0	0	26	1	0	1	5	7	8	2	1	5	1
	2330	,,	996·0	971·4	..	30·8	27·0	25·4	32·4	74	..	3·9	..	5·7	0	0	24	1	0	0	3	6	13	0	1	7	0
Nagaur . .	0830	298	996·0	963·5	..	30·6	26·6	25·0	31·5	73	..	5.0	..	10.6	0	2	29	1	2	3	3	8	11	3	0	0	0
	1730	,,	992·6	960·5	..	34·5	27·0	23·7	29·5	55	..	5·5	..	13·0	0	5	26	1	4	8	1	6	8	2	1	0	0
Phalodi .	0830	234	997·6	971·8	..	29 3	26·7	25·7	32·8	81	..	4·0	..	18.7	0	13	17	1	0	2	3	5	14	5	0	1	0
	1730	,,	994·7	969·3	..	34·6	28·0	25·7	32·4	61	..	5·3	..	17·6	0	11	19	1	1	4	4	4	11	3	2	1	0
Jaisalmer . .	0830	242	996·3	969·7	..	29 2	25·8	24·4	30·4	74	..	5·1	..	16·1	0	20	9	3	2	1	1	10	11	1	0	2	0
	1730	,,	993 0	967·0	..	34·8	26·7	23 1	28·3	53	..	4 9	..	18·6	0	10	20	4	2	0	4	12	7	1	0	1	0
Jodhpur	0230	224	996·5	971·7	..	28 6	25·7	24·5	30·7	79	..	4·4	..	10·4	0	3	19	0	1	0	1	4	15	1	0	9	0
	0530	,,	996·6	971·7	..	27·3	25·5	24 7	31·1	85	..	5·3	..	9·3	0	2	24	0	1	2	0	3	16	3	1	5	0
	0830	,,	998·0	973·2	+0·4	28·7	26·1	25 0	31 7	81	+11	6 1	+0·4	11·6	0	4	23	0	3	2	0	3	13	5	1	4	0
	1130	,,	997 8	973·3	..	32·1	26·4	24·2	30·1	64	..	6·1	..	14·2	0	8	18	0	1	4	3	0	15	3	0	5	0
	1730	,,	994·1	969·8	..	34·5	26 9	23·6	29·1	54	..	5·9	..	17·8	0	8	21	0	1	4	4	3	16	1	0	2	0
	2330	,,	997·3	972·6	..	29·7	26·0	24·4	30·5	73	..	4·8	..	12·5	0	5	22	1	1	1	1	7	14	2	0	4	0
Barmer	0530	194	996·0	974·3	..	27·0	25·3	24·5	30·7	87	..	6·1	..	4·2	0	0	23	0	0	0	3	3	15	1	1	8	0
	0830	,,	997·3	975·7	−1·2	27·6	25 6	24·6	32·8	83	+7	6·9	+1·5	4·1	0	0	21	0	0	0	3	6	11	0	1	10	0
	1130	,,	997·0	975·6	..	31·4	26·3	24·1	30·0	66	..	5·9	..	4·9	0	0	23	0	0	1	5	3	13	1	0	8	0
	1730	,,	993·7	972·6	..	33·8	26·6	23·5	28·9	55	..	5·8	..	8·8	0	2	27	0	1	1	4	4	14	2	3	2	0
	2330	,,	996·6	975·1	..	29·3	25·9	24·5	30·5	76	..	5·0	..	6·6	0	0	28	0	0	0	0	8	14		3	3	0
Munabao . (R)	0830	80						..	..	..																	
(R)	1730	,,						..	..	..																	
Rajasthan (East) Pilani . .	0830	301	997·9	965·1	..	30·6	25·8	23·6	29·3	66	..	2·5	..	11·7	0	0	29	0	0	9	6	0	2	8	4	2	0
	1730	,,	994·0	961·7	..	34·5	26·0	21·9	26·7	50	..	3·0	..	11·3	0	0	30	2	1	11	4	1	3	8	0	1	0
Sikar . .	0830	433	998.0	951·0	..	29·7	26·4	25·7	31·9	77	..	6·1	..	2·8	0	0	29	0	0	6	4	1	7	10	1	2	0
	1730	,,	994·1	947·7	..	32·5	26·9	23·8	30·7	67	..	5·4	..	2·9	0	0	30	0	5	1	9	2	4	9	0	1	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)— *(Contd.)*																											
Alwar	0830	271	996·7	966·9	..	29·7	26·7	25·6	32·8	79	..	6·0	..	2·3	0	0	25	2	4	5	4	1	0	7	2	6	0
	1730	,,	994·2	964·7	..	33·2	27·6	25·4	32·2	66	..	6·1	..	3·5	0	0	21	0	6	6	4	2	1	1	1	10	0
Jaipur (Sanganer)	0230	390	996·2	953·3	..	26·7	25·5	24·4	31·5	91	..	4·9	..	5·6	0	0	24	2	1	7	1	1	1	8	3	7	0
	0530	,,	996·5	953·6	..	26·5	25·5	24·7	31·3	99	..	5·7	..	5·4	0	0	23	1	2	7	1	0	1	7	4	8	0
	0830	,,	997·6	955·0	−1·5	28·4	25·9	24·9	31·5	82	+8	6·3	+1·1	13·0	0	4	26	0	1	11	3	1	0	9	5	1	0
	1130	,,	997·3	954·9	..	30·8	26·7	25·1	31·5	68	..	6·9	..	14·5	0	6	25	0	1	7	5	2	3	8	5	0	0
	1730	,,	994·6	952·3	..	30·6	26·6	24·9	31·5	74	..	7·0	..	12·5	0	3	26	1	2	7	3	3	4	6	3	2	0
	2330	,,	997·1	954·1	..	27·7	25·8	25·0	31·5	85	..	5·5	..	6·7	0	0	23	0	0	6	1	3	5	7	1	8	0
Dholpur	0830	176	997·3	977·9	..	29·3	26·8	25·7	33.0	82	..	6·5	..	5.9	0	0	26	0	4	7	3	0	3	9	0	5	0
	1730	,,	994·1	974·8	..	31·8	27·1	25·1	31·9	70	..	6·9	..	6·7	0	0	28	0	6	5	3	0	7	5	2	3	0
Ajmer	0830	486	997·9	944·9	−1·4	27.4	24·5	23·3	28·4	79	+5	6.3	+1·5	11·6	0	3	27	1	2	4	2	2	9	9	1	1	0
	1730	,,	994·1	941·9	..	31·2	25·1	22 6	26·9	62	..	6·8	..	9·5	0	0	28	0	2	5	5	2	7	7	0	3	0
Tonk	0830	272	996·8	967·0	..	28·9	26·1	25·0	31·3	80	..	5·4	..	6.8	0	0	30	0	5	3	1	1	6	9	5	1	0
	1730	,,	993·7	964·0	..	31·6	26·8	24·8	31·3	70	..	6.1	..	8.3	0	2	25	0	3	6	4	3	4	3	4	4	0
Kota	0530	257	996·8	968·4	..	27·3	25·1	24·1	30·0	83	..	6·5	.	6·1	0	1	23	1	1	1	1	0	6	14	0	7	0
	0830	,,	997·8	969·5	−1·3	28·9	25·6	24·2	30·2	76	+6	6·4	+1·1	5·5	0	0	23	0	2	0	4	0	3	10	4	8	0
	1130	,,	998·1	969·9	..	30·8	26·2	24·3	30·2	69	..	6·6	..	8·9	0	4	21	0	4	1	3	0	5	9	3	6	0
	1730	,,	995·4	967·4	..	31·2	26·7	24·3	31·3	68	..	7·2	..	3·1	0	0	19	0	2	1	1	2	7	3	3	12	0
	2330	,,	997·7	969·3	..	23·6	25·6	24·3	30·4	78	..	7·9	..	7·6	0	2	21	0	1	0	2	1	8	10	1	8	0
Erinpura (Jawai Dam)	0830	295	998·7	966·0	..	26·8	25·1	24·5	30·2	85	..	6·9	..	7·8	0	1	29	0	1	0	7	9	10	2	1	1	0
	1730	,,	995·7	963·5	..	30·1	26·0	24·1	30·4	72	..	6·9	..	8·8	0	0	28	0	0	2	4	9	11	2	0	3	0
Chambal (Rawat Bhatta Dam)	0830	351	998·7	960·1	..	27·1	24·8	23·6	29·5	80	..	6·1	..	5·6	0	0	31	0	3	1	2	1	6	14	4	0	0
	1730	,,	995·7	957·5	..	30·0	25·4	23·3	28·6	68	..	6·8	..	6·7	0	0	29	0	4	2	3	4	8	4	4	2	0
Udaipur	0230	582	997·5	934·0	..	24·9	23·3	22·7	27·1	87	..	6·9	..	2·1	0	0	11	0	0	0	1	5	4	1	0	20	0
	0530	,,	997·6	934·0	..	24·4	23·0	22·4	26·9	89	..	7·3	..	2·4	0	0	10	0	0	0	0	1	8	1	0	21	0
	0830	,,	998·7	935·3	−1·4	25·7	23·6	22·7	27·4	84	+8	7 0	+1 6	1·8	0	0	11	0	0	0	0	1	6	4	0	20	0
	1130	,,	998·6	935·6	..	27·9	24·4	22·9	27·7	75	..	7·1	..	4·5	0	0	26	0	1	5	5	8	5	2	0	5	0
	1730	,,	995·8	933·1	..	28·5	24·5	22·7	27·4	72	..	7·3	..	4·2	0	0	23	1	2	2	1	6	8	2	1	8	0
	2330	,,	998.9	935·4	..	25·6	23·8	23·1	27·9	86	..	7·1	..	2·3	0	0	13	0	0	0	0	6	5	2	0	18	0
Jhalawar	0830	321	998·5	963·1	−1·2	27·1	24·8	23·9	29·5	82	+1	5·3	+1·0	4·0	0	0	30	1	4	0	1	2	9	12	1	1	0
	1730	,,	995·3	960·5	..	30·8	25·9	23·8	29·1	69	..	5.2	..	4·6	0	0	26	0	2	3	1	1	6	11	2	5	0
Madhya Pradesh (West)																											
Gwalior	0230	207	996·2	973·3	..	27·6	25·5	24·7	30·9	84	..	6·4	..	10.2	0	4	22	1	2	4	2	1	9	5	2	5	0
	0530	,,	996·4	973·4	..	27·2	25·4	24·6	31·1	87	..	6 6	..	8 0	0	4	19	0	0	5	2	2	4	8	2	8	0
	0830	,,	997·6	974·7	−0·6	28·9	26·1	24·9	31·6	80	+3	6·6	+0 8	12·4	0	6	25	2	2	6	1	3	1	12	4	0	0
	1130	,,	997·6	974·9	..	31·1	26·8	24·9	31·8	71	..	7·0	..	10·4	0	3	24	1	1	4	7	0	3	9	2	4	0
	1730	,,	994·6	972·0	..	31·0	26·6	24 9	30·4	71	..	6·5	..	10·1	0	3	25	0	3	5	4	1	6	7	2	3	0
	2330	,,	997·3	974·4	..	28·3	26·0	25·0	31·7	83	..	6·1	..	7·5	0	3	19	0	1	4	1	4	8	3	1	9	0
Sheopur	0830	235	998·3	972·3	−0·9	28·2	26·4	25·7	33·0	87	+7	7·2	+0·4	8·3	0	1	30	1	3	4	3	8	4	3	2	0	3
	1730	,,	994·9	969·2	..	30·3	27·4	26·3	34·2	80	..	7·0	..	8·2	0	1	29	4	2	3	3	6	4	3	4	1	1
Shivpuri	0830	464	998·2	947·3	..	26·0	24·4	23·8	29·1	88	..	6·8	..	2·3	0	0	31	3	2	3	1	3	5	14	0	0	0
	1730	,,	995·8	945·2	..	28 2	24·8	23·4	28·8	77	..	7·0	..	5·8	0	0	31	4	4	3	1	2	9	8	0	0	0
Nowgong	0830	229	998·1	972·8	−1·1	27·7	25·8	25·0	31·7	85	+6	6·2	..	8·2	0	1	29	2	5	4	1	3	13	2	0	1	0
	1730	,,	995·1	970·1	..	30·1	26·4	24·9	31·3	76	..	6·9	0	7·5	0	1	27	1	3	3	3	2	13	2	0	3	1
Guna	0530	478	997·6	944·9	..	24·4	23·6	23·2	28·4	93	..	6·7	..	11·9	0	6	24	1	1	4	2	3	6	11	2	1	0
	0830	,,	998·7	946·2	−1·1	25·8	24·1	23·4	28·6	87	+4	7·2	+1·4	9·7	0	3	26	1	0	4	2	1	4	15	2	2	0
	1130	,,	998·5	946·4	..	28·1	25·0	23·7	29·3	78	..	6 8	..	17·4	0	13	18	1	1	5	1	4	3	11	5	0	0
	1730	,,	995·7	943·7	..	28·0	24·8	23·5	28·9	78	..	7·2	..	13·0	0	5	25	4	0	4	0	2	8	7	5	1	0
	2330	,,	998·5	946·0	..	25·6	24·1	23·4	28·8	88	..	6·3	..	8·3	0	1	26	1	0	3	1	8	8	4	2	4	0
Nimuch	0830	496	999·4	944·9	−1·1	25·4	23·7	23·0	27·9	87	+7	7·2	+1·4	15·3	0	10	20	0	2	1	0	0	13	13	1	1	0
	1730	,,	996·4	942·6	..	28·5	24·6	23·0	27·9	73	..	7.4	..	15·4	0	11	19	0	2	2	1	1	12	12	0	1	0
Rajgarh	0830	382	998·5	956·3	..	26·1	24·3	23·4	28·9	86	..	6·5	..	5·6	0	0	29	10	0	0	0	1	1	16	1	2	0
	1730	,,	995·6	954 0	..	29·3	25·7	24·0	30·0	75	..	6·4	..	6·0	0	0	29	9	0	1	0	2	0	17	0	2	0
Sagar	0830	551	998·6	938·2	−1·1	24·9	23·8	23·2	28·1	91	+1	7·2	+1·0	7·9	0	1	29	0	1	3	1	0	2	12	11	1	0
	1730	,,	995·9	935·8	..	26·7	24·2	23·4	28·3	82	..	7·1	..	3·2	0	0	27	0	2	4	1	0	2	11	7	4	0
Ratlam	0830	486	999·7	946·0	−1·7	24·5	23·6	23·3	28·6	93	+2	7·6	+0·1	7·6	0	0	26	0	0	0	0	2	11	13	0	5	0
	1730	,,	996·9	944·0	..	28·1	25·8	25·0	31·5	84	..	7·5	..	9·4	0	0	29	0	1	1	0	1	14	11	1	2	0
Bhopal (Bafragarh)	0230	523	998.1	940·6	..	24·2	23·2	22·7	27·7	92	..	6·5	..	13·2	0	7	23	1	1	0	1	3	7	14	3	1	0
	0530	,,	998·1	940·6	..	23·8	22·9	22·5	27·2	92	..	7·5	..	13·2	0	7	22	1	1	0	1	1	6	15	4	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of pressure standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Bhopal (Bairagarh)	0830	523	999·5	942·1	−1·2	25·1	23·5	22·9	27·9	87	+1	7·8	+1·2	15·5	0	8	22	0	2	1	1	1	5	16	4	1	0
	1130	"	999·2	942·2	..	27·5	24·2	22·9	27·7	77	..	7·6	..	16·6	0	12	19	1	0	1	3	0	3	16	6	0	1
	1730	"	996·3	939·5	..	27·7	24·5	22·9	27·9	77	.	7·5	..	14·5	0	10	20	0	1	1	3	3	4	12	6	1	0
	2330	"	999·3	941·9	..	24·9	23·6	23·1	28·2	89	..	7·0	..	11·5	0	5	22	0	0	0	1	3	8	12	3	4	0
Ujjain	0830	—	—	—	—	25·3	23·7	23·1	28·1	87	..	6·3	..	19·9	0	13	17	0	1	0	0	2	2	17	8	1	0
Hoshangabad	0830	302	999·6	966·0	−1·7	25·4	24·5	24·0	29·8	91	+5	7·5	+0·6	6·7	0	0	31	1	2	0	0	2	17	6	3	0	0
	1730	"	996·4	963·2	..	28·5	25·9	24·8	31·3	80	..	6·9	..	5·9	0	0	29	2	1	0	0	3	12	6	5	2	0
Indore	0530	567	998·5	936·2	..	23·2	22·6	22·3	27·0	95	..	6·9	..	15·4	0	11	17	0	0	0	0	1	20	6	1	3	0
	0830	"	999·9	937·6	−1·5	24·2	23·0	22·5	27·3	90	+3	7·3	+0·1	15·9	0	14	12	1	0	0	0	1	15	7	2	5	0
	1130	"	999·6	937·7	..	26·6	23·9	22·8	27·6	80	..	6·9	..	17·9	0	14	15	2	2	1	0	1	13	8	1	2	1
	1730	"	996·6	935·2	..	27·2	23·9	22·5	27·2	77	..	6·8	..	21·5	0	14	17	1	0	2	1	2	14	8	3	0	0
	2330	"	1000·0	937·7	..	24·3	23·0	22·5	27·2	90	..	6·2	..	15·4	0	10	19	0	2	0	0	1	23	3	0	2	0
Rajpur (Jhabua)	0830	293	1000·5	967·9	..	25·5	24·2	23·6	29·3	89	..	7·4	..	10·7	0	4	25	0	0	4	0	1	8	16	0	2	0
	1730	"	997·6	965·4	..	28·3	25·2	23·7	29·6	77	..	7·2	..	14·1	0	9	21	0	1	0	0	3	11	13	2	1	0
Chhindwara	0830	685	999·4	924·9	−1·3	24·4	22·9	22·3	26·9	89	+2	7·3	+0·6	9·7	0	0	26	1	0	1	1	0	4	12	7	5	0
	1730	"	996·8	922·7	..	25·6	23·5	22·6	27·4	84	..	7·5	..	7·4	0	1	26	1	0	0	3	4	6	6	7	4	0
Seoni	0830	619	998·2	930·7	−2·2	24·3	23·3	22·8	27·7	92	+9	7·5	+1·2	4·1	0	0	29	0	0	1	1	2	12	12	1	2	0
	1730	"	996·6	929·5	..	25·8	23·5	22·6	27·4	84	..	7·1	..	3·3	0	0	26	2	2	0	4	1	10	2	5	5	0
Betul	0830	653	1000·5	926·9	−1·4	23·5	22·5	22·1	26·6	92	+3	8·0	+0·3	8·7	0	1	28	0	1	0	0	0	8	19	1	2	0
	1730	"	997·2	926·4	..	25·7	23·5	22·6	27·4	84	..	7·7	..	8·6	0	0	31	1	0	0	0	1	7	16	6	0	0
Khandwa	0830	318	1000·5	965·1	−1·4	25·7	23·8	22·9	27·9	85	+5	7·3	+1·2	5·6	0	0	31	0	0	0	1	4	14	11	1	0	0
	1730	"	997·4	962·4	..	28·4	24·7	23·0	28·1	74	..	7·4	..	4·7	0	0	30	1	0	0	1	3	17	5	3	1	0
Madhya Pradesh (East)																											
Satna	0530	317	996·9	961·8	..	25·5	24·7	24·3	30·4	93	..	6·5	..	4·0	0	0	21	0	2	4	2	1	2	10	0	10	0
	0830	"	998·0	963·0	−0·8	27·2	25·4	24·6	30·9	85	+6	6·3	+0·1	3·4	0	0	25	0	1	0	3	1	3	7	2	6	0
	1130	"	997·7	962·9	..	29·1	25·9	24·5	30·7	77	..	6·8	..	6·3	0	0	30	1	1	7	1	4	5	9	2	1	0
	1730	"	994·9	960·3	..	29·4	25·8	24·5	31·1	75	..	6·4	..	5·7	0	0	29	0	0	11	3	1	6	6	2	2	0
	2330	"	998·0	962·9	..	26·5	25·1	24·4	30·7	89	..	6·0	..	5·4	0	0	24	0	5	4	1	1	6	7	0	7	0
Sidhi	0830	272	997·1	967·1	..	27·7	25·4	24·5	30·4	82	..	5·9	..	2·5	0	0	22	0	0	4	0	5	6	6	1	9	0
	1730	"	994·3	964·5	..	29·6	26·0	24·4	30·7	75	..	5·5	..	2·3	0	0	22	1	3	3	3	2	1	8	1	9	0
Umaria	0830	459	998·2	947·6	..	25·7	24·2	23·6	28·9	89	+6	7·0	0	6·4	0	0	29	0	1	2	4	1	10	11	0	2	0
	1730	"	995·7	945·6	..	27·3	25·0	24·1	30·0	84	..	7·3	..	6·1	0	0	31	2	1	5	4	1	2	15	1	0	0
Jabalpur	0530	393	997·6	954·2	..	24·6	23·8	23·5	28·9	93	..	7·0	..	6·9	0	2	23	0	1	0	2	5	7	9	1	0	0
	0830	"	998·8	955·6	−0·9	26·1	24·5	23·8	29·5	87	+4	7·0	+0·3	8·4	0	2	26	0	1	1	4	3	7	12	0	3	0
	1130	"	998·5	955·5	..	28·0	25·3	24·1	30·0	81	..	6·5	..	8·6	0	3	27	0	3	1	3	1	9	12	1	1	0
	1730	"	996·1	953·2	..	27·6	25·0	23·8	29·5	81	..	7·2	..	7·5	0	1	30	0	5	2	4	3	10	6	1	0	0
	2330	"	998·8	955·5	..	25·3	24·3	23·9	29·6	92	..	7·4	..	5·9	0	1	25	0	0	3	3	4	11	4	1	5	0
Ambikapur	0830	611	998·8	932·2	−1·5	24·8	23·4	22·7	27·6	89	+2	6·6	+0·7	4·6	0	0	27	2	2	1	2	3	10	5	2	4	0
	1730	"	996·1	929·9	..	26·1	23·8	22·9	27·9	84	..	5·4	..	4·8	0	0	31	3	1	1	4	4	4	10	4	0	0
Pendra	0530	625	997·7	929·2	..	22·9	22·5	22·2	26·9	96	..	7·2	..	3·5	0	0	25	2	1	0	2	12	5	2	1	0	0
	0830	"	998·9	930·7	−1·1	24·3	23·1	22·6	27·4	91	+7	7·4	+1·6	6·1	0	0	28	2	0	1	3	6	10	3	3	3	0
	1130	"	998·4	930·7	..	26·2	23·8	22·8	27·7	82	..	7·6	..	6·1	0	0	29	4	2	1	2	5	10	3	2	2	0
	1730	"	996·1	928·5	..	25·8	23·7	22·8	27·7	85	..	7·4	..	3·4	0	1	30	1	0	1	4	7	11	4	3	0	0
	2330	"	999·0	930·7	..	23·8	23·1	22·8	27·7	94	..	7·5	..	6·0	0	0	26	1	0	0	1	7	11	4	2	5	0
Mandla	0830	443	999·2	950·4	−1·5	25·3	23·9	23·3	28·6	89	+1	6·6	−0·5	3·1	0	0	16	1	1	0	2	5	2	3	2	15	0
	1730	"	996·4	948·0	..	26·9	24·7	23·7	29·3	84	..	7·0	..	5·3	0	0	25	3	0	1	6	6	6	2	1	6	0
Chanda	0830	245	999·7	972·4	−1·0	26·0	24·6	24·0	29·8	89	+3	7·5	+0·4	10·2	0	2	28	0	1	4	3	0	5	17	0	1	0
	1730	"	996·9	969·8	..	27·8	25·2	24·1	30·0	81	..	7·3	..	11·2	0	6	23	1	0	6	1	1	10	7	3	2	0
Raigarh	0830	220	999·2	974·7	−1·5	26·1	24·5	23·8	29·5	88	+3	7·2	−0·1	5·6	0	0	29	0	1	2	3	1	15	7	0	2	0
	1730	"	996·6	972·2	..	27·5	25·2	24·1	30·0	83	..	7·5	..	5·8	0	0	22	1	4	0	0	0	14	3	0	9	0
Raipur	0530	298	998·9	965·7	..	24·4	24·0	23·8	29·5	96	..	7·3	..	7·6	0	0	26	0	1	1	1	1	13	9	0	5	0
	0830	"	1000·1	967·0	−0·6	25·6	24·6	24·1	30·0	92	+8	7·4	+1·0	7·7	0	0	29	0	1	0	2	1	15	9	1	2	0
	1130	"	999·9	966·9	..	27·2	25·2	24·4	30·4	86	..	7·4	..	8·6	0	0	28	0	0	1	2	2	15	8	0	3	0
	1730	"	997·2	964·4	..	27·7	25·6	24·7	31·1	85	..	7·2	..	8·9	0	0	28	1	1	4	1	1	8	10	2	3	0
	2330	"	999·9	966·7	..	25·3	24·5	24·2	30·0	94	..	6·9	..	8·2	0	0	27	0	0	2	2	4	14	5	0	4	0
Kanker	0830	402	1000·6	956·4	−0·2	25·5	23·6	22·7	27·6	85	+3	7·2	−0·2	4·5	0	0	21	0	0	0	0	0	16	4	1	10	0
	1730	"	997·9	953·9	..	26·9	24·2	22·9	27·9	80	..	7·3	..	5·2	0	0	25	0	0	0	0	2	15	6	2	6	0
Jagdalpur	0530	553	1000·5	939·6	..	22·6	21·8	21·4	25·6	93	..	7·0	..	3·5	0	0	21	0	0	2	0	2	14	3	0	10	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East—(*Contd.*) Jagdalpur—(*contd.*)	0830	553	1001·5	940·8	−0·5	24·0	22·6	21·9	26·3	89	+5	7·5	+9·9	5·0	0	0	23	0	0	0	0	3	15	4	1	8	0
	1130	,,	1001·1	940·7	..	25·7	23·2	22·1	26·6	81	..	7·5	..	7·5	0	0	29	0	0	0	0	3	16	5	5	2	0
	1730	,,	998·9	938·7	..	25·8	23·1	22·1	26·2	82	..	7·7	..	6·0	0	0	24	1	0	1	0	1	17	4	0	7	0
	2330	,,	1001·6	940·7	..	23·2	22·2	20·8	26·1	92	.	7·3	..	4·8	0	0	21	0	0	0	2	4	12	2	1	10	0
Gujarat Region—Deesa	0830	136	998·7	983·5	−1·7	27·0	25·5	25·0	31·5	89	..	6·6	..	4·7	0	0	25	0	0	0	8	8	7	2	0	6	0
	1730	,,	995·6	980·6	..	30·5	26·4	24·6	31·1	71	..	5·8	..	9·9	0	2	28	0	0	4	6	6	12	1	1	1	0
Radhanpur	0830	30	999·6	995·2	..	27·5	26·1	25·6	32·6	88	..	6·8	..	8·4	0	1	27	0	0	2	9	5	10	2	0	3	0
	1730	,,	995·9	992·6	..	30·8	27·3	25·6	33·4	75	..	5·6	..	10·4	0	4	23	0	0	5	2	2	17	1	0	4	0
Idar	0830	249	999·3	971·8	..	25·9	24·6	24·0	30·0	90	..	7·5	..	5·3	0	0	27	0	1	3	3	4	13	3	0	4	0
	1730	,,	996·2	972·1	..	29·0	25·6	24·0	30·0	76	..	7·7	..	5·0	0	0	28	1	1	1	6	0	12	6	1	3	0
Ahmedabad	0230	55	998·2	992·0	..	26·5	25·1	24·4	30·7	89	..	6·2	..	11·5	0	6	24	0	0	1	2	9	13	4	1	1	0
	0530		998·0	991·7	..	26·0	24·9	24·4	30·7	91	..	6·7	..	11·2	0	1	27	0	0	0	4	7	13	4	0	3	0
	0830	,,	999·4	993·1	−2·2	27·0	25·4	24·8	31·1	88	+5	7·3	+0·9	13·1	0	4	26	0	0	4	5	6	14	3	0	1	0
	1130	,,	999·5	993·3	..	29·1	26·1	24·8	31·3	79	..	7·2	..	14·3	0	6	24	0	0	2	4	5	10	8	1	1	0
	1730	,,	996·5	990·3	..	30·3	26·3	24·6	30·9	74	..	7·0	..	14·8	0	9	21	1	0	2	4	6	8	6	3	1	0
	2330	,,	999·1	993·1	..	27·0	25·1	24·6	31·1	87	..	6·5	..	13·6	0	2	28	0	0	0	5	8	12	5	0	1	0
Dehod	0830	335	999·6	962·7	−2·0	25·6	24·0	23·2	28·6	87	−1	6·9	−0·3	16·7	0	14	23	1	1	0	0	3	11	11	0	4	0
	1730	,,	997·0	960·5	..	28·2	25·0	23·6	29·1	77	..	6·6	..	14·6	0	3	27	0	2	0	1	2	13	12	0	1	0
Baroda Aerodrome	0830	38	999·8	995·6	..	27·1	25·7	25·2	31·9	90	..	7·2	..	12·9	0	2	29	0	1	0	2	12	14	2	0	0	0
	1130	,,	999·8	995·7	..	29·2	26·3	25·1	31·9	79	..	7·3	..	11·6	0	7	23	0	0	1	3	4	15	7	0	1	0
	1730	,,	997·1	991·0	..	29·5	26·3	24·9	31·5	78	..	6·9	..	22·1	0	18	12	0	0	0	1	13	14	2	0	1	0
Faroda	0530	34	998·7	994·7	..	26·1	25·3	25·0	31·7	94	..	5·7	..	1·0	0	0	14	0	0	0	1	3	8	2	0	17	0
	0830	,,	1000·1	996·2	−1·8	27·2	25·9	25·4	32·2	90	+2	6·7	−0·1	2·3	0	0	21	0	0	1	1	1	15	3	0	10	0
	1130	,,	1000·3	996·4	..	29·8	26·6	25·5	32·8	78	..	6·9	..	5·4	0	0	29	0	0	0	2	2	21	4	0	2	0
	1730	.	997·4	993·5	..	30·0	26·8	25·5	32·6	78	..	6·3	..	3·5	0	0	26	0	0	0	4	1	12	8	1	5	0
	2330	,,	1000·1	996·1	..	26·7	25·7	25·3	32·2	92	..	6·1	..	1·7	0	0	16	0	1	0	2	1	10	1	1	15	0
Broach	0830	12	999·7	997·7	−2·3	26·9	25·7	25·2	32·1	90	+3	7·0	+0·6	9·5	0	1	30	0	0	0	3	12	15	0	1	0	0
	1730	,,	997·6	995·6	..	29·2	26·0	24·7	30·9	77	..	6·5	..	13·1	0	4	27	0	0	0	0	0	30	0	1	0	0
Surat	0530	12	999·0	997·7	..	26·3	25·7	25·4	32·4	94	..	7·6	..	8·7	0	1	29	0	0	1	2	2	24	1	0	1	0
	0830	.	1000·3	999·0	2·1	27·2	26·2	25·7	33·2	92	+9	7·2	+0·3	7·9	0	0	29	0	0	0	3	2	22	2	0	2	0
	1130	,,	1000·8	999·5	..	28·9	26·8	26·0	33·4	84	..	7·6	..	10·5	0	1	30	0	0	1	1	4	23	2	0	0	0
	1730	,,	998·6	997·3	..	28·5	26·6	25·8	33·4	86	..	7·3	..	11·2	0	0	31	0	0	0	1	5	25	0	0	0	0
	2330	.	1000·8	999·5	..	26·9	26·0	25·6	33·0	93	..	7·0	..	12·2	0	2	29	0	0	0	2	2	26	1	0	0	0
Saurashtra and Kutch Bhatakia Bhimasar	0830	17	999·0	993·6	..	27·5	26·5	26·1	33·8	92	..	7·1	..	17·2	0	12	19	3	1	2	1	9	11	4	0	0	0
	1730	,,	996·3	991·1	..	31·0	28·1	26·7	35·4	80	..	6·8	..	24·6	0	20	11	1	1	3	0	8	14	2	2	0	0
Nalia	0830	21	997·6	995·2	..	27·6	26·5	26·1	33·8	91	..	6·9	..	16·6	0	12	19	1	2	1	2	3	13	6	3	0	0
	1730	,,	995·8	993·4	..	29·0	26·9	25·9	33·8	85	..	6·7	..	25·7	1	19	11	1	1	0	2	0	18	5	4	0	0
Bhuj (Rudramata)	0230	80	996·8	987·8	..	26·6	25·4	24·8	31·5	90	..	5·2	..	15·9	0	12	16	1	0	0	0	0	12	12	3	3	0
	0530	,,	996·5	987·5	..	26·3	25·2	24·8	31·3	92	..	5·9	..	13·5	0	10	15	2	0	0	0	1	11	10	1	6	0
	0830	,,	997·9	988·8	−2·2	27·4	25·6	24·7	31·3	85	+1·0	·6	+0·6	16·7	0	10	20	2	2	0	2	1	11	10	2	1	0
	1130	,,	998·2	989·2	..	29·7	26·1	24·6	30·9	75	..	6·8	..	20·5	0	12	18	2	1	3	0	2	10	11	1	1	0
	1730	,,	995·7	986·8	..	30·0	26·2	24·5	30·9	74	..	6·7	..	22·0	0	23	8	1	1	1	2	1	11	12	2	0	0
	2330	,,	998·2	989·2	..	27·1	25·6	24·8	31·5	88	..	5·5	..	18·6	0	14	16	1	1	0	0	1	13	13	1	1	0
Kandla Aerodrome	0830	35	998·2	994·3	..	28·0	26·2	25·5	32·4	86	..	6·5	..	17·8	0	12	19	2	1	3	1	2	14	6	2	0	0
	1130	,,	998·5	994·6	..	30·0	26·7	25·4	32·4	77	..	6·7	..	21·4	0	14	17	3	1	2	2	3	12	7	1	0	0
	1730	,,	996·1	992·3	..	30·5	26·4	24·6	31·1	72	..	6·2	..	25·0	0	23	8	0	1	1	2	2	16	7	2	0	0
New Kandla	0830	14	998·8	997·2	..	28·1	26·3	25·6	32·2	86	..	7·1	..	21·1	0	16	15	2	1	1	3	1	12	10	1	0	0
	1730	,,	996·8	995·2	..	30·1	26·7	25·2	32·2	76	..	6·4	..	31·6	0	21	10	1	1	1	2	2	12	11	1	0	0
Mandvi	0830	9	998·4	997·3	−2·2	28·0	26·4	25·9	33·0	88	+1	7·4	+1·1	26·9	0	16	15	0	1	0	0	1	20	0	7	0	2
	1730	,,	996·2	995·1	..	29·2	26·9	26·0	33·4	83	..	6·9	..	36·9	0	26	5	0	1	0	1	0	23	2	0	0	4
Surendranagar	0830	74	999·0	990·7	−2·2	27·5	25·4	24·5	30·7	84	0	6·9	+0·5	17·3	0	12	19	0	1	1	3	6	13	7	0	0	0
	1730	,,	996·2	988·0	..	31·2	26·2	24·0	29·8	68	..	6·6	..	21·8	0	14	17	1	1	2	4	5	10	8	0	0	0
Jamnagar Aerodrome	0530	23	997·1	994·5	..	26·3	25·3	24·9	31·5	92	..	5·5	..	18·9	0	14	16	1	0	1	1	2	14	10	1	1	0
	0830	,,	998·5	996·0	−2·1	27·6	26·1	25·4	32·6	88	+7	6·9	+2·0	20·0	0	17	13	1	1	0	1	1	16	9	1	1	0
	1130	,,	998·8	996·3	..	29·8	26·5	25·0	31·9	76	..	7·1	..	27·8	0	22	9	1	2	1	1	0	11	13	2	0	0
	1730	,,	996·5	994·0	..	29·4	26·3	25·1	31·5	78	..	7·0	..	32·5	0	26	5	1	1	1	0	1	10	15	2	0	0
	2330	,,	999·0	996·4	..	26·9	25·8	25·3	32·2	91	..	6·3	..	22·9	0	18	13	1	0	0	1	1	15	12	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount Oktas: Mean amount	Cloud amount Oktas: Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(*Contd.*)																											
Dwarka	0830	11	998·5	997.2	−2·5	27·9	26·3	25·7	32·8	88	+5	7·3	+0·7	27·7	0	27	4	1	0	0	1	0	10	17	2	0	0
	1730	,,	997·1	995·8	..	28·5	26·1	25·0	31·9	81	..	6·5	..	30·3	0	27	4	1	0	0	0	2	10	17	1	0	0
Rajkot	0830	138	999·0	983·6	−2·5	26·5	25·5	25·0	31·9	91	+3	6·7	+0·7	21·6	0	19	10	2	1	0	1	1	20	4	0	2	0
	1130	,,	899·1	983·8	..	29·1	26·3	25·1	31·9	80	..	7·0	..	23·8	0	20	10	2	1	0	1	1	15	9	1	1	0
	1730	,,	996·6	981·4	..	28·9	26·1	24·8	31·5	80	..	6·9	..	28·3	0	24	6	0	0	1	1	1	16	11	0	1	0
Bhavnagar Aerodrome	0830	11	999·6	998·4	2·1	28·1	25·7	24·7	31·1	83	+11	5·7	..	17·0	0	6	25	0	0	0	1	3	19	8	0	0	0
	1130	,,	999·8	998·6	..	30·4	26·5	24·7	31·5	72	..	6·3	..	25·0	0	23	8	0	0	0	4	1	16	10	0	0	0
	1730	,,	997·3	996·1	..	30·4	26·4	24·7	31·1	73	..	6·0	.	29·6	0	27	4	0	0	0	3	3	21	4	0	0	0
Bhavnagar*	0830	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Porbander Aerodrome	0830	7	999·3	998·5	..	27·4	26·4	25·9	33·6	91	..	7·3	..	19·4	0	14	16	0	0	0	0	1	17	9	3	1	0
	1130	,,	999.7	998.9	..	28·7	27·1	26·5	31·6	88	..	7.1	..	26·3	0	26	5	0	0	0	1	0	21	7	2	0	0
	1730	,,	997·6	996·8	..	28·2	26·7	26.2	34·0	89	..	7·2	..	27.3	0	25	6	0	0	0	0	1	19	8	3	0	0
Porbander	0830	7	999·3	998·5	−2·2	27·4	26·1	25·6	32·6	90	+2	7·7	+0·9	17·8	0	12	19	1	0	0	1	0	13	14	2	0	0
	1730	,,	997·8	997·0	..	28·4	26·7	26·2	33·8	88	..	7·9	..	22·6	0	20	11	0	6	0	0	0	13	11	2	0	0
Keshod	0830	51	999·8	994·0	..	26·9	25·5	23·9	31·5	89	..	6·8	..	24·1	0	21	9	0	1	0	0	1	19	8	1	1	0
	1130	,,	1000·1	994·4	..	28·5	26.0	25·0	31·5	81	..	7·0	..	31·5	0	27	4	2	0	0	1	0	16	10	2	0	0
	1730		998.3	992·5	..	27·9	25·7	24·7	31·1	84	..	6·7	..	34·7	0	30	1	0	1	0	0	1	18	11	0	0	0
Mahuva	0830	9	999·7	998·7	..	27.1	25·8	25·2	32·2	89	..	6·5	..	14·7	0	4	27	0	0	0	0	2	28	0	1	0	0
	1730	,,	998·0	997·0	..	28·3	26·1	25·3	32·1	84	..	6·8	..	23·2	0	20	11	0	0	0	1	2	27	0	0	0	0
Veraval	0230	8	998.8	997.9	..	27·1	26·1	25·7	33.0	92	..	7·0	..	25·5	0	21	10	1	0	0	0	0	8	21	1	0	0
	0530	,,	998·7	997·8	..	27·1	26·0	25·5	32·6	91	..	7·0	..	21·5	0	18	12	2	0	0	0	0	8	18	2	1	0
	0830	,,	999·8	998·9	−2·5	27·6	26·3	25·8	33·0	90	+5	7·3	+0·7	20·7	0	16	14	1	0	0	0	0	9	17	3	1	0
	1130	,,	1000·4	999·5	..	28·3	26·7	26·1	33·6	89	..	7·4	..	21·6	0	19	12	1	0	0	0	2	9	16	3	0	0
	1730	,,	998·4	997·5	..	27·8	26·4	25·8	33·2	89	..	7·4	..	21·5	0	16	15	0	0	0	0	0	8	20	3	0	0
	2330	,,	1000·4	999·5	..	27·1	26·2	25·8	33·2	91	..	7·0	..	23·7	0	10	21	0	0	0	0	0	12	16	3	0	0
Konkan																											
Dahanu	0830	5	1001·3	1000·8	−1·6	27·0	25·3	24·5	30·7	86	−4	8·0	+0·6	19·6	0	14	17	0	0	0	0	2	14	12	0	0	0
	730	,,	999·8	999·3	..	27·7	25·5	24·6	30·7	83	..	7·9	..	26·8	0	20	11	0	0	0	1	2	15	13	0	0	0
Bombay (Santa Cruz)	0230	15	1001·2	999·6	..	26·4	25·4	24.9	31·7	92	..	7·5	..	22·6	0	17	14	0	0	1	0	0	16	13	1	0	0
	0530	,,	1000·9	999·3	..	26·3	25·2	24·7	31·1	91	..	7·6	.	20·9	0	17	13	0	0	0	0	0	14	15	1	1	0
	0830	,,	1002·5	1000·9	−1·9	26·7	25·4	25·0	31·5	90	+9	7·6	+0·6	18·6	0	15	15	0	0	1	0	0	7	20	2	1	0
	1130	,,	1003·1	1001·5	..	27·1	25·7	25·2	31·9	90	..	7·7	..	20·4	0	19	10	0	0	0	0	0	10	17	2	2	0
	1730	,,	1001·0	999·4	..	27·1	25·7	25·0	31·9	89	..	7·6	..	24·5	0	26	5	0	0	0	0	0	12	18	1	0	0
	2330	,,	1003·0	1001·4	..	26·4	25·4	25·0	31·7	92	..	7·2	..	20·0	0	15	16	0	1	0	1	0	15	14	0	0	0
Bombay	0830	11	1002·7	1001·5	−1·7	26·8	25·6	25·1	31·7	90	+7	7·6	+0·6	13·0	0	6	22	0	0	0	1	0	12	15	0	3	0
	1130	,,	1003·1	1001.9	..	27·7	26·1	25·4	32·4	88	..	7·6	..	11·1	0	5	24	0	0	0	0	0	13	15	1	2	0
	1730	,,	1001·1	1000·1	..	27·2	25·6	25·0	31·9	88	..	7·6	..	11·6	0	5	24	0	0	0	0	0	16	13	0	2	0
Alibag	0830	7	1003·0	1002·2	−1·7	26·9	25·6	25·0	31·7	89	+5	7·7	+0·1	14·4	0	7	22	0	0	0	0	1	19	8	1	2	0
Harnai	0830	20	1003·8	1001·5	−1·1	26·7	25·6	25·2	32·1	91	+4	8·0	+1·0	22·1	0	16	15	0	0	0	0	5	14	11	1	0	0
	1730	,,	1002·4	1000·1	..	27·2	25·8	25·1	32·1	89	..	7·7	..	27·1	0	18	13	0	0	0	0	3	14	13	1	0	0
Ratnagiri	0830	34	1004·9	1001·0	−0·9	26·5	25·5	25·0	31·9	92	..	7·8	..	22·8	0	17	14	0	0	0	0	1	11	15	4	0	0
	1730	,,	1003·2	999·5	..	27·0	25·7	25·2	31·9	90	..	7·1	..	27·8	0	25	6	0	0	0	0	0	9	17	5	0	0
Devgad	0830	36	1004·8	1000·8	..	26·8	25·9	25·5	32·6	92	+3	7·9	+0·8	32·4	0	29	2	0	0	0	0	0	5	22	4	0	0
	1730	,,	1003·6	999·6	..	27·3	26·2	25·7	33·0	91	..	7·8	..	30·9	0	29	2	0	0	0	0	0	3	23	4	0	0
Vengurla	0230	9	1004·6	1003·6	..	26·0	25·0	24·6	30·9	92	..	7·6	..	7·1	0	1	22	0	0	0	0	0	11	11	1	8	0
	0530	,,	1004·3	1003·3	..	26·1	25·1	24·7	31·1	92	..	7·9	.	9·5	0	1	27	0	0	0	0	2	11	12	3	3	0
	0830	,,	1005·7	1004·7	−1·1	26·5	25·3	24·8	31·3	90	0	7·8	+0·4	7·3	0	2	25	1	0	0	0	1	10	13	2	4	0
	1130	,,	1006·3	1005.3	..	27·1	25·6	25·0	31·5	88	..	7·9	..	8·2	0	2	27	0	0	0	0	2	13	11	3	2	0
	1730	,,	1004·5	1003·5	..	26·9	25·5	24·9	31·5	89	..	7·9	..	10·3	0	3	27	0	0	0	0	1	15	13	1	1	0
	2330	,,	1006·4	1005·4	.	25·9	24·8	24·4	30·4	91	..	7·6	..	9·7	0	1	27	0	0	0	0	1	12	13	2	3	0
Madhya Maharashtra																											
Nandurbar	0830	,,	1000·4	977·4	..	26.2	24·6	23·9	29·7	87	..	7·2	..	9·8	0	0	28	0	0	2	0	0	10	16	0	3	0
	1730	,,	998·0	975·0	..	27·2	24·6	23.4	28·8	30	..	7·7	..	9·3	0	1	29	0	0	0	0	0	9	21	0	1	0
Jalgaon	0830	201	1000·8	978·3	−1·5	26·0	24·3	23·6	28·9	87	+2	7.1	+0.8	10·6	0	0	30	0	1	0	0	2	8	16	3	1	0
	1730	,,	997·7	975·5	..	29·2	25·3	23·5	28·9	74	..	6·5	..	18·3	0	10	21	1	1	1	2	1	4	16	5	0	0
Malegaon	0830	437	1000·9	952·5	−1.9	24·9	22·9	21·9	26·3	84	+10	7·3	+1·3	9·5	0	2	25	0	0	0	0	3	11	12	1	4	0
	1730	,,	998·1	950·3	..	27·7	23·6	21·5	25·6	70	.	7·3	..	20·8	0	13	18	2	0	0	0	0	9	17	3	0	0
Deolali Aerodrome	0830	571	1002·2	939·3	..	23·7	22·6	22.2	26·6	92	..	7·5	..	18·9	0	11	20	0	0	0	0	0	26	5	0	0	0
	1730	,,	1000·8	938·0	..	24·1	23·1	22·6	27·6	92	..	7·5	..	19·9	0	10	21	0	0	0	0	0	26	5	0	0	0

*Observatory closed from 1-7-61

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra (*Contd.*)																											
Ahmadnagar	0830	657	1001·6	929·6	−2·3	23·3	21·7	20·9	24·7	87	+1·0	6·3	+0·5	6·8	0	0	29	0	0	0	0	0	24	5	0	2	0
	1730	,,	999·8	928·4	..	25·9	22·2	20·4	24·0	72	..	6·8	..	9·6	0	3	26	0	0	0	0	0	16	12	1	2	0
Poona (Aerodrome)	0230	593	1002·0	936·6	..	22·5	21·5	21·1	24·9	94	..	7·4	..	12·1	0	3	23	0	0	0	0	0	0	26	0	5	0
	0530	,,	1001·5	935·8	..	22·0	21·4	21·1	25·0	95	..	7·5	..	12·5	0	7	19	0	0	0	0	0	0	24	2	5	0
	0830	,,	1002·6	937·2	..	25·0	21·9	21·4	25·3	91	..	7·6	..	14·7	0	6	25	0	0	0	0	0	0	30	1	0	0
	1130	,,	1002·6	937·3	..	24·9	22·9	22·1	26·4	84	..	7·3	..	21·6	0	16	15	0	0	0	0	0	1	29	1	0	0
	1730	,,	1000·8	935·7	..	24·1	22·7	22·0	26·6	88	..	7·4	..	24·2	0	20	11	0	0	0	0	0	0	30	1	0	0
	2330	,,	1003·3	937·7	..	22·6	21·7	21·2	25·3	92	..	7·5	..	14·2	0	7	23	0	0	0	0	0	0	30	0	1	0
Poona	0530	559	1001·2	939·4	..	22·6	21·4	20·7	24·6	90	..	7·6	..	4·0	0	0	18	1	0	0	0	0	6	11	0	13	0
	0830	,,	1002·5	940·8	−1·8	23·5	22·0	21·3	25·3	88	+9	7·6	−1·0	4·5	0	0	22	0	0	0	0	0	13	9	0	9	0
	1130	,,	1002·4	941·1	..	25·4	22·9	21·8	25·9	81	..	(a) 7·4	..	(a) 7·7	0	0	26	0	0	0	0	0	14	10	3	4	0
	1730	,,	1000·5	939·2	..	24·7	22·5	21·4	25·6	82	..	7·9	..	7·6	0	0	29	0	0	0	0	0	9	20	0	2	0
	2330	,,	1003·0	941·2	..	23·2	21·5	20·8	24·4	87	..	7·1	..	6·3	0	0	23	1	0	0	0	0	7	15	0	8	0
Jejuri	0830	521	1002·5	945·0	−1·1	23·9	22·3	21·5	25·6	86	+5	7·6	+1·9	11·1	0	1	28	0	0	0	0	1	14	12	2	2	0
	1730	,,	999·6	942·8	..	27·0	22·7	20·8	24·4	67	..	7·3	..	27·6	0	25	6	0	0	0	0	0	5	19	7	0	0
Baramati	0830	551	1002·7	941·9	−1·6	23·9	21·9	20·9	24·8	84	+3	7·4	+0·9	9·2	0	2	26	0	0	0	0	1	13	10	4	3	0
	1730	,,	1000·1	940·1	..	26·8	22·3	20·1	23·5	67	..	7·0	..	27·8	0	25	6	0	0	0	0	0	7	22	2	0	0
Sholapur	0530	479	1002·5	949·3	..	22·8	21·8	21·3	25·3	91	..	7·3	..	6·7	0	0	27	0	0	0	0	2	21	4	0	4	0
	0830		1003·7	950·7	−0·9	24·3	22·5	21·7	25·9	86	+13	7·6	+1·6	10·6	0	0	31	0	0	0	0	2	23	6	0	0	0
	1130	,,	1002·9	950·5	..	27·3	23·4	21·4	25·9	69	..	7·5	..	16·1	0	7	24	0	0	0	0	0	16	12	3	0	0
	1730	,,	1000·5	948·2	..	27·3	23·1	21·2	25·2	71	..	7·5	..	17·9	0	11	19	0	0	0	0	0	11	18	1	1	0
	2330	,,	1004·0	950·9	..	24·0	22·3	21·4	25·6	85	..	7·5	..	9·0	0	0	27	0	0	0	0	1	20	5	1	4	0
Miraj	0830	554	1004·5	943·2	−1·3	22·9	21·8	21·2	25·3	88	+5	6·2	−1·2	..	0	0	17	3	0	0	0	0	0	11	3	14	0
	1730	,,	1002·6	941·9	..	24·9	22·3	21·1	25·0	80	..	5·9	..	..	0	0	29	5	0	0	0	0	5	19	0	2	0
Kolhapur	0530	570	1002·7	939·7	..	22·1	21·3	20·9	24·7	93	..	7·5	..	19·9	0	14	17	0	0	0	0	0	1	30	0	0	0
	0830	,,	1004·7	941·8	−0·8	22·7	21·9	21·5	25·6	93	+4	7·6	+0·7	17·7	0	10	21	0	0	0	0	0	5	26	0	0	0
	1130	,,	1004·2	941·4	..	23·9	22·5	21·8	26·3	89	..	7·6	..	22·0	0	15	16	0	0	0	0	0	3	28	0	0	0
	1730	,,	1002·5	939·7	..	23·3	22·0	21·4	25·3	89	..	7·6	..	20·4	0	14	17	0	0	0	0	0	4	26	1	0	0
	2330	,,	1004·8	941·7	.	22·3	21·5	21·1	25·0	93	..	7·7	..	19·9	0	15	16	0	0	0	0	0	2	29	0	0	0
Marathwada																											
Aurangabad	0830	581	1002·3	938·3	−1·6	23·2	22·1	21·4	25·6	90	+9	7·5	+0·5	8·9	0	2	28	1	0	0	0	3	10	16	0	1	0
	1730	,,	999·0	935·9	..	26·4	22·8	21·2	25·2	74	..	7·1	..	19·8	0	15	15	0	0	0	0	0	9	20	1	1	0
Aurangabad [Chikalthan]	0230	579	1000·7	936·8	..	22·5	21·4	20·8	24·7	90	..	7·7	..	9·5	0	0	27	0	0	0	0	0	9	18	0	4	0
	0530	,,	1000·6	936·6	..	22·2	21·2	20·8	24·4	92	..	7·8	..	8·2	0	2	20	0	0	0	0	0	11	11	0	9	0
	0830	,,	1001·7	937·9	..	23·5	22·2	21·5	25·8	89	..	7·8	..	8·5	0	0	29	0	0	0	0	0	9	18	2	2	0
	1130	,,	1001·4	938·1	..	25·9	23·2	22·0	26·4	79	..	7·5	..	12·0	0	3	28	0	0	0	0	1	11	19	0	0	0
	1730	,,	998·5	935·5	.	26·5	23·1	21·5	25·8	75	..	7·7	..	16·7	0	9	22	0	0	0	0	0	11	18	2	0	0
	2330	,,	1002·2	938·3	..	23·1	21·7	21·0	24·9	88	..	7·7	..	12·1	0	1	29	0	0	0	0	0	11	18	1	1	0
Parbhani	0830	423	1002·3	955·4	−0·6	24·7	22·7	21·6	25·9	84	+3	7·2	+0·7	14·5	0	3	28	0	0	0	0	0	12	18	1	0	0
	1730	,,	998·5	952·4	..	28·1	23·6	21·3	25·3	69	..	7·5	..	15·4	0	3	28	0	0	0	0	0	4	19	8	0	0
Nander	0830	358	1002·5	962·5	..	25·0	23·0	22·1	26·4	84	..	7·1	..	4·4	0	0	31	0	0	0	0	2	19	10	0	0	0
	1730	,,	999·3	960·0	..	28·9	24·2	22·1	26·6	68	..	5·8	..	3·7	0	0	31	0	0	0	0	1	21	7	2	0	0
Bir	0830	519	1002·8	945·6	..	24·9	22·8	21·8	26·3	83	..	7·4	..	10·7	0	1	30	0	0	0	0	3	18	8	2	0	0
	1730	,,	999·9	943·5	..	27·6	23·7	21·8	26·3	72	..	7·1	..	16·2	0	8	23	1	0	0	0	1	10	15	4	0	0
Vidarbha																											
Gondia	0830	313	1000·3	965·6	−1·0	25·4	24·3	23·9	29·5	91	+5	7·6	+0·7	8·6	0	2	29	0	1	0	2	11	14	2	1	0	0
	1730	,,	997·5	963·0	..	27·2	25·1	24·3	30·0	84	..	7·1	..	9·2	0	4	26	2	2	1	3	5	12	1	4	1	0
Nagpur (Sonegaon)	0230	310	998·7	964·2	..	24·5	23·8	23·4	28·9	93	..	7·0	..	8·1	0	3	22	0	1	0	1	0	16	4	3	6	0
	0530	,,	998·9	964·4	..	24·3	23·6	23·2	28·6	94	..	7·5	..	7·6	0	2	22	1	0	0	0	3	14	5	1	7	0
	0830	,,	1000·3	965·8	−1·2	25·6	24·1	23·4	28·7	88	+6	7·4	+0·9	12·8	0	6	22	1	0	2	0	0	14	7	4	3	0
	1130	,,	1000·1	965·9	..	27·9	24·9	23·6	28·9	78	..	7·5	..	14·3	0	9	19	0	0	3	0	1	10	11	3	3	0
	1730	,,	997·3	963·0	..	27·6	24·7	23·3	28·7	79	..	7·2	..	13·0	0	8	20	0	1	2	1	2	12	5	5	3	0
	2330	,,	1000·1	965·6	..	25·1	24·1	23·7	29·1	92	..	7·6	..	7·2	0	0	23	1	0	0	0	1	13	4	4	8	0
Amraoti	0830	370	1000·8	959·8	−1·2	24·8	23·4	22·7	27·6	88	+7	7·2	+1·0	11·0	0	3	28	1	0	0	0	3	17	9	1	0	0
	1730	,,	997·0	956·4	..	28·0	24·3	22·7	27·2	74	..	6·6	..	11·8	0	4	27	2	1	1	0	4	9	7	7	0	0
Akola Aerodrome	0530	309	999·2	964·6	..	24·1	22·6	21·9	26·1	87	..	7·6	..	5·2	0	0	29	0	0	0	0	0	6	21	2	2	0
	2330	,,	1000·3	965·9	..	25·3	23·5	22·7	27·5	86	..	6·9	..	8·8	0	4	25	0	0	1	0	1	11	16	0	2	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of pressure standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Kmp.h.): 62 or more	Wind speed (Kmp.h.): 20 to 61	Wind speed (Kmp.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*contd.*																											
Akola	0830	282	1000·7	969·3	−1·5	25·3	23·7	22·9	27·9	87	+9	6·9	+0·6	2·6	0	0	21	0	0	0	0	0	2	19	0	10	0
	1130	,,	1006·1	969·4	..	27·7	24·6	23·1	28.5	78	..	7·5	..	5·7	0	0	30	0	0	0	0	0	10	19	1	1	0
	1730	,,	997·6	966·5	..	28·2	24·9	23·4	28·8	77	..	7·2	..	5·4	0	1	28	1	0	0	0	0	7	18	3	2	0
Bramhapuri	0830	229	1001·0	975·9	..	25·4	24·3	23·8	29·5	91	..	7·1	..	8·1	0	0	29	0	1	0	1	5	13	8	1	2	0
	1730	,,	998·2	972·8	..	27·2	25·3	24·5	30.7	85	..	6·8	..	8·1	0	0	30	1	0	0	1	7	10	7	1	1	3
Buldhana	0830	650	1000·6	929·4	−1·7	23·1	21·6	21·0	24·7	88	+2	7·1	+0·1	5·2	0	0	29	0	1	0	1	1	8	1	17	2	0
	1730	,,	998·0	927·8	..	26·1	22·9	21·4	25·6	76	..	7·6	..	3·9	0	0	31	0	0	0	4	0	14	0	13	0	0
Yeotmal	0830	451	1000·7	950·9	−1·3	24·4	22·8	22·0	26·4	86	−1	7·1	+0·2	19·2	0	13	18	0	0	0	0	1	17	9	4	0	0
	1730	,,	997·5	948·3	..	27·5	24·1	22·6	27·2	77	..	7·6	..	15·9	0	6	25	0	1	0	0	2	10	13	5	0	0
Chanda	0830	193	1001·2	979·5	−1·2	26·0	24·2	23·3	28·9	85	+7	7·7	+1·5	10·6	0	0	31	0	0	0	0	2	19	8	2	0	0
	1730	,,	998·3	976·8	..	27·5	25·1	24·0	30·0	82	..	7·5	..	7·3	0	0	31	1	1	1	1	6	11	8	2	0	0
Basar	0830	334	1001·7	964·5	..	25·0	23·1	22·2	26·6	84	..	7·0	..	7·5	0	0	31	0	0	0	0	0	11	18	2	0	0
	1730	,,	997·9	961·7	..	29·0	24·5	22·5	26·9	69	..	7·1	..	10·6	0	2	29	3	0	0	0	1	11	13	3	0	0
Sironcha	0830	123	1002·3	988·5	−1·0	25·9	24·5	23·9	29·6	89	+4	7·9	+1·0	2·6	0	0	26	0	0	1	3	7	10	1	4	5	0
	1730	,,	999·1	985·3	..	28·2	25·4	24·2	30·2	80	..	7·5	..	3·3	0	0	30	0	2	2	3	3	13	2	5	1	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1000·8	1000·1	−0·7	27·3	25·5	24·8	31·1	83	+8	+5	0·9	20·7	1	13	16	1	2	1	0	4	14	7	1	1	0
	1730	,,	999·3	998·7	..	28·3	26·5	25·7	33·2	86	..	6·5	..	21·5	0	20	11	0	0	2	3	3	22	1	0	0	0
Visakhapatnam	0230	30	1000·5	1000·1	..	26·1	24·4	23·8	29·3	87	..	5·6	..	9·5	0	5	15	0	0	0	0	0	18	2	0	11	0
	0530	,,	1000·6	1000·2	..	25·7	24·1	23·4	28·8	88	..	6·8	..	6·9	0	2	17	0	0	0	0	0	18	1	0	12	0
	0830	,,	1001·9	1001·5	−0·2	27·3	24·8	23·7	29·3	80	−5	6·8	0	14·6	0	12	14	0	0	0	0	4	20	2	0	5	0
	1130	,,	1001·6	1001·2	..	29·7	25·8	24·1	30·0	72	..	6·8	..	19·4	0	18	12	0	0	3	2	6	18	1	0	1	0
	1730	,,	999·7	999·3	..	28·5	25·4	24·1	30·0	77	..	6·8	..	17·1	0	12	19	0	0	1	1	8	18	2	1	0	0
	2330	,,	1002·2	1001·8	..	26·5	24·7	23·9	29·7	85	..	6·1	..	12·3	0	8	16	0	0	1	0	3	18	1	1	7	0
Kakinada	0830	8	1003·1	1002·2	−0·1	27·6	25·2	24·2	30·0	82	+4	6·7	+0·5	10·6	0	0	31	0	0	0	0	0	31	0	0	0	0
	1730	,,	1000·1	999·2	..	28·7	25·8	24·4	30·5	77	..	7·1	..	11·0	0	0	31	0	0	0	1	0	27	0	3	0	0
Nidadavole	0830	12	1004·0	1002·6	..	25·6	24·9	24·1	30·0	87	..	7·8	..	8·0	0	1	30	0	0	0	0	0	24	6	1	0	0
	1730	,,	1000·2	998·8	..	29·2	26·0	24·6	30·9	77	..	7·5	..	11·9	0	2	29	1	0	1	0	5	10	9	5	0	0
Rentachintala	0830	106	1003·7	991·8	..	27·2	24.4	23·1	28·3	79	+9	7·8	+0.8	4·6	0	0	31	0	0	0	0	0	7	24	0	0	0
	1730	,,	1000.1	988·4	..	30·0	25·4	23·2	28·6	68	..	7·5	..	4.1	0	0	31	1	0	0	0	0	7	21	2	0	0
Gunavaram	0230	24	1001·7	999·0	..	25·8	24·4	23·7	29·5	88	..	7·6	..	9·0	0	2	27	1	0	0	0	1	11	13	3	2	0
	0530	,,	1002·0	999·3	..	25·6	24·2	23·5	29·1	89	..	7.6	..	9·9	0	0	31	0	0	0	0	1	9	17	4	0	0
	0830	,,	1003·8	1001·1	0	26·9	24·7	23·7	29·3	83	+4	7·4	+0.7	10·5	0	4	27	1	0	0	0	1	16	10	3	0	0
	1130	,,	1003.3	1000·6	..	29·7	25·4	23·5	28.9	70	..	7.4	..	18·4	0	16	15	1	0	0	0	0	4	18	8	0	0
	1730	,,	1000·3	997.6	..	30·5	25·6	23·5	28·9	67	..	7.3	..	11·5	0	4	26	1	0	0	0	1	9	13	6	1	0
	2330	,,	1003·2	1000·5	..	26·7	25·0	24·2	30·4	86	..	7·3	..	9·8	0	0	29	0	0	1	0	3	11	9	5	2	0
Nagarjunakonda	0830	126	..	..	..	27·8	23·5	21·4	25·5	69	..	7·2	..	22.1	0	19	12	1	0	0	0	0	8	17	5	0	0
	1730	,,	..	..	..	30·3	23·6	21·9	26·3	62	..	6·6	..	18·1	0	12	19	0	0	0	0	0	9	19	3	0	0
Masulipatam	0830	3	1003·9	1003·6	−0·2	27·6	25·3	24·2	30·4	82	+4	7.3	+1.1	4·5	0	0	31	0	0	0	0	4	17	10	0	0	0
	1730	,,	1000·8	1000·5	..	29·6	26·0	24·5	30·7	74	..	7·2	..	5·8	0	0	31	0	0	1	0	8	9	11	2	0	0
Ongole	0830	12	1004·1	1002·8	..	28·8	24·8	22·9	28.1	71	..	6·9	..	5·5	0	0	29	0	0	0	1	2	2	16	9	2	0
	1730	,,	1000.7	999·4	..	32·1	25·7	22·5	27·7	56	..	7·3	..	3·8	0	0	27	0	0	0	3	1	7	11	5	4	0
Nellore	0530	20	1003·2	1001·0	..	26·5	23·9	22·9	27·6	80	..	7·6	..	1·1	0	0	10	0	0	0	0	0	5	5	0	21	0
	0830	,,	1004·9	1002·7	−0·1	28·1	24·5	22·8	27·7	73	+10	7·5	+1.2	4·3	0	0	29	0	0	0	0	3	14	11	1	2	0
	1130	,,	1004·4	1002·2	..	31·7	24·8	21·5	25·6	55		7·2	..	6·0	0	0	31	0	0	0	0	0	18	10	3	0	0
	1730	,,	1001·4	999·2	..	32·1	25·3	22·1	26·6	57	..	7·6	..	4·3	0	0	31	2	0	1	3	2	11	8	4	0	0
	2330	,,	1004·5	1002·3	..	27·3	24·6	23·3	28.6	80	..	7·1	..	3·2	0	0	23	0	0	0	1	0	13	7	2	8	0
Telangana																											
Ramgundam	0830	156	1001·8	984·3	−1·1	26·1	23·9	23·0	27·9	83	+4	7·4	+0.6	4·1	0	0	23	1	0	0	0	5	5	11	1	8	0
	1730	,,	998·6	981·3	..	28·9	25·4	23·8	29·7	75	..	7·7	..	4·3	0	0	26	7	0	0	0	0	4	11	4	5	0
Nizamabad	0830	381	1002.7	960·3	−0·8	24·6	22·8	21·9	26·3	85	+8	7·4	+2.1	1·8	0	0	24	0	0	0	0	4	18	2	0	7	0
	1730	,,	998·7	957·0	..	28·3	24·4	22·6	27·3	72	..	6·9	..	1·4	0	0	20	0	0	0	0	2	13	4	1	11	0
Hanamkonda	0830	269	1002·8	972·9	−0·7	25·8	23·7	22·6	27·6	83	+9	7·0	+0.8	2·9	0	0	31	0	0	0	0	2	7	18	4	0	0
	1730	,,	999·0	970·3	..	28·5	24·9	23·2	28·6	74	..	6·8	..	3·3	0	0	30	0	0	0	0	5	2	17	6	1	0
Hakimpet Aerodrome	0530	613	1002·2	934·7	..	22·3	21·0	20·3	23·8	89	..	7·6	..	22·9	0	21	10	0	0	0	0	0	9	19	3	0	0
	0830	,,	1002·9	935·5	..	23·3	21·4	20·5	24·1	85	..	7·6	..	25.2	0	24	7	0	0	0	0	8	22	1	0	0	
	1130	,,	1002·4	935·6	..	25·8	22·3	20·7	24·4	74	..	7·4	..	28·1	0	23	8	0	0	0	0	8	20	3	0	0	
	1730	,,	1000·3	933·7	..	26·0	22·4	20·6	24·3	73	..	7·0	..	24·9	0	19	12	0	0	0	0	9	19	3	0	0	
Bhadrachallam	0830	111	1003·2	990·8	−0·7	26·1	24.3	23.5	28.9	86	+4	7·3	+0.1	6·5	0	0	31	1	0	17	0	0	7	6	0	0	0
	1730	,,	999.5	987.2	..	28.8	25.4	24.0	29.8	76	..	7·6	..	3.0	0	0	31	0	0	16	0	2	4	7	2	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*contd.* Hyderabad (Begampet)—	0230	545	1001·9	941·8	..	23·0	21·2	20·3	23·7	85	.	7·4	..	17·2	0	14	17	0	0	0	0	0	6	22	3	0	0
	0530	,,	1002·0	941·9	..	22·7	21·1	20·4	23·7	87		7·8	..	17·9	0	14	17	0	0	0	0	0	6	21	4	0	0
	0830	,,	1003·4	943·4	—0·5	23·8	21·6	20·6	24·0	83	+2	7·9	+1·5	18·6	0	16	15	0	0	0	0	0	7	21	3	0	0
	1130	,,	1002·9	943·4	..	26·2	22·4	20·5	24·0	71	..	7·7	..	21·4	0	20	11	0	0	0	0	0	6	22	3	0	0
	1730	,,	999·8	940·5	..	26·6	22·5	20·6	23·8	71	..	7·3	..	23·3	0	20	10	1	0	0	0	0	5	20	4	1	0
	2330	,,	1003·2	943·2	..	23·8	21·6	20·6	24·0	83	..	7·5	..	17·8	0	15	16	1	0	0	0	0	6	20	4	0	0
Khammam	0830	112	1003·2	990·6	..	25·9	24·3	23·7	29·3	87	..	7·6	..	9·1	0	0	28	0	0	0	0	0	7	19	2	3	0
	1730	,,	999·6	987·1	..	29·7	25·9	24·2	30·2	73	..	7·3	..	9·1	0	5	24	1	0	0	0	0	6	17	5	2	0
Mahbubnagar	0830	505	1004·3	948·3	..	23·5	22·0	21·3	25·3	88	..	7·9	..	9·9	0	0	31	0	0	0	0	0	15	11	5	0	0
	1730	,,	1001·0	945·6	..	26·1	23·1	21·8	26·1	78	..	7·6	..	7·5	0	1	30	0	0	0	0	0	11	16	4	0	0
Rayalaseema Kurnool	0830	281	1004·9	973·5	—0·5	25·8	23·2	22·0	26·3	80	+8	7·6	+1·3	17·0	0	10	21	0	0	0	0	0	10	20	1	0	0
	1730	,,	1001·3	970·3	..	28·9	24·0	21·5	25·9	66	..	6·3	..	28·6	0	22	8	0	0	0	0	0	1	22	7	1	0
Anantapur	0530	350	1004·1	965·0	..	24·3	21·5	20·0	23·4	77	..	7·7	..	16·6	0	10	21	0	0	0	0	0	4	27	0	0	0
	0830	,,	1005·1	966·3	—0·5	26·1	22·1	20·0	23·2	69	—4	7·6	+1·2	19·6	0	15	16	0	0	0	0	0	11	20	0	0	0
	1130	,,	1004·4	966·1	..	29·6	22·8	19·2	22·2	54	..	7·4	..	25·7	0	28	3	0	0	0	0	0	2	26	3	0	0
	1730	,,	1001·9	963·6	..	29·2	22·6	19·1	22·0	56	..	7·4	..	27·1	0	24	7	0	0	0	0	0	2	25	4	0	0
	2330	,,	1005·5	966·6	..	25·5	21·8	19·8	23·1	71	..	7·2	..	20·1	0	18	13	0	0	0	0	0	4	26	1	0	0
Cuddapah	0830	130	1005·6	991·0	—0·5	28·0	23·9	21·8	26·3	70	+5	6·7	+0·5	2·5	0	0	15	0	0	0	0	0	0	15	0	16	0
	1730	,,	1001·7	987·4	..	31·3	24·4	20·9	25·0	56	..	6·5	..	6·6	0	0	26	0	0	0	0	0	0	20	6	5	0
Arogyavaram	0830	701	1005·9	929·2	..	23·6	20·4	18·8	21·3	74	..	7·8	..	14·3	0	5	26	1	0	0	0	0	7	16	7	0	0
	1730	,,	1001·9	926·7	..	27·3	21·6	18·7	21·0	61	..	7·5	..	17·0	0	9	22	3	0	0	0	1	3	16	8	0	0
Madras State Madras	0830	6	1006·0	1005·3	..	27·6	24·3	22·7	27·6	75	..	7·3	..	6·6	0	0	31	0	0	0	0	2	24	5	0	0	0
Madras (Minambakkam)	0230	16	1004·4	1002·6	..	26·5	23·9	22·6	27·4	80	..	7·4	..	10·1	0	2	29	0	0	0	0	11	15	5	0	0	0
	0530	,,	1004·7	1002·9	..	26·3	23·9	22·8	27·7	82	..	7·4	..	8·5	0	1	29	0	0	0	0	8	16	6	0	1	0
	0830	,,	1006·1	1004·4	+0·3	27·8	24·5	23·0	28·1	76	+14	7·5	+1·8	10·3	0	0	31	0	0	0	0	9	17	5	0	0	0
	1130	,,	1005·5	1003·8	..	31·1	24·8	21·8	26·1	59	..	7·3	..	17·9	0	11	20	0	0	0	0	5	15	10	1	0	0
	1730	,,	1002·6	1000·9	..	31·4	25·4	22·7	27·6	61	..	7·4	..	13·9	0	5	26	1	0	0	5	11	8	4	2	0	0
	2330	,,	1005·8	1004·1	..	27·0	24·3	23·0	28·1	81	..	6·9	..	11·8	0	3	28	0	0	1	0	11	15	3	1	0	0
Vellore	0530	214	1004·8	930·8	..	25·4	23·1	21·9	26·3	81	..	7·7	..	1·7	0	0	11	0	0	0	0	0	5	6	0	20	0
	0830	,,	1006·0	982·1	0	27·4	23·8	22·0	26·6	73	+6	7·4	+2·6	4·6	0	0	30	0	0	0	0	0	21	9	0	1	0
	1130	,,	1005·4	981·7	..	30·3	25·2	22·8	23·9	65	..	7·6	..	7·7	0	0	31	0	0	0	0	0	14	17	0	0	0
	1730	,,	1002·2	978·6	..	30·0	25·2	22·9	28·1	67	..	7·2	..	4·6	0	0	21	0	0	0	0	0	16	5	0	10	0
	2330	,,	1006·0	982·0	..	26·7	24·0	22·7	27·6	80	..	7·8	..	4·5	0	0	16	0	0	0	0	0	10	6	0	15	0
Tambaram (Aerodrome)	0830	29	1005·8	1002·6	..	27·6	24·5	23·0	28·3	77	..	7·4	..	13·4	0	2	29	0	0	0	0	1	16	13	1	0	0
	1730	,,	1002·6	999·4	..	31·5	25·6	22·8	27·9	60	.	7·4	..	18·4	0	13	18	0	0	0	3	8	9	8	3	0	0
Tiruppattur	0830	300	1006·5	963·1	..	25·0	22·4	21·0	25·0	79		7·5	..	3·9	0	0	27	10	1	3	0	8	2	2	0	4	1
	1730	,,	1002·9	960·2	..	28·8	23·4	20·6	24·4	63	..	7·6	..	9·4	0	3	26	8	2	0	3	12	0	4	0	2	0
Cuddalore	0530	12	1004·9	1003·6	..	26·3	24·3	23·1	28·4	83	..	6·8	..	8·3	0	2	26	0	0	0	2	8	17	1	0	3	0
	0830	,,	1006·6	1005·3	0	27·8	24·7	23·3	28·6	77	+8	7·5	+2·4	7·4	0	0	30	0	0	0	1	6	22	1	0	1	0
	1130	,,	1006·1	1004·8	..	31·7	25·4	22·5	27·3	59	..	7·3	..	14·1	0	9	22	0	0	0	0	5	25	1	0	0	0
	1730	,,	1002·9	1001·6	..	31·2	25·8	23·4	28·9	65	..	7·5	..	11·6	0	5	26	0	0	0	14	2	12	3	0	0	0
	2330	,,	1006·1	1004·8	..	27·4	24·9	23·7	29·3	81	..	7·1	..	11·7	0	6	19	0	0	0	3	11	10	1	0	6	0
Kallakkurichchi	0830	127	1006·3	992·1	..	28·2	23·7	21·4	25·6	67	..	6·3	..	10·1	0	3	23	0	0	0	0	0	26	0	0	5	0
	1730	,,	1002·5	988·5	..	32·8	24·4	20·1	23·7	48	..	6·8	..	12·8	0	3	28	0	2	0	2	0	26	0	1	0	0
Salem	0530	278	1005·9	974·1	..	24·0	22·0	21·0	24·9	83	..	7·5	..	3·6	0	0	24	0	0	0	0	8	14	2	0	7	0
	0830	,,	1007·3	976·1	—0·3	25·4	22·6	21·1	25·2	77	0	7·6	+2·1	5·1	0	0	31	0	0	0	0	12	15	4	0	0	0
	1130	,,	1006·4	975·6	..	29·3	23·4	20·3	23·8	59	..	7·6	..	7·0	0	0	31	0	0	0	0	10	14	7	0	0	0
	1730	,,	1003·6	972·9	..	28·7	23·5	20·8	24·9	64	.	7·8	..	6·6	0	0	28	0	0	0	1	2	8	15	2	3	0
	2330	,,	1007·0	975·9	..	25·5	22·6	21·1	25·0	76	..	5·9	..	4·0	0	0	21	0	0	0	0	6	12	3	0	10	0
Coimbatore (Pilamedu)	0530	399	1006·7	961·9	..	21·9	21·2	20·8	24·7	93	.	7·5	..	18·8	0	14	17	0	0	0	0	1	25	5	0	0	0
	0830	,,	1007·9	963·2	..	23·3	22·0	21·4	25·3	89	..	7·0	..	24·7	0	23	8	0	0	0	0	2	25	4	0	0	0
	1130	,,	1007·3	963·1	..	25·8	23·2	22·0	26·3	80	..	6·8	..	32·3	0	28	3	0	0	0	0	3	26	2	0	0	0
	1730	,,	1005·3	961·0	..	24·7	22·8	21·8	26·3	84	..	7·0	..	31·0	0	29	2	0	0	0	0	0	29	2	0	0	0
	2330	,,	1008·1	963·3	..	22·6	21·7	21·2	25·3	91	..	6·7	..	28·9	0	26	5	0	0	0	0	5	26	0	0	0	0
Coimbatore	0830	409	1008·0	962·3	0	23·3	21·6	20·7	24·4	86	+6	7·8	+2·9	20·5	0	23	8	0	0	0	1	15	15	0	0	0	0
	1730	,,	1005·3	960·0	..	25·0	22·4	21·1	25·0	80	..	7·8	..	19·2	0	16	15	0	0	0	0	11	15	5	0	0	0
Nagapattinam	0830	9	1007·6	1006·5	+0·5	28·0	24·5	22·9	27·9	74	+9	7·5	+2·9	10·8	0	1	30	0	0	0	0	2	18	10	1	0	0
	1730	,,	1004·2	1003·1	..	30·3	25·4	23·2	28·3	67	..	6·8	..	16·6	0	12	19	0	0	0	3	12	15	1	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Tiruchirappalli	0230	88	1005·8	995·9	..	26·5	22·9	21·0	25·0	72	..	6·1	..	15·9	0	8	19	0	0	0	0	0	4	22	1	4	0
	0530	,,	1006·0	996·1	..	25·9	22·5	20·8	24·6	74	..	7·4	..	15·1	0	9	19	0	0	0	0	1	6	19	2	3	0
	0830	,,	1007·4	997·5	0	27·8	23·4	21·2	25·2	68	+0·9	7·2	+2·2	17·2	0	13	17	0	0	0	0	0	6	22	2	1	0
	1130	,,	1006·6	996·8	..	31·6	24·1	20·3	23·8	52	..	6·8	..	23·3	0	18	13	0	0	0	0	0	6	23	2	0	0
	1730	,,	1003.9	994.2	..	31·6	24·2	20·5	24·1	53	..	7·4	..	24·9	0	19	11	0	0	1	1	3	7	14	4	1	0
	2330	,,	1007·2	997.3	..	27·3	23·2	21·0	25·0	69	..	5·9	..	20·6	0	17	11	0	0	0	0	1	6	20	1	3	0
Vedaranniyam	0830	4	1007·7	1007·2	..	28·5	25·0	23·4	28·9	74	..	6·8	..	13·2	0	5	25	0	0	0	0	3	25	1	1	1	0
	1730	,,	1004·6	1004·1	..	29·1	25·4	23·8	29.3	74	..	6·5	.	17·5	0	11	20	0	0	0	0	9	21	0	1	0	0
Adirampattinam	0830	6	1007·2	1006·5	..	28·2	24·6	22·9	27·9	73	..	6.7	..	10·9	0	2	29	0	0	0	0	5	15	6	5	0	0
	1730	,,	1004·5	1003·8	..	29·2	25·9	24·4	30·7	76	..	6·7	..	25·7	0	26	5	0	0	0	0	10	19	1	1	0	0
Madurai	0830	133	1007·3	992·4	−0·1	28·1	23·2	20·8	24·4	65	+8	7·5	+1·8	5.9	0	0	30	2	1	0	0	0	8	1	18	1	0
	1730	,,	1003·9	989·3	..	32·3	23·5	18·9	21·7	45	..	7·8	..	10.9	0	2	29	0	1	0	2	1	16	3	8	0	0
Madurai Aerodrome	0530	131	1006·2	991·3	..	25·7	22·4	20·8	24·4	75	..	6·9	..	7·0	0	1	18	3	0	0	1	1	6	9	0	12	0
	0830	,,	1007·3	992·6	..	28·1	23·1	20·5	24·3	63	..	7·2	..	10.0	0	2	26	7	0	0	0	1	11	8	1	3	0
	1130	,,	1006·6	992·1	..	32·1	23·7	19·2	22·4	47	..	7·1	..	18·0	0	12	18	4	0	0	0	0	8	18	0	1	0
	1730	,,	1003·9	989·4	..	31·9	23·6	19·2	22·4	47	..	7·3	.	21·9	0	19	11	1	0	0	0	2	4	23	0	1	0
Tondi	0830	5	1007·8	1007·2	..	28·2	24·7	23·2	28·3	74	..	6·7	..	9·2	0	3	17	0	0	0	3	4	8	0	0	11	0
	1730	,,	1004·7	1004·1	..	29·3	26.1	24·7	31·1	77	..	6·9	..	26·9	0	22	8	0	0	0	5	16	8	1	0	1	0
Pamban	0830	11	1007·8	1006·5	+1·0	27·6	25·8	24·9	31·7	85	+10	5·0	+2·0	15·4	0	7	22	0	0	0	0	3	25	1	0	2	0
	1730	,,	1005·2	1003·9	..	28·2	26·1	25·3	32·2	84	..	5·1	..	11·9	0	2	29	0	0	0	2	9	20	0	0	0	0
Tuticorin	0830	4	1008·2	1007·8	+0.1	28·9	24·4	22·2	26·9	68	+1·0	5·5	+1·4	14·2	0	7	24	0	1	0	0	1	10	18	1	0	0
	1730	,,	1005·4	1005·0	..	31·2	24·7	21·6	25·8	53	..	6·7	..	21·5	0	17	14	0	0	0	0	4	7	20	0	0	0
Palayamkottai	0830	51	1008·1	1002·4	+0.3	28·6	23·5	21·0	24·7	64	+5	6·6	+1·8	7·3	0	1	28	2	0	0	0	2	2	23	0	2	0
	1730	,,	1005·6	999·9	..	30·1	23·8	20·6	24·4	57	..	6·9	..	13·5	0	6	25	0	0	0	0	2	4	23	2	0	0
Kanniyakumari	0830	37	1008·9	1004·7	..	25·6	24·0	23·2	28·6	87	..	6·4	..	15·7	0	7	24	0	0	0	0	0	2	24	5	0	0
	1730	,,	1007·0	1002·9	..	26·4	24·4	23·5	28·9	85	..	6·6	..	15·7	0	8	23	0	0	0	0	0	3	26	2	0	0
Coastal Mysore																											
Karwar	0830	4	1006·4	1005·9	−0.1	25·8	24·8	24·2	30·5	91	+3	7·7	+0·1	14·2	0	11	16	0	0	0	3	1	5	4	5	4	9
	1730	,,	1005·3	1004.8	..	26·1	24·9	24·3	30·5	90	..	7·8	..	14·5	0	9	21	0	0	0	0	3	10	9	6	1	2
Honavar	0830	26	1007·0	1004·1	−1·2	24·5	23·9	23·6	29·1	95	+4	8·0	+1·0	8·1	0	2	26	1	0	4	0	6	10	5	2	3	0
	1730	,,	1005·7	1002·9		25·6	24·5	24·1	30·0	92	..	7·9	..	9·9	0	4	27	0	0	1	0	10	9	8	3	0	0
Mangalore (Bajpe)	0230	102	1006·8	995·2	.	23·4	23·1	22·9	27·9	96	..	7·8	..	8·5	0	3	18	0	0	2	6	0	5	8	0	10	0
	0530	,,	1006·6	995·0	..	23·5	23·2	23·0	28·1	96	..	8·0	..	8·1	0	3	20	0	0	3	5	1	7	7	0	8	0
	0830	,,	1008·0	996.5	..	24·3	23·7	23·4	28·8	95	..	7.8	..	6·8	0	1	24	0	0	1	7	2	2	11	1	6	1
	1130	,,	1008.4	996·8	..	25·6	24·4	23·8	29·5	90	..	7·9	..	11·0	0	4	26	0	2	2	3	4	7	8	4	1	0
	1730	,,	1006·4	994·9	..	24·6	23·6	23·2	28·4	92	..	7·9	..	8·4	0	2	25	0	0	0	3	2	7	10	5	4	0
	2330	,,	1008·6	997·0	..	23·7	23·2	23·0	28·1	96	..	7·8	..	9·4	0	3	24	0	0	1	9	3	7	4	3	4	0
Mangalore	0830	22	1008·1	1005·6	−0·3	25·0	24·2	23·9	29·7	93	+3	7·8	+0·8	3·6	0	0	31	0	0	2	7	3	12	4	2	0	1
	1730	,,	1006·5	1004·1	..	25·2	24·2	23·8	29·5	92	..	8·0	..	6·7	0	0	31	1	0	1	3	4	4	10	7	0	1
Interior Mysore (North)																											
Bidar	0830	664	1002·7	929·7	..	22·4	21·2	20·6	24·3	90	+8	7.6	+1·8	27·1	0	27	4	0	0	0	0	0	28	3	0	0	0
	1730	,,	999.3	927·2	..	25·4	22·1	20·5	24·1	75	..	7.4	..	24·5	0	21	10	1	0	0	0	0	21	6	3	0	0
Gulbarga	0830	458	1003·9	953·1	−0·9	24·4	22.5	21·6	25·8	85	+6	7·9	+2·1	13·4	0	4	27	0	0	0	0	2	13	15	1	0	0
	1730	,,	1000·3	950·1	..	26·8	23·1	21·4	25·5	74	..	8·0	..	16·5	0	11	20	1	0	0	0	0	4	25	1	0	0
Bijapur	0830	594	1004·1	938·1	−1·6	23·1	21·9	21·3	25·3	90	+13	7·8	+1·7	8·9	0	0	30	1	0	0	0	0	14	14	1	1	0
	1730	,,	1001·3	936·5	..	25·8	22·5	21·1	25·0	76	..	7·8	..	7·3	0	0	31	0	0	0	0	0	0	31	0	0	0
Raichur	0830	400	1004·3	959·9	−1.1	24·5	22·4	21·4	25·5	82	+8	7·6	+2·8	11·0	0	5	24	0	0	0	0	2	19	5	3	2	0
	1730	,,	1001·3	957·5	..	27·9	23·5	21·2	25·2	69	..	7·8	..	14·1	0	5	26	0	2	0	0	0	20	2	6	0	1
Belgaum	0830	753	1005·1	922·5	−1·1	21·5	20·9	20·6	24.3	95	+7	8·0	+0·6	11·4	0	1	30	0	0	0	0	0	0	30	1	0	0
	1730	,,	1003·5	921·3	..	22·1	21·1	20·6	24·3	92	..	8·0	..	12·3	0	2	29	0	0	0	0	0	1	22	8	0	0
Belgaum (Samra)	0530	747	1004·2	922·0	..	20·9	20·2	19·9	23·2	94	..	7·8	..	19·9	0	11	20	0	0	0	0	0	2	27	2	0	0
	0830	,,	1005·3	923·4	..	21·8	20·9	20.4	24·0	92	..	7·9	..	18·1	0	7	24	0	0	0	0	0	3	25	3	0	0
	1130	,,	1005·3	923·7	..	23·0	21·4	20·7	24·4	87	..	7·7	..	19·8	0	9	22	0	0	0	0	0	3	24	4	0	0
	1730	,,	1003·8	922.1	..	22·3	21·0	20·3	23·8	89	..	8·0	..	19·5	0	8	23	0		0	0	0	1	27	3	0	0
Gadag	0530	649	1004·5	932·7	..	21·2	20·8	20·6	24·3	96	..	7·8	..	15·3	0	7	24	0	0	0	0	0	7	24	0	0	0
	0830	,,	1005·6	934·0	−0·7	22·6	21.6	21·0	24·9	91	+8	7·9	+1.5	14·7	0	8	23	0	0	0	0	0	8	23	0	0	0
	1130	,,	1005·2	934·1	..	24·8	22·5	21·4	25·5	81	..	7·8	..	15·8	0	10	21	0	0	0	0	0	8	23	0	0	0
	1730	,,	1003·6	932·5	..	24·0	21·9	20·9	24·7	84	..	7·9	..	21·1	0	16	15	0	0	0	0	1	7	22	1	0	0
	2330	,,	1006·2	934.5	..	21·7	21·2	20·9	24·7	95	..	7·9	..	16·5	0	12	19	0	0	0	0	0	11	20	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*contd.*																											
Bellary	0830	449	1004·9	955·2	−0·9	25·4	23·4	22·4	27·1	84	+10	8·0	+2·1	9.2	0	0	29	0	0	0	0	0	1	4	24	2	0
	1730	,,	1002·0	952·8	..	27·6	24.9	23·6	29·1	79	..	7·7	..	9.8	0	0	31	0	0	0	0	0	1	8	22	0	0
Chitradurga	0830	733	1005·9	925·3	−0·8	21·4	20·4	19·9	23.2	91	+10	7·2	+0·1	9·4	0	0	31	0	0	0	0	1	9	21	0	0	0
	1730	,,	1003·8	923.9	..	23·5	21.2	20.0	23·4	82	..	7.5	..	9.5	0	0	31	0	0	0	0	0	6	25	0	0	0
Shimoga	0830	571	1006·5	943·3	−0·9	22·7	21·4	20·8	24·6	90	+2	8·0	+0·6	5 8	0	0	29	0	0	0	0	2	25	2	0	2	0
	1730	,,	1004·5	941·6	..	23·3	21·5	20·7	24·4	85	..	8·0	..	6·2	0	0	27	0	0	0	0	4	21	2	0	4	0
Balehonnur	0830	890	..	..	..	19·6	19·3	19·0	22·0	97	+3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1474·8	902·6	..	20·1	19·6	19·3	22·4	95	+10	7·7	+0 7	8·0	0	1	30	0	0	0	0	0	9	22	0	0	0
	1730	,,	1464·0	901·2	..	21·1	19·9	19·3	22·4	89	..	7·6	..	8·2	0	0	31	0	0	0	0	0	6	25	0	0	0
Bangalore	0230	921	1463·0	905·5	..	19·7	19·1	18·8	21·7	94	..	7·4	..	12·5	0	2	29	0	0	0	0	0	8	23	0	0	0
	0830	,,	1475·0	906·7	−0·4	20·2	19·4	19 0	22·0	93	+8	8.0	+0·9	13·4	0	3	28	0	0	0	0	0	13	18	0	0	0
	1130	,,	1480 8	906·7	..	23·6	20·6	19.0	22 0	76	..	7·9	..	20·4	0	19	12	0	0	0	0	0	8	21	2	0	0
	1730	,,	1461·3	904·7	..	23·1	20·3	18·9	21·8	78	..	7·8	..	17·0	0	10	21	0	0	0	0	0	7	24	0	0	1
Bangalore Aerodrome	0530	897	1460·5	907·9	..	19·5	19·3	19·1	22·1	97	..	7·6	.	19 4	0	13	18	0	0	0	0	0	14	17	0	0	0
	0830	,,	1474·5	909·1	..	20·7	19·9	19·6	22·8	93	.	8·0	..	23 9	0	9	22	0	0	0	0	0	17	14	0	0	0
	1130	,,	1480·7	909·1	..	24·2	21·5	20·1	23·5	78	..	7·7	..	27·1	0	22	9	0	0	0	0	0	14	17	0	0	0
	1730	,,	1460·6	907·1	..	23·7	21·4	20·3	23 8	82	..	7·7	..	25·5	0	7	24	0	0	0	0	0	11	20	0	0	0
	2330	,,	1475·9	909·4	..	20·4	19·9	19·6	22·8	95	..	6·8	..	19·5	0	11	20	0	0	0	0	0	13	18	0	0	0
Mysore	0830	767	1007·6	923·1	−0·8	21·4	20·2	19 4	22.5	88	+8	7·0	+0·4	6·8	0	0	29	0	1	5	0	1	6	13	3	2	0
	1730	,,	1005·1	921·8	..	24·4	21·1	19·4	22·5	74	..	7·2	..	6·1	0	0	30	0	1	2	0	1	3	20	3	1	0
Kerala																											
Calicut	0530	5	1008·1	1007·5	..	23·5	23.1	22·9	27·9	96	..	8·0	..	12·2	0	5	24	1	8	8	2	0	3	2	5	2	0
	0830	,,	1009·5	1008·9	0	24·3	23·7	23·4	28·8	94	+2	7·5	+0·4	8·3	0	1	24	2	4	9	0	2	4	3	1	6	0
	1130	,,	1009·6	1009·0	..	25·8	24·6	24·0	29·8	90	..	7·5	..	10·9	0	3	27	2	4	1	2	4	7	6	4	1	0
	1730	,,	1007·5	1006·9	..	25·8	24·5	24·0	29·8	90	..	7·5	..	12·6	0	5	24	3	4	1	1	1	9	5	5	2	0
	2330	,,	1009·8	1009·2	..	24·3	23·7	23·4	28·8	95	..	7·2	..	12·8	0	6	20	3	4	4	0	0	6	4	5	5	0
Palghat	0830	97	1009·1	998·0	..	23·7	23·0	22·7	27·6	94	..	7.8	..	10·3	0	0	31	0	0	0	0	0	5	23	3	0	0
	1730	,,	1006·7	995·7	..	25·2	23·9	23·4	28 8	89	..	7·8	..	11·1	0	0	31	0	0	0	0	0	8	19	4	0	0
Fort Cochin	0830	3	1009·7	1009·4	−0·4	25·2	24·5	23·8	29 5	92	+5	7 9	+1·3	5·6	0	1	29	2	4	6	5	1	6	4	2	1	0
	1730	,,	1007·3	1007·0	..	26·1	24·6	23·9	29·7	68	..	7·7	..	5·7	0	0	31	1	1	3	2	1	8	10	5	0	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	24·5	24·0	23·7	29·3	95	..	7 5	..	6 8	0	0	21	0	1	3	2	1	6	3	5	10	0
	0530	,,	1008·5	1008·2	..	24·1	23·6	23·3	28·6	95	..	7·6	..	6·5	0	3	18	3	1	5	2	1	7	1	1	10	0
	0830	,,	1009·7	1009·4	..	25·0	24·0	23·6	29·1	92	..	7·7	..	6·1	0	0	26	1	2	10	6	1	2	2	2	5	0
	1130	,,	1009·9	1009·6	..	26·8	24·7	23·7	29·3	84	..	7·4	..	8·4	0	0	29	3	1	2	2	6	5	6	4	2	0
	1730	,,	1008·0	1007·7	..	26·5	24·6	23·8	29·5	86	..	7·5	..	11·0	0	1	27	1	0	3	2	1	10	6	5	3	0
	2330	,,	1010·1	1009·8	..	24·9	24·1	23·8	29·4	93	..	7 4	..	5·1	0	0	17	1	0	4	0	2	5	1	4	14	0
Alleppey	0830	4	1009·5	1009·1	−0·2	25·2	24·6	24 2	30·2	94	+3	7·5	+0·3	12·6	0	8	20	2	3	7	2	0	2	6	6	3	0
	1730	,,	1007·8	1007·4	..	26·4	24.8	24·1	30·0	87	..	7·2	..	16·5	0	10	20	2	1	0	1	0	0	6	20	1	0
Punalur	0830	34	1009·2	1005·3	..	24·2	23·6	23·3	28·6	94	..	7·7	..	1·4	0	0	14	2	1	3	2	1	2	1	2	17	0
	1730	,,	1007·3	1003·5	..	26 6	24 4	23·3	28·6	83	..	7·2	..	4·5	0	0	26	2	1	0	1	1	9	4	8	5	0
Trivandrum	0230	64	1008·6	1001·2	..	23·9	23·4	23·1	28·3	95	..	5·9	..	6.6	0	0	30	12	2	1	0	0	2	4	9	1	0
	0530	,,	1008·5	1001·1	..	23.7	23·3	23·1	8·3	96	..	6.3	..	6·1	0	0	28	14	1	0	0	0	1	4	8	3	0
	0830	,,	1009·8	1002·4	−0 2	24·9	23·9	23·4	28·8	91	+4	6·1	−0·7	6·3	0	0	30	7	6	1	1	0	5	0	10	1	0
	1130	,,	1009.5	1002·3	..	27.0	24.7	23.7	29.3	82	..	6·8	..	8·7	0	0	31	2	0	0	0	0	4	10	15	0	0
	1730	,,	1007·8	1000·5	..	26·5	24·4	23·5	28.9	84	..	6·3	..	9·0	0	0	31	4	0	1	0	0	2	7	17	0	0
	2330	,,	1010·1	1002·8	..	24·2	23·6	23·3	28·6	94	..	5·7	..	6.8	0	0	29	12	0	2	0	0	0	4	11	2	0
Trivandrum Aerodrome.	0830	8	1009·7	1008·8	..	25·7	24·2	23·5	28·9	88	..	6·9	..	4·9	0	0	20	9	2	1	0	0	2	2	4	11	0
Arabian Sea Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1369.1	794·1	−1·0	18.6	17·6	17·0	19·0	91	+5	..	..	1.8	0	0	16	0	6	2	5	0	3	0	0	15	0
	1730	,,	1359·4	793·4	..	20·7	19·0	18·2	21·0	87	.	..	..	2·3	0	0	23	1	4	4	8	0	2	1	3	8	0
Dharmsala	0830	1211	1554·0	884·4	+7·8	23·3	21·3	20·1	23·7	84	+4	6·6	+1.1	3·5	0	0	31	0	10	5	6	0	5	4	1	0	0
	1730	,,	1552·3	884·4	..	25·2	22·6	21·6	25.5	8	..	6·	..	5·0	0	0	31	1	4	2	4	0	12	4	4	0	0

*Date given as addenda in December, 1961 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —*(contd.)*																											
Simla	0830	2202	1427·5	777·2	+0.2	17·5	16·7	16.2	18·3	92	+12	7·0	+0·7	3 1	0	0	31	2	5	2	9	5	5	1	2	0	0
	1730	„	1409·9	776·0	..	19·0	18 0	17·6	19·6	91	..	7·3	..	3·2	0	0	31	2	4	1	7	5	5	3	4	0	0
Lokpal	0830	..	..	..	..	6·7	5·6	4·6	8·9	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath(R)	0830	..																									
Joshimath	0830	..	..	..	..	19·8	18·7	18·3	21·0	90	..	7·1	..	2·7	0	0	15	5	4	2	0	1	1	6	6	6	0
	1730	..	..	..	..	22·5	19.2	17·7	20·0	75	..	7 2	..	3·7	0	0	29	1	2	3	1	1	7	9	5	2	0
Mussoorie	0830	2042	1420·1	791·1	—1·3	18·1	17·6	17·2	19·6	95	+2	7·5	+0·5	0·4	0	0	3	1	0	0	0	1	0	0	1	28	0
	1730	„	1400·5	789·5	..	19·1	18·6	18·3	21·0	96	..	7·6	..	1·0	0	0	10	1	0	0	4	4	1	0	0	21	0
Dakteswar(Kumaun)	0830	2311	3095·7	768·3	+0·1	16·8	16·2	16·1	18·3	94	+4	7·2	+0·6	11·0	0	2	26	0	6	9	2	0	2	7	2	3	0
	1730	„	3085·3	766·8	..	18·6	17·6	17·2	19·6	92	..	6·4	..	11·0	0	2	26	0	2	3	1	1	8	9	4	3	0
Nainital	0330	1953	1420·8	799·4	—0·2	18·5	17·5	16·8	19·0	91	+5	7·2	+0·3	8·9	0	2	25	0	2	12	12	0	0	0	1	4	0
	1730	„	1396·0	797·8	..	20·0	18·3	17·4	19·6	85	..	5·9	..	8·9	0	3	25	2	0	11	7	3	1	4	0	3	0
Walong (R)	830	..																									
(R)	1730	..																									
Kalimpong	0830	1209	1482.4	877.3	+4·4	22.8	20·9	20·1	23·5	85	6	1·8	—4·8	3.5	0	0	31	1	0	1	4	0	0	0	25	0	0
	1730	„	1478·1	876.9	..	22·9	20·7	19·7	22·9	82	..	2·1	..	3·6	0	0	31	1	1	1	24	0	0	0	4	0	0
Darjeeling	0830	2128	1460·1	787·1	+2·2	18·0	17·3	16·8	19·2	93	+4	7·3	+0·2	1·1	0	0	8	7	1	0	0	0	0	0	0	23	0
	1730	„	1445·9	785·2	..	17·9	17.3	16·6	19·5	93	..	7·4	..	1·0	0	0	7	2	1	0	1	0	0	2	0	24	1
Kohima	0830	1466	1504·1	859·7	..	21·5	20·1	19·2	22·5	90	..	5·7	..	..	..	..	..	6	2	3	7	0	1	1	11	0	0
	1730	„	1453·2	854·7	..	21·7	20·7	20·2	23·7	92	..	5·8	..	..	..	..	..	1	0	0	0	0	7	2	18	3	0
Shillong	0830	1500	1443·0	844·7	+0·3	22·1	19·7	18·4	21·1	80	—1	7·7	+0·4	0·9	0	0	6	0	0	1	2	2	1	0	0	25	0
	1730	„	1418·3	842·3	..	21·6	19·6	18·5	21·3	83	..	7·5	..	0·3	0	0	2	0	0	0	0	2	0	0	0	29	0
Cherrapunji*	0830	1313	1431·6	861·9	—1·2	20·3	19·7	19·3	22·4	93	+3	..	..	5·1	0	0	24	0	5	4	3	5	6	1	0	1	0
	1730	„	1416·5	860·6	..	21·1	20·2	19·7	22·9	92	..	..	..	4·6	0	0	25	1	3	3	2	6	8	1	0	0	1
Abu	0830	1195	1382·4	868·8	-4·4	20·6	20·1	19·9	22·9	96	+5	7·3	+0·2	2·4	0	0	13	0	0	1	0	6	6	0	0	18	0
	1730	„	1402·0	870·6	..	22·1	21·2	20·7	24·6	92	..	7·0	..	4·0	0	0	24	0	3	2	0	7	12	0	0	7	0
Aijal	0830	..	..	..	..	22·2	21·1	20·7	24·1	91	..	6·9	..	2·6	0	0	25	0	0	12	2	6	3	2	0	6	0
	1730	..	..	..	..	22·9	21·8	21·3	25·3	91	..	7·5	..	3·2	0	0	30	1	1	3	4	4	4	10	3	1	0
Pachmarhi	0830	1075	1422·7	885.0	—1·2	21·2	20.8	20·6	24·3	96	+8	7·7	+0·5	5·6	0	0	27	0	0	0	0	2	2	13	10	4	0
	1730	„	1405·9	883·1	..	23·0	21·9	21·3	25·3	91	..	7·4	..	5·1	0	0	26	0	0	0	0	2	3	14	7	5	0
Mahabaleshwar	0830	1382	1445·8	856.6	—1·7	17·9	17·8	17·8	20·2	99	+2	8·0	0	17·6	0	0	31	0	0	0	0	0	17	14	0	0	0
	1730	„	1433·6	855.4	..	18·1	18·1	18·1	20·8	100	..	8·0	..	11·4	0	0	31	0	0	0	0	0	29	2	0	0	0
Mercara	0830	1152	1482.3	883.6	+0·1	18·4	18·2	18·1	20·8	98	+3	7·5	—0·1	14.4	0	5	26	0	0	0	0	0	0	15	16	0	0
	1730	„	1469.6	882·3	..	18·5	18·3	18·3	21·0	98	..	7·9	..	14·0	0	4	27	0	0	0	0	0	0	22	9	0	0
Cotacamund	0830	2249	1485.6	777.5	+0·1	12·9	12·2	11·7	13·7	93	+4	7·2	+0·1	10·0	0	4	24	0	0	0	0	2	11	13	2	3	0
	1730	„	1470·5	776·6	..	13·7	12·7	12·1	14·1	90	..	7·7	..	11.3	0	5	25	0	0	0	0	2	12	14	2	1	0
Coonoor	0830	1747	1476.9	824.1	..	18·1	15·6	14·0	15·9	78	+9	7·1	+0·7	4·7	0	0	30	0	0	0	3	6	14	3	4	1	0
Kodaikanal	0830	2343	3128.3	769.4	+0·5	13·2	12·0	11·1	13·2	87	+10	7·6	+1·8	19·5	0	18	12	0	0	0	0	0	2	17	11	1	0
	1130	„	3136.3	769.5	..	15·5	13·5	12·2	14·2	82	..	7·7	..	18·3	0	16	12	0	0	0	0	0	2	14	12	3	0
	1730	„	3115·3	768·0	..	13·8	13·0	12·4	14·4	92	..	7·7	..	15·7	0	14	16	0	0	0	0	1	0	17	12	1	0
Nepal																											
Katmandu	0830	1324	1420·0	860·1	..	23·6	21·1	19·9	23·2	80	..	5·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	„	1422·1	859·7	..	26·8	22·5	20·5	24·1	68	..	5·5	..	0·1	0	0	1	0	0	0	0	1	0	0	0	30	0
	1730	„	1402·8	857·8	..	24·9	22·1	20·8	24·6	78	..	7·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	17·0	14·9	13·4	15·6	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchmen																											
Tilaiya	0830	..	..	..	..	27·5	25·0	24·2	29·5	83	..	6·1	..	..	0	0	28	1	1	16	3	0	1	5	0	3	1
	1730	..	..	..	..	28·3	25·5	24·1	30·5	79	..	6·2	..	..	0	0	26	0	0	11	6	1	1	2	2	5	3
Hazaribagh	0830	615	998·1	931·7	..	25·3	23·9	23·4	28·5	89	..	6·9	..	..	0	0	24	1	1	9	3	2	3	5	0	7	0
	1730	„	995·6	928·9	..	26·1	24·4	24·0	29·4	87	..	6·7	..	..	0	1	19	1	1	8	2	2	3	3	0	11	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6·8	..	..	0	6	25	0	0	15	10	1	0	5	0	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·6	..	..	0	3	28	2	1	14	7	1	1	4	1	0	0
Bokaro	0830	242	998·8	972·7	..	27·6	25·2	24·2	29 6	82	..	(e) 7·5	..	..	0	0	31	1	0	15	3	6	2	4	0	0	0
	1730	„	996·0	969·3	..	29·1	27·0	26·2	33 7	84	..	(e) 7·8	..	..	0	0	30	0	0	12	5	2	6	3	2	1	0
Maithon†	0830	..																									
	1730	..																									

O.B.S. 46 (a) *Observations for 25 days. (R) Register not received. (e) Mean of 25 days. † Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Damodar Catchment *contd.*—																											
Ramgarh	0830	..	..		..	27·5	25·1	24·1	29·6	82	..	6·5	..	2·5	0	0	17	3	1	12	0	0	0	0	1	14	0
	1730	..	..	..	..	27·9	25·4	23·9	30·7	79	..	7·1	..	3·5	0	1	28	0	2	14	3	2	7	0	1	2	0
Panchet Hill	0830	..	..	..	..	28·1	26·0	25·2	30·7	84	..	7.5	..	7.0	0	0	28	0	4	10	3	4	3	3	1	3	0
	1730	..	..	..	..	28·6	26·2	25·2	31·8	82	..	7·4	..	6·0	0	0	28	1	5	5	7	5	2	3	0	3	0
Durgapur	0830	..	..	..	..	27·7	26·1	25·4	32·5	88	..	7·1	..	6·1	0	0	31	1	0	0	10	18	2	0	0	0	0
	1730	...	..	..	..	28·8	26·4	25·3	32·4	82	..	6·6	..	6·0	0	0	31	0	1	1	5	14	9	1	0	0	0
Mahanadi Catchment																											
Ginabahar	0830	..		.	..	25·5	24·3	23·8	29·3	89	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	*0830	..	..	.	..	26·4	24·7	24·1	29·6	87	..	6·6	.	6.9	0	2	25	0	0	2	5	2	11	7	0	3	0
	*1130	1592	999·8	982.1	..	28·0	25·4	24·8	30·3	81	.	7·4	..	6·7	0	1	29	0	0	1	4	1	17	1	6	0	0
	†1730	,,	999·4	981.8	..	27·3	25·6	24·9	31·3	78	..	7·1	..	6·0	0	0	23	0	0	4	3	0	9	6	1	6	0
Bhimkund	0830	,,	997.2	979.5	..	26·0	24·4	23·8	29·4	74	..	6·3	..	1·5	0	0	9	0	0	0	2	1	2	3	1	22	0
	1730	..	..	.	..	26·5	24.1	22·7	27.9	82	.	6·3	..	2·2	0	0	13	1	0	0	1	0	6	3	2	18	0
Sonepur	0830	..	..	..	.	27·1	24·9	23·8	29·6	82	.	..	..	12·5	0	1	29	0	0	6	0	1	21	2	0	1	0
Khijrawan	0830	,,	..	..	..	25·9	23·4	22·5	27.3	82	.	6.7	..	(a) 10·9	0	3	27	0	0	3	2	1	11	13	0	0	0
	1730	..	..	..	..	26·1	23·7	22·3	26·9	81		7·0	..	10.7	0	2	27	2	1	1	1	0	17	7	0	2	0
Narbada Catchment																											
Bagra Tawa (R)	0830	..		..	..	..	.	..	..	..	.	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Punasa	0830	..	..	..	..	26·2	24·5	23·8	29·3	87	.	..	..	7·0	0	1	25	0	0	0	0	2	12	12	0	5	0
	1730	,,	..	..	..	29.0	25·3	23·7	29·3	74	.	..	..	6·0	0	0	23	0	0	1	0	1	9	10	2	8	0
Thikri	0830	..	..		..	26·5	25·2	24·6	31·1	89	..	7.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jharol (R)	0830																										
Daroi	0830	..	..	..	..	26·3	25·6	25·1	31·9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	29·1	26·4	25·3	32·2	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	19.2	18.3	17·8	20·4	93		6.6	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
	1730	..	..	..	..	20·8	19·5	18·6	21·7	89	..	5.9	..	.	..	..	..	.	..	.	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	26·0	23·8	22·9	27·9	83	..	6.6	..	1.0	0	0	9	2	2	1	2	2	0	0	0	22	0
	1130	,,	..	..	..	29·4	24·4	22·2	26·9	67	..	5.8	..	3.1	0	0	18	2	3	0	7	2	3	1	0	13	0
	1730	,,	..	..	..	30·8	24·8	22·2	26·9	62	..	5.4	..	5.4	0	0	24	0	0	3	9	8	3	1	0	7	0
Gandak Catchment																											
Jomosom	0830	..	..	..	..	20·3	15·8	13·5	15·5	65		.	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	.	19·6	16·0	14·2	16·2	71	..	..	..	..	.	..	..	..		..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..		25·5	23·5	22·8	27·7	85	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	26·7	24·3	23·5	28·9	82		..	..	..	.	..	.	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	21·5	19·1	17·9	20·5	80	..	..	..	..	.	..		..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	22·7	20·0	18.7	21·6	79	.	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·8	23·0	22.2	26·7	86	.	6.4	..	2.2	0	0	15	0	1	4	7	2	0	1	0	16	0
	1130	,,	..	..	..	27·4	24·0	22.5	27·3	74	.	5.9	..	4.8	0	0	23	0	0	3	13	1	2	0	1	8	0
	1730	,,	..	..	..	27·2	24·0	22.7	27.4	77	.	6.5	..	5.1	0	0	25	5	0	6	10	4	0	0	0	6	0
Gorkha‡	0830																										
	1730																										
Nawakot	0830	..	..	..	.	25.1	23.7	23.1	28.3	88		.	..		..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	.	26.0	23.4	22·3	26.9	80		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari (R)	0830																										
(R)	1730																										
Dandeldhura	0830	..	..	.	..	19·1	18.6	18·2	21·0	·95	..	7·4	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
	1730	..	..	..	..	21·1	19·9	19·4	22.4	·9	..	6.9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana	0830	.	..	..	.	21·5	20·3	19·7	22·4	·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	.	.	23·0	21·4	20.6	24·3	·87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	,,	..	..	.	29·1	26·1	24.8	31.3	·78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·9	27·0	25.9	33·4	·79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

O.B.S. (46) (R) Register not received. (a) Mean of 30 days. *Observations for 30 days †Observations for 29 days. ‡ Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Baghmati Catchment																											
Katmandu*	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment—																											
Chautara	0830	..	..	..	..	21·9	20·9	20·5	24·1	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·0	21·3	20·6	24·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	20·3	18·5	17·9	20·5	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·4	18·8	18·3	21·0	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallangchung Gola	0830	..	..	..	..	15·0	12·6	11·1	13·2	78	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	..	13·3	12·6	12·1	14·1	93	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	23.4	21·0	19·8	23·1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·6	20·9	20·1	23·5	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·6	20·1	19·4	22·5	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·0	20·0	19·5	22·7	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	21·3	19·9	19·3	22·4	89	..	6·9	..	..	..	..	..	3	1	1	0	0	3	4	2	17	0
	1130	..	..	..	..	23·4	21·0	19·9	23·2	81	..	6·3	..	..	..	..	..	1	2	0	1	4	6	6	2	9	0
	1730	..	..	..	..	21·9	20·0	19·1	22·1	87	..	7·0	..	..	..	..	..	1	2	0	1	4	6	6	2	9	0
Okhaldhunga	0830	..	..	..	..	21·1	19·9	19·3	22·4	90	..	6·9	..	0·6	0	0	4	1	1	0	0	0	1	1	0	27	0
	1130	..	..	..	..	23·3	21·1	20·1	23·5	83	..	7·0	..	0·8	0	0	8	1	0	1	0	2	0	4	0	23	0
	1730	..	..	..	..	20·9	19·8	19·3	22·4	91	..	7·4	..	1·1	0	0	4	1	0	0	0	3	0	0	0	27	0
Chainpur	0830	..	..	..	..	23·9	22·3	21·6	25.8	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·3	22·5	21·7	25·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung †	0830	..	..	..	..	24·2	22·4	21·6	25·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
††	1730	..	..	..	..	25·4	21·8	20·1	23·5	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkshetra	0830	146	1000.1	983·9	..	28·1	26·0	25·1	31·9	84	..	6·7	..	3·4	0	0	26	1	1	0	1	1	12	3	7	5	0
	1130	,,	999·7	983·5	..	30·1	26·7	25·3	32·2	76	..	7·1	..	3·9	0	0	28	0	1	0	1	0	22	0	4	3	0
	1730	,,	997·0	980·9	..	29·4	26·9	25·7	33·0	81	..	7·0	..	3·1	0	0	25	1	1	1	0	0	16	2	4	6	0
Tista Catchment																											
Gangtok	0830	1812	1437·4	814·2	..	19·2	18·6	18·2	21·0	95	..	7·3	..	0·9	0	0	9	3	2	1	2	0	1	0	0	22	0
	1130	,,	1432·7	814·0	..	20·9	19·7	19·0	22·1	90	..	7.2	..	2·0	0	0	21	0	1	0	2	4	14	0	0	10	0
	1730	,,	1417·5	812·4	..	19·8	19·0	18·6	21·4	93	..	7·6	..	1·1	0	0	11	1	0	0	4	1	4	1	0	20	0
Gezing	0830	..	..	..	..	21·4	20·4	20·0	23·4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·1	20·5	19·8	23·1	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

*Data included under 'Nepal'.
†Observation for 27 days.
††Observation for 28 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
1	Agartala	23° 53′	91° 15′	17	28th November 1951	0530	1730	2330	
2	Ahmedabad	23° 04′	72° 38′	61	19th May 1928	0530	1730	2330	
3	Amausi	26° 45′	80° 53′	133	20th November 1950	0530	1730	2330	
4	Ambala	30° 23′	76° 46′	279	1st April 1941	0530	1730	2330	
5	Anantapur	14° 41′	77° 37′	365	12th February 1946	0530	1730	2330	
6	Asansol	23° 41′	86° 59′	135	29th May 1942	0530	1730	2330	
7	Baghdogra	26° 38′	88° 19′	140	7th June 1953	0530	1730	2330	
8	Bairagarh	23° 17′	77° 21′	532	26th February 1943	0530	1730	2330	
9	Bajpe	12° 55′	74° 53′	104	25th May 1959	0530	1730	2330	
10	Bamrauli	25° 27′	81° 44′	103	28th February 1930	0530*	1130	1730*	2330
11	Bangalore	12° 58′	77° 35′	936	19th May 1915	0530	1730	2330	
12	Bareilly	28° 22′	79° 24′	181	12th January 1943	0530	1730		
13	Begumpet	17° 27′	78° 28′	543	1st September 1929	0530	1730	2330	
14	Bhagalpur	25° 14′	86° 57′	61	19th May 1950	0530	1730		
15	Bhubaneshwar	20° 15′	85° 50′	54	5th December 1942	0530	1730	2330	
16	Bhuj	23° 15′	69° 48′	90	14th September 1937	0530	1730	2330	
17	Bikaner	28° 00′	73° 18′	229	18th October 1946	0530	1730	2330	
18	Chikalthana	19° 51′	75° 24′	583	7th October 1951	0530	1730	2330	
19	Cochin†	09° 56′	76° 14′	13	16th March 1942	0530	1730	2330	
20	Darjeeling	27° 03′	88° 16′	2115	21st May 1956	0530	1730		
21	Dehra Dun	30° 19′	78° 03′	692	1st October 1958	0530	1730		
22	Dum Dum	22° 39′	88° 27′	13	14th May 1921	0530*	1130	1730*	2330
23	Gadag	15° 25′	75° 38′	650	3rd May 1943	0530	1730	2330	
24	Gannavaram	16° 32′	80° 48′	32	8th April 1942	0530	1730	2330	
25	Gauhati	26° 05′	91° 43′	55	12th March 1955	0530*	1130	1730*	2300
26	Gaya	24° 45′	84° 57′	119	19th March 1937	0530	1730	2330	
27	Gopalpur	19° 16′	84° 53′	24	15th February 1946	0530	1730	2330	
28	Gorakhpur	26° 45′	83° 22′	83	5th January 1943	0530	1730		
29	Gwalior	26° 14′	78° 15′	208	7th May 1938	0530	1730	2330	
30	Imphal	24° 51′	93° 58′	805	8th March 1952	0530	1730	2330	
31	Jabalpur	23° 10′	79° 57′	402	30th July 1928	0530	1730	2330	
32	Jagdalpur	19° 05′	82° 02′	562	25th March 1948	0530	1730	2330	
33	Jaipur	26° 49′	75° 48′	403	6th June 1953	0530	1730	2330	
34	Jamshedpur	22° 49′	86° 11′	144	23rd July 1942	0530	1730		
35	Jharsuguda	21° 55′	84° 05′	240	1st May 1944	0530	1730	2330	
36	Jodhpur	26° 18′	73° 01′	229	15th October 1934	0530*	1130	1730*	2330
37	Madras	13° 00′	80° 11′	29	8th April 1926	0530*	1130	1730*	2330
38	Minicoy	08° 18′	73° 00′	15	14th April 1941	0530	1730	2330	
39	Mohanbari	27° 29′	95° 01′	112	1st June 1948	0530	1730	2330	
40	Nagpur	21° 06′	79° 03′	316	23rd April 1943	0530*	1130	1730*	2330
41	Nanpara	27° 50	81° 30′	142	23rd April 1957	0530	1730		
42	New Delhi	28° 35′	77° 12′	227	20th October 1936	0530*	1130	1730*	2330
43	Poona	18° 32′	73° 51′	593	5th January 1925	0530	1730	2330	
44	Port Blair	11° 40′	92° 43′	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21° 14′	81° 39′	308	15th July 1944	0530	1730	2330	
46	Raxaul	26° 59′	84° 51′	83	28th October 1957	0530	1730		
47	Santa Cruz	19° 07′	72° 51′	27	14th May 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10° 46′	78° 43′	96	22nd June 1936	0530	1730	2330	
49	Trivandrum	08° 29′	76° 57′	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24° 35′	73° 42′	587	24th June 1947	0530	1730	2330	
51	Vengurla	15° 52′	73° 38′	8	22nd November 1941	0530	1730	2330	
52	Veraval	20° 54′	70° 22′	17	13th October 1941	0530*	1130	1730*	2330
53	Visakhapatnam	17° 43′	83° 14′	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological Office.

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.9	2.6	147	31	2.8	2.1	178	31	2.9	2.4	156	21	3.5	2.8	212	21	3.9	2.2	217	31	3.4	2.7	203
0.15 a.g.	25	6.1	5.6	149	30	5.8	4.8	176	25	6.4	6.0	166	18	6.4	5.3	210	19	6.1	3.8	203	27	7.2	6.0	214
0.3 a.m.s.l.	25	7.6	6.5	164	30	6.4	5.4	175	25	7.9	7.2	177	18	7.7	6.0	213	19	6.6	4.6	211	27	8.3	6.8	219
0.6 „	25	8.4	6.9	175	29	7.4	6.4	178	24	9.2	8.5	182	15	10.1	8.1	230	19	8.2	5.9	220	26	9.7	8.4	233
0.9 „	23	7.7	5.8	181	25	7.0	6.2	175	23	8.9	8.1	185	9	9.7	6.7	216	19	8.9	6.4	215	4	9.2	7.6	235
1.5 „	17	5.9	4.1	171	19	7.2	6.4	163	16	6.1	5.1	176	4	7.2	5.2	095	14	9.3	6.2	224	18	7.7	4.9	231
2.1 „	15	6.1	3.8	170	16	7.0	5.9	159	11	6.0	5.0	173	2	8.7	6.1	092	5	8.0	2.0	213	10	7.1	1.7	160
3.0 „	14	6.1	2.7	173	10	5.3	3.7	147	6	4.6	3.6	168	2	9.5	8.0	091	2	9.5	9.1	091	4	10.5	8.5	084
3.6 „	11	5.4	3.1	155	7	4.1	2.3	161	3	3.3	2.3	171	1	14.5	14.5	075	1	10.5	10.5	085	1	10.5	10.5	065
4.5 „	5	4.3	2.0	152	3	2.8	1.1	019	1	1.0	1·0	280					1	10.0	10.0	090				
5.4 „	3	8.3	8.2	132	1	3.5	3.5	075	1	1.5	1.5	235												
6.0 „	3	9.3	9.2	124					1	2.5	2.5	225												
7.2 „	2	6.5	6.3	118																				
9.0 „																								

Station	AMAUSI												AMBALA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.2	1.2	035	31	3.7	1.7	088	31	2.7	1.7	108	31	1.6	1.4	116	31	1.3	0.7	110	31	1.2	0.8	118
0.15 a.g.	29	6.1	3.8	095	30	5.5	3.0	093	28	6.4	4.0	115	28	6.6	4.0	123	30	3.5	1.5	108	30	4.9	3.4	118
0.3 a.m.s.l.	29	6.5	3.6	105	30	5.5	3.1	093	28	6.5	3.9	120	28	3.1	1.7	109	30	2.2	0.9	114	30	2.6	1.7	111
0.6 „	25	8.4	4.4	105	29	6.3	4.3	114	27	7.4	4.9	115	28	7.6	3.9	141	30	3.7	1.6	113	30	4.9	3.6	131
0.9 „	23	8.1	4.3	112	28	7.0	4.8	110	26	8.0	5.6	117	28	7.8	3.7	146	30	4.1	1.5	121	30	5.0	3.3	142
1.5 „	18	7.6	4·3	108	23	7.7	4.9	114	23	7.3	4.6	116	28	6.3	1.3	162	30	4.8	0.5	220	29	5.2	1.7	167
2.1 „	15	8.4	5.5	100	19	6.7	3.7	126	14	7.2	4.0	113	24	4.8	0.7	315	30	5.5	0.5	340	29	4.8	0.8	217
3.0 „	13	8.0	5.5	094	13	6.3	2.7	107	8	6.4	2.5	118	18	5.3	2.4	337	25	5.3	0.9	084	26	4.0	0.3	043
3.6 „	10	6.1	4.3	095	10	6.5	2.0	108	1	7.5	7.5	315	12	4.7	1.1	357	21	5.1	1.6	023	11	5.2	1.4	134
4.5 „	6	5.3	3.8	102	6	7.1	2.5	094					10	3.7	1.1	337	12	4.3	1.9	032	2	6·0	0·8	234
5.4 „					5	6.6	2.5	100					5	3.0	2.9	180	9	3.9	1.5	346				
6.0 „					4	6.3	5.1	106					3	7.5	6.9	180	5	3.6	2.5	323				
7.2 „					1	7.0	7.0	105					2	5.5	2.5	223	3	4.8	3.1	002				
9.0 „					1	10.0	10.0	075					2	4.7	2.9	180	2	7.3	7.1	029				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	ANANTAPUR												ASANSOL											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4.6	4.4	251	31	8.5	8.1	268	31	5.6	5.5	264	31	1.4	0.9	138	31	2.4	1.5	131	31	1.6	1.2	159
0.15 a.g.	31	7.8	7.6	251	29	12.4	12.3	265	30	9.0	8.9	255	24	4.7	2.5	160	29	6.3	3.6	155	28	6.2	3.6	174
0.3 a.m.s.l.													24	5.0	2.4	175	29	6.4	3.7	161	28	6.4	3.9	175
0.6 ,,	31	9.8	9.7	251	29	13.4	13.2	262	30	10.0	9.8	254	23	6.4	2.3	180	29	6.9	3.9	163	27	6.9	4.1	185
0.9 ,,	31	13.1	13.0	262	29	14.3	14.0	264	30	12.9	12.7	261	21	6.0	1.3	137	28	7.3	3.7	161	25	6.9	3.6	195
1.5 ,,	30	15 8	15.4	271	29	14.9	14.5	267	28	14.8	14.4	271	17	4.8	1.4	127	20	7.1	4.1	146	21	6.0	2.8	166
2.1 ,,	27	15.8	15.2	277	27	16.2	15.9	271	23	14.4	14.0	277	14	4.7	1.5	100	13	5.8	4.2	146	17	5.8	2.8	119
3.0 ,,	18	12.4	11.8	284	16	15.6	15.2	272	19	12.7	12.3	275	11	5.4	3.2	105	12	6.2	4.7	130	13	5.3	3.5	141
3.6 ,,	14	12.1	11.7	278	8	15.1	14 9	272	12	11.3	11.0	279	7	3.3	1.7	143	8	5.4	3.4	134	11	4.7	3.4	131
4.5 ,,	6	10.3	10.0	271	2	14.0	14.0	271	4	9.9	9.7	264	6	4.3	3.7	107	5	5.1	4.3	112	9	4.9	4.4	116
5.4 ,,	1	6.0	6.0	235									3	1.0	0.9	077	2	2.0	1.0	016	6	3.3	3.0	091
6.0 ,,	1	8.0	8.0	220									2	2.7	2.6	122	2	2.7	2.4	090	3	2.5	2.3	093
7.2 ,,													2	2.5	2.3	091	1	4.5	4.5	093	2	2.2	1.9	022
9.0 ,,													1	3.5	3.5	115								

Station	BAGHDOGRA												BAIRAGARH											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.6	2.4	063	31	2.4	1.5	052	31	3.1	2.5	048	31	3.5	2.8	258	31	3.4	2.1	255	31	3.1	2.4	246
0.15 a. g.	22	4.4	3.7	084	29	4.2	2.9	059	22	3.6	3.3	070	26	7.4	5·5	254	26	5.1	3.3	256	23	6.7	5.1	235
0.3 a.m.s.l.	22	4.3	3.7	095	29	4.1	2.8	065	22	3.6	3.5	084												
0.6 ,,	22	5.4	4.1	101	29	4.3	3.9	085	22	4.3	3.7	101	26	6.2	4.7	252	26	5.0	3.5	254	23	6.1	4.7	308
0.9 ,,	17	5.3	3.9	085	29	5.2	3.5	101	21	4.9	3.9	102	23	8.9	7.3	271	26	6.3	3.7	266	23	7.4	5.4	249
1.5 ,,	15	6.3	4.3	077	22	6.3	4.3	111	17	5.1	3.9	100	12	5.8	2.9	291	21	7.0	3.2	263	21	7.9	3.9	249
2.1 ,,	11	5.8	3.3	079	15	6.0	4.7	110	13	5.2	3.8	105	10	5.3	3.2	044	14	6.5	1.6	125	16	4.8	2.3	161
3.0 ,,	8	5.6	1.6	097	9	6.0	4.6	117	9	4.6	2.4	132	5	5.2	4.3	101	7	4.0	3.2	115	11	4.5	2.4	133
3.6 ,,	7	5.4	2.2	095	6	6.6	3.8	126	5	5.9	3.1	127	4	5.1	4.1	109	7	5.1	4.4	116	3	2.2	1.9	305
4.5 ,,	5	4.1	0.8	113	3	5.3	4.9	248	1	11.0	11.0	105	3	4.8	4.8	105	4	5.5	5.3	113	1	2.0	2.0	335
5.4 ,,	3	5.5	1.4	139	3	5.0	3.8	250	1	8.0	8.0	095	2	7.5	7.5	105	3	7.7	6·8	095				
6.0 ,,	2	8.7	2.3	068	3	4.5	3.0	261	1	7.5	7.5	100	2	7.5	7.3	108	3	7·5	7.2	095				
7.2 ,,	2	7.0	2.9	129	1	2.5	2.4	060					2	8.0	7.1	090	2	7.0	7.0	111				
9.0 ,,	1	4.0	4.0	355	1	4.5	4.5	070					1	14.0	14.0	105								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	BAJPE												BAMRAULI											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.2	1.1	218	31	2.6	1.8	255	31	2.3	1.3	202	31	1.7	0.9	075	31	2.6	0.7	090	30	2.9	0.8	091
0.15 a.g.	21	6.4	5.0	228	23	6.9	5.9	253	23	6.0	4.1	236	30	5.9	0.9	118	30	5.1	1.4	580	30	5.8	1.2	100
0.3 a. m. s. l.	21	7.3	6.3	234	23	7.8	6.9	254	23	6.9	5.4	243	30	6.3	0.7	101	30	5.3	1.5	075	30	5.7	1.3	091
0.6 ,,	20	11.3	10.5	253	22	10.8	9.8	260	17	9.2	8.3	264	29	8.1	0.6	214	27	5.8	2.4	070	30	6.1	2.2	086
0.9 ,,	15	12.8	12.0	260	18	12.7	12.0	268	12	10.8	10.0	279	29	7.9	0.3	293	22	6.2	3.6	090	30	6.6	2.8	091
1.5 ,,	5	11.4	10.8	278	7	11.3	10.8	279	7	10.0	9.4	283	29	6.8	1.1	085	16	5.9	1.8	090	30	6.5	2.7	100
2.1 ,,	3	8.5	8.4	289	4	12.4	12.0	275	1	10.5	10.5	295	29	7.2	2.0	082	12	5.3	2.5	110	30	6.7	3.1	104
3.0 ,,	3	7.0	7.0	304	2	12.0	11.9	273					28	6.9	2.9	087	9	4.6	1.8	165	30	6.9	3.8	102
3.6 ,,													28	6.5	3.7	093	5	3.3	1.2	200	30	6.8	4.1	096
4.5 ,,													27	6.5	4.7	090	3	2.8	1.1	295	30	7.5	5.0	096
5.4 ,,													27	6.7	4.9	097	1	2.5	2.5	215	30	7.5	5.4	088
6.0 ,,													27	7.1	5.3	097	1	2.0	2.0	210	30	6.8	5.3	093
7.2 ,,													26	7.4	5.9	088	1	3.0	3.0	005	25	7.0	5.5	084
9.0 ,,													20	8.4	7.7	095					21	8.1	6.9	085

Station	BAMRAULI				BANGALORE												BAREILLY							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.9	0.4	075	31	3.3	3.2	260	31	4.5	4.2	260	31	3.5	3.4	259	31	2.0	1.6	091	31	1.9	1.0	089
0.15 a.g.	28	6.3	1.9	129	2	6.7	6.7	260	24	9.3	9.0	260	14	8.6	8.5	252	29	6.3	4.7	100	31	4.9	3.0	113
0.3 a. m.s. l.	28	6.7	2.1	125													29	5.8	4.4	098	31	4.7	2.7	111
0.6 ,,	28	7.8	3.5	122													27	8.2	5.5	122	31	5.7	3.1	112
0.9 ,,	25	7.1	4·2	116													26	8.3	4.8	120	31	5.9	3.2	115
1.5 ,,	20	5.5	3.8	113	2	12.7	12.7	278	24	12.0	11.7	265	14	12.6	12.4	269	24	8.0	4.1	119	27	6.0	3.5	112
2.1 ,,	14	5.5	3.1	127	2	13.7	13.7	288	17	13.8	13.5	273	13	12.7	12.5	279	23	8.2	4.4	110	23	6.0	2.2	116
3.0 ,,	8	5.3	3.2	106	2	10.3	10.1	296	16	13.0	12.7	276	7	10.5	10.4	284	20	6.9	3.3	111	20	6.5	2.0	109
3.6 ,,	2	8.3	7.5	092	2	9.7	9.7	285	13	10.9	10.5	277	5	7.4	7.1	288	16	6.1	3.8	102	17	6.1	2.3	103
4.5 ,,					1	6.0	6.0	290	4	8.7	8.6	269	3	7.0	6.8	258	12	4.6	3.3	097	14	4.7	2.5	093
5.4 ,,									4	6·9	6.6	258	2	5.3	5.1	260	6	3.9	1.7	077	12	4.8	2.8	088
6.0 ,,									4	6.3	6.2	249					5	3.9	3.6	099	9	4.9	3.6	092
7.2 ,,									4	4.3	3.2	288					2	4.5	4.1	094	7	6.2	4.4	107
9.0 ,,									3	4.8	2.3	032					1	7·0	7.0	135	4	7.4	6.9	130

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	BEGUMPET												BHAGALPUR								BHUBANESHWAR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.4	4.0	252	31	6.6	6.1	255	31	4.6	4·4	258	31	2.0	1.7	107	31	2.2	1.7	103	31	3.9	3.4	223
0.15 a.g. .	26	9.1	8.7	258	31	9.4	9.0	263	23	9.8	9.5	257	28	4.9	3.8	125	29	5.5	4.0	110	27	6.4	5.5	215
0.3 a.m.s.l. .													28	6.1	4.3	127	29	6.1	4.5	113	27	7.5	6.3	224
0.6 „ .	26	7.2	7.0	255	31	7.9	7.6	260	23	6.6	6.4	259	28	7.3	5.4	119	29	6.9	5.4	122	26	7.7	6.4	233
0.9 „ .	24	13.1	12.5	266	31	11.1	10.8	265	23	12.4	11.5	265	26	7.0	5.4	111	29	7.1	5.2	127	24	7.5	5.6	246
1.5 „ .	12	17.9	16.9	281	29	13.4	12.7	274	19	16.1	15.7	273	20	7.5	5.4	104	25	7.2	5.7	129	22	8.1	5.0	265
2 1 „ .	8	17.9	16.9	289	24	13.6	12.9	280	12	16.0	15.7	275	17	7.0	4.2	106	22	7.4	5.8	125	16	5.9	2.4	285
3.0 „	3	9.2	7.4	298	13	11.7	11.2	282	4	15.9	15.9	277	14	6.3	4.1	118	16	7.7	6.3	117	13	4.2	0.5	122
3.6 „ .					10	13.3	12.9	287	1	19.5	19.5	275	12	5.5	3.1	116	15	7.5	6.0	120	10	4.4	2.1	115
4 5 „					4	6.5	4.9	299					11	5.5	4.7	120	12	8.2	5.7	105	8	3.0	2.9	111
5.4 „ .					3	3.2	1.5	182					8	4.6	3.5	117	8	8.0	5.2	088	8	4.6	4.4	097
6.0 „ .					1	6.0	6.0	200					8	4.4	3.2	096	7	6.7	4.3	086	8	5.9	5.5	107
7.2 „ .													7	4.6	3.8	093	6	6.2	4.5	096	2	9.0	8.9	100
9.0 „ .													6	8.3	7.7	096	4	7.1	6.6	093				

Station	BHUBANESHWAR								BHUJ												BIKANER			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.7	3.7	208	31	4.9	4.7	222	31	2.6	2.2	242	31	6.0	4.7	230	31	4.6	3.6	238	31	1.3	1.0	215
0.15 a.g. .	26	7.9	6.3	201	28	8.1	7.4	213	29	7.1	5.8	238	30	9.5	7.6	230	25	7.8	7.5	230	31	6.7	4.4	210
0.3 a.m.s.l. .	26	7.7	5.7	206	28	8.3	7.6	220	29	7.9	6.1	242	30	10.2	8.0	230	25	8.7	8.3	230	31	4.7	2.9	210
0.6 „ .	26	6.9	4.6	226	27	8.5	7.8	226	29	9.8	7.4	247	29	10.4	7.7	235	25	10.6	10.1	235	31	8.9	5.6	224
0.9 „ .	26	7.3	5.0	246	26	8.7	7.1	237	24	9.7	6.3	245	27	10.3	7.4	237	23	9.8	8.7	240	31	8.2	4.8	218
1.5 „ .	19	8.9	5.7	273	24	9.0	6.3	252	11	6.3	1.8	205	13	8.0	0.9	140	16	7.4	4.0	236	27	5.6	1.5	150
2.1 „ .	7	7.9	3.2	252	14	5.7	2.7	226	7	6.1	3.2	265	11	8.3	0.9	112	8	6.7	1.1	273	26	5.9	3.1	082
3.0 „ .	5	6.8	3.8	182	9	4.5	3.2	165	4	10.2	9.5	080	6	7.3	3.8	122	5	7.0	1.9	055	23	6.3	4.2	060
3.6 „ .	2	6.7	6.7	127	3	4.2	4.0	150					2	6.3	5.1	110	2	7.0	2.3	076	18	6.4	4.2	055
4.5 „ .																	2	6.0	3.5	064	11	6.4	4.6	053
5.4 „ .																					7	6.6	4.0	072
6.0 „ .																					2	4.7	3.7	052
7.2 „ .																					2	4.7	4.1	050
9.0 „ .																					1	6.0	6.0	035

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	BIKANER								CHIKALTHANA												COCHIN			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·8	203	31	1.9	1.5	193	31	2.8	2.6	248	31	5.1	4.6	254	31	4.1	3.7	254	31	2.0	0.6	294
0.15 a.g.	31	5.5	2·5	193	31	7.6	5.1	203	26	7.1	6.5	249	27	9.7	8.9	254	27	8.7	8.1	252	18	3.9	2.0	206
0.3 a.m s.l.	31	4.3	2·2	188	31	5.2	3.9	203													18	4.8	3.3	234
0.6 ,,	31	5.9	2·5	192	31	8.9	6.1	200													18	7.2	6.5	258
0.9 ,,	31	6.0	2·2	184	31	8.3	4.9	202	26	9.1	8.6	261	27	10.3	9.6	259	27	9.9	9.6	262	18	9.2	8.6	268
1.5 ,,	30	5.9	1.8	166	31	5.7	1.3	188	20	12.8	12.5	265	27	11.7	11.1	264	24	12·6	12.3	266	18	10.5	10.1	279
2.1 ,,	26	5.4	2.9	087	27	4.9	1.4	102	6	11.9	11·3	274	11	9.5	9.3	281	15	11.3	10.9	265	13	11.2	10.9	278
3.0 ,,	18	5.9	3.8	056	21	4.9	3.1	065	3	4.7	4.2	297	6	5.1	4.9	278	5	4.1	3.3	271	5	8.8	7.4	287
3.6 ,,	13	6.5	4.3	052	8	6.1	2.9	048	1	6.5	6.5	245	2	4.7	4.5	288	1	1.0	1.0	200				
4.5 ,,	8	5.8	3.8	043									1	7.5	7.5	085	1	4.5	4.5	135				
5.4 ,,	7	5.9	4.9	035																				
6.0 ,,	3	6.0	4.6	030																				
7.2 ,,																								
9.0 ,,																								

Station	COCHIN								DARJEELING								DEHRA DUN							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3.1	1.7	262	31	1.6	0.5	254	31	0.0	0.0	045	31	0.3	0.3	187	31	0.9	0.3	087	31	1.3	0.5	274
0.15 a.g.	22	4.0	3.2	245	16	3·3	2.1	224	5	1.4	0·8	095	7	2.1	1.6	143	21	2·2	0.6	067	28	2.5	0.7	282
0.3 a.m.s.l.	22	5.7	5.1	253	16	4·6	3.3	240																
0.6 ,,	22	9.0	8.3	275	16	6·5	5·7	263																
0.9 ,,	22	10.5	9.9	271	16	8.4	8.0	271									21	2.1	0·3	093	28	2.5	0.9	282
1.5 ,,	18	11.1	10.8	282	12	8.2	7.8	288									18	2.9	1.5	149	26	2.4	0.9	241
2.1 ,,	17	10.9	10.5	285	5	8.2	7.7	268									13	3.9	1.4	123	22	2.6	0.8	149
3.0 ,,	6	9.4	9·0	275	4	7.1	7.1	261	5	3.8	2.5	115	6	3.1	1.8	102	12	3.8	1.8	155	14	3.3	1.4	146
3.6 ,,	4	9.1	9.0	273	3	9.7	9.7	266	4	6·0	4.7	081	5	4.1	3.0	099	10	2.9	1.2	200	12	2.9	0.4	165
4.5 ,,	2	4·7	4·7	294					4	8.1	6.3	081	2	7.5	4·4	125	9	1.8	0.6	195	7	3.3	1.9	333
5.4 ,,	1	4·0	4·0	300					3	10.7	10.4	066	2	7.5	5.6	131	3	2.3	2.1	205	5	4.6	2.6	325
6.0 ,,	1	3·5	3·5	290					1	9.5	9.5	060	1	7.0	7.0	125	2	3.0	2.8	198	5	4.0	1.9	308
7.2 ,,									1	11.0	11.0	090	1	12.5	12.5	090	1	7.0	7.0	170	4	4·7	0.7	306
9.0 ,,									1	6·5	6·5	125									3	7.3	6.0	203

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Station	DUM DUM																GADAG							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.5	0.8	186	31	2.7	1.5	172	31	2.4	1.9	180	31	2.2	1.8	188	31	5.9	5.4	248	31	6.6	6.2	259
0.15 a. g. . .	31	5.3	2.8	183	28	5.2	3.3	173	31	6.4	5.3	187	31	6.6	5.5	195	31	11.7	11.5	247	30	12.0	11.9	252
0.3 a. m. s. l. .	31	6.0	3.2	189	27	5.6	3.7	170	31	6.5	5.3	187	31	7.9	6.6	203								
0.6 ,, .	30	6.6	3.6	199	26	5.7	3.6	162	31	6.7	5.0	190	30	8.3	6.2	208								
0.9 ,, .	30	6.8	3.1	196	21	6.2	3.9	165	31	6.4	4.2	190	25	7.6	5.1	206	31	14.0	13.6	255	30	13.0	12.8	255
1.5 ,, .	30	5.8	2.9	180	12	5.5	3.7	155	30	6.0	3.6	182	19	6.1	3.5	179	19	16.7	16.1	271	15	14.6	14.4	273
2.1 ,, .	30	5.3	2.5	170	9	5.9	4.9	131	29	5.9	3.4	171	16	5.1	4.5	154	6	14.7	14.2	289	3	13.3	13.3	283
3.0 ,, .	29	5.6	2.2	156	4	6.1	4.9	137	28	6.2	4.0	166	9	4.4	3.4	154	1	11.5	11.5	290				
3.6 ,, .	29	5.7	2.5	153	1	1.5	1.5	325	28	6.9	3.5	162	2	1.7	1.5	092	1	10.5	10.5	285				
4.5 ,, .	29	6.8	3.7	135					27	6.9	3.9	134	1	3.5	3.5	085								
5.4 ,, .	29	7.1	5.0	150					27	6.8	4.8	105												
6.0 ,, .	29	8.1	6.1	111					27	7.0	5.0	094												
7.2 ,, .	29	8.9	8.0	108					27	6·9	6·4	090												
9.0 ,, .	25	10.9	10.5	100					25	10·8	10·6	082												

Station	GADAG				GANNAVARAM												GAUHATI							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6.5	6.0	253	31	3.3	2.9	247	31	4.7	3.7	251	31	2.9	2·4	237	31	0.4	0.2	033	31	1.9	1.0	004
0.15 a. g. . .	27	11.3	11.1	250	27	8.5	8.0	249	31	7.1	6.3	253	22	7.3	6.8	240	31	2.4	0.5	043	31	3.0	1.7	009
0.3 a. m. s. l. .					27	10.0	9.6	261	31	7.6	7.0	259	22	8.3	7.9	247	31	2.4	0.6	041	31	3.1	1.9	031
0.6 ,, .					26	12.9	12.5	267	31	8.6	8.1	262	22	10.6	10.4	257	31	3.2	0.6	344	31	4.0	1.5	047
0.9 ,, .	27	13.2	13.0	256	24	15.0	14.6	274	31	10.3	9.9	267	22	12.0	11.8	263	31	3.3	0.3	260	29	4.2	1.5	092
1.5 ,, .	17	15.8	15.5	271	23	15.8	15.4	282	29	12.8	12.4	273	18	13.0	12.6	272	31	4.3	0.9	207	26	5.0	2.3	132
2.1 ,, .	11	14.8	14.5	281	18	12.8	12.4	282	25	13.9	13.5	279	17	11.7	11.3	275	31	4.9	2.0	190	22	6.8	3.5	131
3.0 ,, .	1	8.0	8.0	285	8	10.1	9.7	282	16	12.1	11.7	274	12	9.6	8.8	279	31	4.3	1.4	160	16	6.6	4.1	102
3.6 ,, .					3	6.5	5.4	287	9	8.8	8.2	267	3	2.8	1.0	326	30	4.3	1.7	147	14	6.4	4.4	098
4.5 ,, .					2	6.0	4.5	255	7	7.4	5.7	268	2	2.7	1.9	062	30	5.3	2.3	163	13	5.3	3.7	114
5.4 ,, .					1	3.0	3.0	100	4	4.7	3.2	273	2	3.7	3.7	107	29	5.9	2.9	151	10	5.9	5.1	104
6.0 ,, .					1	4.0	4.0	110	4	6.0	1.3	315	1	2.5	2.5	125	29	5.4	3.0	143	8	6.6	6.1	110
7.2 ,, .					1	6.5	6.5	110	3	6.5	1.5	132					29	5.2	3.5	123	5	8.3	7.9	100
9.0 ,, .					1	13.5	13.5	100	3	8.5	8.1	091					18	6.4	4.3	092	2	6·5	5·5	087

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Station	GAUHATI								GAYA												GOPALPUR			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.0	0.0	351	31	1.2	0.8	207	31	2.6	1.5	097	31	4.1	2.2	103	31	2.8	1.3	128	31	3.8	3.4	218
0.15 a.g.	31	2.8	0.2	030	29	2.6	1.7	224	25	5.0	3.5	104	25	5.7	3.8	092	21	5.5	3.2	114	28	7.5	6.4	225
0.3 a.m.s.l.	31	2.8	0.3	311	29	2.7	1.4	264	25	5.4	3.3	112	25	5.9	3.7	098	21	5.4	2.7	122	28	6.9	5.8	233
0.6 ,,	31	3.7	0.8	307	27	3.5	2.0	282	25	5.4	3.1	120	25	6.4	4.6	102	21	6.9	3.8	130	26	5.7	4.8	241
0.9 ,,	31	3.7	0.7	328	25	3.8	1.5	275	22	6.4	3.2	119	25	6.6	5.2	103	21	6.6	3.8	130	25	6.1	5.2	263
1.5 ,,	31	3.9	1.3	220	23	4.2	2.0	224	17	6.3	2.5	111	22	6.9	5.6	118	15	6.7	4.7	123	18	9.2	8.4	261
2.1 ,,	31	4.5	2.2	196	19	5.3	2.7	194	10	5.5	2.3	104	16	5.7	4.0	118	10	5.5	3.1	111	10	5.7	4.7	277
3.0 ,,	31	5.9	3.4	152	15	5.7	2.2	154	8	6.4	4.0	106	7	4.1	2.7	144	3	5.2	5.1	111	7	3.9	1·4	294
3.6 ,,	31	6.1	3.4	140	9	6.0	3.1	103	4	5.6	5.0	110	4	4.1	3.1	120					6	3.2	1.5	075
4.5 ,,	30	6.0	3.4	119	5	6.9	4.4	090	2	6.5	6.5	110									3	3.3	2.3	097
5·4 ,,	30	5.6	2.9	108	5	5.9	4.3	094													3	4.0	3.5	102
6.0 ,,	30	5.3	2.6	107	3	5.5	3.3	097													3	5.5	5.4	099
7.2 ,,	30	5.6	2.5	090	2	10.0	9.9	095													1	5.5	5.5	100
9.0 ,,	22	5.6	4.1	078	1	16.5	16.5	115																

Station	GOPALPUR								GORAKHPUR								GWALIOR							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6.8	6.1	206	31	5.5	5.1	214	31	1.7	1.2	073	31	2.1	1.4	103	31	2.3	1.2	270	31	2.9	1.0	238
0.15 a.g.	29	9.0	8.2	209	26	8.5	7.9	218	30	6.5	4.6	089	30	5.4	3.9	106	28	5.8	1.5	259	30	6.0	1.7	239
0.3 a. m. s. l.	29	7.9	6.9	211	26	8.3	7.7	220	30	7.6	5.5	098	30	5.9	4.3	102	28	4.8	1.1	257	30	5.3	1.3	215
0.6 ,,	29	6.1	4.4	230	26	6.9	6.0	230	29	8.8	6.9	109	30	6.4	4.6	101	27	7.8	1·8	287	30	6.6	1.0	278
0.9 ,,	26	6.3	4.3	257	24	6.2	5.0	244	26	8.6	6.6	109	29	6.7	5.1	105	27	8·0	1·2	306	30	6.9	1.1	341
1.5 ,,	19	7.5	6.2	279	21	9.4	7.0	267	25	8.6	6.5	105	27	7.5	5.2	112	24	6.7	1.4	087	28	7.2	2.4	055
2.1 ,,	12	4.3	0.5	264	12	7.9	6.5	266	24	9.0	6.2	103	24	8.4	6.0	106	20	6.3	3.2	275	25	7.3	2.3	053
3·0 ,,	7	4.4	3.4	243	7	3.1	1.7	118	22	7.5	4.5	099	21	7.8	5.4	112	14	6.3	3.7	094	21	6.6	3.6	083
3·6 ,,	3	4.8	1.0	157	3	2.8	2.6	233	15	7.8	4.6	111	18	6.8	4.9	116	11	6.5	4.0	112	21	6.5	3.5	086
4·5 ,,	3	5.7	4.7	085					5	4.4	1.9	030	13	6.9	4.6	107	10	6.1	4.4	105	14	6.6	2.3	111
5·4 ,,	2	3.7	3.5	092					3	2.2	1.7	065	5	6.3	5.5	109	8	6.7	6.4	093	11	6.7	2.7	082
6·0 ,,	2	4.3	4.3	061					2	3·7	3.6	076	3	7.0	6.9	112	6	6.9	6.2	090	10	7.5	3.2	062
7.2 ,,									2	5.3	4.2	077	2	8.3	8.3	112	5	7.8	7.3	097	6	5.8	4.2	078
9.0 ,,									1	10.0	10.0	090					3	6.7	6.6	123	1	8.0	8.0	055

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	GWALIOR				IMPHAL												JABALPUR							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.4	1.4	223	31	0.9	0.6	065	31	1.8	0.4	146	31	1.5	0.2	317	31	2.2	1.6	245	31	2.0	1.3	249
0.15 a. g.	31	6.1	2.3	206	27	2.1	1.0	050	29	3.4	1.4	163	29	2.9	0·2	133	26	6.6	4.2	247	26	4.9	2.6	253
0.3 a. m.s.l.	31	5.0	2.0	212																				
0.6 "	31	7.8	1.9	203													26	7.4	4.7	249	26	5.5	2.9	256
0.9 "	31	7.6	0.9	198	27	2.1	1.1	052	29	3·2	1.2	165	29	2.8	0.1	092	25	9.5	5.7	263	25	6.6	3.6	269
1.5 "	27	5.9	0.9	106	27	3.2	1.2	231	29	3.8	2·9	156	29	4.3	2.5	187	14	7.0	1.8	293	20	6.3	1.5	263
2.1 "	22	5.4	2.0	094	22	4.8	2.7	227	26	4.1	2.8	152	23	5.4	3.3	193	11	5.9	1.4	100	16	6.3	1.0	126
3.0 "	18	5.3	3.4	090	12	4.4	2.1	167	21	4.9	2.7	134	14	5.2	3.9	148	7	4.6	3.3	093	10	6.0	4.4	116
3.6 "	13	5.5	3.3	080	8	3.9	2.6	169	20	4.7	2·8	130	10	5.1	3.4	157	7	4.6	4·2	097	5	4.3	2.5	141
4.5 "	1	2·5	2.5	065	7	3.5	2.9	133	10	4.9	3.8	132	3	4.3	1.8	120	4	5.7	5.5	099	3	3.5	1.5	093
5.4 "					5	6.2	4.7	120	6	3.4	2.5	127					2	5.0	5.0	115	1	6.5	6.5	055
6.0 "					2	8.5	6.9	122	4	3.3	1.5	080					2	5.5	5.5	115	2	5.0	3.7	078
7.2 "					1	3.5	3.5	125	1	6.0	6.0	085					1	9.5	9.5	095	2	5.7	5.5	083
9·0 "									1	10.5	10.5	100					1	13.5	13.5	095				

Station	JABALPUR				JAGDALPUR												JAIPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	1.2	227	31	1.0	0.9	231	31	1.7	1.6	233	31	1.3	1.1	225	31	1.8	0.3	327	31	3.5	0.4	203
0.15 a. g.	27	5.2	4.0	231	16	5.4	4.7	225	26	6.0	5.1	238	18	6.5	5.8	233	28	5.8	2.0	295	17	5.8	1.4	225
0.3 a. m.s.l.																								
0·6 "	27	6.3	4.5	236	16	3.0	2.5	215	26	3·6	2.9	240	18	3.9	3.3	226	28	7.1	2.6	291	17	6.1	1.4	197
0.9 "	27	7.4	5.1	244	16	7.1	6.4	246	26	7.2	6.5	245	18	8.4	7.5	245	27	7.5	3.6	280	17	6.3	0.8	172
1·5 "	22	6.1	1.6	251	11	9.3	8.2	272	22	9.3	8.3	257	14	10.9	10.1	268	23	6.4	0.2	074	16	5.8	0.7	160
2.1 "	17	4.3	0.3	160	4	1.9	1.3	248	11	10.3	8.4	276	9	7.8	7.1	270	16	4.8	1.2	100	10	5.1	1.7	075
3.0 "	8	3.7	1.2	155	3	1.7	1.7	090	2	4.5	4.0	110	4	8·4	7.4	279	12	4.9	3.9	083	3	5.0	4.5	053
3·6 "	2	2.7	2.7	359	2	3.5	3.5	069	1	4.5	4.5	120	1	3.0	3.0	115	6	4.9	4.3	080	3	4.5	3.2	060
4.5 "	1	4.5	4.5	350	1	3.5	3.5	085	1	4.5	4.5	160					1	9.0	9.0	090				
5.4 "					1	7.5	7.5	085																
6 0 "					1	7.0	7.0	085																
7.2 "																								
9.0 "																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

July 1961 (Asadha 10,—Sravana 9, 1883 Saka)

Station	JAIPUR				JAMSHEDPUR								JHARSUGUDA											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.7	0.5	240	31	1.5	0.3	174	31	3.0	1.2	196	31	2.2	1.3	221	31	2.2	1.5	215	31	2.3	1.5	204
0.15 a. g.	30	5.6	2.2	203	24	3.7	1.6	87	27	5·2	2.3	195	18	5.4	2.5	174	20	4.2	2.2	199	18	5.0	2.8	173
0.3 a. m. s. l.					24	3·8	1·6	193	27	5·2	2·5	193	18	4·2	2·3	165	20	3·7	1·8	188	18	4·6	2·8	168
0.6 „	30	6.1	2.1	211	24	6·1	2.2	216	27	5.4	2.9	194	16	5.6	2.5	192	20	5.0	2.1	212	18	5.5	2.8	200
0.9 „	30	6.5	2·5	223	21	6.3	1.8	230	22	5.7	3.0	194	14	5.3	2.3	184	18	5.7	1.8	208	16	5.3	2.4	208
1·5 „	28	5.7	1·6	239	12	4.8	1.9	119	13	3.3	2.1	131	9	3.5	1·9	136	15	5.7	1.1	168	14	3.7	1.8	193
2·1 „	25	5.5	0.5	108	9	3.9	2.0	116	9	3.4	1.5	109	7	2.9	1.4	107	13	5.0	2.6	119	11	3.2	1.6	169
3.0 „	16	4.7	1.5	094	7	2.9	0.3	094	4	4.1	3.3	056	6	3.7	2.6	263	7	4.4	3.1	094	8	3.9	2.0	151
3·6 „	9	4.2	0.8	064	6	3.0	1.1	040	3	3.2	.8	073	6	3.5	2.4	105	5	6.0	5.0	097	3	4.2	4·1	117
4·5 „	1	3·5	3·5	360	3	3.0	2.4	121	2	1.5	0.5	098	5	4.3	3.8	095	1	13·0	13·0	105				
5·4 „					3	4·3	4.1	101																
6·0 „					2	4·3	4.1	114																
7·2 „					1	8·5	8·5	125																
9·0 „																								

Station	JODHPUR																MADRAS							
Time in I. S. T.	0530*				1130				1730*				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	2.7	2.1	238	31	3.8	2.3	156	31	4.8	2.6	205	31	3.6	2.4	218	31	3.2	2.8	238	31	4.8	4.3	241
0.15 a. g.	29	5.4	3.4	244	31	5.9	3.8	199	31	6.1	2.2	190	27	7·1	5.1	212	31	9.9	9.5	250	31	7.4	7.0	243
0.3 a. m. s. l.	29	4·3	2·7	238	31	5.3	3.4	203	31	5.5	1.8	197	28	5·6	4.1	215	31	9.9	9·6	256	31	7.0	6.7	247
0.6 „	29	5.4	3.2	230	31	6.0	3·5	203	31	5.6	3.0	182	27	7.9	5.9	218	31	11.0	10.9	267	31	8.0	7.7	252
0.9 „	29	5.2	3·5	230	27	5.3	2.3	193	31	5.6	3.4	183	28	7.9	5.5	218	31	12.2	11.9	274	31	9.9	9.4	261
1.5 „	29	6.3	2.4	168	13	5.8	2.2	124	31	6.0	2.4	170	20	7.3	3.7	197	31	13.9	13.5	280	31	14.1	13.3	277
2.1 „	29	6.3	3.3	105	7	7.1	4.6	093	31	5.8	2.6	120	16	6.3	2.2	130	31	12.6	12.2	282	28	12.4	11.8	278
3.0 „	29	6.0	3.1	080	4	11.3	9.8	091	31	6.0	3·5	085	10	7.6	6·1	088	31	11.4	11.1	277	24	10.3	10.0	271
3.6 „	29	7.1	4.5	070	2	7·5	7.5	072	31	6.7	4·5	065	3	7·8	5·3	094	31	10.8	10.5	264	20	11.4	11.0	271
4.5 „	28	7.6	4.9	056	1	2·0	2.0	150	30	7.3	4·7	044	2	13·3	12·7	052	31	9.8	9.3	268	12	10.2	9.5	274
5.4 „	28	7·9	5.6	068	1	4·0	4·0	175	30	6·8	4·5	055	1	11·0	11·0	035	31	9.0	8.3	262	7	10.2	9.3	258
6.0 „	28	8.4	6.9	070	1	4·0	4·0	215	30	7·3	4·4	060	1	13·0	13·0	035	31	7.6	6.5	262	4	9·5	9·0	252
7.2 „	26	8.0	6·7	080					28	7·7	5·6	073					31	6.4	1.8	257	4	7·4	6·1	242
9.0 „	16	7·7	7·2	088					15	8·8	7·4	087					30	8·4	5·7	076	2	9·3	4·2	111

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Station	MADRAS								MINICOY												MOHANBARI			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	4·3	3·5	203	31	3·3	2·9	217	31	3·6	3·3	246	31	3·9	3·5	255	31	3·3	2·9	249	31	0·9	0.7	072
0·15 a.g.	31	7·6	5·5	207	27	8·2	7·6	232	29	7·1	6·4	240	29	7·4	6·9	248	31	6·6	5·9	247	16	3·1	0·5	054
0·3 a. m. s. l.	31	7·4	5·8	217	27	9·0	8·3	239	29	8·1	7·5	244	29	8·0	7·3	247	31	7.6	6·4	248	16	3·2	0·6	059
0·6 ,,	31	7·0	6·4	243	27	10·2	9·7	251	29	9·9	9·2	248	29	9·9	9·2	253	31	9.7	8·9	258	16	2·8	0·3	206
0·9 ,,	31	7·6	7·0	256	27	11·0	10·6	260	29	10·9	10·4	262	29	11·2	10·7	264	31	10·8	10·1	268	12	3·5	0·8	216
1.5 ,,	31	10·4	10·0	269	26	12·4	12·0	268	29	12·1	11·2	278	28	11·7	11·2	278	29	11·2	10·7	282	8	2·4	1·1	184
2·1 ,,	31	12·1	11·9	282	24	12·9	12·6	271	27	10·5	10·0	283	24	11·5	11·0	277	25	10·4	9·5	284	5	1·6	0·5	186
3·0 ,,	31	12·4	12·1	279	15	9·8	9·6	274	23	8·8	8·4	276	16	9·9	9·7	277	16	9·2	8·9	281	3	2·5	0·6	306
3·6 ,,	31	11·4	11·1	279	9	7·3	6·9	268	20	7·4	7·1	273	13	8·0	7·7	277	11	7·5	7·2	275	1	3·0	3·0	215
4·5 ,,	31	10·3	9·3	274	3	6·8	6·7	291	17	6·7	5·9	268	4	6·0	5·8	289	3	2·8	2·1	305	1	4·5	4·5	235
5·4 ,,	30	9·2	8·5	273	1	9·5	9·5	030	11	5·5	5·0	267	2	4·5	4·1	307	2	2·0	2·0	291				
6·0 ,,	30	8·5	7·7	266					10	4·9	3·6	278	2	4·7	4·5	316								
7·2 ,,	30	7·1	5·5	267					5	5·4	2·7	081	2	5·5	5·1	012								
9·0 ,,	29	6·5	2·7	067					1	12·5	12·5	100	1	10·0	10·0	065								

Station	MOHANBARI								NAGPUR															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·8	055	31	0·7	0·5	045	31	2·1	1·9	240	31	4·2	3·1	237	31	4·2	2·5	244	31	2·2	1·9	235
0·15 a.g.	31	3·1	2·0	055	25	3·0	1·4	038	30	6·9	5·1	252	26	5·5	4·0	255	30	6·3	5·0	249	24	5·4	3·7	245
0·3 a. m. s. l.	31	3·2	1·9	065	25	2·8	1·0	059																
0·6 ,,	31	2·5	1·4	092	25	2·6	0·8	082	30	8·5	6·2	258	26	5·3	3·7	261	30	7·0	5·6	252	24	6·6	4·7	255
0·9 ,,	31	2·6	0·5	170	24	2·6	0·9	131	30	10·6	8·0	275	26	6·8	5·0	271	30	7·9	5·5	266	24	7·8	5·4	264
1·5 ,,	29	3·3	2·2	220	23	3·3	1·8	225	30	9·0	6·8	282	13	6·1	3·2	298	30	8·1	6·6	280	22	7·3	4·2	274
2·1 ,,	28	4·4	3·3	211	18	3·6	2·8	273	30	7·8	5·5	285	7	4·1	0·9	235	29	8·0	5·9	281	16	6·0	2·6	259
3· ,,	26	4·6	3·5	198	15	3·3	2·6	205	30	6·7	4·2	285	3	4·8	4·7	127	27	7·6	5·0	290	11	4·6	0·9	190
3·6 ,,	21	4·6	3·4	203	7	3·5	2·5	180	30	6·4	3·1	288	1	5·5	5·5	120	26	7·5	4·8	287	6	3·2	2·6	095
4·5 ,,	18	4·5	2.1	206	2	4·0	3·6	138	29	6·4	1·2	314	1	8·0	8·0	105	26	6·6	2·9	286	4	4·9	4·6	077
5·4 ,,	12	4·6	1·9	162					28	6·3	1·8	306					25	5·5	1·8	354	1	6·0	6·0	105
6·0 ,,	11	5·1	1·9	128					26	5·0	3·1	070					25	5·8	1·7	059	1	4·5	4·5	100
7·2 ,,	6	5·7	2·5	080					25	7·0	4·8	085					22	7·0	4·9	079				
9·0 ,,	3	7·2	6·8	066					23	9·9	9·4	092					19	0·9	8·9	018				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

July 1961 (Asadha 10, —Sravana 9, 1883 Saka)

Station	NANPARA								NEW DELHI															
Time in I.S.T.	0530				1730				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.8	1·6	100	31	2.2	1·6	110	31	2·7	0.9	114	31	3·6	1·4	096	31	3.0	1·8	105	31	2·0	1·1	115
0·15 a.g.	28	7.2	6·2	115	31	5·3	3.7	124	31	7·6	2.8	125	31	5·8	3.1	104	31	5·7	3·2	103	31	6·6	3·3	138
0·3 a. m. s. l.	28	7.4	6·4	118	31	5.4	3·7	123	31	5·9	2.9	124	31	5·3	2.6	100	31	3·7	2.2	099	31	5·0	2·4	132
0·6 ,,	27	10·4	9.3	120	30	6.2	4·7	119	31	7·4	2·4	145	31	6·6	2·3	117	31	5·0	2.7	099	31	7·4	3·7	141
0·9 ,,	26	9.9	8.8	119	30	6.4	5.1	119	31	7·6	1·9	150	31	7·4	2·8	114	31	4·7	2·0	105	31	7.1	5·1	152
1·5 ,,	26	9.2	7.6	117	30	7.6	5.5	117	31	7·3	1.5	115	24	7·2	2·4	087	31	5·3	1·8	103	28	6·2	2·7	142
2·1 ,,	25	8·4	6.1	114	27	8.1	5·5	116	31	6·5	1.6	052	17	6.6	2·6	068	31	6·0	1·2	078	20	5.2	2·9	119
3·0 ,,	16	6.3	3.0	118	24	7.9	4·2	120	31	5·9	2·0	062	9	6.4	3·2	065	31	5·7	1.1	052	16	4.9	3·1	083
3·6 ,,	15	6·1	3·6	119	23	7.4	4·3	112	31	5.1	2·2	058	8	7·0	2·8	043	31	5.5	1.0	058	4	3·4	1·9	039
4·5 ,,	10	4·1	2.3	124	20	5·6	3·3	112	31	4.2	1.9	075	3	6·7	6·0	095	31	5·7	2.2	034	2	4.0	3.5	310
5·4 ,,	9	4.4	3·5	115	18	5·7	4.3	111	31	4·9	3.0	085	3	7.5	6.8	100	30	6.8	2·5	044				
6·0 ,,	4	3.9	2.8	101	18	5·8	4.7	112	31	5.2	3.3	094	3	6·5	6.0	110	30	6.6	2·0	053				
7·2 ,,	2	6.0	5.5	106	15	6.8	5.5	105	31	6·3	4.7	086	1	11·5	11·5	130	30	6·4	2.4	079				
9·0 ,,					12	8·3	7.2	096	31	7.3	4.8	092	1	18.0	18.0	130	29	6.1	2·4	093				

Station	POONA												PORT BLAIR											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1.8	252	31	3.7	3·4	255	30	2·4	2.2	252	31	3·9	3·4	235	31	6.6	6.4	231	31	5·3	5.1	227
0·15 a.g.	27	7·3	7.2	254	27	9.9	9.7	256	27	7·5	7.3	253	30	9·4	9.1	234	29	9.7	9.6	233	31	9.4	9·2	235
0·3 a. m. s. l.													30	9·7	9·6	235	29	10.1	10.0	235	31	9.7	9.5	235
0·6 ,,	27	3·8	3·8	255	27	6.3	6·1	258	27	3.9	3.8	255	30	11.9	11.7	238	29	11.8	11.6	238	31	11.7	11.3	239
0·9 ,,	27	9.5	9.3	255	27	11.3	11.2	255	27	9·6	9.4	257	29	13.4	13.1	244	23	12.7	12·5	242	31	13.7	13·1	245
1.5 ,,	8	13.1	12.7	263	25	16.9	15.6	259	7	12·6	12·4	260	29	13·7	13·4	253	12	12.1	11·7	244	31	14.1	13·5	252
2·1 ,,	3	12.8	12.7	275	2	19·0	18.9	253	3	13·2	13·1	274	28	12·5	12.0	257	5	12.3	10.5	242	31	13.0	12.1	254
3·0 ,,	2	5.7	5.3	305					2	4·0	3·7	308	30	11·5	11·0	260					29	11·4	10.7	254
3·6 ,,									1	5·0	5.0	305	30	9·2	8·7	264					29	9·9	9.4	255
4·5 ,,													30	10·0	9·7	261					28	7.5	6·5	255
5·4 ,,													29	8.7	7·3	260					26	7.4	6·3	264
6·0 ,,													29	8.1	4.8	248					25	7.1	5.2	265
7·2 ,,													24	7.1	2·8	154					22	5.6	2·0	133
9·0 ,,													17	12·0	9.8	110					19	11.1	9·5	068

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10, —Sravana 9, 1883 Saka)

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4.2	4·0	228	31	2·1	1·8	238	31	2·3	1·2	235	31	2.3	1.7	226	31	1.3	1·1	098	31	1·7	1·2	105
0·15 a. g. . .	30	8.6	8·3	237	19	7.0	5.7	226	21	5·8	2·5	245	17	8.1	6·1	220	28	5.9	5·3	102	27	6.0	4·8	115
0·3 a. m. s. l. .	30	9.9	9.6	236													28	6.5	5.9	104	27	6.2	5.0	116
0·6 ,, .	30	11.9	11.5	241	19	8.7	7.0	238	21	6.1	3·1	252	17	8.9	6·0	233	28	9.1	8.5	110	27	6·5	5.4	113
0·9 ,, .	25	12.1	11.8	251	15	9.6	7·2	248	21	6·3	3.6	253	17	8.5	5·7	242	28	9·0	8·3	109	26	6·7	5·3	110
1·5 ,, .	21	11.0	10.6	254	12	7.3	4.9	268	18	4·6	1·5	254	14	6·1	3.6	259	22	8.6	7·4	102	23	7·8	6.6	107
2·1 ,, .	13	9.6	9.3	255	8	7.3	1.7	291	18	4.7	1·4	245	12	5·1	2·5	255	16	8·4	6.9	097	19	7·8	6.5	108
3·0 ,, .	7	5.6	5·4	257	6	6.1	4.8	080	12	3·8	1.4	117	8	3.8	0·7	180	11	6.0	4·2	098	16	7·3	5·6	119
3·6 ,, .	2	3·5	3.4	223	6	5·0	4.5	082	10	4.1	2.2	118	8	4·0	0.9	150	9	5·2	4.0	102	10	5·7	4.1	117
4·5 ,, .					5	5.7	5.5	098	6	3.3	1·7	089	3	4·2	3.8	113	7	3.7	2·0	098	9	3.4	1·4	138
5.4 ,, .					5	6.8	6.6	105	1	6.0	6.0	120	1	5·5	5.5	070	6	4.3	3.3	120	7	5·5	3·1	106
6·0 ,, .					4	7.4	7.4	105	1	6.5	6.5	050					2	3.2	1·9	117	5	3·5	1.7	100
7·2 ,, .					2	6.5	5.6	070									1	1.0	1·0	305				
9·0 ,, .																								

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6.1	5.7	254	31	5.4	4.9	248	31	6.9	6.4	252	31	4.5	4.2	230	31	4·1	3.8	261	31	6.9	6·0	263
0·15 a. g. .	27	10.0	9.5	253	22	9.0	8.4	233	29	9.5	9·2	249	29	8.1	7.8	233	30	6·9	6.4	262	30	9.6	8·2	260
0·3 a. m. s. l. .	27	10.3	9.7	252	22	9.9	9.6	239	29	10.2	9.9	250	27	9·6	9.4	240	30	8.2	7.9	261	30	10.1	8·8	262
0·6 ,, .	26	11.5	11.1	255	18	11.9	11.6	246	29	11.8	11.4	250	21	11.0	10.8	251	30	12.3	12.2	264	30	9.5	8·8	260
0·9 ,, .	25	11.9	11·5	263	10	11.5	11.3	248	27	12.6	12.4	255	16	11·1	10.9	256	30	13.2	13.0	267	30	9.5	9·5	260
1·5 ,, .	25	11.6	11.3	255	2	11.3	11.3	243	27	13.0	12.7	253	3	9·0	9.0	270	30	13.5	13·3	265	28	10.9	10.7	265
2·1 ,, .	25	10.5	10.1	258	1	10·5	10.5	240	27	11.9	11·7	252	1	8.0	8·0	255	29	12.2	11.9	266	24	13·1	12.7	268
3·0 ,, .	25	10·0	9.3	264					27	12.0	11·4	256					23	9.0	4.2	271	15	10.7	10.3	275
3·6 ,, .	25	8.6	7.1	272					26	10.4	9.2	261					17	8.0	7.7	269	8	9.4	9.2	274
4·5 ,, .	25	7.1	4.7	290					26	9.0	4.9	270					12	8.2	7·7	264	3	7·0	5·7	264
5·4 ,, .	25	6.3	2·2	306					26	7.6	1·6	271					5	7·0	6.5	243	1	5.0	5.0	200
6·0 ,, .	25	5·8	1·4	334					26	6.7	1.3	271					3	7.3	6.4	242	1	5.5	5·5	200
7·2 ,, .	25	6.8	3.8	050					26	6.7	3.7	081					2	4.3	4.0	206	1	7.5	7.5	160
9·0 ,, .	19	8.7	5.4	078					23	9.5	8.1	090												

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

July 1961 (Asadha 10, —Sravana 9, 1883 Saka)

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·5	5·3	261	31	3·0	2·3	315	31	2·3	1·7	307	31	4·1	3·6	298	31	1·8	1·4	331	31	0·7	0·6	238
0·15 a. g.	31	8·3	7·7	259	31	6·9	5·6	310	30	5·3	4·3	303	31	6·4	5·9	301	29	5·5	4·7	299	31	3·3	2·3	235
0·3 a. m. s. l.	31	8·8	8·4	261	31	7·3	5·8	306	30	6·0	4·9	298	31	6·7	6·1	300	29	6·6	5·8	292				
0·6 ,,	31	11·5	11·3	265	31	9·8	8·7	287	30	8·5	7·5	287	31	9·7	8·8	291	29	9·6	8·6	284				
0·9 ,,	31	12·5	12·2	265	31	11·5	10·8	285	24	10·4	9·6	289	31	10·6	9·8	288	28	10·8	10·1	285	31	4·4	2·7	243
1·5 ,,	31	12·2	12·2	267	31	11·7	11·2	285	15	11·5	11·1	296	31	11·9	11·4	292	20	11·9	11·3	292	10	5·9	1·5	60
2·1 ,,	28	12·3	12·0	274	30	12·3	11·6	280	6	13·7	13·4	292	31	11·9	11·1	288	16	11·4	10·7	276	8	8·4	4·6	96
3·0 ,,	20	8·8	8·3	278	29	11·5	11·1	274	3	11·8	11·4	285	31	11·0	10·7	279	15	11·3	10·7	276	4	8·0	7·4	172
3·6 ,,	8	8·4	8·3	275	29	9·5	9·4	271	2	10·7	10·1	263	31	11·1	9·7	274	3	13·2	13·1	268	3	7·5	7·5	180
4·5 ,,	2	7·0	6·9	273	28	8·9	8·3	260	2	9·7	9·7	262	31	8·8	8·1	273	2	5·0	4·9	280	3	9·8	8·7	93
5·4 ,,	1	3·5	3·5	270	28	8·3	7·4	269					31	8·0	7·1	271	1	5·0	5·0	210	1	11·0	11·0	195
6·0 ,,					27	7·0	5·4	275					30	7·7	6·3	271					1	8·5	8·5	185
7·2 ,,					27	5·7	0·6	315					30	6·0	0·2	065								
9·0 ,,					25	10·1	7·5	066					25	9·9	6·7	071								

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I. S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·7	224	31	1·1	0·9	214	31	2·7	2·2	246	31	3·1	2·8	240	31	2·9	2·5	247	17	6·4	5·6	272
0.15 a. g.	30	4·4	2·6	217	30	3·3	2·6	230	27	8·9	8·5	256	28	8·5	8·1	254	28	8·2	7·7	255	17	10·2	9·2	253
0.3 a. m. s. l.									27	10·3	9·9	259	28	11·7	11·3	256	28	9·7	9·3	260	17	11·0	4·4	234
0·6 ,,									24	13·6	13·1	263	28	13·9	13·5	260	22	12·6	12·2	263	16	12·2	10·6	256
0·9 ,,	30	5·2	2·7	220	30	4·5	3·7	230	4	12·0	11·9	286	10	15·7	15·4	271	6	13·2	12·9	276	6	9·3	7·0	270
1·5 ,,	24	5·4	2·3	213	21	6·0	3·3	222					1	9·5	9·5	280	2	15·3	15·2	290	5	8·3	5·8	166
2·1 ,,	17	5·9	1·7	172	15	5·4	1·7	137									2	13·3	13·1	290	4	7·9	4·1	270
3·0 ,,	11	5·3	2·0	132	10	6·4	4·5	075													4	8·0	1·4	281
3·6 ,,	10	5·3	2·4	109	7	7·5	5·8	080													4	9·7	1·4	181
4·5 ,,	7	5·3	4·3	113	3	7·8	6·9	055													4	8·5	1·5	119
5·4 ,,	4	5·0	3·0	071	2	7·3	7·3	068													4	6·4	2·8	097
6·0 ,,	3	6·7	6·1	090																	4	6·0	1·6	078
7·2 ,,	2	9·0	8·1	061																	4	6·9	3·8	109
9·0 ,,	1	10·5	10·5	120																	2	8·0	8·0	088

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

July 1961 (Asadha 10 —Sravana 9, 1883 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	18	8·6	5·4	270	17	6·4	6·0	256	31	6·1	5·3	253	31	3·4	3·2	252	31	4·8	4·0	221	31	4·0	3·7	246
0·15 a.g.	18	10·9	9·4	253	17	10·6	10·3	247	29	9·5	9·0	247	31	7·9	7·1	277	28	6·0	4·9	228	31	7·3	6·1	264
0·3 a.m.s.l.	18	12·5	10·6	258	17	10·9	10·7	251	29	10·6	10·1	249	31	9·1	8·6	267	27	5·9	5·2	241	31	8·2	6·9	254
0·5 ,,	18	12·9	10·4	264	14	10·8	10·3	258	27	12·2	11·9	253	31	11·3	10·6	266	27	7·3	6·9	256	31	10·3	9·2	245
0·[illegible] ,,	6	10·8	6·8	289	10	10·5	9·0	265	15	10·9	10·8	251	31	13·0	12·2	268	25	9·2	8·7	274	31	11·4	10·0	256
1·[illegible] ,,	1	3·0	3·0	330	7	7·6	4·2	290	7	7·9	7.8	252	31	14·6	13·9	269	21	14·4	13·5	282	31	12·6	11·3	272
2·[illegible]					7	8·0	4·1	289	4	5·5	5·3	222	31	13·4	12·6	267	19	13·8	12·6	275	31	12·7	11·4	272
3·[illegible] ,,					7	7·6	3·3	304	2	4·0	4·0	184	31	12·7	11·0	266	12	10·5	8·6	267	31	12·2	10·7	273
3·[illegible] ,,					7	6·5	2·3	300	1	3·0	3·0	175	30	10·9	8·5	266	6	7·3	4·3	263	31	10·0	8·0	273
4·[illegible] ,,					7	5·9	0·8	005					29	8·9	4·6	267	4	4·3	4·1	252	31	8·9	6·4	280
5·[illegible]					7	4·7	2·0	034					29	7·4	2·0	271	1	10·0	10·0	225	31	8·5	5·2	269
6·[illegible] ,,					7	4·9	3·1	033					29	6·7	0·7	274	1	3·0	3·0	190	30	8·7	3·6	274
7·[illegible]					7	6·8	5·7	067					28	8·4	3·1	062	1	3·5	3·5	135	30	7·1	1·5	066
9·[illegible]					4	8·9	8·4	078					23	9·8	7·8	074	1	6·0	6·0	120	28	9·8	8·5	070

Station.	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface	31	4·0	3·5	225
0·15 a.g.	27	6·6	6·1	232
0·3 a.m.s.l.	26	7·5	6·9	237
0·5 ,,	26	8·8	8·1	246
0·9 ,,	24	10·5	9·8	253
1·5 ,,	23	14·5	13·7	263
2·4 ,,	25	10·5	9·5	276
3·0 ,,	11	7·1	5·0	282
3·6 ,,	5	5·5	1·1	087
4·5 ,,	5	5·5	4·8	086
5·4 ,,	4	5·3	5·1	114
6·0 ,,	1	4·5	4·5	100
7·2 ,,				
9·0 ,,				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

July 1961 (Asadha 10, —Sravana 9, 1883 Saka)

Ht. in Km.	n	V	v	D
AMBALA				
0530 hr.				
10.5	2	6.5	2.7	227
12.0	2	11·3	2·9	167
14.1	1	6.0	6.0	330
16·2	1	5.0	5.0	105
BAGHDOGRA				
1730 hr.				
10.5	1	14.5	14.5	060
12·0	1	17.0	17.0	060
14.1	1	14·5	14·5	066
BAIRAGARH				
0530 hr.				
10·5	1	16.5	16.5	100
BAMRAULI				
0530 hr.*				
10.5	10	14.5	13.8	094
12·0	6	11.7	11·2	090
14.1	3	17.2	17.2	065
16.2	1	27.0	27.0	090
1730 hr.*				
10.5	18	9.8	9.1	081
12.0	13	11.8	11.4	085
14.1	7	11.3	10.2	055
16.2	3	17.0	16.7	050
18.0	1	23.5	23.5	090
BANGALORE				
1730 hr.				
10.5	2	6.7	3.5	112
12.0	1	13.0	13.0	070
14.1	1	27.5	27.5	075
BEREILLY				
0530 hr.				
10·5	1	2.0	2.0	155
1730 hr.				
10.5	1	8.5	8.5	110
BHAGALPUR				
0530 hr.				
10.5	3	10.2	8.6	096
12.0	2	11.3	11.1	085
14.1	2	8.7	8.1	069
16·2	1	16.5	16.5	040

Ht. in Km.	n	V	v	D
BHAGALPUR				
1730 hr.				
10.5	3	9.7	9.5	085
12.0	2	22.7	20.5	102
14.1	1	29.0	29.0	065
BIKANER				
0530 hr.				
10.5	1	7·5	7·5	055
DARJEELING				
0530 hr.				
10.5	1	8.0	8.0	100
12.0	1	7.0	7.0	100
DEHRA DUN				
1730 hr.				
10.5	1	12.0	12.0	165
12.0	1	15.5	15.5	175
DUM DUM				
0530 hr.*				
10.5	22	15.0	14.4	092
12·0	18	20.5	19.6	085
14.1	10	25.3	23.8	083
16.2	5	28.8	28.0	082
18.0	3	28.6	28.6	078
1730 hr.*				
10.5	23	14.5	14.0	087
12.0	20	18.5	17.4	085
14.1	16	21.1	20.2	076
16.2	9	25.0	24.7	080
18.0	6	28.6	28.4	081
21.0	2	28.2	28.2	090
GANNAVARAM				
0530 hr.				
10.5	1	12.5	11.5	090
12.0	1	15.5	15.5	080
1730 hr.				
10.5	2	17.7	17.7	092
12.0	1	35.0	35.0	085
14.1	1	37.0	37.0	085
16.2	1	33.0	33.0	070

Ht. in Km.	n	V	v	D
GAUHATI				
0530 hr.*				
10.5	11	7.2	5.5	070
12.0	8	10.7	9.8	069
14.1	5	13.2	11.2	074
16.2	1	13.0	13.0	060
1730 hr.				
10.5	19	7.7	6.2	085
12.0	11	9.6	8.6	080
14.1	5	17.7	15.2	094
16.2	3	17.8	16.3	103
18.0	2	17.5	17.3	084
GORAKHPUR				
0530 hr.				
10.5	1	12.0	12.0	075
12.0	1	14.0	14.0	075
GWALIOR				
0530 hr.				
10.5	3	10.2	9.9	131
1730 hr.				
10.5	1	11.0	11.0	065
IMPHAL				
1730 hr.				
10.5	1	16·0	16.0	095
12.0	1	21.0	21.0	110
14.1	1	34.0	34.0	115
16.2	1	27.0	27.0	105
JABALPUR				
0530 hr.				
10.5	1	16·5	16·5	095
JODHPUR				
0530 hr.*				
10.5	9	8·0	7·3	086
12.0	4	7·9	7·2	064
14.1	2	11·3	10·7	087
1730 hr.*				
10.5	8	11·7	10.2	095
12.0	1	8·0	8·0	140

Ht. in Km.	n	V	v	D
MADRAS				
0530 hr.*				
10·5	30	13·6	12·5	077
12·0	29	20·9	20·2	078
14·1	21	32·3	31·9	083
16·2	18	28·2	26·2	090
18.0	10	23·3	22·4	088
21·0	1	19.5	19.5	085
1130 hr.				
10·5	1	19·0	19·0	090
1730 hr.*				
10·5	29	13·7	12·8	085
12.0	27	19·2	19·2	078
14·1	20	32·5	32·0	086
16·2	17	33·5	33·1	092
18.0	11	24·1	22.8	083
21·0	2	30·0	29·9	102
MOHANBARI				
1730 hr.				
10.5	1	16.0	16.0	090
NAGPUR				
0530 hr.*				
10.5	21	14.5	14·4	090
12.0	18	21·1	20·6	082
14·1	15	26.6	26.4	084
16·2	9	32.6	32.4	086
18.0	7	26.8	26.6	089
21.0	2	30.0	30.0	085
1730 hr.*				
10·5	16	12.9	12.2	085
12·0	14	17.3	16.7	080
14·1	11	25.9	24.4	086
16·2	10	30.9	30.8	080
18·0	6	33·7	33·6	076
21·0	1	10·5	10·5	085
NANPARA				
1730 hr.				
10·5	9	12·9	11·5	111
12·0	7	16.2	14.6	107
14·1	6	19.3	15.2	105

Ht. in Km.	n	V	v	D
NEW DELHI				
0530 hr.*				
10·5	31	6.8	4.5	09
12·0	30	8.2	6.1	08
14·1	29	9.8	7.6	08
16·2	20	15.3	14.7	06
18·0	16	16·7	16.0	07
21·0	3	16·3	16·3	08
1130 hr.				
10·5	1	18·5	18·5	11
12·0	1	18.5	18.5	13
14·1	1	17.5	17.5	12
16·2	1	9.0	9.0	11
18·0	1	14.0	14.0	12
21·0	1	6.0	6.0	09
1730 hr.*				
10·5	29	7·2	4·1	09
12·0	28	7·5	5·0	108
14·1	26	9.3	6.9	085
16·2	19	14.1	13.2	082
18·0	15	16.2	15.4	085
21·0	6	15.4	15.4	076
24·0	1	15.0	15.0	100
PORT BLAIR				
0530 hr.*				
10.5	15	17·2	15·6	061
12·0	13	20·7	20·0	069
14.1	5	26·4	25·2	073
16.2	2	57.3	50.7	084
1730 hr.*				
10.5	17	17·7	16·2	070
12.0	12	21.8	20.7	064
14.1	7	31.4	30.9	070
16.2	3	34.0	33.8	089
18.0	2	26·0	25·7	078
SANTA CRUZ				
0530 hr.*				
10.5	16	13·0	11·0	075
12.0	14	13.7	12·3	089
14.1	8	18·7	17·0	089
16.2	2	17·5	16·5	033

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9·0 Km. above mean sea level

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Ht. in Km.	n	V	v	D
		SANTA CRUZ		
		1730 hr.*		
10·5	18	12·8	11·8	090
12.0	12	19·0	17·8	081
14·1	6	31·2	30·9	089
16·2	2	35·7	35·7	095
		TRIVANDRUM		
		0530 hr.*		
10·5	23	16 8	15·4	072
12.0	19	26·3	25 6	075
14.1	16	36·9	36·1	077
16.2	10	04·3	23·9	090
18.0	8	21·0	20.6	085
21.0	1	15·0	15 0	075
		1730 hr.*		
10·5	20	14·8	13·6	078
12.0	17	22·5	22·0	073
14·1	11	31·3	30·7	082
16.2	5	25·1	34·6	089
		UDAIPUR		
		1730 hr.		
10.5	1	16.0	16.0	090
12·0	1	17·5	17·5	145
		VERAVAL		
		0530 hr.*		
10.5	2	12.5	11.6	076
12.0	1	13·0	13·0	105
		1730 hr.*		
10.5	3	11.1	9·2	088
12.0	3	26·2	24·7	107
14.1	3	17·3	17·3	074
16·2	1	25·0	25·0	100
		VISAKHAPATNAM		
		0530 hr.*		
10.5	20	17·1	13·1	080
12.0	19	23·5	22·8	082
14.1	17	29·8	29.3	083
16.2	10	37·5	36·7	080
18.0	5	30·7	30·3	091
		1130 hr.		
10.5	1	10·0	10·0	075
12.0	1	23·5	23·5	085

Ht. in Km.	n	V	v	D
		VISAKHAPATNAM		
		1730 hr.*		
10 5	25	14·4	13·7	080
12·0	22	18·7	18·2	085
14.1	21	32·3	31·3	078
16.2	18	32·7	31·4	081
18·0	8	25·1	25·6	089
21·0	2	22·0	21·9	060
24.0	1	36·0	36 0	090

RADIOSONDE DATA

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Allahabad	Clock type	1st October, 1944	00 and 12	
2	Bangalore	Fan type	10th March, 1961	00 and 12	
3	Bombay	Clock type	7th September, 1954	00 and 12	
4	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
5	Gauhati	Clock type	22nd July, 1955	00 and 12	
6	Jodhpur	Clock type	17th April, 1946	00 and 12	
7	Madras	Fan type	29th June, 1946	00 and 12	
8	Nagpur	Fan type	1st October, 1946	00 and 12	
9	New Delhi	Clock type	3rd December, 1943	00 and 12	
10	Port Blair	Fan type	4th December, 1946	00 and 12	
11	Trivandrum	Fan type	1st July, 1947	00 and 12	
12	Veraval	Fan type	3rd October, 1944	00 and 12	Closed on 20-7-1961
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

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

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Standard Pressure Surface mb.	ALLAHABAD (986 mb.)						BANGALORE (906 mb.)						BOMBAY (999 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	098	300·2	304	298	298·4	30	921	292·9	294	291	291·5	30	013	299·2	301	297	297·7
1000	27	−026	..	..	..	..	30	065	..	..	..	..	30	005	..	..	..	..
900	27	906	296·7	300	293	293·9	29	976	292·2	294	290	291·3	30	929	294·6	297	292	292·9
850	27	1407	294·7	296	291	291·5	29	1466	289·6	292	286	288·3	30	1424	291·8	294	290	289·7
800	27	1931	292·1	295	289	283·6	29	1981	287·3	290	281	284·9	30	1944	289·1	291	287	286·8
700	27	3071	286·3	290	285	282·6	29	3098	232·3	285	277	278·5	30	3073	284·5	287	283	280·0
600	27	4358	280·3	283	279	275·5	28	4360	275·0	279	270	273·4	30	4350	278·3	283	275	273·8
500	27	5839	272·3	275	270	268·9	27	5808	263·2	271	261	..	30	5819	270·8	274	267	270·1
400	26	7593	262·8	267	259	..	27	7524	257·7	261	250	..	30	7564	262·0	265	259	..
300	23	9752	249·7	256	245	..	21	9635	242·5	246	235	..	20	9721	248·7	255	240	..
250	22	11056	242·1	248	235	..	20	10909	233·2	240	229	..	19	11026	240·0	247	233	..
200	17	12603	229·3	234	223	..	18	12387	221·6	225	215	..	15	12549	228·5	237	223	..
175	12	13508	222·8	228	211	..	16	13224	215·6	220	209	..	12	13415	221·1	228	217	..
150	11	14500	217·4	225	212	..	14	14193	205·9	212	200	..	7	14423	216·0	221	210	..
125	9	15619	208·3	214	206	..	14	15273	200·3	207	194	..	6	15552	208·8	218	201	..
100	7	16990	202·2	206	198	..	11	16695	199·9	215	193	..	..	..	..	..	..	..
80	..	..	..	..	..	..	10	17972	200·7	212	194	..	..	..	..	..	..	..
70	..	..	..	..	..	..	9	18703	204·3	212	197	..	..	..	..	..	..	..
60	..	..	..	..	..	..	7	19816	209·4	218	201	..	..	..	..	..	..	..
50	..	..	..	..	..	..	6	20848	212·7	218	206	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	CALCUTTA (998 mb.)						GAUHATI (995 mb.)						JODHPUR (972 mb.)					
Surface	31	006	299·6	302	298	298·3	31	049	300·7	303	300	299·2	30	218	300·9	305	299	297·6
1000	31	−010	..	..	..	..	31	006	..	..	..	..	30	−031	..	..	..	..
900	31	914	294·3	297	291	291·7	31	934	295·8	299	292	293·7	30	903	297·4	303	294	293·0
850	31	1409	291·8	294	289	289·1	31	1431	293·8	297	289	291·0	30	1402	294·6	299	290	289·8
800	31	1929	289·5	292	287	286·5	31	1954	290·5	294	285	288·2	30	1927	292·4	296	286	286·6
700	31	3059	284·3	287	280	280·2	31	3086	284·9	289	277	281·8	30	3069	287·9	298	282	278·5
600	31	4335	278·2	282	273	274·6	30	4365	278·8	282	275	274·8	30	4356	280·3	283	276	271·3
500	31	5806	270·5	274	265	265·5	29	5835	270·9	274	267	271·4	30	5835	271·9	278	268	259·6
400	31	7549	261·2	267	256	..	29	7580	261·7	267	256	..	30	7586	262·6	269	258	..
300	27	9699	247·6	254	241	..	16	9761	250·3	255	247	..	24	9755	250·5	256	244	..
250	24	10996	238·5	245	231	..	13	11077	241·4	245	236	..	20	11064	240·9	246	232	..
200	22	12535	228·0	236	219	..	10	12620	229·6	233	224	..	17	12606	230·2	234	224	..
175	15	13400	221·2	232	213	..	8	13483	222·9	226	217	..	17	13497	223·6	229	217	..
150	13	14376	213·3	226	205	..	..	..	..	..	..	..	16	14504	216·6	223	212	..
125	8	15545	206·3	218	201	..	..	..	..	..	..	..	7	15584	208·0	213	201	..
100	7	16838	198·7	204	194	..	..	..	..	..	..	..	5	16869	202·0	208	197	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1961 (Asadha 10 —Sravana 9, 1883 Saka)

Standard Pressure Surface mb.	MADRAS (1003 mb.)						NAGPUR (964 mb.)						NEW DELHI (974 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	31	015	299·5	302	297	296·1	30	311	297·5	299	296	296·1	31	209	301·0	303	299	297·7
1000	31	040	..	..	..	..	30	−086	..	..	..	..	30	−030	..	..	..	..
900	31	964	294·5	298	291	288·4	30	917	295·5	298	293	292·9	31	904	298·1	301	294	293·2
850	31	1459	291·5	295	288	286·3	30	1416	292·9	295	290	290·6	31	1404	295·2	297	292	290·7
800	31	1977	288·5	293	285	283·3	30	1939	290·1	292	287	287·5	31	1929	292·1	295	289	288·0
700	31	3100	282·2	285	278	277·5	30	3072	284·4	289	281	281·0	31	3065	285·9	288	284	281·2
600	31	4360	274·5	277	272	271·4	30	4351	278·4	281	275	274·8	31	4346	279·6	283	276	274·5
500	31	5812	266·8	269	264	..	27	5825	270·4	273	265	..	31	5825	272·2	276	269	263·8
400	31	7523	256·6	261	253	..	25	7567	260·6	265	257	..	31	7575	262·5	265	260	..
300	30	9622	241·0	247	233	..	22	9716	247·2	253	243	..	30	9734	249·2	254	245	..
250	30	10884	231·2	237	223	..	20	11011	237·5	243	233	..	30	11048	240·6	248	237	..
200	29	12349	218·3	227	209	..	19	12527	226·3	233	222	..	30	12579	228·5	233	224	..
175	26	13173	210·8	222	203	..	19	13382	219·5	227	215	..	29	13462	221·4	226	213	..
150	26	14164	202·5	215	194	..	19	14376	211·6	221	206	..	29	14445	214·1	218	206	..
125	22	15219	198·7	210	192	..	15	15496	205·8	213	200	..	26	15552	205·9	210	197	..
100	20	16502	198·7	205	192	..	13	16857	199·0	205	193	..	23	16877	198·7	204	193	..
80	14	17930	202·6	209	198	..	9	18116	199·5	204	193	..	19	18191	199.8	206	194	..
70	12	18584	205·0	212	195	..	9	18955	201·0	207	194	..	15	18957	202·7	209	195	..
60	10	19533	210·6	215	203	..	5	19850	206·2	211	201	..	12	19895	209·1	214	204	..
50	5	20626	213·0	221	205	..	..	..	..	..	..	..	8	21033	214·0	219	203	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22347	218·0	225	208	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	PORT BLAIR (998 mb.)						TRIVANDRUM (1001 mb.)						VERAVAL (997 mb.)					
Surface	30	079	298·3	300	296	296·9	31	064	297·2	299	296	295·7	19	008	300·7	301	299	298·8
1000	30	065	..	..	..	..	31	070	..	..	..	..	19	−018	..	..	..	..
900	30	984	293·2	297	288	290·4	31	989	292·2	295	290	290·2	19	909	294·0	297	291	291·3
850	30	1475	290·8	294	285	287·4	31	1481	289·5	293	287	286·6	19	1403	291·4	297	288	297·7
800	30	1992	288·2	292	283	284·0	31	1997	286·9	290	285	283·2	19	1922	289·4	294	287	282·1
700	30	3113	282·4	291	277	277·3	31	3117	281·5	285	278	275·6	18	3054	284·9	289	281	273·1
600	29	4376	274·4	278	271	270·9	31	4378	274·3	279	272	269·4	18	4329	277·9	281	274	269·1
500	29	5823	266·2	274	263	..	30	5829	266·0	271	263	..	18	5793	268·8	273	264	..
400	29	7531	255·5	261	250	..	30	7536	255·1	260	251	..	18	7520	259·1	263	253	..
300	28	9629	241·4	251	236	..	27	9632	240·2	247	234	..	13	9637	244·9	252	240	..
250	26	10890	231·0	241	219	..	25	10889	230·5	238	222	..	10	10917	234·2	241	229	..
200	25	12369	217·4	228	208	..	22	12355	218·0	227	212	..	7	12416	221·4	228	215	..
175	19	13244	211·7	221	203	..	21	13185	211·7	222	205	..	6	13296	212·8	216	207	..
150	16	14257	204·5	213	195	..	20	14144	205·3	216	197	..	6	14213	205·1	209	196	..
125	12	15310	201·5	211	191	..	16	15209	200·9	208	195	..	6	15308	200·2	205	192	..
100	10	16620	199·8	206	191	..	13	16539	199·4	203	191	..	6	16593	197·8	205	192	..
80	5	18019	202·2	208	193	..	9	17932	202·8	207	195	..	..	..	..	..	..	..
70	..	..	..	..	..	..	6	18690	204·1	210	195	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1961 (Asadha 10—Sravana 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	299·0	301	298	296·7
1000	31	005	..	..	..	..
900	31	930	294·6	297	291	291·2
850	31	1425	292·1	295	287	287·5
800	31	1948	289·3	293	285	285·6
700	31	3072	283·2	288	277	279·3
600	30	4340	276·4	281	270	273·9
500	30	5800	269·0	274	263	..
400	30	7511	258·6	267	251	..
300	26	9649	244·4	252	239	..
250	23	10928	233·9	243	228	..
200	22	12731	221·0	228	214	..
175	20	13245	214·3	221	207	..
150	20	14213	207·1	219	198	..
125	16	15309	200·0	207	193	..
100	14	16611	196·9	208	187	..
80	8	17873	196·7	204	191	..
70	6	18665	196·8	209	195	..
60	..	..	..	..	..	..
50	..	..	..	..	..	..
	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1961 (Asadha 10—Sravana 9, 1883 Saka).

Standard pressure Surface mb.	ALLAHABAD Surf. Pr. (992 mb.)						BANGALORE (905 mb.)						BOMBAY (1000 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	098	304·1	309	298	298·6	31	921	296·6	299	294	292·1	31	013	300·2	302	298	298·1
1000	31	−043	..	..	..	..	31	042	..	..	..	..	31	009	..	..	..	..
900	31	899	298·6	302	294	294·0	29	966	296·2	299	293	290·9	31	936	294·7	297	293	292·5
850	31	1402	295·7	299	292	291·8	29	1461	292·3	295	290	288·0	31	1431	292·0	295	289	289·7
800	31	1928	292·6	296	289	289·0	29	1979	288·7	291	285	285·4	31	1958	289·5	292	286	287·0
700	31	3070	287·0	291	283	282·8	29	3191	282·6	287	277	279·3	31	3080	284·6	287	281	279·9
600	31	4360	280·8	286	276	274·9	29	4362	275·4	278	271	273·5	31	4357	278·4	281	273	273·0
500	30	5846	273·1	276	268	266·6	28	5814	267·7	271	263	267·0	31	5829	271·8	276	267	268·4
400	26	7607	263·8	269	258	..	28	7531	257·6	262	250	..	31	7582	263·1	268	258	..
300	22	9775	249·7	254	241	..	26	9639	243·2	249	234	..	28	9748	250·3	256	245	..
250	20	11085	240·6	246	233	..	25	10914	234·3	239	230	..	25	11058	241·3	248	236	..
200	16	12641	230·3	235	221	..	20	12394	221·4	229	215	..	25	12594	230·3	238	225	..
175	13	13518	222·8	228	213	..	19	13249	215·0	224	208	..	18	13473	224·2	232	218	..
150	11	14537	216·9	222	214	..	19	14211	207·7	219	199	..	15	14513	218·7	226	214	..
125	10	15682	209·1	215	203	..	17	15288	202·8	216	193	..	14	15672	212·1	221	208	..
100	9	17001	201·3	206	198	..	15	16616	199·2	207	193	..	8	17018	205·9	211	201	..
80	7	18263	200·1	207	193	..	12	17926	198·4	206	192	..	5	18540	207·0	214	201	..
70	5	19016	203·0	210	196	..	12	18714	201·4	208	194	..	..	..	..	..	..	..
60	..	..	..	..	..	..	8	19727	204·4	213	196	..	..	..	..	..	..	..
50	..	..	..	..	..	..	7	20765	207·7	213	199	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard pressure Surface mb.	CALCUTTA (996 mb.)						GAUHATI (993 mb.)						JODHPUR (971mb.)					
Surface	31	006	302·4	305	299	299·0	31	049	302·7	306	301	299·7	31	218	308·1	313	303	296·4
1000	31	−027	..	..	..	..	31	−019	..	..	..	..	31	−051	..	..	..	
900	31	904	296·2	300	292	293·7	31	915	297·2	300	291	294·3	31	906	302·1	308	297	293·4
850	31	1401	293·5	297	290	290·9	31	1415	294·4	298	287	291·6	31	1408	297·7	304	294	291·3
800	31	1924	290·7	294	287	288·2	31	1942	291·5	295	285	288·1	31	1938	294·0	300	291	288·4
700	31	3058	285·7	289	283	282·0	31	3073	285·7	289	280	282·3	31	3084	288·5	292	285	279·9
600	30	4339	279·2	284	276	275·0	30	4358	279·4	283	275	275·8	31	4378	281·6	284	279	263·8
500	30	5815	271·8	276	267	266·3	30	5835	271·8	274	267	269·8	31	5868	274·1	277	270	262·2
400	30	7566	262·2	267	258	..	30	7586	262·6	266	256	..	31	7629	264·7	270	259	..
300	28	9717	248·4	255	243	..	21	9749	249·2	254	244	..	21	9811	252·5	260	246	..
250	23	11027	238·9	245	232	..	17	11066	240·9	247	234	..	15	11132	243·8	249	237	..
200	20	12567	227·5	232	221	..	13	12612	229·8	237	222	..	12	12546	235·0	243	227	..
175	20	13445	220·5	226	215	..	9	13497	221·7	227	215	..	9	13585	227·3	233	221	..
150	19	14428	213·0	219	208	..	8	14504	216·0	219	210	..	8	14605	219·9	227	212	..
125	15	15557	204·5	212	198	..	5	15684	208·4	213	206	..	8	15758	214·3	221	209	..
100	14	16861	199·0	206	193	..	..	..	..	..	..	..	6	17139	204·5	208	201	..
80	6	18225	200·5	208	196	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1961 (Asadha 10 —Sravana 9, 1883 Saka)

Standard Pressure Surface mb.	MADRAS Surf. Pr. (1001 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	NAGPUR (963 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point	NEW DELHI (972 mb.) No. of Obs.	Ht. gpm.	Temperature° A Mean	Max.	Min.	Dew point
Surface	31	015	304·4	308	302	296·6	28	311	300·0	305	297	296·9	31	209	306·5	311	299	298·0
1000	31	023	..	..	..	..	28	−021	..	..	..	..	31	−048	..	..	..	..
900	31	958	297·1	301	295	290·7	28	913	296·9	300	291	293·3	31	900	301·2	306	296	293·7
850	31	1457	293·0	297	290	289·0	28	1412	293·7	297	288	291·2	31	1405	297·2	302	293	291·3
800	31	1979	289·3	291	285	286·3	28	1938	290·8	293	286	288·3	31	1933	293·5	297	290	288·7
700	31	3103	282·5	286	279	279·1	28	3071	284·9	287	283	282·0	31	3074	287·2	289	285	281·7
600	31	4368	275·8	279	273	273·1	27	4354	278·7	281	275	275·5	31	4362	280·7	284	278	273·3
500	31	5824	268·0	275	265	..	26	5828	270·5	273	267	263·5	30	5845	273·1	276	270	262·2
400	31	7543	257·3	260	254	..	23	7575	260·7	265	256	..	30	7601	262·8	267	260	..
300	30	9647	241·8	248	237	..	20	9726	248·6	253	242	..	30	9764	249·4	255	244	..
250	30	10914	231·9	237	221	..	17	11033	237·5	243	232	..	30	11073	240·3	247	235	..
200	29	12390	220·4	225	211	..	16	12544	224·3	233	218	..	30	12608	229·0	236	223	..
175	26	13213	213·8	221	203	..	13	13388	219·8	227	212	..	28	13489	221·3	228	213	..
150	21	14173	206·1	215	197	..	13	14370	211·9	219	204	..	28	14473	213·7	220	207	..
125	19	15444	199·3	213	192	..	12	15482	205·4	213	199	..	27	15590	205·3	213	197	..
100	17	16542	198·3	208	191	..	9	16868	200·9	203	194	..	23	16877	198·0	219	189	..
80	14	17877	202·8	210	194	..	6	18127	198·2	209	190	..	16	18140	199·8	208	194	..
70	11	18597	204·9	212	197	..	6	18880	198·7	214	190	..	12	18921	203·6	213	197	..
60	10	19608	207·9	217	202	..	..	..	..	..	..	..	7	19829	207·6	216	202	..
50	6	20699	207·2	219	195	..	..	..	..	..	..	..	6	20904	212·6	220	209	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	PORT BLAIR (998 mb.)						TRIVANDRUM (1000 mb.)						VERAVAL (997 mb.)					
Surface	31	079	299·3	301	296	296·6	31	064	300·0	301	297	296·6	19	008	300·8	303	297	299·1
1000	31	058	..	..	..	..	31	066	..	..	..	..	19	−021	..	..	..	..
900	31	981	294·0	297	291	291·0	31	989	292·6	295	288	289·8	19	908	295·0	299	292	292·6
850	31	1473	291·3	[illegible]95	289	287·5	31	1481	289·9	293	285	287·2	19	1403	292·5	297	288	288·7
800	31	1991	288 7	92	286	284·1	31	1998	287·2	290	283	284·0	19	1923	290·3	296	283	286·0
700	31	3114	28 ·	286	280	277·5	31	3119	282·4	286	280	276·4	19	3058	285·7	291	279	279·2
600	30	4378	275·	280	270	271·3	31	4385	275·6	279	273	269·4	19	4363	278·6	282	273	274·0
500	27	5829	267·5	273	264	..	31	5841	267·5	275	265	..	19	5804	269·6	274	265	..
400	27	7546	25 3	262	254	..	31	7559	257·4	263	251	..	19	7540	259·6	265	254	..
300	27	9649	241 6	249	236	..	27	9659	241·0	248	231	..	16	9679	246·5	257	245	..
250	23	10911	231·3	239	226	..	24	10911	230·6	238	218	..	12	10973	236·6	241	230	..
200	22	12374	218·4	225	211	..	20	12376	219·0	229	210	..	11	12470	222·8	230	217	..
175	18	13240	211·4	221	204	..	17	13223	212·9	224	205	..	11	13338	215·5	225	207	..
150	17	14179	203·4	214	194	..	14	14164	205·1	214	201	..	11	14289	208·8	221	204	..
125	10	15251	201·0	213	191	..	9	15255	200·1	211	193	..	11	15395	200·3	216	193	..
100	5	16643	290·2	206	193	..	6	16573	198·2	203	192	..	10	16684	195·0	210	187	..
80	..	..	..	..	..	..	..	..	..	..	..	..	8	17909	200·0	211	192	..
70	..	..	..	..	..	..	..	..	..	..	..	..	5	18658	205·6	215	192	..
60	..	..	..	..	..	..	..	..	..	..	..	..	5	19609	208·5	216	194	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

July 1961 (Asadha 10 —Sravana 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (.995mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	301·3	304	299	297·7
1000	31	—003	..	..	..	..
900	31	927	295·4	298	293	291·7
850	31	1423	292·6	296	290	289·2
800	31	1944	290·0	293	287	286·5
700	31	3074	284·1	287	281	280·0
600	31	4343	276·7	281	273	273·3
500	31	5803	268·7	273	265	..
400	30	7531	258·6	263	254	..
300	28	9649	243·4	249	237	..
250	26	10926	232·8	239	226	..
200	23	12407	219·8	228	214	..
175	22	13245	211·8	225	200	..
150	22	14194	204·0	215	195	..
125	22	15245	198·4	207	188	..
100	19	16545	195·6	207	185	..
80	14	17822	200·6	210	190	..
70	9	18678	204·1	211	190	..
60	7	19589	201·9	211	191	..
50	..	..	..	..	..	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

Note : Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 100mb. surface and for dew point for standard pressure surfaces with temperatures less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

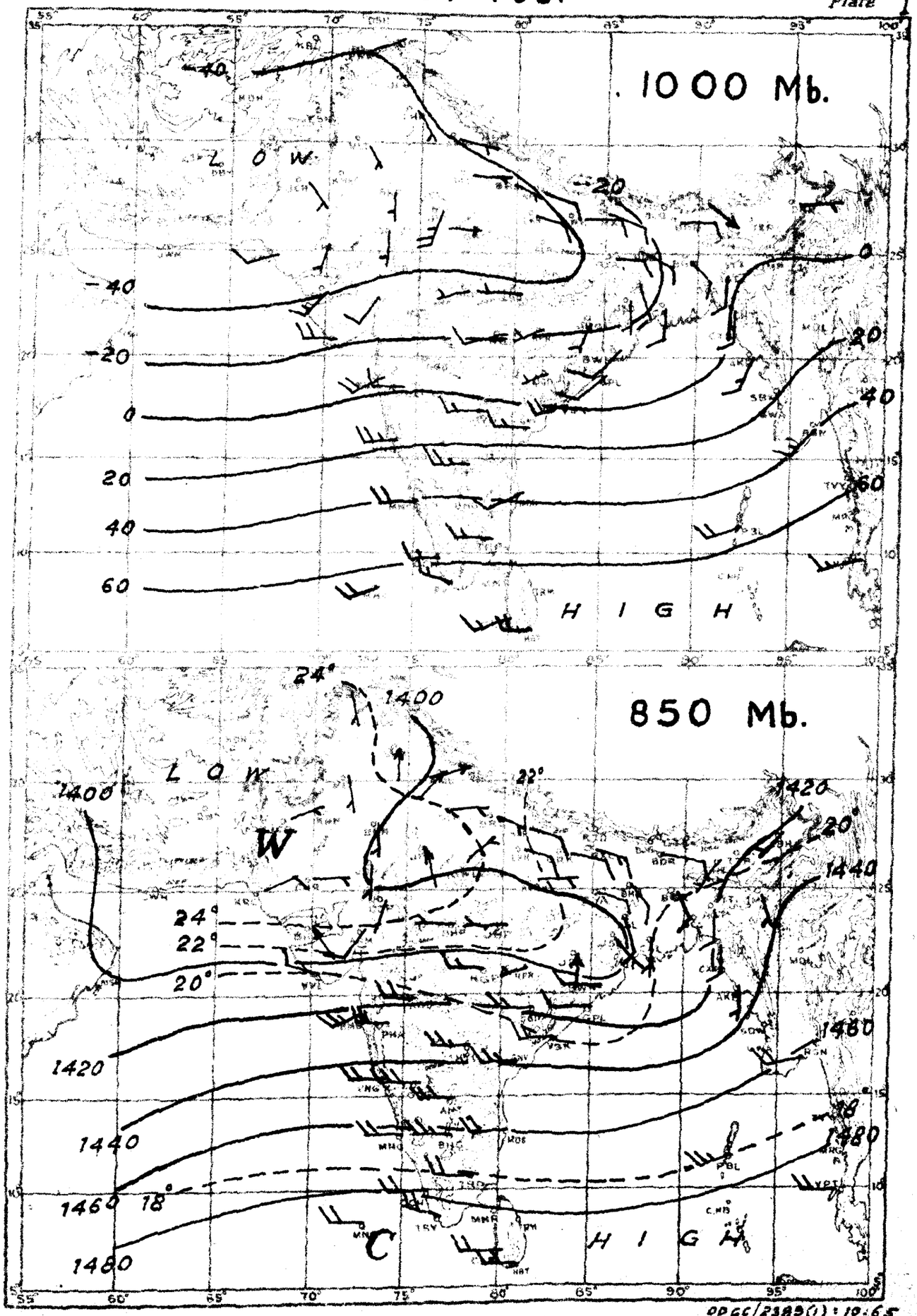
GIPN—S4—262 D. D. G. Obs. Poona/65—3-12-65—120,

MONTHLY MEAN CONSTANT PRESSURE CHARTS

JULY–1961

I. Met. D.

Plate I



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

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

ODGC/2389(1) : 10.65

The mean maximum temperature was below normal in the Punjab(I) and normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was normal over the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Uttar Pradesh, the Punjab(I), Gujarat Region and Interior Mysore State, below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in east Uttar Pradesh, the Punjab (I), west Rajasthan, the Madras State, north Interior Mysore and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

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

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

R. ANANTHAKRISHNAN
for *Director General of Observatories.*

Poona 5,
The 27th November 1961.

Errata to M.W.R. for August 1961 (Sravana 10 - Bhadra 8, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table I - Division					
403	1. Assam (Including Manipur Tripura)		2	36.5	365.5
403	15. Kerala		2	+165	+165.1
Table I - Sub-division					
[illegible]	23. Coastal Andhra Pradesh		9	(Data slightly shifted up)	5.7
[illegible]	24. Telangana		9	6.3	6.8
Table II					
[illegible]	Tangla		8	23.0	22.0
404	Dhubri (Rupsi)		29	1	0
404	Krishnanagar		19	-1.1	-1.5
404	Barrackpore (Aerodrome)		5	13,19	13,29
404	Contai		5	13,18	13,28
404	Balasore		8	4.4	24.4
405	Cuttack		24	1	0
405	Koraput		13	34.4	34.0
405	Chaibasa		3	+1.7	+0.7
405	Faizabad		2	35.0	33.0
405	Kanpur (Aerodrome)		24	3	0
405	Azamgarh		10	113.0	173.0
405	Meerut		13	84.0	80.0
405	Chandigarh		15	5	15
406	Dras		1	Dras (R)	Dras
406	Churu		9	1.11	1,11
406	Munabao		1	Munaha	Munabao (R)
406	Alwar		4	36.9	36.2
406	Chambal (Rawat Bhatta Dam)		14	19	15
406	Chambal (Rawat Bhatta Dam)		15	8	9
406	Foot note		--	*Temporarily closed.	(Delete)
407	Indore		10	118.1	110.1
407	Mandla		11	145	445.8
407	Baroda (Aerodrome)		1	Baroda	Baroda (Aerodrome)
407	Baroda		1	Baroda (Aerodrome)	Baroda
407	Surat		13	142.2	141.2
407	Nadiya		2	30.0	30.4
407	Bhuj (Rudramata)		12	+84.4	+84.5
407	Rajkot		18	-99.6	+99.6
407	Veraval		10	77.8	76.8
408	Jalgaon		12	-22.2	-22.5
408	Poona		9	1,729	17,29
408	Parbhani		12	-124.1	+124.1
408	Bir		1	Bir (s)	Bir
408	Bramhapuri		10	239.0	239.1
408	Masulipatam		28	1	0
408	Makimpet (Aerodrome)		24	1	0
408	Makimpet (Aerodrome)		26	1	0
408	Kurnool		25,27	0,0	1,1
409	Honavar		19	+0.5	+2.5
409	Belgaum		12	-61.2	+61.2
409	Mysore		20(a)	1	0
409	Calicut		16	+	+7.7
409	Dharmshala		12	+0 .7	+206.7
409	Simla		13	14.6	54.6
409	Nainital		12	+21.5	+91.5
410	Tehri		18	(Blank)	2.5
410	Muwakot		11	524.2	624.2
410	Dadeldhura		23,24	0,0	1,25

Page No.	Station	Hour	Column	For	Read
Table III					
413	Dhubri	0830	1	hubri	Dhubri
413	Umroi	0830	1	mrai	Umroi
416	Kanpur (Aerodrome)	0530	19	1	2
416	Kanpur (Aerodrome)	0830	19	2	1
416	Sultanpur	1730	9	26.	26.3
417	Bareilly (P.B.O).	1130	5	(Not clear)	979.9
417	Bareilly (P.B.O).	1130	7	27.7	29.7
417	Orai	0830	2	0230	0830
417	Amritsar (Rajasansi)	0530	25	(Blank)	1
417	Amritsar (Rajasansi)	0830	28	(Blank)	0
418	Bilaspur	0830	15	..	0
419	Bikaner	1730	28	1	0
419	Bikaner (P.B.O)	1130	28	0	1
420	Ajmer	0830	17	0	2
420	Erinpura (Jawai Dam)	1730	19	(Blank)	1
420	Gwalior	1730	7	23.7	28.7
420	Ratlam	1730	8	24.0	24.4
421	Bhopal (Bairagarh)	2330	5	43.2	943.2
421	Chhindwara	0830	6	0.9	-0.9
421	Khandwa	1730	4	998.3	998.9
421	Jabalpur	2330	4	1001.2	1000.1
422	Deesa	0830	6	-0.9	-1.9
422	Dohad	1730	24	1	17
423	Porbandar	0830	3	,,	7
423	Harnai	0830	1	Harni	Harnai
424	Jeur	0830	6	-1.8	-0.8
424	Aurangabad (Chikalthana)	1730	8	21.1	23.1
425	Yeotmal	0830	12	+1	-1
425	Nellore	0530	28	1	0
425	Sakimpet (Aerodrome)	1130	9	20.3	20.9
319	Pachmarhi	0830	6	-0.1	-1.0
429	Mahabaleshwar	1730	10	25.1	20.5
429	Konar	0830	17	0	4
429	(Foot note)	-	-	(b) Mean of 28 days.	(c) Mean of 28 days.
431	Okhaldunga	1730	23	2	1

...3

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
434	Amausi	0530	0.9	V	5.5	5.8
438	Darjeeling	0530	Surface	V v D	0.0,0.0,00	CALM
439	Gauhati	0530	Surface	V v D	0.0,0.0,00	CALM
442	Jodhpur	1130	1.5	v	.9	4.9
442	Jodhpur	2330	6.0	D	000	CALM
444	New Delhi	2330	3.0	n	7	17
444	Port Blair	0530	6.0	D	652	265
445	Raipur	2330	0.3 to 4.5	n V v D	Values printed for the levels 0.3 to 3.6 may be read for the levels 0.6 to 4.5.	
445	Santa Cruz	2330	2.1	v	9.5	9.4
445	Tiruchirapalli	0530	9.0	D	05	050
446	Tiruchirapalli	2330	Surface	v	5.1	5.9
448	Ahmedabad	0530	-	Time of ascent	0530	0530*
448	Ahmedabad	1730	14.1	V	28.4	28.0
448	Bareilly	1730	12.0	V	9.2	9.3
448	Imphal	0530	-	3rd column	1730	0530
449	New Delhi	1730	-	Time of ascent	1730**	1730*
449	Trivandrum	1730	-	Time of ascent	1730	1730*
449	Visakhapatnam	0530	16.2	n	18	13

RADIOSONDE DATA

450	Ahmedabad	Date of starting		2nd July 1961, 20th July 1961		
451	Ahmedabad	00 GMT	850 Mb.	Dew Point	297.7	287.7
451	Allahabad	00 GMT	800 Mb.	No. of Obs.	21	31
453	Visakhapatnam	00 GMT	850 Mb.	Ht. gpm.	1534	1434
453	Visakhapatnam	00 GMT	125 Mb.	Ht. gpm.	15913	15193

SG.10-5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	365·5	102	31·8	25·3	86	80	6·9	5·8
	+7·5		+0·5	+0·5	+1		+0·5	
2. West Bengal	391·6	103	31·6	25·9	85	83	6·2	6·1
	+11·1		+0·3	+0·2	+1		−0·1	
3. Orissa	331·0	94	30·7	25·1	87	86	6.7	7·1
	−19·3		+0·2	+0.1	+3		−0·5	
4. Bihar	298·1	92	31·8	25·2	86	83	6·9	6·7
	−26·8		+0·6	0	+3		+0·6	
5. Uttar Pradesh	490·4	161	31·8	25·6	90	82	6·4	6·3
	+186·1		−0·1	0	+7		+1·0	
6. Punjab (India) (Including Delhi)*	334·7	154	33·1	25·6	87	75	5·5	4·6
	+116·9		−1·4	−0·4	+12		+1·3	
7. Jammu and Kashmir.	40·5	78	25·0	12·7	67	55	4·5	4·4
	−11·6		0	0	−7		+0·5	
8. Rajasthan	121·0	82	33·4	25·6	81	63	5·7	5·8
	−26·5		+0·3	+0·7	+4		+0·9	
Sub-Division								
1. Bay Islands	721·6	174	28·3	23·7	89	91	7·8	7·8
	+307·8		−0·3	0	+5		+1·2	
2. Assam (Including Manipur, Tripura).	365·5	102	31·8	25·3	86	80	6 9	5·8
	+7·5		+0·5	+0·5	+1		+0·5	
3. Sub-Himalayan West Bengal.	678·4	123	31·3	25·5	88	82	6·6	6·0
	+126·0		−0·5	+0·1	+3		+0·8	
4. Gangetic West Bengal.	287·3	90	31·7	26.0	85	83	6·1	6·1
	−30·7		+0·2	+0 2	0		−0·4	
5. Orissa	331·0	94	30·7	25·1	87	86	6·7	7·1
	−19·3		+0·2	+0.1	+3		−0·5	
6. Bihar Plateau	354·0	103	31·3	23·8	85	83	6·9	7·1
	+10·5		+0·8	−0·6	+1		+0·5	
7. Bihar Plains	264·6	84	32·4	26·7	87	83	6 9	6·3
	−49·1		+0·5	+0·6	+4		+0·7	
8. Uttar Pradesh, East.	455·1	151	32·1	25·9	90	82	6·9	6·4
	+153·8		−0·1	+0·2	+6		+1·2	
9. Uttar Pradesh, West.	5?8·8	175	31·5	25·1	90	83	5·8	6·1
	+230·5		−0·7	−0·1	+9		+0·7	
10. Punjab (India) (Including Delhi).	334·7	154	33·1	25·6	87	75	5·5	4·6
	+116·9		−1 4	−0·4	+12		+1·3	
11. Himachal Pradesh	398·9	..	30·9	22·3	87	76	6·5	5·4
	..		..	..	..		..	
12. Jammu and Kashmir.	40·5	78	25·0	12·7	67	55	4·5	4·4
	−11·6		0	0	−7		+0·5	
13. Rajasthan (West)	73·3	76	35·7	26·7	78	54	4·8	4·9
	−22·8		+0·5	+0·8	+4		+0·8	
14. Rajasthan (East)	180·5	85	31·1	24·6	84	73	6·7	6·8
	−31·1		+0·2	+0·6	+4		+1·1	
15. Madhya Pradesh (West).	351·0	122	29·4	23·2	90	81	7·5	7·2
	+63·0		+0·2	+0·2	+4		+0·8	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	393·4	116	29·6	23·4	90	82	7·4	7·2
	+54·1		+0·3	+0·2	+4		+0·8	
10. Gujerat State	194 8	146	31·7	25·0	88	76	6·5	6·2
	+61·3		+0·3	+0·3	+6		0	
11. Maharashtra	314·4	103	29·4	22·2	87	76	7·0	7·0
	+9·9		0	+0·3	+3		+0·4	
12. Andhra Pradesh	160·2	106	31·9	24·6	80	69	6·2	6·0
	+8·7		−0·6	0	+5		+0·3	
13. Madras State	118·0	121	33·6	24·8	75	66	6·3	6·3
	+20·7		−0·3	+0·2	+5		+1·6	
14. Mysore	267·8	114	28·2	19·9	89	74	7·2	7·2
	+32·8		−0.4	+0·6	+6		+1·1	
15. Kerala	543·0	144	28·3	23·6	93	86	7·2	6·7
	+165·		−0·2	0	+5		+0·9	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	447·4	111	29·8	23·6	89	83	7·2	7·3
	+42·7		+0·4	+0·1	+4		+0·7	
17. Gujarat	202.2	101	31·1	24·5	90	74	6 8	6·3
	+2·2		+0·1	+0·1	+6		+0·1	
18. Saurashtra and Kutch.	190·6	200	31·7	25·4	87	77	6·2	6·1
	+95·1		+0·5	+0·4	+5		0	
19. Konkan	421·0	93	29·0	24·9	88	86	7·4	7·5
	−24·0		0	+0·2	+3		+0·3	
20. Madhya Maharashtra	197 5	81	29·1	21·9	84	69	6·6	6·8
	−46 6		+0·1	+0·5	+3		+0·8	
21. Marathwada	199·4	141	29·3	21·5	87	71	6·9	6·9
	+58·3		0	+0·6	+4		−0·1	
22. Vidarbha	281·4	135	29·9	23·4	88	77	6·9	7·1
	+99·7		−0·1	0	+4		+0·5	5·7
23. Coastal Andhra Pradesh.	185.0	133	32·6	25·4	81	72	6·0	
	+45·7		−0·7	−0·5	+5		0	
24. Telangana	163·3	84	30·0	23·6	82	71	6·6	6·3
	−31·7		−0·1	+0·7	+4		+0·9	
25. Rayalaseema	97·2	91	32·7	24 3	74	56	6·1	
	−10·1		−0·9	−0·1	+3		+0·2	5·7
26. Madras State	118·0	121	33·6	24·8	75	66	6·3	6·3
	+20.7		−0.3	+0·2	+5		+1 6	
27. Coastal Mysore	810·8	156	28·5	13·5	91	87	7·6	7·5
	+215·7		−0·2	0	0		+1·0	
28. Interior Mysore (North)	122·9	92	29·0	21·5	87	70	7·5	7·5
	−10·4		−0·6	+0·4	+6		+1·9	
29. Interior Mysore. (South)	159 3	95	27·2	20·5	89	74	6·7	6·7
	−8·9		−0·4	+0·7	+7		+0·2	
30. Kerala	543·0	144	28 3	23·6	93	86	7·2	6·7
	+165·1		−0·2	0	+5		+0·9	
31. Arabian Sea Islands	228·7	97	29·5	24·9	87	84	7·1	7·3
	−6·9		+0·1	−0·5	+5		+1·9	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0330-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·8	...	30·1	4	23·4	...	21·8	16	196·2	559·1	...	62·0	12	25	...	21·8	18·8	...	0	29	0	0	0	0	0	0	0	0	0
Long Island	30·1	...	32·8	4,5	24·1	...	22·1	27	314·7	721·5	...	109·0	15	21	...	9·8	7·2	...	0	23	0	0	1	0	0	0	0	0	0
Port Blair	28·3	−0·3	29·7	3	23·7	0	20·7	28	196·0	721·6	+307·8	165·7	27	23	+2·1	30·2	24·1	+2·5	1	29	0	0	0	0	0	0	0	7	0
Car Nicobar	29·5	...	30·4	3	23·9	...	21·9	2	175·7	490·4	...	93·8	27	21	...	8·2	4·9	...	0	26	0	0	4	0	0	0	0	0	0
Nancowry	29·2	...	30·9	2	24·9	...	21·6	8	47·7	201·4	...	50·3	27	14	...	16·5	14·2	...	0	15	0	0	0	0	0	0	0	0	0
Kondul	29·2	...	30·1	25	21·7	...	22·5	27	34·1	97·1	...	13·4	27	10	...	...	..	...	0	18	0	0	0	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	31·4	...	37·0	23	24·2	...	23·2	25	140·9	547·9	...	58·9	5	20	...	3·8	2·7	...	0	24	0	0	0	0	0	0	0	0	0
Dibrugarh (Mohanbari).	31·6	+0·4	35·0	23	24·8	+0·4	21·9	28	63·1	338·5	−112·0	44·7	11	18	−0·7	3·9	2·6	−6.5	1	21	0	0	10	0	0	0	0	0	0
Dibrugarh	31·9	+1·2	36·2	23	25·0	+0·6	23·8	20	38·4	347·8	−103·3	54.5	3	16	−2.7	2·1	1·8	+0·2	2	20	0	0	5	0	0	0	0	0	0
Digboi *																													
North Lakhimpur	31·5	+0·3	35·1	21,23	25.1	+0·5	24.0	9	51·7	749·4	+221·3	98·8	9	21	+2·0	...	...	...	0	26	0	0	7	0	0	0	0	0	0
Sibsagar	32.3	+0.7	35.3	25	26·0	+0·6	23·9	31	84·2	594·1	+178·3	114·7	17	19	+0·9	3·4	3.3	+0.1	0	23	0	0	13	0	0	0	0	0	0
Gohpur	32·6	...	34·3	23,24,25	25·6	...	24·4	20	0	165·7	...	49·7	18	7	..	5·5	4·4	...	0	7	0	0	0	0	0	0	0	0	0
Majbat	..	...	..	..	..	...	..	..	64·9	328·8	...	78·4	30	16	...	4·2	1·9	...	0	17	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	32.7	...	35·3	23	25·4	...	23·9	20	53·3	513·6	...	129·3	17	19	...	..	..	...	0	24	0	0	14	0	0	0	0	0	0
Tangla	33.3	..	36·4	23	25.2	..	23·0	20	47.7	186·4	..	37·4	8	13	...	0·8	0·5	..	0	15	0	0	0	0	0	0	0	0	0
Tezpur	32·4	+0·5	35·6	23	25·7	+0·3	22.6	30	58·8	284·6	−46·1	51·0	16	15	−0·9	4·0	3·0	+0·7	0	20	0	0	3	0	0	0	0	0	0
Golaghat	33·0	...	36·1	23	25.5	...	23·6	28	(F) 76·2	328·3	...	75·0	15	14	...	...	...	...	0	18	0	0	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	...	..	..	..	..	...	..	...	..	...	..	..	...	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	33·3	..	36·1	6,23,24	25·8	..	24·4	4 days	128.3	713·8	..	152·4	31	18	..	5·7	4·6	..	0	18	0	0	15	0	0	0	0	0	0
Goalpara	33·6	...	35·6	26	25.0	...	23·6	24	(a) 56·8	(a) 155·4	...	..	..	..	...	(c) 4·5	(d) 2·4	...	..	..	0	0	0	0	0	0	0	0	0
Gauhat	32·4	0	35.0	23	26·5	+0·9	24.6	30	49·7	377·9	+117·3	122·0	7	13	−0·1	0	0	−2·1	0	16	0	0	0	0	0	0	0	0	0
Gauhati (Bhorjor).	32·4	+0·4	34·8	25	26.0	+0·9	24.9	5	113·3	328·9	+68·3	73.8	5	17	+3·9	7·0	5·0	...	2	19	0	0	22	0	0	0	0	0	0
Dhubri (Rupsi).	32·7	..	34.7	22,23	25·6	..	22·6	26	107·7	259·4	...	84·2	16	11	...	6.5	3·8	...	2	17	0	0	13	0	0	0	0	1	1
Dhubri	31·7	+1·5	34.2	24	26·6	+0·8	23·9	24	120·0	207·0	−130·6	35·6	16	14	−0·6	3·7	2·7	−2·9	0	14	0	0	1	0	0	0	0	0	0
Lumding	34·1	+1·8	36·8	23	25·3	+0·5	23·4	31	73·4	147·4	−57·8	36·0	27	10	−1·3	4·7	2·6	...	0	12	0	0	1	0	0	0	0	1	0
Umori	28·8	...	31.7	23,24	21·2	...	19.9	25	155·0	318·6	...	75·4	18	16	...	7·2	3·8	..	1	25	0	0	13	0	0	0	0	1	0
Tura	29.4	...	31·6	28	21·8	...	19.9	26	114·4	198·1	...	28·2	28	15	...	7.1	5·7	...	1	20	0	0	0	0	0	0	0	0	0
Haflong	28·6	..	32.7	23	21·8	...	21.0	5,26,28	16·2	240·4	...	41·2	17	19	...	...	...	...	0	24	0	0	0	0	0	0	0	0	0
Silchar (Kumbhigram) (R)	32·0	...	36·5	23	23·8	...	22·9	25,30	57·4	255·2	...	177·4	30	25	...	4·6	4·8	...	2	26	0	0	5	0	0	0	0	0	0
Silchar	30·6	−1.3	36·5	23	25·1	+0·2	23·9	23	57·7	578·6	+64·0	61·6	30	25	+2·8	2·7	2·0	−0·4	0	27	0	0	8	0	0	0	0	0	0
Imphal (Tulihal)	28·9	+0·1	31·1	7	22·1	+0·4	20·7	21	54·5	212·5	+23·9	30·7	21	18	+5·6	6·7	4·9	−0·5	1	22	0	0	3	1	0	0	0	0	0
Kailashahar	32·5	..	35·8	17	25·0	...	21·8	6	71·0	399·6	...	89·4	13	18	...	5·1	3·7	...	2	25	0	0	18	0	0	0	0	0	0
Agartala	31·5	+0·4	33.3	23	25.2	+0·4	23·9	24	100·6	218·6	−132·7	32·0	4	18	+0·7	19·6	7·5	−0·7	1	24	0	0	9	0	0	0	0	0	0
Sub Himalayan—West Bengal																													
Baghdogra	31·9	+0·2	35·4	24	24·7	0	23·7	20	145·3	1141·4	+456·7	313·1	20	28	+6·3	12·7	11·4	+5·6	0	31	0	0	15	0	0	0	0	0	0
Jalpaiguri	29·8	−1·8	32·9	23	25·1	−0·1	21·3	11	137·2	674·8	+32·9	110·6	30	22	+1·6	8·8	6·9	+4·2	0	25	0	0	10	0	0	0	0	0	0
Cooch Behar	32·4	..	35·0	23	25·2	...	23·4	29	114·6	574·3	−28·7	119·8	29	18	−0·7	4·6	3·1	...	0	22	0	0	16	2	0	0	0	0	0
Balurghat	32·8	...	35·5	29	25·1	...	23·2	10	55·8	195·2	...	67·1	10	12	...	8·2	6·6	...	0	20	0	0	2	0	0	0	0	0	0
Malda	32·3	+0·6	34·4	29	26·7	+0·5	24·4	10	56·6	323·2	+43·3	49·6	25	14	−0·6	8·3	6·8	−0·8	0	15	0	0	9	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	32·7	+1·0	35·1	29	24·8	−1·2	23·4	31	65·2	178·6	−111·2	43·0	2	16	−0·3	6·5	4·2	−0·6	0	18	0	0	0	0	0	0	0	0	0
Suri	32.2	..	33·9	12	26·0	...	24·3	29	235·8	330·2	...	100·4	5	15	...	8·1	7·3	...	0	24	0	0	1	0	0	0	0	0	0
Asansol	32·0	+0·4	33·9	29	25·9	+0·6	24·4	2	116·8	333·2	−4·1	99·7	5	15	−0·2	7·7	5·9	−1·7	0	20	0	0	14	0	0	0	0	0	0
Shanti Niketan	32·2	..	34·1	13	26·2	...	25·4	2,6	96·6	233·1	...	41·4	3	15	...	9·1	8·8	...	2	18	0	0	14	0	0	0	0	0	0
Krishnanagar	32·7	+0·8	35·6	29	26·3	+0·5	25·0	25	101·5	154·1	−109·6	49·0	6	12	−3·3	5·5	4·1	−1·1	0	18	0	0	4	0	0	0	0	0	0
Purulia	32·0	+0·6	37·2	11	25.5	+0·6	23·9	25	181·2	262·2	−44·0	59·6	28	16	−0·5	6·3	4·6	−0·6	0	17	0	0	2	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	231·6	−76·5	45·8	22	10	−0·6	...	...	...	0	12	..	..	..	..	..	..	..	..	..
Burdwan	30·3	−1·5	...	...	26·1	0	...	...	60·0	115·5	−187·3	32·0	6	8	−8·2	(j) 12·9	(u) 7·6	+3·9	0	11	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	32·2	...	34·2	13,19	26·1	...	24.4	1,25	134·5	244·1	...	86·1	5	11	...	...	...	...	0	23	0	0	12	0	0	0	0	0	0
Calcutta (Dum Dum)	31·9	+0·1	34·0	29	26·0	−0·1	24·0	1	147·1	353·8	+30·2	109·9	5	16	−2·3	9·6	7·8	−2·2	1	28	0	0	13	0	0	0	0	0	0
Calcutta	32·1	+0·4	34·7	29	26·5	+0·8	24·7	1	187·7	426·1	+97·9	125·5	5	15	−3·0	9·7	6·5	+1·0	3	23	0	0	14	0	0	0	0	0	0
Midnapore	32·3	+0·5	34·0	1,28,29	26·1	+0·3	24·4	8	212·8	325·4	+1·5	62·4	25	18	+1·2	11·1	(a) 8·8	+5·3	0	18	0	0	0	0	0	0	0	0	0
Contai	30·7	−0·4	33·1	13,18	26·4	+0·3	24.6	25	160·7	338·9	−28·0	73·6	21	13	−3·2	11·6	9·9	−0·7	0	17	0	0	0	0	0	0	0	0	0
Sagar Island	30.7	+0·2	32·3	12,13	26·8	+0·4	21·7	6	128·5	439·5	+102·2	110·0	25	15	−1·3	21·7	21·2	+4·1	0	21	0	0	3	0	0	0	0	0	0
Sandheads	30·6	...	35·4	22	26·8	...	23·9	22	44·2	214·0	−10·5	45·2	25	13	+1·0	...	...	...	0	17	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	31·9	...	35·3	28	25·8	...	24·4	8,25	229·6	414·8	...	57·2	8	17	...	3·0	2·0	...	0	22	0	0	0	0	0	0	0	0	0
Jharsuguda	31·2	+0.3	35·7	10	24·8	+0·1	23·5	11	204·9	364·0	−55·6	76·0	24	22	+5·0	9·5	6·7	−2·1	1	25	0	0	16	0	0	0	0	0	0
Keonjhargarh	29·2	...	31·8	28	23·7	...	22·3	25	112·2	257·3	...	53·3	7	18	...	7·3	6·0	...	0	24	0	0	1	0	0	0	0	0	0
Balasore	31·1	−0·2	33·8	11	26·3	+0·5	4·4	17	123·9	378·7	+80·0	111·5	7	18	+3·2	10·0	5·8	0	0	18	0	0	9	0	0	0	0	0	0

*Data not reliable. (a) Total or Mean 30 days. (c) Mean of 28 days. (d) Mean of 27 days. (f) Total for 25 days. (j) Mean of 19 days. (u) Mean of 17 days. (R) Register not received

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Sambalpur	31·6	+1·2	33·3	28	25·1	+0·2	23·9	5, 8	128·3	313·9	−169·7	46·7	5	21	+2·1	6·5	5·6	...	0	21	0	0	9	0	0	0	0	0	0
Angul	31·7	+0·8	33·9	11, 29	25·4	+0·5	22·1	28	188·0	338·0	+44·4	97·2	18	14	−1·1	8.7	5·9	−2·0	0	15	0	0	0	0	0	0	0	0	0
Cuttack	32·2	+0·5	35.1	9	25·9	+0·3	24·4	29	297·4	495·0	+154·6	93·0	20	18	+2·2	7·8	5·3	+1·8	0	22	0	0	12	1	0	0	0	0	0
Chandbali	32·2	+0·9	35·3	14	25·0	−0·8	23·9	8 days	71·8	250·4	−122·2	33·5	5	17	+1·2	9·6	8·4	−2·2	1	18	0	0	0	0	0	0	0	0	0
Bolangir	31·7	...	33·9	14	24·9	...	22·9	27	87·3	214·5	...	49·6	14	16	...	5·5	8·6	...	0	18	0	0	3	0	0	0	0	0	0
Phulbani	29.8	...	31·4	27	23·6	...	22·3	26	100·0	159·7	...	21·3	18	18	...	7·0	4·0	...	1	22	0	0	4	0	0	0	0	0	0
Titlagarh	33·0	...	36·2	1, 2	24·0	...	22·0	25	170·3	331·8	...	129·2	23	14	...	2·1	2·5	...	0	19	0	0	9	0	0	0	0	0	0
Bhubaneswar	31·3	0	32·9	13, 28	25·4	0	22·9	15	242·6	439·0	+105·2	72·4	17	18	+0·7	15.1	12·1	−1·8	1	22	0	0	21	0	0	0	0	0	0
Puri	30·8	−0·1	33.9	29	26·9	+0·5	24·2	17	63·2	241·2	−36·2	109·8	17	12	−0·9	18·6	19·1	+3·2	1	17	0	0	7	0	0	0	0	0	0
Gopalpur	30·4	−0·6	33.7	29	25·8	−0·2	23·8	11	59·8	150·2	−45·4	20·8	20	12	+1·2	18·5	15·7	+3·3	0	16	0	0	10	0	0	0	0	0	0
Koraput	24·3	−0·9	27·8	15	20·5	+0·3	18·9	21	16·2	339·9	−148·3	34·4	18	20	−1.6	...	...	...	0	23	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	32·0	+0·6	33·9	1, 29	25·6	+0·3	24·3	2, 16	68·7	358·7	+30·0	79·0	2	16	−1·6	7.8	6·0	+2·6	1	22	0	0	5	0	0	0	0	0	0
Daltonganj	32·6	+1·1	34·8	15	25·4	+0·5	23·7	25	119·8	365·2	+22·1	84·0	8	13	−3·4	...	...	...	0	14	0	0	0	0	0	0	0	0	0
Hazaribagh	29·4	+0·5	31·4	20	23·3	+0·4	21·7	25	180·2	446·2	+110·7	76·6	6	21	+3·4	8·7	7·1	−2·4	0	25	0	0	19	1	0	0	0	0	0
Dhanbad	31·4	..	33·5	14	24·9	...	23·5	12	78·4	285·7	...	63·5	12	19	...	8·2	5·5	...	0	22	0	0	7	0	0	0	0	0	0
Ranchi	29.3	+0·8	33·4	15, 16	...	...	...	...	119·6	556·1	+204·6	89·6	25	18	−0·6	4·7	3·8	−3·6	0	19	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	28·8	..	30·8	13	23·1	...	21.9	8	(i) 141·0	469·2	...	94·4	25	16	...	(i) 11·6	9.1	...	0	22	0	0	12	0	0	0	0	0	0
Jamshedpur	32·6	+1·0	34·9	13	26·2	+0·6	25·1	25	112·0	165·6	−225·3	31·6	22	14	−4·0	8·7	5·4	−1·0	2	21	0	0	11	0	0	0	0	0	0
Jamshedpur (P.B.O.)	31·8	...	33.8	28	25·7	...	24·5	31	113·5	160·0	...	39·2	15	15	...	9.0	6·3	..	3	20	0	0	20	0	0	0	0	0	0
Chaibasa	32·0	+1·7	34·2	13	25·5	+0·6	23.8	25	105·5	232·1	−78·3	31·8	25	15	−1·6	5·1	3·3	−0·1	0	19	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari (R)																													
Forbesganj	33·2	...	36·2	29	25·8	...	21·6	20	103·0	282·4	...	60·4	20	17	...	10·6	7·8	...	1	24	0	0	9	0	0	0	0	0	0
Darbhanga	32·8	+1·1	35·0	29	26·8	+0·6	22·1	25	43·7	136·7	−206·4	40·4	11	11	−2·8	9·1	7·1	+2·0	1	17	0	0	4	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	199·8	−119·2	30·0	10	17	+3·4	...	...	...	0	19	..	..	..	..	..	..	..	..	..
Chapra	32·5	...	35·2	19	26·6	...	24·7	21	42·8	207·3	−79·2	39·4	10	12	−1·4	10·1	6·0	...	0	15	0	0	2	0	0	0	0	0	0
Purnea	32·3	+0·6	34·9	29	26·5	+0·7	23·9	23	116·4	164·9	−169·1	29·0	10	11	−5·2	6·7	4·6	+0·9	0	18	0	0	6	0	0	0	0	0	0
Patna	32·5	+0·8	34·2	19,24,29	27·2	+0·7	25·6	10	34·0	164·1	−168·4	47·6	10	9	−4·9	5·1	5·5	−0·8	0	16	0	0	3	0	0	0	0	0	0
Patna (Aerodrome)	32·2	...	34·2	19	26·7	...	25·4	10	43·8	154·0	...	45·0	2	8	...	8·5	6·1	...	0	18	0	0	14	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	247·1	−72·2	53·2	10	14	−0·6	...	...	..	1	17	..	..	..	..	..	..	..	..	..
Bhagalpur	32·2	−0·1	34·1	2	26·7	+0·4	25·4	21	120·7	289·3	+33·4	64·8	11	14	+0·3	7·4	5·5	−0·5	0	18	0	0	14	0	0	0	0	0	0
Sabaur	32·1	+0·4	34·9	29	26·7	+0.5	25·4	21	180·6	356·0	+89·1	107·0	4	18	+3·0	6.8	5·1	−3.9	0	20	0	0	13	0	0	0	0	0	0
Jamui	31·8	...	34·1	29	26·5	...	24·7	31	127·6	281·0	...	42·8	3	17	...	6·9	4·4	...	1	23	0	0	10	0	0	0	0	0	0
Dehri	31·7	...	33·9	19	26·0	...	24·6	19	96·8	539·5	+203·7	102·0	5	21	+6·4	5·2	4·7	...	0	22	0	0	14	0	0	0	0	0	0
Gaya	32.2	0	34·3	18	26·2	+0·5	24·3	12	118·5	346·2	−3·1	53·2	12	20	+4·3	10.3	9.0	+0·5	0	22	0	0	21	0	0	0	2	5	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	31·8	−0·5	35·0	29	26·2	+0·4	21·1	4	65·0	417·0	+92·1	223·2	20	13	+0·5	9·6	7·2	+3·7	0	19	0	0	0	0	0	0	0	0	0
Nautanwa	33·1	...	36·8	30	25·8	...	22·4	1	144·6	552·1	...	69·8	11	20	...	11·0	7·9	...	0	20	0	0	0	0	0	0	0	0	0
Hardoi	32·1	−0·4	34·1	19	26·3	+0·2	23·4	21	289·8	603·8	+279·7	34·6	23	22	+8·8	8·4	6·0	+0·5	0	24	0	0	0	0	0	0	0	0	0
Gonda	31·7	−0·4	34·9	19	26·4	+0·6	24·4	21, 24	110·1	270·4	−127·1	60.4	22	15	+1·5	...	...	...	0	20	0	0	0	0	0	0	0	0	0
Lucknow	31·9	−0·6	35·0	19	25.1	−0·8	23·0	21	235·4	556·8	+261·7	103·0	14	20	+6·3	3·6	3·1	0	0	21	0	0	5	0	0	0	0	0	0
Lucknow (Amausi Aerodrome)	32·0	−0·5	35 2	19	25·6	+0·2	23·1	21	222·9	501·7	+209·3	121·9	22	19	+5·3	8·5	5·5	...	0	25	0	0	19	1	0	0	0	4	0
Faizabad	35·0	...	34·5	29	25·4	...	22·3	24	64·1	279·7	...	97·0	4	14	...	4·8	3·3	...	0	19	0	0	7	0	0	0	0	0	0
Gorakhpur	32·5	+0·5	35·2	24	26·4	+0·5	22·5	15	218·3	507·9	+158·6	132·8	15	20	+5·1	...	...	...	0	22	0	0	0	0	0	0	0	0	0
Kanpur	31·8	−0·3	34·4	2	25·6	−0·3	24·1	21	100·6	383·8	+99·3	71·6	23	20	+6·7	9.7	8·2	−2·1	0	22	0	0	2	0	0	0	0	0	0
Kanpur (Aerodrome)	31·9	...	34·4	2	26·0	...	23·7	21	151·2	408·7	...	59·7	22	19	...	...	...	...	0	22	0	0	11	3	0	0	0	0	0
Sultanpur	31·7	...	34·2	19	26·2	...	23·8	24	101·9	366·5	...	85·8	2	15	...	5·2	4·1	...	0	15	0	0	12	0	0	0	0	0	0
Azamgarh	32·2	...	35·3	2	25·5	...	21·6	21	113·0	345·0	...	45·4	22	16	...	...	...	...	0	22	0	0	0	0	0	0	0	0	0
Fatehpur	31·9	−0·2	34·8	2	26·0	+0·2	24·3	21, 30	111·8	413·8	+159·0	102·6	17	14	−0·4	5·7	4.2	−0·9	1	19	0	0	3	0	0	0	0	0	0
Ballia	32·8	...	35·5	19	26·3	...	23·6	21	174·2	239·4	...	34·4	16	14	...	5·6	2·7	...	0	14	0	0	0	0	0	0	0	0	0
Banda	32·7	...	36·0	3	25·6	...	23·0	21	112·5	375·8	...	164·4	5	17	...	4·5	3·4	...	0	19	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	32·5	+0·6	35·0	14	25·8	0	24.2	21	210·9	430·2	+175·4	89·5	17	18	+3·3	5.4	3·9	−3·0	1	21	0	0	19	0	0	0	0	1	0
Varanasi (Babatpur)	32·4	+0·2	35·1	19	26·4	+0·3	23·3	31	162·0	411·7	+176·8	103·1	22	12	−0·2	10·7	8·5	−0·6	0	20	0	0	12	0	0	0	0	0	0
Varanasi	32·4	+0·4	35·1	19	26.4	+0·6	24·0	31	197·8	509·6	+204·5	128·6	22	18	+3·1	6·5	4·6	−0·5	0	19	0	0	2	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	29·4	+0·2	33·7	26	22.3	−0·4	20·3	21	355·9	833·4	+102.1	77·1	19	25	+3·7	4·1	3·0	+0·7	1	30	0	0	10	0	0	0	0	0	0
Roorkee	32·0	−0·1	35·6	20	25·5	+0·4	22·4	21	80·5	354·0	+69·0	85·1	16	16	+4·2	7·2	5·0	+1·8	0	19	0	0	5	0	0	0	0	0	0
Najibabad	32·3	...	34·5	20, 26	24·9	...	21·7	21	131·5	475·7	...	130·0	16	17	...	7·8	5·9	...	0	20	0	0	26	0	0	0	0	0	0
Meerut	31·4	−1·4	35.0	20	25·2	−0·5	22·1	21, 26	...	443·0	+219·5	84·0	24	14	+4·2	...	4·0	...	0	14	0	0	0	0	0	0	0	0	0
Bareilly	32·3	0	35·7	20	25·9	+0·2	22·6	21	364·1	889·2	+594·6	224·8	30	20	+7·7	6·7	4·5	+1·6	0	24	0	0	12	0	0	0	0	0	0

(i) Total or Mean of 22 days.

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days: Precipitation (0·1 and 0·2 mm). (a)	Precipitation (0·3 mm. or more) (b)	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*con d.*																													
Aligarh	32.0	−1.1	35.1	20	25.7	0	22·0	21	169·4	350·6	+149.2	64.0	8	18	+8·6	6·8	5·1	−1.5	0	22	0	0	4	0	0	0	0	0	0
Mainpuri	32·1	−1·1	35.1	2,20	26·2	+0.4	21.9	21	159·5	343·3	+113·4	58.3	3	21	+10.5	4·9	3·2	+0·1	0	24	0	0	4	0	0	0	0	0	0
Agra	31·7	−1.3	34.5	1,20,21	25·5	−0·6	22.4	21	241·2	612·3	+406.3	130·4	4	17	+6.7	6·5	4·7	−1·3	0	21	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	32.1	...	34.7	21	25.7	...	21·7	21	247·4	497·5	..	90·2	5	17	...	...	..	...	0	24	0	0	11	0	0	0	0	0	0
Orai	29.6	...	33.9	21	24·9	...	21.7	21	252·7	497·1	...	130·0	5	17	...	9·8	7·5	...	0	22	0	0	0	0	0	0	0	0	0
Jhansi	31.2	−0.6	34.0	4 days	24·6	−0·3	21.3	21,30	208.3	484.5	+190.1	115·0	5	16	+2.7	3.5	2.7	−2.9	0	18	0	0	5	0	0	0	0	0	0
Punjab (India), (Including Delhi)																													
Pathankot	33·7	+1.2	35.9	7	24·8	+0·8	21.7	21	171.5	681.5	+245.9	239·4	9	12	−2.6	8·0	6.3	−0.5	1	19	0	0	14	0	0	0	0	0	0
Amritsar (Rajaissnsi)	34·2	0	38.0	7	25·8	+0.3	21.0	21,22	146.6	274·1	+121.0	71·6	1	9	+1 3	10·3	8·7	−0·1	1	10	0	0	7	0	0	0	0	0	0
Adampur Aerodrome (R)																													
Ludhiana	33.8	−1.1	37.9	20	25.4	−0·8	20·0	21	76.3	168.7	−0·2	49 8	2	9	+1.7	6·2	4·3	+1.9	0	13	0	0	1	0	2	0	0	0	0
Ferozepur	34.5	...	37.9	7,21	25.8	...	20.8	21,22	24.2	167.4	...	73·6	23	7	...	3·0	1·5	...	0	7	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	33.7	...	37.7	21	25.2	...	21·0	21	80.2	191.5	...	52·6	23	11	...	...	...	...	0	12	0	0	9	0	2	0	0	0	0
Chandigarh	32.9	+0·1	37.6	11	24.5	+1·0	20.3	21	116.7	296·2	+32.9	54.4	21	5	+3.4	...	...	...	0	17	0	0	1	0	0	0	0	0	0
Ambala	32.8	−1.2	36·9	5	26·0	+0·4	22·2	21	118·7	234.4	+34.0	55 8	21	13	+4.0	...	...	...	0	15	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	32·1	...	35 8	5	25.2	...	21.6	21	76·0	215.3	...	72·4	16	12	...	...	...	..	0	20	0	0	12	0	0	0	0	0	0
Patiala	32·9	...	36.7	5,20	26·0	...	22·6	22	177.8	290.8	+45.4	96·2	16	10	+0.8	8·7	6·9	...	0	11	0	0	6	0	0	0	0	0	0
Bhatinda	36·2	...	39.6	20	26·5	...	20·6	21	..	216·5	...	114 5	1	3	...	8.7	6·6	...	0	7	0	0	0	0	0	0	0	0	0
Karnal	32·5	...	35·5	21	...	...	...	...	78 2	249·2	...	62·0	10	11	...	...	...	..	0	11	0	0	0	0	0	0	0	0	0
Hissar	35.6	−2·1	37·7	21	26.1	0	22·2	22	79.3	148.4	+24.7	33 6	17	10	+4·5	9·4	7.3	−0·6	0	12	0	0	3	0	1	0	0	0	0
New Delhi (Safdarjung)	32.2	−1·4	36·0	21	25.0	−1.1	21.7	21	207·3	583.3	+399.7	181·0	2	19	+10·0	5.1	4.3	−4·6	0	22	0	0	10	0	0	0	0	1	0
Palam (Aerodrome)	32·0	...	35·4	21	25.4	...	21·8	21	248.4	505·0	...	136·8	2	16	...	...	...	...	1	21	0	0	12	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	30.7	+0 1	33.3	6	22·0	+0·6	18·4	21	237·2	437·3	−62·0	74.0	9	20	+0·4	2·2	2·1	−0·1	0	26	0	0	5	0	2	0	0	0	0
Bilaspur	31.2	...	34·8	26	22·6	...	19·6	21	67·1	360.5	...	92.4	30	14	...	..	..	...	0	21	0	0	12	6	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras (R)	...	...	...	...	...	...	...	...	...	21·2	+7·2	10·4	21	2	+0·3	...	...	...	0	7	...	...	...	...	...	...	...	...	...
Sonamarg*																													
Leh	25·0	+0·6	28·4	31	10·0	+0·2	6·1	21	0	8.2	−6·8	8.2	2	1	−0.9	5.9	4.8	+2.1	0	1	0	0	3	0	0	0	0	0	0
Srinagar	29·6	−0.7	34·1	15	18·2	+0·8	14·0	21	26·3	45·6	−15·9	17·0	21	5	−0·5	4·4	3·6	−0·1	1	9	0	0	4	0	0	0	0	0	0
Srinagar (Aerodrome)	28·3	...	31·9	15	17·8	...	13·9	21	26·7	77·1	...	33·8	16	7	..	...	...	...	0	8	0	0	5	0	0	0	0	0	0
Gulmarg	20 5	0	23.8	15	10·0	−0·9	4·9	21	53.7	86.9	−31 0	25.1	24	11	+1·1	6·6	4·1	−0.2	1	18	0	0	9	10	0	0	0	0	0
Jammu	33·6	...	35.8	30	...	...	...	...	..	445.0	...	110.0	16	13	...	...	...	...	0	13	0	0	5	0	0	0	0	0	0
Jammu (Aerodrome)	33·2	...	36·1	7,8	25·6	...	22·2	21	113·4	349·8	...	57 9	15	10	...	...	...	...	0	11	0	0	9	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	36·5	−1·2	39·9	4 days	27·1	+0.2	22 4	21	1·8	124·0	+71·9	49·9	17	4	+0·7	7·2	5·5	−4·0	1	5	0	0	4	0	3	0	0	0	0
Churu	34·0	...	37·9	20	26·1	...	24·2	1.11	90·0	173.3	..	45·1	1	8	...	13·1	10·2	...	0	13	0	0	5	0	0	0	0	0	0
Bikaner	36·5	+0.1	40·2	20	26·8	−0·1	25·3	6 days	64·1	82·8	−8.6	39·8	13	5	+0·1	9·9	8.5	−1·6	0	6	0	0	8	0	0	0	0	0	0
Nagaur	35·0	...	39·2	20	26·5	...	23·3	17	77·1	81·4	..	35·2	13	6	...	11·5	10·7	...	0	6	0	0	1	0	0	0	0	0	0
Phalodi	35·4	...	38·4	20	26·5	...	24·6	30	27·5	42·7	−37.8	15·6	26	3	−1·4	20·7	16·9	...	0	4	0	0	2	0	0	0	0	0	0
Jaisalmer	35 3	...	38·9	20	26·1	...	23·1	3	29·4	41·2	...	20·4	26	3	...	18·2	16·9	...	0	4	0	0	0	0	0	0	0	0	0
Jodhpur	35·2	+2.0	38·8	24	26·4	+1.4	24·7	30	8·5	63·8	−59.1	43.0	24	4	−1·9	14·4	13·2	−1·4	0	10	0	0	6	0	0	0	0	0	0
Barmer	34·6	+1·0	39·1	26	26·5	+1.6	24·8	27	32·4	53·4	−80·5	25·3	27	3	−2·8	8·0	6 9	−3.4	0	3	0	0	3	0	0	0	0	0	0
Munabao																													
Rajasthan (East)																													
Pilani	34·1	..	38·9	1	25·5	..	23·6	22	70·9	171·5	...	29·4	17	13	...	14·3	10·9	...	0	15	0	0	0	0	0	0	0	0	0
Sikar	...	...	...	...	...	...	...	...	63·6	225·3	...	48·1	9	9	...	12.2	8.6	...	0	13	0	0	0	0	0	0	0	0	0
Alwar	32.8	...	36·9	21	25·9	...	23 4	21	189·8	308·6	...	72.4	16	14	...	4.1	2·8	...	2	17	0	0	2	0	0	0	0	0	0
Jaipur	32·0	−0·7	35·6	5	24·7	+0·3	23.0	17,21,30	170·0	261.9	+57.2	66·6	2	13	+2.8	...	...	...	1	19	0	0	7	0	0	0	0	1	0
Dholpur	31 8	...	35·3	21	25·4	...	22·1	21	166·6	447·6	...	75·5	7	19	...	6·8	4·7	...	0	23	0	0	17	0	0	0	0	0	0
Ajmer	31·3	+0·4	34·5	14	24·9	+0·5	22·4	17	29·2	122·4	−49·1	45·0	15	9	+0·6	13·0	11·5	+3·3	1	13	0	0	2	0	0	0	0	0	0
Tonk	32·3	...	36·1	4	25·6	...	23 1	16	106.4	250·2	...	63·2	15	13	...	12·6	8·4	...	0	15	0	0	2	0	0	0	0	0	0
Kota	32·2	+0·2	36·4	1	26·7	+1·3	24 5	96	105·6	210.5	−34·9	62·6	15	10	−0·4	12 2	8·3	+3 0	4	11	0	0	4	0	0	0	0	0	0
Erinpura (Jawai Dam)	32·0	..	34·7	19,24,25	24·8	...	22·2	26	9·9	117·7	...	78·0	26	5	...	7·2	7·2	...	0	13	0	0	1	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	31·1	...	33·4	13	25·2	...	23·7	30	115·8	201·1	...	83.9	19	8	...	11·0	8·0	...	0	14	0	0	5	0	0	0	0	0	0
Udaipur	30.3	+0.6	33.7	24	23·7	+0.5	22·6	28,30	31·7	97·1	−81.0	42·8	26	6	−2·6	5.8	4.1	...	0	10	0	0	4	0	0	0	0	0	0
Jhalawar	31.0	+0·4	33·9	1	25·0	+1·1	23.6	31	89·0	240.8	−51·5	81.0	15	14	+1·2	10.1	8.2	+1·9	0	16	0	0	6	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	31.1	−0·8	34.3	20	25.1	−0.2	22·4	21	206·1	455.5	+225·1	58·8	7	19	+6·3	10·4	7·9	...	0	22	0	0	17	0	0	0	0	0	0
Sheopur	30·9	−0.4	34.5	1	24.6	−0·1	22.2	26	343·2	478·5	+128·5	121·4	11	17	+1.1	10·2	7·6	+1·0	1	25	0	0	10	0	0	0	0	0	0
Shivpuri	29·1	..	32 6	20	23.5	..	21.1	21	356.1	661.3	..	146·2	9	21	...	12·4	(a) 9·5	...	0	26	0	0	0	0	0	0	0	0	0

* Data not available.

(a) Mean of 30 days.

(R) Register not received.

*Temporarily closed.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm)	Precipitation (0.3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20b)	21	22	23	24	25	26	27	28	29
Madhya Pradesh (West) *(contd.)*																													
Nowgong	30·9	−0·3	33·9	19,20	24·4	−0·5	21·5	21	344·9	538·6	+206·1	255·4	6	17	+3·1	8·3	6·2	+2·2	0	24	0	0	7	0	0	0	0	0	0
Guna	29·2	−0·4	32·6	1	23·4	+0.3	22·0	5,22	158·8	294·6	−97·8	38.8	2	17	+3·4	15·3	11·8	...	0	24	0	0	8	0	0	0	0	0	0
Nimach	29·6	+0·3	31·8	13	23·5	+0·8	22·4	2	78·6	267·1	+34·7	126·6	2	7	−3·0	16·0	13·9	+1·2	1	14	0	0	5	0	0	0	0	0	0
Rajgarh	30·5	...	33·8	13	24·2	...	23·3	11	50·2	163·6	...	48·4	15	11	...	8·9	7·9	...	0	15	0	0	1	0	0	0	0	0	0
Sagar	28·4	−0·2	31·5	14,20	22·1	0	20·7	23,31	123·4	454·9	+97·5	72·0	31	17	+1·4	11·8	10·2	...	0	21	0	0	9	0	0	0	0	0	0
Ratlam	29·5	+1·1	32·0	14	22·4	−0·1	21·5	28,30	88·8	195·3	−23·5	55·8	15	13	−0·3	13·8	11·1	+1·2	0	22	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	29·5	+0·8	33·0	13	22·9	+0·3	21·6	11	214·0	308·5	+30·6	67·9	15	14	−0·8	20·9	16·7	+5·3	0	18	0	0	7	0	0	0	0	0	0
Ujjain	29·6	...	34·0	30	23·8	..	22·4	28	..	190·1	...	41·8	15	9	...	...	16·2	...	0	14	0	0	0	0	0	0	0	0	0
Hoshangabad	30·1	+0·9	33·4	13	24·2	+0.6	22·6	16	193·9	342·0	−40·5	57·9	24	19	+3·3	8·9	6·3	+1·5	0	23	0	0	0	0	0	0	0	0	0
Indore	28·6	+0·5	30·8	13,14	22·1	+0·3	21·0	28	118·1	196·9	−10·1	50·9	15	12	+0·7	24·4	21·4	...	1	17	0	0	2	0	0	0	0	0	0
Rajpur (Jhabua)	29·8	...	32·0	24	23·3	...	21·4	11	21·4	59·0	...	13·2	26	7	...	12·7	11·1	...	0	17	0	0	0	0	0	0	0	0	0
Chhindwara	28·1	+0·3	31·6	29	22·4	+0·5	21.0	6,21	275·6	456·9	+193·2	101·8	25	17	+3·4	11·8	(a) 8·3	+0·2	1	23	0	0	4	0	0	0	0	0	0
Seoni	28.5	+0·3	31·9	12	22·5	+0.6	20·5	6	150·5	335·1	−3·0	89·0	29	19	+2·5	12·0	7·7	+1·6	0	25	0	0	5	0	0	0	0	0	0
Betul	27·2	+0·1	30·5	12	21·9	0	20·2	21	125·8	301·2	+32·2	32·8	5	19	+4·3	10·2	8·0	+0.2	0	25	0	0	2	0	0	0	0	0	0
Khandwa	30·1	+0·2	33·4	14	23·5	+0·2	21·4	20	64·6	289·3	+130·6	71·6	14	13	+3·1	15·8	13·2	+2·3	0	16	0	0	3	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	31·1	+1·1	33·6	29	24·5	−0·1	22·5	21	60·9	287·1	−48·2	35·4	15	16	+0.9	7·9	6·0	−0·9	0	18	0	0	11	0	0	0	0	0	0
Sidhi	31·9	...	34·3	20,21	25·0	...	23·5	21,24	65·9	256·7	..	131·0	2	12	...	7·9	5·7	...	1	13	0	0	0	0	0	0	0	0	0
Umaria	29·8	+0·4	33·0	14	23·8	+0·2	22·2	6	281·9	564·2	+231·0	81·6	3	22	+6·0	7·1	5·7	−0·6	0	26	0	0	7	0	0	0	0	0	0
Jabalpur	29·6	+0·4	32·6	12,13	23·9	+0·8	22·2	30	157·7	658·9	+227·9	128·6	6	23	+5.6	9·9	7·8	+2·8	0	25	0	0	12	0	0	0	0	0	0
Ambikapur	29·4	+0·2	31·9	14	22·9	0	21·8	8	172·0	377·2	−87·5	54·2	5	21	+1·6	10·2	7·8	−0·7	1	25	0	0	10	0	0	0	0	0	0
Pendra	28·4	+0·5	30·6	28	22·7	+0·5	21·6	6	144·3	317·2	−46·5	51·4	17	25	+6.6	9·9	7·5	...	0	29	0	0	14	0	0	0	0	0	0
Mandla	29·1	−0·1	31·6	14	22·6	−0·5	20·9	12	211·8	145·8	+18·6	87.2	6	20	+1·4	7·1	4·5	+0·8	0	26	0	0	9	0	0	0	0	0	0
Champa	31·4	+0·6	34·8	16	24·2	−0·7	23·0	26	227·4	538·2	+37·6	69·4	30	24	+4·7	9·6	8·5	+0·3	0	26	0	0	12	0	0	0	0	0	0
Raigarh	31·6	+0·6	34·4	29	25·1	+0·2	23·6	5	297·0	397·2	−110·5	75·8	21	21	+2·1	5·4	3·6	−2·9	0	21	0	0	0	0	0	0	0	0	0
Raipur	30·5	+0·6	32·8	15	23·4	−0·4	21·7	31	112·3	448·2	+84·5	62·0	31	21	+5.5	12·3	10·4	−1·5	1	23	0	0	13	0	0	0	0	0	0
Kanker	28·9	−0·2	31·5	14,16	24·6	+0·8	22·4	24	292·9	593·5	+282·6	90·1	21	19	+3·8	11·5	8·5	+0·5	0	21	0	0	5	0	0	0	0	0	0
Jagdalpur	28·3	0	31·0	12,27	22·6	+0·6	21.0	24	175·3	293·6	−119·9	49·1	29	19	+0·1	9·9	6·9	...	2	27	0	0	9	1	0	0	0	0	0
Gujarat Region																													
Deesa	32·1	...	36·1	25	25·1	...	23·6	30	29·5	111·9	...	47·4	26	8	...	12·4	9·6	...	0	14	0	0	0	0	0	0	0	0	0
Radhanpur	32·4	...	35·8	25	25·2	...	23·6	29,30	15·6	24·7	...	5·0	2	4	...	11·3	8·3	...	0	10	0	0	1	0	0	0	0	0	0
Idar	30·9	...	32.8	20	24·4	...	23·0	29	56·0	125·8	...	20·8	26	13	...	9·4	6.5	...	1	22	0	0	5	0	0	0	0	0	0
Ahmadabad	32·2	+0·1	34·7	19	25·2	+0·8	23·4	23	36·9	96·4	−108·1	31·2	26	10	−1·0	6·2	5·8	−2·6	3	20	0	0	2	1	0	0	0	0	0
Dohad	29·3	+0·2	30·8	13	23·1	−0.2	22·2	31	10·5	113·1	−92·5	33·8	25	11	−1·2	(a) 20·2	(a) 20.2	−1·9	1	22	0	0	1	0	0	0	0	0	0
Baroda	31·8	...	34·1	19	25·2	...	23·7	23	78·4	231·7	...	72·6	31	12	...	12·0	11·9	...	1	21	0	0	1	0	0	0	0	0	0
Baroda (Aerodrome)	32·1	+0.5	34·7	19	25·6	+0·7	24·0	29	89·3	277·1	+48·0	105·7	31	13	+3·3	5·5	3·8	−3·2	0	21	0	0	0	0	0	0	0	0	0
Broach	31·6	+0·5	34·4	26	25·4	+0·3	24·2	26	257·8	335·1	+106·8	217·0	26	15	+2·8	14·4	11·1	+1·1	0	21	0	0	1	0	0	0	0	0	0
Surat	30·7	+0·4	32·6	24	24·3	−0·7	22·6	3	213·0	322·1	+132·9	142·2	3	16	+3·6	13·1	11·3	+1·8	2	26	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar	32·3	...	34·5	20	25·7	...	...	...	(c) 12·2	(b) 35·8	...	...	...	...	...	(c) 23·5	18·8	...	...	...	...	...	...	...	...	...	...	...	...
Naliya	30·0	..	32.4	24	25·7	...	23·0	25	33·5	154·5	...	68·0	27	8	...	23·5	18.1	...	0	10	0	0	2	0	0	0	0	0	0
Bhuj (Rudramata)	31·3	−0·5	34·2	25	25·3	+0·4	24·1	28	143·3	158·9	+84·4	83·8	27	5	+1·3	20·7	16·4	−2·3	1	6	0	0	4	0	0	0	0	0	0
Kandla Aerodrome.	32·4	...	34·5	25	25·3	...	23·9	24,27	93·0	104·5	...	57·4	27	4	...	22·8	17·6	...	0	13	0	0	2	0	0	0	0	0	0
New Kandla	31·9	...	33·3	14	26·5	...	24·9	17	48·2	86·4	...	24·0	26	8	...	29·6	25·9	...	0	17	0	0	1	0	0	0	0	0	0
Mandvi	30·5	+0.2	31·6	26	26·6	+0·5	24·5	24,27	44·0	93·0	+18·6	87·0	27	2	−2·8	31·2	30·9	−2·2	0	3	0	0	0	0	0	0	0	0	0
Surendranagar	33·2	+0·7	35·2	22,25	25.7	+0·9	23·4	29	38·7	108·9	−64·5	43·0	25	5	−1·9	(a) 16·6	15.9	−0·9	0	7	0	0	3	0	0	0	0	0	0
Jamnagar (Aerodrome	31·7	+0·3	33·4	10	25·3	−0·1	23·6	28	244·4	344·5	+246·7	115·8	17	10	+4·8	...	...	...	0	11	0	0	1	0	0	0	0	0	0
Dwarka	30·2	+0·9	31·8	25	26·4	+0·5	24·2	28	76·0	217·5	+152·0	197·4	27	3	−0·8	25·2	24.4	+4·1	0	6	0	0	0	0	0	0	0	0	0
Rajkot	31·9	+0·8	33·6	22	24·3	+0·6	22·4	29	87·0	110·9	−99·6	72·2	26	5	−4·2	28·0	22·5	−0·7	1	12	0	0	2	0	0	0	0	0	0
Bhavnagar (Aerodrome)	33·2	+0·5	35·4	8	25·6	+0·6	23·6	26	72·8	81·8	−53·6	45·6	26	4	−3·3	26·7	21·6	+4·4	0	9	0	0	1	0	0	0	0	0	0
Porbander (Aerodrome) *	29·7	...	31·1	25	25·9	...	23.8	19,28	76·1	164·5	...	46·6	26	10	...	22·4	19·9	...	1	17	0	0	2	0	0	0	0	0	0
Porbander	30·0	+0·7	31·5	14	26·2	+0·6	23·7	28	185·0	298·6	+149·3	125·9	26	12	+3·5	22.9	18·0	−0·8	0	18	0	0	0	0	0	0	0	0	0
Keshod	30·2	...	31·6	25	24.7	...	23·2	28	83·9	181·6	...	34·1	19	12	...	28·7	21·7	...	2	18	0	0	1	0	0	0	0	0	0
Mahuva	30·3	...	31·9	14,25	24·5	...	...	...	141·8	205·1	...	54·4	26	10	...	(b) 18·1	(b) 14·7	...	0	21	0	0	1	0	0	0	0	0	0
Veraval	29·4	..	30·5	13,14	25·5	...	23·4	28	77·8	327·8	+236·1	182·2	26	8	+2·1	30·3	30·2	...	2	18	0	0	1	0	0	0	0	0	0
Konkan																													
Dahanu	29·4	+0·1	30·4	23	25·4	+0·4	24·6	20	202·5	404·3	−92·7	117·3	19	24	+4·7	26·2	(a) 21·5	−7·7	0	30	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	29·4	+0·2	30·4	12	24·4	+0·4	22.2	19	289·4	545·4	−93·2	149·7	19	23	−0·3	22·2	19·2	...	1	30	0	0	0	0	0	0	0	0	0
Bombay	29·7	+0·3	31·3	24	25·2	+0·7	24·2	19	155·1	299·5	−40·6	46·5	25	22	+3·0	9·1	8.6	−7·3	0	29	0	0	1	0	0	0	0	10	0
Alibag	29·1	+0·3	32·5	25	25·1	+0·1	24·2	13,24	...	250·0	−167·6	33·0	19	22	+0·9	...	28·6	+4·9	0	28	0	0	1	0	0	0	0	0	0
Harnai	28·1	+0·1	29·0	12	24·7	+0.2	22·3	19	116·8	391·4	−156·6	89·9	16	22	−0·4	19·6	(a) 20·2	+0·3	0	26	0	0	0	0	0	0	0	0	0

(a) Mean or total of 30 days. (b) Mean or total of 29 days. (c) Mean or total of 28 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2mm)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunderheard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Konkan—(*Contd.*)																													
Ratnagiri	28·9	...	30·6	4	24·5	...	22·8	18	189·7	590·0	+104·1	107·2	18	23	−0·3	22·6	23·6	...	0	30	0	0	0	0	0	0	0	0	0
Devgarh	28·5	0	29·4	5 days	24·8	+0·3	23·2	15	149·4	466·6	+25·5	119·8	14	22	−0·5	26·6	27·8	+2·4	0	25	0	0	0	0	0	0	0	0	0
Vengurla	29·2	+0·5	30·3	10	24·5	+0·6	22·9	19	203·1	593·1	+34·2	160·0	14	26	+1·4	12·9	10·5	...	0	31	0	0	1	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	29·8	...	32·8	19	...	...	...	...	32·1	51·3	...	8·8	26	8	...	13·6	10·1	...	0	18	0	0	0	0	0	0	0	0	0
Jalgaon	31·5	+0·3	34·7	14	23·7	+0·3	22·7	9	37·9	117·9	−22·2	67·8	1	12	+0·5	16·1	12·6	+0·1	0	19	0	0	0	0	0	0	0	0	0
Malegaon	31·2	+0·5	34·0	24	23·1	+0·9	21·7	10	17·8	17·8	−59·4	11·4	25	2	−3·5	16·8	12·7	−1·1	0	5	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	26·5	..	29·7	17	21·8	...	20·6	29	20·6	70·7	...	20·6	25	9	...	23·4	18·3	...	0	20	0	0	0	0	0	0	0	0	0
Ahmednagar	29·5	−0·1	32·5	24	21·1	+0·5	19·3	29	17·6	29·0	−40·1	14·8	15	4	−0·6	14·5	10·5	−3·7	1	7	0	0	0	0	0	0	0	0	0
Khandala	..	...	...	...	...	..	...	..	..	1194·1	−68·3	154·0	18	31	+1·7	..	...	...	0	31	..	..	...	...	..	...	...	..	...
Poona (Aerodrome)	27·6	...	29·7	24	21·4	...	20·0	29	7·2	50·2	..	5·6	18	3	..	...	..	...	1	17	0	0	0	0	0	0	0	0	0
Poona	27·8	+0·2	30·1	29	21·8	+0·4	21·1	1,729	13·1	40·3	−49·9	4·7	3	4	−4·8	(a) 8·5	(a) 6·2	−8·1	2	24	0	0	0	0	0	0	0	0	0
Jeur	31·4	+0·1	34·0	29	21·5	+0·5	20·4	9,10	22·7	48·0	−39·5	16·2	1	5	−1·7	21·2	14·3	+1·2	0	8	0	0	0	0	0	0	0	0	0
Baramati	30·2	+0·8	32·7	29	22·0	+0·5	20·8	23	..	6·4	−86·2	6·4	15	1	−5·0	21·9	16·3	−0·2	0	1	0	0	0	0	0	0	0	0	0
Sholapur	30·6	−1·0	31·1	12,13,29	22·2	+0·5	21·1	18	45·9	106·7	−2·0	39·5	15	7	0	14·5	10·9	−3·1	0	9	0	0	0	0	0	0	0	0	0
Miraj	28·2	+0·1	30·6	15	21·6	+0·5	20·9	4,29	29·8	59·2	−60·4	16·2	16	7	−2·2	...	...	...	1	15	0	0	0	0	0	0	0	0	0
Kolhapur	26·4	0	28·4	12	21·4	+0·4	20·4	16	67·6	175·8	−45·7	23·4	13	17	−1·5	22·2	17·7	+0·5	1	20	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	29·3	0	32·0	29	21·5	+0·6	20·1	26	50·0	114·2	−7·5	26·2	19	13	+4·1	19·3	15·5	−0·8	0	23	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthana Aerodrome)	29·3	...	31·5	9	21·7	...	20·2	10	34·8	85·6	...	17·2	16	10	..	20·0	15·2	..	1	21	0	0	0	0	0	0	0	0	0
Parbhani	30·5	−0·4	33·2	11	22·2	−0·1	21·0	2	49·2	284·6	−124·1	99·2	15	14	+4·5	12·6 (l)	8·4 (k)	−3·9	0	17	0	0	5	0	0	0	0	0	0
Nanded	30·1	...	33·2	25	22·7	...	19·1	1	37·8	27·4	...	100·8	20	16	..	16·0	7·6	...	1	23	0	0	0	0	0	0	0	0	0
Bir (S)	30·2	..	32·6	10	22·4	..	21·1	29	0	100·3	...	59·0	15	8	..	12·7	9·0	...	0	16	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	29·6	−0·3	33·1	14	24·1	−0·1	22·5	6,22,30	225·2	652·1	+227·3	179·6	21	19	+2·1	8·8	6·4	+0·8	1	21	0	0	5	0	0	0	0	0	0
Nagpur (Sonegaon)	30·2	−0·5	33·5	12	23·7	−0·1	21·8	23	214·1	179·1	+189·0	93·6	24	16	+2·7	17·6	12·6	..	2	21	0	0	5	0	0	0	0	2	0
Amraoti	30·1	+0·2	33·9	14	22·5	−0·3	21·1	24	57·7	192·5	+27·6	39·8	21	13	+3·2	18·6	13·6	+3·0	0	19	0	0	2	0	0	0	0	0	0
Akola	31·0	+0·2	34·6	14	23·7	+0·5	22·0	25	41·4	158·4	−2·1	55·4	14	12	+2·9	14·4	10·2	−0·4	0	17	0	0	1	0	0	0	0	0	0
Prambhapuri	29·9	...	32·4	11	24·2	...	22·5	24	239·0	334·1	...	100·6	30	21	...	11·0	8·6	...	0	24	0	0	6	0	0	0	0	0	0
Buldana	28·1	+0·7	30·6	28	21·0	−0·2	20·0	6 (days)	55·9	117·8	−73·2	22·0	1,4	10	−2·2	11·5	11·3	−0·1	0	15	0	0	0	0	0	0	0	0	0
Yeotmal	29·5	0	34·2	14	...	...	...	...	167·2	350·9	+93·9	68·9	5	17	+4·0	19·8	16·2	+0·1	0	19	0	0	1	0	0	0	0	0	0
Chanda	30·1	−0·6	33·3	28	24·1	+0·1	22·3	23	177·7	629·9	+309·9	86·2	21	23	+8·2	13·4	9·6	+1·6	0	25	0	0	8	0	0	0	0	0	0
Pusad	..	..	...	...	23·2	...	21·6	16,17	69·5	188·5	...	27·8	1	13	...	11·4	10·6	...	0	18	0	0	0	0	0	0	0	0	0
Sironcha	30·5	−0·2	33·6	11,28	24·5	0	23·0	2	150·8	460·3	+25·4	79·4	2	19	+2·7	7·4	1·7	−0·9	0	21	0	0	2	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31·8	−0·4	34·2	11	25·3	−0·6	23·5	31	81·6	123·7	−49·0	40·6	21	7	−2·5	16·2	14·6	+4·8	0	10	0	0	6	0	0	0	0	0	0
Vishakhapatnam	32·8	−0·4	36·0	13,27	26·0	+0·3	24·2	11,25	23·4	99·4	−32·0	25·2	11	7	−1·2	20·8	14·9	+2·7	0	10	0	0	6	0	0	0	0	1	0
Kakinada	32·5	+0·2	35·0	14	...	...	...	...	3·6	63·2	−78·0	16·0	8	7	−2·6	16·5	12·7	+4·0	0	10	0	0	0	0	0	0	0	0	0
Nidadavole	31·2	...	33·1	13	25·2	...	23·0	26	15·8	127·8	...	29·0	26	9	...	17·9	12·3	...	1	13	0	0	1	0	0	0	0	0	0
Rentachintala	32·7	−1·1	34·9	27,28	25·3	−0·5	22·4	31	33·6	154·8	+64·9	44·0	23	6	−1·8	15·6	10·5	−3·3	0	6	0	0	0	0	0	0	0	0	0
Gannavaram	32·0	−0·1	34·4	9	25·0	0·1	23·0	29	38·3	218·9	+14·6	40·0	14	13	+1·1	23·2	15·9	+0·6	1	17	0	0	3	0	0	0	0	0	0
Nagarjunakonda	33·0	..	35·1	15	25·9	..	22·6	31	12·3	163·1	...	42·6	18	6	...	23·5	19·1	..	2	8	0	0	0	0	0	0	0	0	0
Masulipatam	32·1	−0·8	34·4	8,12	25·1	−0·4	22·7	30	38·1	325·5	+166·5	69·8	27	16	+5·8	8·7	6·1	−3·6	0	19	0	0	6	0	0	0	0	1	0
Ongole	33·9	...	36·6	5	25·8	..	23·4	29	6·9	154·7	..	35·6	29	10	...	14·9	10·1	..	1	17	0	0	1	0	0	0	0	0	0
Nellore	34·0	−1·6	36·5	5	25·2	−1·1	23·5	19	2·5	309·8	+233·1	72·1	14	17	+11·5	9·2	7·5	+1·4	0	23	0	0	5	0	0	0	0	0	0
Telangana																													
Ramagundam	31·1	−0·4	31·6	28	24·6	0	22·5	29	41·8	256·0	+5·9	46·6	29	17	+2·8	8·1	5·5	−0·6	0	19	0	0	0	0	0	0	0	0	0
Nizamabad	29·8	−0·6	32·9	11	23·1	+0·3	20·8	15	29·1	201·5	−46·4	90·0	15	11	−2·8	11·1	8·7	+1·0	0	13	0	0	1	0	0	0	0	0	0
Hanamakonda	31·4	+0·9	34·5	28	25·4	+1·5	23·1	2	54·3	126·8	+18·5	65·8	15	6	−4·7	15·0	7·7	−2·0	0	11	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	28·3	..	30·8	11	21·7	...	20·7	7,18	29·4	141·0	...	36·1	17	12	...	...	..	...	0	15	0	0	1	1	0	1	0	0	0
Bhadrachalam	31·7	+0·4	34·1	11,28	25·1	+0·5	23·4	8	45·0	126·3	−155·5	33·0	17	10	−4·4	9·0	6·6	−0·6	0	12	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	29·0	−0·6	31·6	12	22·3	+0·4	21·3	30	38·1	123·3	−11·1	26·7	17	11	+1·1	24·6	20·5	+4·1	0	18	0	0	3	0	0	0	0	3	0
Khammam	31·7	...	34·5	28	24·5	...	20·2	23	69·6	236·4	...	42·4	17	15	...	11·8	7·3	...	0	15	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·4	...	32·6	12	22·3	...	21·9	19,30	19·2	224·2	...	78·4	13	14	...	13·6	11·5	...	0	18	0	0	3	0	0	0	0	0	0
Rayalaseema																													
Kurnool	31·9	−0·6	34·8	12	23·6	+0·1	22·3	22	17·8	62·6	−51·7	18·0	18	6	−2·6	23·1	19·3	+4·5	0	15	0	0	1	0	0	0	0	0	0
Anantapur	33·8	+1·2	35·5	27	24·4	+0·8	22·8	19	31·7	43·8	−30·7	33·7	31	2	−2·8	23·5	20·4	+2·8	0	5	0	0	0	0	0	0	0	0	0
Cuddapah	33·6	−1·2	36·5	27	25·0	−0·3	23·5	13,14	13·0	185·2	+52·1	55·0	13	10	+2·3	7·6	5·3	−5·3	0	12	0	0	0	0	0	0	0	0	0
Arogyavaram	30·1	...	32·2	11,27	22·0	...	20·6	16,28	20·6	100·9	...	30·5	1	10	..	17·5	14·3	...	0	12	0	0	2	0	0	0	0	0	0
Madras State																													
Madras	33·2	...	34·8	23	24·3	...	22·4	1	...	256·8	...	46·7	1	16	...	...	9·2	...	2	20	0	0	10	0	0	0	0	0	0
Madras (Minambakkam)	33·3	−1·6	34·8	9	24·5	−1·1	22·6	18	36·1	187·1	+70·8	24·7	25	13	+5·1	31·1	11·3	−4·3	0	21	0	0	6	0	0	0	0	4	0
Uellare	34·2	+0·2	36·7	9	24·1	−0·6	21·9	31	45·2	150·3	+4·5	31·8	31	13	+5·6	9·2	8·7	+2·3	0	17	0	0	15	0	0	0	0	0	0
Tambaram (Aerodrome)	33·7	...	35·4	7	.	...	..	..	33·7	231·8	...	36·8	18	15	...	...	...	...	0	18	0	0	4	0	0	0	0	0	0

(a) Mean of 30 days. (l) Mean of 19 days. (k) Mean of 20 days.

Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total to the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm)	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—(Contd.)																													
Tiruppattur	34·0	...	36·6	4	22.5	...	21·0	18	21·1	57·0	...	21·8	10	5	...	12.6	9.6	...	0	5	0	0	1	0	0	0	0	0	0
Cuddalore	33·8	—0.8	36·2	22	24·7	—0·3	22·0	31	28·7	341.2	+219·3	117.1	31	14	+6·9	10·5	9·2	+2·4	0	21	0	0	9	0	0	0	0	0	0
Kallakurichchi	35.0	...	37·7	5	24.9	...	22·3	31	26·6	142.8	...	27·2	14	9	..	(h) 10·9	(g) 9.7	...	0	14	0	0	2	0	0	0	0	0	0
Salem	33·4	—0·1	36·1	4	23·9	+1·0	22·5	31	79·0	192·2	+25·3	57·0	26	12	+2·1	9·4	7·5	+1·5	0	16	0	0	15	0	0	0	0	0	0
Coimbatore (Pilamedu)	30·4	...	32.1	21	21·8	...	20·6	8	6·2	9·9	...	4·6	13	1	...	36·3	29·7	..	0	5	0	0	1	0	0	0	2	0	0
Coimbatore	29·9	—0·9	31·6	9	22·5	+0.8	21.1	8	8·3	16·5	—14·7	8·3	23	2	—1·1	19·1	15·3	+6·6	2	6	0	0	1	0	0	0	0	0	0
Nagapattinam	34·5	0	35·1	12	26·1	+0·7	23·7	29	21·4	9·8	—67·7	4·6	13	2	—2·9	13·7	11·5	+3·1	0	6	0	0	3	0	0	0	0	0	0
Tiruchchirappalli	35·6	—0·2	37·5	9	25·7	+0.6	22·4	31	23·8	127·4	+30·1	42·1	31	6	+1·3	25·9	23·8	—0·7	0	8	0	0	11	0	0	0	1	0	0
Vedaraniyam	33.0	..	35·4	25	...	...	...	...	4·2	19·6	...	6·6	29	4	...	13·5	11·4	...	0	4	0	0	2	0	0	0	0	0	0
Adirampattinam	33·2	..	36·1	12	25·8	...	23·2	29	10·2	50·6	...	31·8	31	3	..	18·4	13·5	...	0	8	0	0	10	0	0	0	2	0	0
Madurai	36·1	+1·0	37·9	27	25·1	+0·4	22·1	29	9·8	37·2	—66·4	21·4	5	4	—2·6	7·1	5·6	—0·5	0	6	0	0	1	0	0	0	0	0	0
Madurai Aerodrome	35.4	..	37·4	9	24·9	...	22·8	31	4.4	60·8	..	29·0	31	2	...	16·5	13·0	..	0	6	0	0	10	0	0	0	0	0	0
Tondi	33·0	..	37·4	27	26·0	...	25·0	27	7·4	76·4	...	7·4	27	1	...	23·2	16·5	...	0	1	0	0	0	0	0	1	0	0	0
Pamban	31·7	0	33·7	27	26·6	+0·6	25·5	29	0	0	—15·0	0	...	0	—1·0	19·0	17·5	+4·5	0	0	0	0	0	0	0	0	0	0	0
Tuticorin	34·8	+0·3	37·0	26	26·1	—0·2	24·7	2,5	0	0	—5·8	0	...	0	—0·8	24·0	19·8	+0·6	0	0	0	0	0	0	0	0	0	0	0
Palayankottai	34·8	0	36·9	5	25·5	—0.9	24·2	1	0·8	0	—17·5	0	...	0	—1·0	19·5	14·3	—3.5	0	0	0	0	0	0	0	0	0	0	0
Kanniyakumari	29·3	..	31·3	13	25·5	...	22·2	26	15·9	49·0	...	13·6	2	7	...	20·5	17·4	...	1	12	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	28·7	+0·8	30·2	11	24·8	+0·7	22·8	17	229·6	512·2	—24·2	113·4	15	23	—1·2	20·0	18·5	...	0	29	0	0	0	0	0	0	0	0	0
Honavar	28·3	—0·4	30·2	11	23.6	0	20·8	16	351·9	829.6	+184·9	198·6	16	27	+1·7	[illegible]	12·5	+0·5	0	31	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	27·9	...	29.2	4 days	22·9	...	21·8	14,15, 16	410·2	1125·1	..	142·5	14	30	..	11·8	8·7	...	0	31	0	0	1	3	0	0	0	0	0
Mangalore	28.7	—0·1	31·6	10	23·4	0	21·8	3	313·7	1090·6	+493·2	141·5	3	27	+1·9	10.8	9·1	+1·9	0	31	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Hunsur	28·0	—0·9	30·8	13	21·2	+0·1	20·1	15,26	57·6	172·6	+15·6	33·8	17	11	+0·6	23·4	19·5	+1·8	0	14	0	0	0	0	0	0	0	0	0
Gulbarga	30·2	—1·4	33·6	13	22·2	+0·3	21·2	28	15·6	64·0	—64·8	30·0	15	5	—2·7	20·1	17·3	+2·7	1	11	0	0	0	0	0	0	0	0	0
Bijapur	30.1	—0·3	33·0	11,13,29	21·9	+0.8	21·0	28	12·0	34·0	—27·0	9·0	15	4	+0·3	16·2	12·6	—1·6	0	10	0	0	1	0	0	0	0	0	0
Raichur	31·9	—0·3	35·0	12	21·9	—0·7	...	..	27·5	135·1	+23·6	51·6	29	8	+0·2	20·1	18.3	+2.9	0	11	0	0	0	0	0	0	0	0	0
Belgaum	25·1	—0·5	26·4	11	20·5	+1·5	19·7	17	109·8	299·2	—61·2	43·2	16	22	+4.4	15·4	12·0	—0·8	0	31	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	25·5	..	27·0	11	20·7	...	19·6	15	56·1	152·4	...	32·6	15	13	...	...	...	...	0	26	0	0	0	0	0	0	0	0	0
Gadag	28·7	0	31·1	29	21·3	+0·5	20·1	9	19·3	32.3	—71·3	7·4	14	5	—3.3	22.6	16·7	+2·1	0	12	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	31·8	—0·7	33·9	12	21·4	+1.1	23.0	3	5·0	12·0	—48·5	5·0	31	3	—1·0	18·2	15·4	+2·7	0	3	0	0	0	0	0	0	0	0	0
Chitradurga	27·5	—0·6	29·9	30	21·3	+1·0	20·1	16	35·9	52·3	—33·6	11·4	15	7	—0.4	16·7	13·7	+1·8	0	16	0	0	0	0	0	0	0	0	0
Shimoga	27·6	+0·5	29·6	30	21·1	+0·1	19·3	16	40·8	100·4	—27·3	28·8	16	10	—4·1	10·2	6·4	+0·2	0	19	0	0	0	0	0	0	0	0	0
Balehonnur	22·8	—0·5	25·6	1	18·6	0	17·1	17	...	672·1	+77·7	77·5	18	20	+5·5	...	...	...	0	31	0	0	0	0	0	0	0	0	0
Hassan	24·7	—1·2	27·3	31	18·7	+0·2	17·7	15	69·0	105·8	+6·7	30·0	18	11	+1·8	15·7	12·3	+2·3	0	18	0	0	0	0	0	0	0	0	0
Bangalore	27·2	—0·2	29·2	29	19·8	+1·1	19·0	19	69·3	115·7	—10·8	21·3	25	12	+2·7	17·8	14·8	+3·1	1	16	0	0	1	0	0	0	0	1	0
Bangalore Aerodrome	27·9	...	29·3	29	19·5	...	18·7	7,15, 16	39·1	80·6	..	14·2	25	10	..	..	..	...	1	15	0	0	0	0	0	0	0	3	0
Mysore	29·1	+0·8	31·8	27	20·0	+0·7	19·3	5	39·2	57·1	—26·5	8·8	29	8	+1·0	13.4	11·9	—0·5	1	13	0	0	0	0	0	0	0	0	0
Kerala																													
Calicut	26·1	—0·2	30·4	6	23·4	—0·1	22·1	14	249·6	812·2	+376·[illegible]	109·6	9	27	[illegible]	9·3	8·5	+1·3	0	27	0	0	1	0	0	0	0	0	0
Palghat	27·8	..	30·3	4,31	25·6	...	21·4	23	284·9	586·4	..	77·6	23	24	...	15·2	12·8	...	0	26	0	0	4	0	0	0	0	0	0
Fort Cochin	28·1	+0·1	29·9	5	24·1	+0·2	22·7	15	156·5	646·3	+293·5	75·6	11	28	+9·3	12·5	9·4	+1·4	0	29	0	0	4	0	0	0	0	0	0
Cochin (Naval Air Station)	28·7	...	30·4	22	23·8	...	22·6	15	197·5	684·4	...	80·1	11	26	...	10·0	6·9	...	0	29	0	0	4	0	0	0	0	10	0
Alleppey	28·2	—0·7	30·0	22	23·3	—0·3	22·1	3	160·4	490·2	—112·4	59·0	9	23	+3·4	12·7	10·1	—0·7	0	29	0	0	0	0	0	0	0	0	0
Punalur	29·4	...	31·9	2	23·0	...	21·2	3	163·7	437·5	...	66.4	26	22	...	8·9	4·8	...	0	23	0	0	0	0	0	0	0	0	0
Trivandrum	28·7	—0·4	30·3	4	23·3	0	21·8	2	44·8	223·3	+103·2	34·6	2	20	—10·2	15·2	10·1	—0·5	1	26	0	0	0	0	0	0	0	0	0
Trivandrum Aerodrome	28·8	...	29·9	9,17	23·2	...	22·0	16	..	207·0	...	26·6	9	15	...	..	6·6	...	0	22	0	0	0	0	0	0	0	0	0
Arabian sea Islands																													
Amini *																													
Minicoy *																													
Hill Station excluding Kashmir																													
Dalhousie	23·3	+0·6	26·0	7	16·5	0	13.5	21	373·4	1020·6	+400.6	219·0	9	17	—4·3	1·9	2·3	+0·2	0	21	0	0	1	14	0	0	0	0	0
Dharmsala	25.7	—0·6	28·7	8	20·9	+0·4	18.9	21	444·1	1242·9	+ 0 ·7	246·6	9	23	—0·7	5·0	3·2	—0·4	0	23	0	0	12	6	0	0	0	0	0
Simla	20·2	0	27·3	21	15·8	+0·7	12·5	21	259·5	372·6	—55·4	14·6	21	21	+1·3	2·9	2·6	+1·1	0	29	0	0	1	17	0	0	0	0	0
Dharmpur	..	...	..	..	..	...	...	..	..	296·1	—22·9	32·2	25	20	+3·5	...	..	...	0	23	..	..	..	...	...	...	...	...	...
Lokpal	10·1	...	11·7	30	5.7	...	4.3	21	..	443·6	...	49.2	16	25	...	...	...	...	0	31	0	0	0	7	0	0	0	0	0
Badrinath (R)																													
Joshimath	24·5	...	27·9	20	17·7	...	15·1	21	33·1	276·1	...	39·8	3	18	...	5·5	3·3	...	0	27	0	0	4	22	0	0	0	0	0
Mussoorie	20·2	+0·1	24·9	26	15·8	+0·3	14·1	21	305·2	762·0	+67·6	93·0	12	23	—0·8	1·9	2·0	—3·8	0	25	0	0	8	26	0	0	0	0	0
Mukteswar (Kumun)	20·5	+0·5	24·2	30	15·0	+0·9	12·3	21,22	134·6	386·2	+74·8	76·0	21	19	+1·1	8·7	10·0	+1·8	0	23	0	0	5	26	0	0	0	0	0
Nainital	20·9	—0·2	23·4	25	17·0	+0·6	15·0	21	286·5	652·2	+21·5	105·0	14	24	+1·1	9·3	6·9	—0·1	0	29	0	0	0	15	0	0	0	0	0

*Data given as addenda in December 1961 issue.

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

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830—1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20(b)	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir—*contd.*																													
Walong*																													
Kalimpong	25·2	+1·0	29·1	5	17·5	−2·1	15·2	14	228·6	649·0	+135·1	101·6	5,14	10	−11·5	4·8	3·8	−4·7	0	10	0	0	0	2	0	0	0	0	0
Darjeeling	19·3	−0·1	23·6	24	15·7	+0·5	14·9	19,20	219·6	773·4	+98·8	61·6	29	28	+4·3	2·4	1·9	−1·0	0	30	0	0	0	17	0	0	0	0	0
Kohima (R)																													
Shillong	24·3	+0·4	27·4	24	18·7	+0·9	15·8	31	144·8	226·0	−91·3	51·2	31	16	−2·5	5·4	3·8	+1·1	0	20	0	0	2	0	0	0	0	0	0
Cherrapunji	23·0	+0·5	24·4	23	20·9	+2·4	19·1	30	...	..	...	...	...	..	...	10·0	8·9	+1·5	...	...	0	0	0	0	0	0	0	0	0
Abu	23·3	+1·1	26·6	24,25,26	18·6	+0·6	16·4	31	201·4	655·2	+77·3	141·4	20	21	+3·6	22·3	12·4	−0·2	0	22	0	0	1	7	0	0	0	0	0
Aijal	25·1	...	26.9	20	19·5	...	17·2	14	266·8	311.3	...	59·2	30	23	...	7·4	7·1	...	0	28	0	0	0	0	0	0	0	0	0
Pachmarhi	24·0	+0·2	27·0	14,28	18·9	−0·5	17·0	16	286·6	679.6	+74.6	114·8	5	25	+3·1	10·4	10.6	+0·3	0	31	0	0	3	26	0	0	0	0	0
Mahabaleshwar	18 8	+0·1	20·0	15	16·9	+0·5	16·0	19	570·2	1716·3	−140·7	181·6	16	31	+1.2	22·5	21·7	+4·3	0	31	0	0	0	31	0	0	0	0	0
Mercara	20·4	−0·3	22.0	5	16·6	−0·1	15·4	14,16	448·0	1003·2	+322·5	85·0	23	30	+3·5	...	...	...	0	31	0	0	0	0	0	0	0	0	0
Ootacamund	17 5	+0·4	20.7	11,12	10·4	−0·5	8·7	19	70·8	119·4	−25·1	28·6	11	11	−1·3	13·8	9·8	+1.3	2	20	0	0	1	0	0	0	0	0	0
Coonoor	21·7	+0·1	23·3	15	15·5	+1·2	12 4	4	...	64·8	−61.9	22·6	11	8	−1·1	...	8·5	+2·1	0	15	0	0	0	0	0	0	0	0	0
Kodaikanal	17·9	+0·8	20·3	30	11·6	+0.5	10·4	17	97·8	114·7	−63·1	34·3	2	9	−3·1	14·8	16·7	+2·9	2	18	0	0	4	1	0	0	0	0	0
Nepal																													
Katmandu	28·1	..	30·6	13	20·3	...	19·1	20,24,31	89·7	525·6	...	87·4	13	21	...	1·8	1·0	...	0	28	0	0	4	0	0	0	0	0	0
Sikkim																													
Lachen	19·2	...	21 4	7,13	12·8	...	10·3	17	...	286·3	...	35·2	19	26	...	...	...	...	0	31	...	...	...	...	...	...	...	...	...
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	30·9	...	32·8	20,21	25·1	..	23·9	9	92·3	296·5	...	45·3	11	15	...	...	...	...	3	24	0	0	0	0	0	0	0	0	0
Hazaribagh	29·4	...	31·1	15,20,28	23·2	...	21·6	25	140·3	412·2	...	69·0	6	19	...	...	..	...	0	24	0	0	10	0	0	0	0	0	0
Konar	..								308·1	472·9	...	64·0	5	18	...	...	...	...	0	23	0	0	0	1	0	0	0	0	0
Bokaro	31·7	...	34.4	29,31	24·9	...	22·8	25	90·0	313·1	...	52·0	12	21	...	...	...	...	1	23	0	0	0	0	0	0	0	0	0
Maithon	32·5	...	36·3	1	25.9	...	25·0	2,11,25	204·8	248·5	...	86·6	2	13	...	...	...	...	1	15	0	0	2	0	0	0	0	0	0
Ramgarh	31·6	...	33·8	28,29	25·0	...	23·4	12	267·6	454·2	...	90·0	12	20	...	3·8	2·0	...	0	24	0	0	1	0	0	0	0	0	0
Panchet Hills	32·1	...	33.7	1	26·1	...	24·8	25	70·7	170·5	...	35·0	11	14	...	7·9	6·1	...	0	19	0	0	16	0	0	0	0	0	0
Durgapur	33·6	...	36·2	1	25·3	...	21·7	27	99·0	251·8	...	95·0	2	11	...	...	...	...	1	19	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	30·2	...	32·6	13	23·3	...	21·6	29	...	464·0	...	48·1	3	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hirakud	31·3	...	33·3	31	25·4	...	23·9	26	205·7	436·3	...	78·8	15	20	...	7·8	5·2	...	1	25	0	0	7	0	0	0	0	0	0
Bhimkund	30·3	...	36·1	3	24·1	...	22·8	25	193·3	310·6	...	53·0	7	21	...	3.1	2.0	...	0	27	0	0	31	0	0	0	0	0	0
Sonepur	31·8	...	37·1	22	24·2	...	23·3	5	...	184·0	...	22·6	4	16	...	...	8·0	...	0	25	...	...	...	...	...	...	...	...	..
Khijrawan	28·7	...	31·7	16,17	23·5	...	22·2	21	309·3	497·0	...	84·0	24	20	...	12·5	8·6	...	0	24	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Bagra Tawa	29·6	..	32·5	13,14	23·8	...	22·3	24	184·8	390·3	...	104·2	24	17	...	9·2	6·8	...	0	21	0	0	2	0	0	0	0	0	0
Punasa	30·6	...	33·9	14	23·8	...	22·4	25	86·0	192·0	...	54·6	25	9	...	8·5	6·3	...	0	15	0	0	0	0	0	0	0	0	0
Thikri	31·5	...	34·5	14	24·4	...	22·8	8	...	120·8	...	34·0	25	11	...	...	...	...	1	17	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	32·0	...	34·2	19	25·0	...	24.0	28,29	0	150·8	...	54·0	23	10	...	...	...	...	0	10	...	...	...	...	...	...	...	...	...
Ganga Catchment																													
Mukhim	23·5	...	25·9	26	17·5	...	15·5	21	108·8	423·1	...	73·1	15	17	...	..	...	...	3	22	0	0	4	10	0	0	0	0	0
Tehri	32·6	...	35·6	6,30	23·7	...	20·4	21	71·3	181·7	...	46·2	16	11	...	3·6		...	0	15	0	0	1	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	24·2	...	27·7	6	14·0	...	11·9	20,25	16·2	46·2	...	16·4	20	4	...	...	...	...	0	4	...	...	...	...	...	...	...	...	...
Khudi Bazar									57·7	896·4	...	99·0	20	24	...	...	...	...	0	25									
Timure	26.4	...	28·2	24	18·0	...	16·9	21,25	28·7	248·4	...	33·7	20	25	...	...	...	...	0	29									
Pokhara	29·1	...	31·6	17,24	22·1	...	20.5	21	74·1	1026·7	...	179·8	19	24	...	4·2	2·8	...	0	29	0	0	9	0	0	0	0	0	0
Gorkha †																													
Nuwakot	30·0	...	32·0	19	20·9	...	19·8	24	33·2	524·2	...	77·2	26	23	...	...	...	...	0	28									
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment																													
Mansiari (R)																													
Dadeldhura	23·2	...	25·7	30	17·5 (a)	...	14·9	21	119·9	502·5	...	130·4	21	23	...	...	...	...	1	27	0	0	0	0	0	0	0	0	0
Sallyana	26·5	...	28·4	17	19.9 (f)	...	17·5	21	35·9	114·6	...	31·0	20	10	...	...	...	...	0	14									
Butwal	32·3	...	35·4	24	25·4	...	22·9	21	100·9	717·3	...	84·2	14	20	...	...	...	...	0	24									
Baghmati Catchment																													
Katmandu ‡																													
Kosi Catchment																													
Chautara	26·7	...	28·6	24	18·7	...	17·2	30	113·2	654·3	...	68·9	20	26	...	...	...	...	1	28									
Chepua	...	...	...	...	...	...	...	...	23·5	267·9	...	24·7	3	24	...	...	...	...	0	30									

*Observatory closed from 16-8-61. †Data not reliable. ‡Data included under 'Nepal'. (a) Mean of 30 days. (f) Mean of 25 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																													
Kosi Catchment—*contd.*																													
Walungchung Gola	17·3	...	19.2	13	10·5	...	9·5	28	107·6	383·2	...	33·4	20	30	...	...	...	...	0	30									
Taplethok	27·3	...	29·8	5	18 8	...	17·4	18	115·0	907·4	...	96·4	30	31	...	...	...	...	0	31									
Bhojpur	24·3	...	27·1	25	18·4	...	17·2	20,31	42·0	295·1	...	47·0	14	17	...	...	...	...	0	19									
Taplejung	25·1	...	27·7	29	17·5	...	15.5	31	157·6	555·6	...	103·8	24	24	...	...	...	...	3	27	0	0	2	16	0	0	0	0	0
Okhaldunga	24·2	...	27·7	24	17·4	...	16·1	20	85·4	622·5	...	57·6	19	19	...	1·0	0·9	...	1	25	0	0	4	21	0	0	0	0	0
Chainpur	27·9	...	30·5	8	20.7	...	18·7	29	14·6	228·8	...	57·8	31	14	...	...	...	...	0	17									
Angbung	(e) 29.2	...	31.2	24	21.3	...	19·3	31	43·1	222·2	...	50·2	19	16	...	...	...	...	2	21									
Barahakshetra	31·4	...	34·2	23	23·6	...	22 5	20	359·6	610·3	...	122·7	18	24	...	6·3	3.3	...	1	27	0	0	16	0	0	0	0	0	0
Tista Catchment																													
Gangtok	22·4	...	26·2	24	17.1	..	15·9	31	108·5	588·5	...	69 6	19	29	...	2.2	1·5	...	1	30	0	0	0	28	0	0	0	0	0
Gezing	26.4	...	30.7	24	18.5	...	16 6	24	46·3	626·5	...	97·8	19	27	...	...	..	...	0	29									

(e) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km. p.h.): 62 or more	Wind speed, (km. p.h.): 20 to 61	Wind speed, (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1007.5	1004·4	...	26.8	25·3	24·4	30·5	88	...	5·6	...	9·4	0	0	31	0	0	0	0	0	31	0	0	0	0
	1730	,,	1005.5	1002·4	...	26·2	24·8	24·1	30·0	89	...	6·1	...	11·0	0	1	30	0	0	0	0	0	31	0	0	0	0
Long Island	0830	25	...	...	...	27·4	25·9	25·2	32·1	88	...	7·1	...	5·0	0	0	27	0	0	0	0	0	26	1	0	4	0
	1730	,,	...	...	...	26·4	24.9	24·2	30·1	88	...	7·3	...	5·2	0	0	28	0	0	0	0	0	28	0	0	3	0
Port Blair	0530	79	1007.2	998·3	...	25·1	24·2	23·8	29·5	93	...	7·6	...	18·5	0	13	17	0	0	0	0	0	24	6	0	1	0
	0830	,,	1008·6	999·7	+0·2	26·4	25·0	24 4	30·5	89	+5	7·8	+1·2	24.5	0	21	10	0	0	0	0	0	29	2	0	0	0
	1130	,,	1007·7	998.8	...	27·1	25·2	24.3	30·4	85	...	7·9	...	29.4	0	24	7	0	0	0	0	0	28	3	0	0	0
	1730	,,	1006·5	997·6	...	25·7	24·5	24.1	30·0	91	...	7·8	...	20·9	0	13	18	0	0	0	0	0	27	4	0	0	0
	2330	,,	1007·9	999·0	...	25·3	24·5	24·2	30·2	94	...	7·5	...	17·6	0	13	18	0	0	0	0	0	27	4	0	0	0
Car Nicobar	0830	10	1009·7	1008·5	..	27·6	25·5	24.4	30·5	83	...	6·9	...	5·9	0	0	30	0	0	0	0	6	21	3	0	1	0
	1730	,,	1007.5	1006·3	...	26·5	24·6	23·8	29·5	86	...	6·9	...	4·1	0	0	26	0	0	0	0	1	22	3	0	5	0
Nancowry	0830	26	1010·4	1007·5	...	27·3	24·9	23·8	29·5	81	...	5·7	...	8·3	0	0	27	0	0	0	0	0	25	2	0	4	0
	1730	,,	1008·2	1005·3	...	26·7	24·6	23·7	29·3	84	...	5·6	...	7·7	0	0	26	0	0	0	0	0	25	1	0	5	0
Kondul	0830	8	1010·0	1009·1	...	28·0	25·2	24·0	29·8	79	...	5·8	...	2·2	0	0	17	0	0	0	6	7	3	1	0	14	0
	1730	,,	1003·0	1007·1	...	27·2	24·7	23·7	29·3	81	...	6·2	...	2·8	0	0	22	0	0	0	20	1	1	0	0	9	0
Assam (including Manipur, Tripura)																											
Pasighat	0830	157	1003·1	985·6	...	26·8	25·4	24·8	31·3	88	...	7·3	...	2·8	0	0	22	3	0	9	3	1	0	0	6	9	0
	1730	,,	999·0	931·6	...	28·7	26·5	25·6	32·8	84	...	5·2	...	0·7	0	0	7	0	0	0	2	1	1	0	3	24	0
Dibrugarh (Mohanbari)	0230	111	1000·0	937·5	...	25·9	25·3	25·0	31·7	95	...	6·9	...	2·0	0	0	15	0	6	3	1	3	1	1	0	16	0
	0530	,,	1000·7	938·2	...	25·7	25·1	24·8	31·3	94	...	7·5	...	1·7	0	0	14	1	2	3	2	1	4	0	1	17	0
	0830	,,	1001.8	939.4	−2·3	27·5	25.9	25·1	32·1	87	+2	7·3	+1·0	2·6	0	0	20	0	11	5	1	1	0	0	2	11	0
	1130	,,	1000.7	988.4	...	29·3	26.7	25·6	32.8	81	...	7·0	...	3·5	0	1	20	4	4	5	1	2	0	3	2	10	0
	1730	,,	997·8	985·5	...	29·4	26·7	25·5	32·6	80	...	5·7	...	1·2	0	0	10	1	4	2	1	0	1	1	0	21	0
	2330	,,	1000·5	988·1	...	26·5	25·7	25·3	32·3	93	...	5·8	...	1·3	0	0	10	1	7	0	1	0	0	1	0	21	0
Dibrugarh	0830	106	1002·3	990·4	−1·8	27·9	25·7	24·7	31·1	84	−3	7·0	+0·7	2·2	0	0	23	3	7	4	5	0	0	1	3	8	0
	1730	,,	998·4	986·6	...	29·3	26·3	25·0	31·7	78	...	4·2	...	0·5	0	0	5	0	2	1	0	0	1	1	0	26	0
Digboi*	0830	152																									
	1730	,,																									
North Lakhimpur	0830	102	...	...	...	27·3	25·9	25·3	32·3	90	0	7·5	+0·4	...	0	0	20	7	2	3	2	3	0	0	3	11	0
	1130	,,	...	...	...	29·3	26·8	25·9	33.4	81	...	6·6	...	...	0	0	25	2	6	6	4	4	2	1	0	6	0
	1730	,,	...	...	...	29·2	27·0	26.2	34·0	83	...	5·3	...	...	0	0	8	4	2	1	0	0	1	0	0	23	0
Sibsagar	0830	97	1003.3	992·4	−0·7	28·3	26·4	25·6	32·8	86	0	7·5	+0·5	3·2	0	0	23	4	4	1	7	2	5	0	0	8	0
	1730	,,	999·3	988·5	...	30·5	27·3	26.1	33·8	77	...	6·3	...	2·0	0	0	12	0	4	1	4	1	2	0	0	13	0
Gohpur	0830	...	...	...	...	28·2	26·7	25·1	34·0	86	...	2·3	...	3·0	0	0	31	0	0	29	1	0	0	1	0	0	0
	1730	...	...	...	...	29·9	27·5	26·5	34·6	82	...	1·9	...	2·0	0	0	21	0	0	17	0	4	0	0	0	10	0
Majbat	0830	77	...	...	...	...	...	...	...	...	...	5·5	...	2·8	0	0	18	2	5	3	4	2	0	0	0	13	2
	1730	,,	...	...	...	...	...	...	...	...	...	3·7	...	1·2	0	0	9	1	1	2	1	0	2	0	0	22	2
Jorhat (Aerodrome)	0530	90	1000·9	990·8	...	25·9	25·5	25·3	32·2	96	...	7·1	...	2·6	0	0	12	0	4	0	0	1	7	0	0	19	0
	0830	,,	1002·1	992·7	...	28·0	26·1	25·3	32·2	86	...	7·3	...	6·3	0	0	21	2	8	0	0	2	6	3	0	10	0
	1130	,,	1000·9	991·0	...	30·3	25·9	25.4	32·4	76	...	6·5	...	8·1	0	0	26	1	6	3	1	1	8	4	2	5	0
	1730	,,	997·8	988·0	...	29·9	26·8	25·5	32.6	78	...	5.8	...	6·5	0	0	27	0	13	0	0	1	6	4	3	4	0
	2330	,,	1000·8	990.6	...	27·1	26·4	26·1	33·8	95	...	6·1	...	3·3	0	0	11	0	5	2	0	1	2	1	0	20	0
Tezgaon	0830	73	1001·3	992·6	...	28·9	25·8	26·0	33·6	84	...	3·9	...	0·9	0	0	5	0	1	2	0	0	2	0	0	26	0
	1730	,,	998·0	989·3	...	30·1	26·5	26·7	35·0	81	...	4·0	...	0·5	0	0	3	0	0	2	1	0	0	0	0	28	0
Tezpur	0830	79	1002·8	994·0	−1·4	27·6	26·4	26·0	33·6	90	+3	7·2	+0·7	1·4	0	0	14	0	3	8	0	0	3	0	0	17	0
	1730	,,	999·3	990·9	...	30·3	27·5	26·5	34·6	79	...	5·0	..	1·1	0	0	9	0	5	3	0	0	1	0	0	22	0
Golaghat	0830	...	...	...	...	28·3	26·2	25·1	31·9	84	...	5·6 (h)	...	...	0	0	2	0	0	0	1	0	0	0	1	29	0
	1730	...	...	...	...	30·2	27·2	25·6	32·8	79	...	3·9	...	...	0	0	0	0	0	0	0	0	0	0	0	23	0
Rangia (R)	0830	...																									
(R)	1730	...																									
Chaparmukh	0830	66	1002·7	995·4	...	28·2	26·5	25·9	33·4	88	...	6·4	...	5·2	0	0	31	9	0	11	1	9	1	0	0	0	0
	1730	,,	998·7	991·3	...	30·6	27·9	26·7	35·0	79	...	6·0 (b)	...	4·6 (b)	0	0	31	12	1	5	5	4	0	3	1	0	0
Goalpara	0830	38	1002·5	998·2	...	28·1	26·5	25·8	33·2	88	...	6·5 (c)	...	3·2 (c)	0	0	29	0	6	6	10	2	3	1	1	0	0
	1730	,,	998·1	994·1	...	29·9	27·4	26·2	34·0	82	...	6·6	...	2·9	0	0	25	0	1	2	3	2	15	1	1	3	0
Gauhati	0830	55	1002·6	996·7	−0·4	28·4	26·4	25·7	33·0	85	+2	5·5	−0·6	0·3	0	0	3	0	1	2	0	0	0	0	0	28	0
	1730	,,	999·5	993·3	...	30·7	27·2	25·7	33·0	76	...	5·6	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Gauhati (Bhorjor)	0230	54	1000·4	994·3	...	26·6	25·7	25·4	32·4	92	...	7·2	...	3·0	0	0	17	0	3	1	0	6	3	2	2	14	0
	0530	,,	1001·0	994·8	...	26·5	25·6	25·3	32·2	93	...	7·4	...	1·5	0	0	12	1	2	1	1	3	2	0	2	19	0

(b) Mean of 29 days. (R) Register not received. *Data not reliable.

(h) Mean of 23 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibar: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibar: At station level	Mean pressure in millibar: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (oktas): Mean amount	Cloud amount (oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam including Manipur, Tripura—(*Contd.*) Gauhati (Bhorjor)—*Contd.*	0830	54	1002·2	996·1	−1·1	28·5	26·6	25·8	33·2	85	+4	7·1	+1·0	3·6	0	0	18	2	8	1	0	4	2	1	0	13	0
	1130	,,	1001·1	995·0	...	30·6	27·3	25·9	33·4	77	...	6·6	..	7.8	0	0	29	9	11	2	0	1	0	1	4	2	1
	1730	,,	998·4	992·3	...	29·6	26·8	25·5	32·6	79	...	6·5	...	4·0	0	0	23	3	7	0	3	2	3	4	1	8	0
	2330	,,	1001·4	995·3	...	27·4	26·3	25·7	33·0	91	...	7·1	...	1·9	0	0	11	0	1	0	1	5	3	0	1	20	0
Dhubri (Rupsi)	0530	36	1000·2	996·0	...	26·3	25·7	25·5	32·6	95	...	7·3	...	2·0	0	0	12	1	1	4	2	2	2	0	0	19	0
	0830	,,	1001·2	997.1	...	23·9	26·7	25·8	33·2	83	...	6·6	...	5·9	0	0	29	1	2	6	11	3	4	1	1	2	0
	1130	,,	1000.3	996·3	...	30·5	27·3	26·0	33·6	76	...	6·2	...	8·3	0	0	29	1	3	3	8	5	6	2	1	2	0
	1730	,,	997·5	993·4	...	29·3	26·9	25·9	35·4	82	...	6·7	...	3·7	0	0	18	0	1	2	2	3	8	2	0	13	0
Gauhati	0830	35	1002·7	998·8	−0·6	26·8	26·9	26·2	34·0	86	+1	5·9	+1	2·0	0	0	11	1	3	2	3	1	0	0	1	20	0
	1730	,,	998·9	995·0	...	29·1	27·2	26·3	34·2	85	...	6·0	...	1·5	0	0	10	1	0	2	2	5	0	0	0	21	0
Lumding	0830	149	1001·5	985·0	...	28·5	26·0	25·0	31·5	81	−2	6·9	...	0·8	0	0	8	0	1	1	4	0	1	0	1	23	0
	1730	,,	997·9	981·5	...	30·1	26·8	25·6	32·6	77	...	5·6	...	1·1	0	0	8	1	0	0	4	1	1	0	1	23	0
Silchar	0830	899	..	...	...	25·5	22·9	21·7	25·9	80	...	6·5	...	2·4	0	0	13	1	1	3	6	1	0	0	1	18	0
	1130	,,	...	...	...	27·5	23·7	22·0	26·4	73	...	6·8	...	5·8	0	0	29	4	7	6	9	0	0	0	3	2	0
	1730	,,	...	...	...	24·4	22·7	22·0	26·3	87	...	6·8	...	3·7	0	0	21	2	4	5	1	2	0	2	5	10	0
Tura	0830	370	1002·9	961·9	...	26·4	24·7	23·9	29·7	86	...	7·1	...	2.8	0	0	22	0	4	3	4	3	5	2	1	9	0
	1730	,,	999·6	959·2	...	27·3	25·2	24·3	32·0	84	...	7·6	...	3·0	0	0	21	1	2	2	4	3	8	0	1	10	0
Haflong	0830	682	1003·0	928·4	...	23·7	22·4	21·8	26·1	89	...	6·4	...	...	0	1	30	0	3	0	0	6	21	1	0	0	0
	1730	,,	998·4	924·7	...	25·7	23·5	22·5	27·3	83	...	5·5	...	...	0	0	31	0	0	0	0	2	26	3	0	0	0
Silchar (Kumbhirgram)	0530	97	1000·9	990·0	...	24·6	24·2	23·9	29·7	97	...	7·0	...	3.6	0	0	19	1	1	14	0	3	0	0	0	12	0
	0830	,,	1001·9	991·0	...	26·9	25·3	24·6	30·9	88	...	6·8	...	3·6	0	0	23	0	2	14	4	0	1	1	1	8	0
	1130	,,	1000.7	990·0	...	29·6	26·4	25·0	31·7	77	...	6·1	...	4·2	0	0	27	4	0	1	2	0	3	7	7	4	0
	1730	,,	997·8	987·1	...	29·1	26.5	25·4	32·4	32	...	6·0	...	3·3	0	0	18	0	1	3	2	1	4	6	1	13	0
Silchar	0830	29	1003·4	1000.1	−1·1	27·6	26·0	25·2	32·1	93	+2	6 4	0	1·6	0	0	17	5	9	1	0	0	1	0	1	14	0
	1730	,,	999·3	996·0	...	29·9	26·8	25·6	32·8	79	...	5·6	...	1·1	0	0	11	2	2	1	0	0	0	2	4	20	0
Imphal (Tulihal)	0530	801	1002·7	917·6	...	22·6	22·0	21·7	26·0	94	...	7·5	...	2·2	0	0	18	1	1	3	1	2	5	3	2	13	0
	0830	,,	1003·2	918·7	−1·1	24.8	22·9	22·1	26·6	85	+3	7·2	+0·4	3·6	0	0	28	4	1	5	4	4	4	4	2	3	0
	1130	,,	1001·5	917·7	...	27·3	23·6	22·0	26·4	74	...	6.6	...	2·8	0	0	22	0	0	0	1	6	9	4	1	9	1
	1730	,,	999·0	915·2	...	26·4	23.6	22·4	27·1	79	...	7·0	...	5·6	0	0	27	1	1	1	7	6	4	5	2	4	0
	2330	,	1002·7	917·9	...	23·8	22·8	22·3	26.9	92	...	6·5	...	3·3	0	0	22	4	3	4	3	2	3	3	0	9	0
Kailashahar	0530	29	1002·5	999 1	...	25·7	25·1	24·8	31·3	95	...	7·0	...	2·3	0	0	13	1	0	0	2	5	4	1	0	18	0
	0830	,,	1003·4	1000·1	...	28·3	26·0	25.1	31·9	86	..	6.8	...	5.7	0	0	23	0	0	2	5	12	3	1	0	8	0
	1130	,,	1002·1	998·9	...	30·8	27·1	25·5	32·6	74	...	6·7	...	8·0	0	1	26	2	2	0	7	9	3	2	2	4	0
	1730	,,	999·8	996·6	...	29·5	26·3	25.7	33·0	81	...	7 0	..	4·5	0	0	20	0	1	1	0	11	1	3	3	11	0
Agartala	0230	16	1000·3	998·5	...	26.0	25·5	25·3	32 2	96	...	6·3	...	9·4	0	0	30	0	0	3	22	4	0	0	1	1	0
	0530	,,	1000·8	999·0	...	25·6	25·1	24·9	31·5	96	...	6·9	...	8·8	0	0	30	0	0	5	17	8	0	0	0	1	0
	0830	,,	1002·0	1000·2	−0·8	28·3	26·3	25·6	32·8	85	+1	7·1	+0·2	10·5	0	0	29	0	0	1	22	6	0	0	0	2	0
	1130	,,	1001·1	999·4	...	29·8	27.1	25·8	33·2	78	...	7·0	..	10·3	0	0	30	1	0	1	11	11	4	6	2	1	0
	1730	,,	998·6	996·8	...	28·5	26·6	25·8	33·2	86	...	6·9	...	7·5	0	0	26	0	0	5	9	10	2	2	0	3	0
	2330	,,	1001·4	999·6	...	26·4	25·7	25·3	32·2	94	...	6·3	...	8·0	0	0	26	0	0	1	19	6	0	0	0	5	0
Sub-Himalayan West Bengal Bagdogra	0230	131	1000.0	985·3	...	26·5	25·7	25·4	32·4	94	...	7·5	...	8.5	0	0	30	4	15	6	3	0	2	0	0	1	0
	0530	,,	1000·3	985·6	...	25·5	25·1	24·7	31·1	97	...	7·4	...	6·9	0	0	30	4	14	12	0	0	0	0	0	1	0
	0830	,,	1001·5	986·9	−0·9	27·7	26·3	25·5	32·6	89	+4	7·1	+0·3	8·2	0	0	30	0	9	17	4	0	0	0	0	1	0
	1130	..	1000·8	986·3	...	29·8	27·1	26·0	33·6	89	...	6·7	...	10·1	0	0	30	0	7	9	12	1	0	0	1	1	0
	1730	,,	997·8	983·3	...	29·1	26·9	26·1	33·8	84	...	6·8	...	7·3	0	0	27	4	11	8	2	1	1	0	0	4	0
	2330	,,	1000·9	986·3	...	27·0	26·0	25·6	32·8	92	...	7·2	...	8·6	0	0	27	3	13	7	1	2	0	1	0	4	0
Jalpaiguri	0830	83	1001·7	992.4	−1·3	26 7	25·7	25 3	32·2	89	+2	6·3	+1·3	6·6	0	0	26	3	11	10	1	0	0	0	1	5	0
	1730	,,	997·8	988·6	...	29·5	26·9	25·7	33 0	81	...	5·1	...	6·9	0	1	28	5	4	6	3	4	1	1	5	2	0
Cooch Behar	0830	43	1001·8	997·0	...	28·7	26·6	25·8	33·2	84	...	6·7	...	6·4	0	0	29	0	3	23	2	0	1	0	0	2	0
	1130	,,	1000·9	996·1	...	30·5	27·2	25·8	33·2	77	...	6·5	...	6·8	0	0	28	0	5	11	8	2	1	1	0	3	0
	1730	,,	998·3	993·5	...	29·6	27·1	26·2	34·0	82	...	6·6	...	3·6	0	0	17	0	0	6	6	3	2	0	0	14	0
Balurghat	0830	,,	...	...	...	29·1	27.1	26·4	34·4	85	...	6·0	...	6 2	0	1	26	1	0	8	12	6	0	0	0	4	0
	1730	,,	...	...	...	30·4	27·3	26·0	33·6	78	...	5·9	...	4·1	0	0	30	0	1	6	15	6	2	0	0	1	0
Malda	0830	31	1000·8	997·3	−1.6	29·3	27·2	26·3	34·2	85	+2	6·5	+0.9	7·8	0	0	31	1	2	8	9	10	1	0	0	0	0
	1730	,,	997·6	994.1	...	30·0	27.3	26·4	34·4	80	...	6.2	...	6·7	0	0	30	1	1	7	10	6	4	0	1	1	0
Gangetic West Bengal Berhampore	0830	19	1000·3	998·2	−1·7	28·9	27·0	26·3	34·2	87	+2	7·0	+0.4	5·0	0	0	29	0	1	6	1	19	2	0	0	2	0
	1730	,,	997·1	995·0	...	29·9	27.2	26·2	34·0	81	...	5·9	...	4·1	0	0	25	0	0	8	2	15	0	0	0	6	0
Suri	0830	77	1001·0	992·4	...	28.7	26·3	25·8	33·2	84	...	6·8	...	7·5	0	1	28	1	3	8	6	6	4	1	0	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mts.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
Gangetic West Bengal-*Contd.*																											
Suri—(*Contd.*)	1730	77	997·5	988·9	..	29·8	26·7	25·8	33·2	79	...	6·0	...	8·6	0	1	30	2	3	3	8	11	3	1	0	0	0
Asansol	0230	126	998·8	984·7	...	26·8	26·4	26·2	34·0	96	...	5·2	...	3·8	0	0	15	0	0	3	7	5	0	0	0	16	0
	0530	,,	999·0	984·9	...	26·3	25·9	25·8	33·2	97	...	6·5	...	3·5	0	0	14	0	0	4	5	3	0	2	0	17	0
	0830	,,	1000·4	986·3	−0·9	28·4	26·8	26·2	34·0	87	+2	6·2	−0.4	5·0	0	0	20	1	0	6	8	3	1	0	1	11	0
	1130	,,	999.7	985·8	...	30·3	27·4	26·2	34·0	79	...	6·8	...	6·5	0	0	24	1	2	7	7	4	1	1	1	7	0
	1730	,,	997·0	983·1	...	28·9	27.0	26·3	34·2	86	...	6.5	...	6·5	0	0	23	1	0	6	9	5	2	0	0	8	0
	2330	,,	999·9	985.9	...	27·1	26·4	26·2	34·0	95	...	4.9	...	3·7	0	0	15	0	0	4	7	4	0	0	0	16	0
Shanti Niketan	0830	59	1001.0	994·3	...	28·1	26·7	26·0	33·6	87	...	6·1	...	8·5	0	0	30	0	3	4	5	10	6	1	1	1	0
	1130	,,	997.2	990·6	...	29·9	27·3	26·2	34·0	82	...	6·1	...	5·8	0	0	28	2	3	5	5	8	4	1	0	3	0
	1730	,,	997·4	990·6	...	29·6	27·2	26·3	34·2	83	...	6·3	...	10·0	0	0	31	1	3	1	9	11	4	2	0	0	0
Krishnanagar	0830	15	1000·8	999·2	−1·5	29·2	27·2	26·4	34·4	86	+2	5·1	−1·1	1.8	0	0	19	0	0	5	3	10	1	0	0	12	0
	1730	,,	1001·0	999·4	...	29·7	27·2	26·2	34·0	83	...	5·0	...	2·0	0	0	21	0	0	1	0	20	0	0	0	10	0
Purulia	0830	255	1000.5	972.4	−1.0	27·9	25·8	24·9	31·5	83	−1	6·9	+0·1	4·7	0	0	28	1	7	1	15	1	1	0	2	3	0
	1730	,,	997.1	969.1	...	28·7	25·8	24·6	30·9	79	...	7·8	..	5·7	0	0	29	0	5	2	11	2	7	1	1	2	0
Burdwan	0830	32	1001.1	997·6	−0.6	28·6	26·3	25·2	32·1	82	−2	(n) 5·5	−1.1	(n) 1·0	0	0	19	0	0	0	0	4	15	0	0	0	0
	1730	,,	996.8	993.2	...	29·5	26·5	25·4	32·4	81	...	5·9	...	5·2	0	0	22	0	0	0	6	9	7	0	0	9	0
Barrackpore (Aerodrome)	0530	7	999.6	998.8	...	26·6	26·0	25·7	33·0	95	...	6·6	...	7·0	0	0	25	0	0	8	3	5	7	2	0	6	0
	0830	,,	1000·8	1000.0	−1·0	28·9	27·0	26·2	34·0	86	0	6.6	−0.2	11·0	0	0	29	0	0	8	3	3	9	3	3	2	0
	1130	,,	1000·2	999.5	...	30·7	27·7	26·3	34·2	78	...	6·8	...	11.5	0	0	30	2	0	5	6	2	9	5	1	1	0
	1730	,,	997·8	997·1	...	29·0	27·1	26·2	34·0	85	...	6·7	...	8·5	0	1	24	0	0	0	4	9	9	1	2	6	0
	2330	,,	1000·3	999.6	...	27·9	26·7	26·2	34·0	91	...	4·3	..	4·4	0	0	14	0	0	1	2	2	9	0	0	17	0
Calcutta (Dum Dum)	0230	6	993·9	998.2	...	27·0	26·1	25·8	33.2	93	...	5.8	...	5·0	0	0	25	1	0	5	5	7	7	0	0	6	0
	0530	,,	999·3	998.6	...	26·6	25.9	25·6	32.8	94	...	6·9	...	3·7	0	0	29	0	4	7	3	10	4	1	0	2	0
	0830	,,	1000·5	999·8	−1·3	29·0	26.7	25.7	33.0	83	+1	7·3	+0·4	5·9	0	0	30	0	2	7	2	8	8	3	0	1	0
	1130	,,	999·9	999·2	...	30.6	27·3	25·9	33·4	77	...	7·0	...	6·2	0	0	30	2	1	5	5	9	7	1	0	1	0
	1730	,,	997.6	996·9	...	28·9	26·7	25·8	33 2	84	...	6·8	...	5·1	0	0	27	0	1	2	5	15	4	0	0	4	0
	2330	,,	1000·1	999·4	...	27·5	26·4	26·0	33·6	91	...	4·8	...	5.5	0	0	30	1	2	4	5	13	4	1	0	1	0
Calcutta	0830	6	1000·4	999·7	−1·5	28·9	26·7	25·9	33·4	84	−1	7·0	+0·3	6·8	0	0	30	0	1	5	6	5	11	1	1	1	0
	1130	,,	999·7	999·0	...	30·7	27·3	26·0	33·6	76	...	7·1	...	7·6	0	0	31	0	2	2	9	8	9	1	0	0	0
	1730	,,	997·4	996·7	...	29·1	26.9	26·1	33·8	84	..	6·5	...	6·6	0	0	31	0	0	2	7	12	8	1	1	0	0
Midnapore	0830	45	1000·5	995·4	−1.2	28·6	26·5	25·8	33·2	84	+1	5·0	−0.7	3·9	0	0	24	1	3	4	1	10	3	1	1	7	0
	1730	,,	997.3	992·3	...	29·1	26·6	25·6	32·8	83	...	5·9	...	4·0	0	0	24	1	0	1	2	14	6	0	0	7	0
Contai	0830	11	1000·7	999.5	−0.4	28·8	26·6	25·6	32·8	83	−2	4·7	−1.4	5·1	0	0	27	1	0	5	3	3	10	3	2	4	0
	1730	,,	998·0	996·8	...	28·8	26·7	25 9	33·4	84	...	3·9	...	7·6	0	0	30	0	0	1	7	11	10	1	0	1	0
Saga r Island	0830	3	1000·3	1000·0	−1·3	28·5	26.8	26·1	33·8	87	+3	6·1	−0·7	17·7	0	11	18	1	2	2	3	8	9	2	2	2	0
	1730	,,	997·9	997·6	...	29·1	27·0	26·1	33·8	84	...	6·0	...	21.8	0	13	18	0	0	2	8	12	9	0	0	0	0
Sandheads	0530	10	999·1	998·0	...	28·1	26·6	25·9	33·4	88	...	7·1	...	16.8	0	9	21	0	0	2	2	3	19	4	0	1	0
	0830	,,	1000·3	999·2	−1·8	28·5	26·7	26·1	33.8	86	+3	6·6	+0·8	16.9	0	9	22	0	1	0	3	2	22	2	1	0	0
	1130	,,	999·9	998·8	...	29·0	26·8	25·9	33·4	84	...	6·5	...	17.0	0	9	21	0	1	1	3	2	20	2	1	1	0
	1730	,,	997·6	996·5	...	29·1	26.8	25·9	33·4	83	...	6·0	...	18·2	0	9	22	0	0	0	3	6	22	0	0	0	0
	2330	,,	999 7	998 6	...	28·5	26 9	26 4	34·4	87	...	1·1	...	18·4	0	9	21	0	0	1	2	5	22	0	0	1	0
Orissa																											
Baripada	0830	54	1001·3	995.2	...	28·0	26·3	25·7	33·0	87	...	6·8	...	1·2	0	0	11	2	0	0	1	3	5	0	0	20	0
	1730	,,	998·0	992·3	...	28·5	26·3	25·5	32·6	84	...	6·3	...	2·3	0	0	18	0	1	1	5	3	6	1	1	13	0
Jharsuguda	0230	230	999·0	973 3	...	25 2	24·9	24·6	30·9	95	...	7·1	...	4·1	0	0	20	1	1	0	3	2	12	1	0	11	0
	0530	,,	999·2	973·5	...	25·1	24·7	24·4	30·5	97	...	7·3	...	3·6	0	0	15	0	1	1	1	1	10	1	0	16	0
	0830	,,	1000·7	975·1	−0·8	26·6	25·4	25·0	31·7	90	+3	7·4	+0.2	5·7	0	0	25	0	1	0	2	7	12	3	0	6	0
	1130	,,	1000·0	974 7	...	28·8	26·1	24·8	31·3	80	...	7·3	...	6 4	0	1	26	0	1	1	0	7	10	6	2	4	0
	1730	,,	997·4	972·0	...	27·8	25·7	24 8	31·3	85	...	7 9	...	5 7	0	0	25	0	0	1	2	5	10	5	2	6	0
	2330	,,	1000·1	974·5	...	26·0	25·4	25·0	31·7	94	...	7·4	...	4·7	0	0	23	1	0	3	5	4	9	1	0	8	0
Keonjhargarh	0830	463	998·0	947·4	...	26·0	24·0	23·1	28·3	83	...	6·5	...	6.0	0	0	25	3	2	1	1	2	2	11	3	6	0
	1730	,,	995·1	944·7	...	26·3	24·3	23·6	29·1	84	...	7·6	...	2 5	0	0	23	0	0	2	3	4	3	11	0	8	0
Balasore	0830	20	1000·3	998·1	−1·3	28·6	26·6	25·9	33·4	85	+2	6·7	+0·9	7·0	0	4	16	2	2	0	1	3	12	0	0	11	0
	1730	,,	997·5	995·3	...	28·5	26·6	25·8	33·2	85	...	6·6	...	4.3	0	1	19	0	0	0	7	5	8	0	0	11	0
Sambalpur	0830	148	1001·0	984 5	−1.0	27·7	25·7	24·9	31·5	85	0	6·7	+0.1	1.8	0	0	13	0	0	0	0	4	8	1	0	18	0
	1730	,,	997·9	981·4	...	27·9	25·9	25·2	31·2	85	...	7·3	...	1·2	0	0	8	0	0	2	0	2	4	0	0	23	0
Angul	0830	139	1001·4	985.9	−0.5	27·5	25·7	25·0	31·7	86	+5	6·8	+0.8	3·6	0	0	28	1	1	3	0	3	5	12	3	3	0
	1730	,,	998·5	983·1	...	28·3	26·3	25·3	32·2	83	...	7·9	...	4·1	0	0	31	1	2	2	3	6	8	7	2	0	0
Cuttack	0830	27	1001·2	998.2	−1.1	28·1	26·7	26·1	33·8	88	+7	7·1	+1·1	0	0	0	0	0	0	0	0	0	0	0		31	0

(n) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in e.g.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okts): Mean amount	Cloud amount (Okts): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 & over	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*) Cuttack—(*contd.*)	1730	27	998·4	995·4	...	28·7	26·9	26·4	34·4	85	...	7·7	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Chandbali	0830	6	1001·3	1000·6	−0·8	28·1	26·7	26·1	33·8	89	+6	6·8	+0·7	6·1	0	0	29	1	1	4	1	6	6	7	3	2	0
	1730	,,	998.3	997·6	...	29·1	26·8	25·8	33·2	83	...	6·8	...	7·9	0	0	29	0	0	4	5	7	7	3	3	2	0
Bolangir	0830	190	1000·6	979·6	...	27·3	25·2	24·2	30·2	82	...	6·8	...	7·3	0	0	31	0	1	1	4	14	9	1	1	0	0
	1730	,,	997.9	976.8	...	28·6	25·4	24·0	29.8	79	...	7·6	...	8·5	0	0	31	0	1	1	7	13	7	1	1	0	0
Phulbani	0830	464	998·8	948.2	...	25·8	23·8	22·8	27·7	84	...	7·3	...	1·0	0	0	5	0	0	0	0	0	0	5	0	26	0
	1730	,,	995·9	945·4	...	26·8	24·5	23·5	28.9	83	...	7·7	...	1·1	0	0	7	0	0	0	1	0	1	5	0	24	0
Titlagarh	0830	211	1000·1	976·7	...	26.7	25·3	24·8	31·3	89	...	4·5	...	3·0	0	0	31	1	12	0	7	2	9	0	0	0	0
	1730	,,	998·5	975·2	...	27·6	25·1	24·1	30·0	81	...	3·5	..	2·9	0	0	30	0	9	0	4	2	15	0	0	1	0
Bhubaneswar	0230	46	999.3	994·1	...	26·5	25·8	25·5	32·6	94	...	6·8	...	6·7	0	1	22	1	0	0	0	1	13	5	3	8	0
	0530	,,	999·6	994·4	...	26·1	25·6	25.3	32·2	95	...	7·2	...	7·1	0	1	24	2	1	0	0	1	16	5	0	6	0
	0830	,,	1001·1	995·9	−0.3	28·1	26·3	25·7	33·0	87	+1	7·0	+0.2	8·3	0	2	25	1	2	1	0	0	13	4	6	4	0
	1130	,,	1000·8	995·6	...	30·0	26·9	25·8	33·2	77	...	7·5	...	10·1	0	3	22	1	1	1	0	1	14	2	5	6	0
	1730	,,	998·3	993·1	...	28·1	26·2	25·4	32·4	86	...	7·6	...	10·9	0	3	23	0	1	0	0	8	12	3	1	5	1
	2330	,,	1000.5	995·3	...	26·7	25·8	25·7	33·0	93	...	6·0	..	8·1	0	1	24	1	0	0	0	3	16	3	2	6	0
Puri	0830	6	1001·3	1000·6	−0·9	28·4	26·7	26·2	34·0	87	+5	7·0	+1·4	16.1	0	11	19	5	0	0	0	2	21	0	2	1	0
	1730	,,	998.4	997.7	...	28·6	26·9	26·4	34·4	87	...	7·3	...	18·6	0	11	20	1	0	0	0	0	20	7	3	0	0
Gopalpur	0530	17	999·9	998·0	..	26·5	25.7	25·4	32·4	92	...	6·9	...	11·0	0	6	20	1	0	0	0	6	13	1	5	5	0
	0830	,,	1001·6	999·7	−0·8	28·0	26·2	25·5	32·6	86	+5	6·6	+1·6	12·5	0	8	18	3	0	0	1	8	12	0	2	5	0
	1130	,,	1001·1	999.2	...	29·4	26·8	25.8	33·2	82	...	6·5	...	16.4	0	10	20	1	1	1	3	13	10	0	1	1	0
	1730	,,	998·7	996·8	...	28·2	26·3	25·6	32·8	86	...	7·1	...	22·8	0	18	13	2	1	0	1	11	15	1	0	0	0
	2330	,,	1000·9	999·0	...	26·9	25·9	25·5	32·6	92	...	5·5	...	13·4	0	7	20	1	0	0	0	5	13	4	4	4	0
Koraput	0830	913	1445·8	904·1	−0·2	22·2	21·3	20·9	24·7	92	+1	5·2	−1·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	1424·6	901·7	...	22·4	21·4	20·9	24·7	91	...	4.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Bihar Plateau Dumka	0830	149	1000·4	983.9	−1·2	28·4	26·8	26.2	34·0	87	+1	6·6	+0·8	5·2	0	0	23	1	4	4	10	1	3	0	0	8	0
	1730	,,	996·8	980·4	..	29·7	27.3	26·5	34.6	82	...	6·5	...	4·7	0	0	21	0	4	2	12	1	1	1	0	10	0
Daltonganj	0830	221	1000·2	975·8	−0·8	29·1	26·8	25·9	33·4	83	0	6·9	+1·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	996·3	971.9	...	29·2	27·1	26·2	34.0	84	...	7·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hazaribagh	0830	611	1000·0	933·4	−1·3	25·7	24·2	23.5	28·9	88	+4	6·7	−0·5	6.7	0	1	25	1	1	4	4	5	2	4	5	5	0
	1730	,,	996·8	930·7	...	26.6	24.7	23·8	29.5	85	...	6·9	...	5·7	0	1	19	1	2	5	3	4	4	1	0	11	0
Dhanbad	0830	257	999.8	971.3	...	27·4	25.8	25·1	31·9	88	...	6·3	...	4·1	0	0	28	0	2	2	9	6	6	2	1	3	0
	1730	,,	996·4	968·1	...	28·3	26·3	25·7	33·0	86	...	7·0	...	5.9	0	0	27	2	1	10	3	5	2	1	1	4	2
Ranchi	0830	655	1000·2	928·9	−0·7	24·8	22·8	23·4	28·8	84	−1	6·8	+0·1	1·6	0	0	12	0	2	1	2	1	1	3	2	19	0
	1730	,,	1000·0	929·0	...	26·5	24·4	23·6	29·1	84	...	7·0	...	1·6	0	0	15	0	4	1	4	1	4	0	1	16	0
Ranchi Aerodrome	0530	652	998·9	927·7	...	23·5	22·9	22·8	27·7	94	...	7·3	...	5·4	0	0	23	1	2	1	3	3	8	2	3	8	0
	0830	,,	1000·0	929·1	...	25·2	23·5	22·8	27·7	87	...	7·4	...	7·8	0	0	28	2	3	4	2	3	11	1	2	3	0
	1130	,,	999.3	928.9	...	27·0	24·0	22·7	27·6	77	...	7·5	...	8·7	0	0	31	6	5	4	1	6	7	1	1	0	0
	1730	,,	997·1	926·7	...	26·3	23.9	22·9	27·9	83	...	(i) 7·2	...	(i) 8·9	0	0	21	1	4	3	1	2	9	0	1	1	0
Jamshedpur	0630	129	1000·3	986·0	−1.2	28·2	26·2	25·4	32·4	83	+1	6.8	−0·1	5.0	0	0	23	0	1	7	1	1	5	7	1	8	0
	1730	,,	996·9	982·7	...	29·0	26·4	25·3	32·2	80	...	7·0	...	3·7	0	0	24	0	1	5	4	2	5	5	2	7	0
Jharsuguda (F. B. O.)	0530	142	999·0	983·2	...	26·1	25·2	24·8	31.3	92	...	6·6	...	2·9	0	0	18	1	2	3	4	3	5	0	0	13	0
	0830	,,	1000·4	984·6	...	28·1	25·9	25·1	31·9	83	...	6·9	...	6·3	0	0	25	1	4	4	2	6	5	1	2	6	0
	1130	,,	999·7	984·0	...	30.1	26·4	24·9	31·5	74	...	6·8	...	7·6	0	0	30	1	5	3	2	5	5	7	2	1	0
	1730	,,	997·1	981·4	...	28·6	26·1	25·2	32·1	81	...	7·2	...	7·1	0	0	29	0	6	6	2	1	7	3	4	2	0
	2330	,,	999.8	984·0	...	26·9	25·7	25·3	32·2	90	...	6·0	...	4·4	0	0	20	0	7	1	1	2	5	1	3	11	0
Chaibasa	0830	226	1000·2	975.1	−0·9	27·7	25.5	24·6	30·9	83	0	7.3	+0·9	4·8	0	0	26	0	7	0	3	0	14	2	0	5	0
	1730	,,	996·7	971.8	...	28·6	26.2	25.2	32.1	82	...	7.6	...	4·0	0	0	23	1	3	0	7	1	10	1	0	8	0
Bihar Plains Motihari (R)	0830	66																									
(R)	1730	,,																									
Forbesganj	0830	61	1000·8	994·0	...	28·6	26·7	25·9	33·4	85	...	6·3	...	6·3	0	0	31	0	4	21	6	0	0	0	0	0	0
	1730	,,	997·1	990·4	...	30·2	27·3	26·0	33·6	78	...	5·5	...	3·6	0	0	25	0	3	10	9	0	2	1	0	6	0
Darbhanga	0830	49	1000·2	994·7	−1·5	29·3	27·3	26·5	34·6	86	+4	6·7	+0.6	5·0	0	0	31	1	7	16	5	2	0	0	0	0	0
	1730	,,	997·4	991·9	...	30·2	27·7	26·7	35·0	83	...	5·6	...	4·5	0	0	29	0	5	10	7	3	1	3	0	2	0
Chapra	0830	...	...	...	...	29·2	27·2	26·4	34·4	85	...	7·3	...	5·9	0	0	25	1	7	9	2	0	4	0	2	6	0
	1730	...	...	...	...	30·4	27·5	26.6	34·8	79	...	6·9	...	4.8	0	0	24	0	8	9	1	0	5	0	1	7	0
Purnea	0830	38	1000·9	996·7	−1·3	29·1	27·2	26·5	34·6	86	0	6·7	+0·9	2·3	0	0	20	0	2	17	1	0	0	0	0	11	0
	1730	,,	997·5	993·3	...	29·5	27·4	26·5	34·6	85	...	5·9	...	2·5	0	0	19	0	4	10	2	2	1	0	0	12	0
Patna	0830	53	999·9	994·0	−1·5	29·1	27·3	26·8	35·2	88	+6	6·9	0	5·2	0	0	23	0	7	8	4	0	3	1	0	8	0

(R) Register not received.

(i) Mean of 22 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean Temperature in °C: Dry bulb	Mean Temperature in °C: Wet bulb	Mean Temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean windspeed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna—*contd.*																											
Patna Aerodrome	1730	53	996·7	990·8	...	30·6	27·9	27·0	35·7	81	...	6·2	...	4·2	0	0	21	0	8	6	4	2	1	0	0	10	0
	0530	60	998·3	991·5	...	27·3	26·6	26·3	34·2	94	...	7·3	...	5·5	0	0	22	0	2	11	4	2	1	1	1	9	0
	0830	,,	999·5	992·8	...	28·9	27·2	26·5	34·6	87	...	7·1	...	8·8	0	0	27	1	1	11	9	1	1	3	0	4	0
	1130	,,	999·3	992·7	...	30·3	27·5	26·3	34·2	79	...	6·9	...	10·4	0	0	30	1	2	9	9	3	3	2	1	1	0
	1730	,,	996·2	989·6	...	30·1	27·4	26·3	34·2	81	...	6·3	...	7·8	0	0	28	2	6	8	5	1	2	2	2	3	0
	2330	52	999·3	993·5	...	28·3	27·0	26·5	34·6	91	...	4·8	...	5·5	0	1	17	0	2	12	3	0	1	0	0	13	0
Bhagalpur	0530	49	999·6	994·1	...	27·2	26·5	26·2	34·0	94	...	7·1	...	3·0	0	0	15	0	0	9	5	0	1	0	0	16	0
	0830	,,	1000·9	995·3	−0·9	29·2	27·4	26·8	35·2	87	+3	7·0	+0·5	5·3	0	0	28	0	0	13	12	3	0	0	0	3	0
	1130	,,	1000·4	994·9	...	30·7	27·8	26·6	34·8	79	...	6·8	...	6·5	0	0	25	0	4	6	10	2	0	1	2	6	0
	1730	,,	997·3	991·8	...	30·0	27·8	27·0	35·7	84	...	6·5	..	5·6	0	0	26	0	1	10	7	3	3	1	1	5	0
	2330	,,	1000·2	994·7	...	28·1	27·1	26·6	34·8	92	...	4·6	...	4·6	0	0	21	1	0	7	11	1	1	0	0	10	0
Sabour	0830	37	1000·3	996·1	−1·6	28·7	27·2	26·6	34·8	89	+4	7·0	+0·4	6·1	0	1	28	0	0	16	9	3	1	0	0	2	0
	1730	,,	997·0	992·8	...	29·5	27·3	26·2	34·0	84	...	6·7	...	4·8	0	0	20	0	1	10	5	0	2	2	0	11	0
Jamui	0830	82	999·1	990·0	...	29·2	27·2	26·4	34·4	85	...	6·7	...	3·5	0	0	23	0	0	14	6	0	0	1	2	8	0
	1730	,,	995·9	986·7	...	29·6	27·8	27·1	35·9	86	...	6·2	...	2·7	0	0	18	1	0	10	2	2	0	1	2	13	0
Dheri	0830	107	999·4	987·4	...	28·4	27·1	26·5	34·6	88	..	7·2	...	2·9	0	0	29	0	1	4	10	5	3	2	4	2	0
	1730	,,	996·5	984·5	...	29·7	27·5	26·5	34·6	84	...	7·5	...	2·8	0	0	28	2	3	3	3	4	0	10	3	3	0
	0230	116	998·5	985·5	...	27·1	26·3	25·9	33·4	93	..	5·9	..	7·6	0	3	21	0	1	6	3	2	8	4	0	7	0
Gaya	0530	,,	998·6	985·6	...	26·7	25·9	25·6	32·8	94	...	6·6	...	6·1	0	1	22	1	1	5	6	4	1	4	1	8	0
	0830	,,	1000·0	987·0	−1·1	28·6	26·8	26·0	33·6	86	+9	6·9	+1·7	8·5	0	1	24	0	0	7	7	3	4	3	1	6	0
	1130	,,	999·7	986·9	...	30·7	27·2	25·9	33·4	76	...	6·8	...	9·7	0	3	22	1	0	9	2	0	3	5	5	6	0
	1730	,,	996·6	983·7	...	30·3	27·2	25·9	33·4	79	...	6·6	...	8·2	0	1	28	1	6	6	4	1	0	6	5	2	0
	2330	,,	999·4	986·4	...	27·8	26·7	26·3	34·2	91	...	6·0	...	9·6	0	2	21	1	0	6	5	4	5	0	2	8	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	999·6	985·7	−1·4	28·1	26·4	25·6	33·0	87	+5	7·3	+2·8	5·9	0	0	24	0	0	24	0	0	0	0	0	7	0
	1730	,,	996·3	982·2	...	29·4	26·9	25·8	33·4	81	...	6·5	...	4·6	0	1	25	1	0	18	2	1	1	3	0	5	0
Nautanwa	0830	99	999·9	988·8	...	27·1	26·1	25·4	32·4	91	...	...	...	4·5	0	0	23	0	7	8	7	1	0	0	0	8	0
	1730	,,	997·1	986·2	...	31·4	27·6	26·3	33·8	75	...	...	...	6·2	0	0	31	0	4	4	16	2	3	0	2	0	0
Hardoi	0830	142	999·1	983·2	−1·4	27·9	26·9	26·5	34·6	92	+5	6·6	+1·2	6·2	0	0	24	0	0	16	3	2	0	3	0	7	0
	1730	,,	995·8	980·1	...	30·1	27·9	27·0	35·7	85	...	5·7	...	5·9	0	0	24	3	0	9	3	4	2	3	0	7	0
Gonda	0830	110	999·6	987·4	...	28·3	26·7	26·1	33·8	89	+5	6·7	+0·5	...	...	...	...	1	0	26	2	1	0	1	0	0	0
	1730	,,	996·3	984·2	...	30·0	27·3	26·3	34·2	81	...	5·8	...	...	...	...	...	0	1	19	1	1	1	5	1	2	0
Lucknow	0830	111	999·5	987·1	−1·2	27·6	26·7	26·3	34·0	93	+10	6·7	+0·8	1·7	0	0	17	0	5	7	1	4	0	0	0	14	0
	1730	,,	996·5	984·2	...	30·1	27·5	26·5	34·4	82	...	5·7	...	1·2	0	0	12	0	0	10	0	1	0	1	0	19	0
Lucknow (Amausi)	0230	123	997·5	983·3	...	26·9	26·4	26·2	34·0	96	...	6·5	...	7·4	0	1	20	2	4	6	2	3	3	1	0	10	0
	0530	,,	997·7	983·5	...	26·6	26·1	25·9	33·2	96	...	7·5	...	7·5	0	1	23	0	4	8	3	2	5	0	2	7	0
	0830	,,	999·0	984·9	−1·6	27·8	26·5	25·9	33·4	90	+9	7·2	+1·3	11·6	0	4	24	1	6	9	4	3	5	0	0	3	0
	1130	,,	999·0	985·2	...	29·6	27·1	25·8	33·8	82	...	6·9	...	15·0	0	6	23	2	2	15	3	3	5	1	0	2	0
	1730	,,	996·0	981·9	...	29·8	27·2	26·3	34·0	82	...	7·0	...	12·2	0	5	23	0	2	9	3	4	6	4	0	3	0
	2330	,,	998·5	984·3	...	27·2	26·5	26·2	34·2	94	...	4·1	...	10·1	0	2	23	1	1	12	3	3	3	2	0	16	0
Faizabad	0830	102	999·3	987·9	...	27·8	26·3	25·7	33·0	88	...	7·3	...	2·9	0	0	17	0	3	2	11	1	0	0	0	14	0
	1730	,,	996·3	985·3	...	29·7	27·2	26·1	34·0	82	...	6·6	...	1·6	0	0	14	0	3	1	8	0	0	2	0	17	0
Gorakhpur	0830	77	999·5	990·8	−1·9	28·6	26·9	26·3	34·2	85	0	6·3	+1·5	...	0	0	30	2	0	17	5	1	1	1	0	1	3
	1730	,,	996·1	987·3	...	29·9	27·1	26·2	33·6	80	...	6·1	...	...	0	0	28	0	3	4	7	5	4	2	0	3	3
Gorakhpur P.B.O.	0230	78	998·2	989·4	...	27·7	26·7	26·4	34·2	93	...	5·6	...	4·9	0	0	21	0	9	9	0	2	0	1	0	10	0
	0530	,,	998·5	989·7	...	27·3	26·4	26·1	33·8	93	...	6·4	...	4·8	0	1	20	1	10	7	0	0	2	0	1	10	0
	1130	,,	999·8	991·1	...	29·9	27·4	26·7	34·6	83	...	7·0	...	7·6	0	0	29	1	7	12	4	3	1	1	0	2	0
	2330	,,	999·2	990·5	...	28·0	26·9	26·6	34·4	92	...	4·7	...	3·6	0	0	21	0	10	6	0	1	2	2	0	10	0
Kanpur	0830	126	999·5	985·5	−1·2	27·2	26·5	26·1	34·2	94	+7	7·1	+2·5	4·6	0	0	31	1	4	6	4	2	9	5	0	0	0
	1730	,,	996·7	982·7	...	29·6	27·3	26·4	34·2	83	...	6·5	...	3·9	0	0	31	2	3	10	3	2	7	4	0	0	0
Kanpur (Aerodrome)	0530	126	998·1	983·6	...	26·5	26·1	25·9	33·4	97	...	7·1	...	8·8	0	2	23	1	1	8	1	2	5	6	0	6	0
	0830	,,	999·3	984·9	...	27·6	26·6	26·2	34·0	92	...	7·1	...	11·9	0	2	27	2	2	5	3	2	6	8	2	2	0
	1130	,,	999·3	985·1	...	29·8	27·4	26·5	34·6	83	...	6·8	...	12·4	0	6	23	3	3	7	4	0	6	4	2	2	0
	1730	,,	996·4	982·0	...	29·8	27·3	26·3	34·2	83	...	6·8	...	11·5	0	1	26	1	2	6	2	1	6	5	3	4	1
	2330	,,	998·9	984·5	...	27·3	26·5	26·3	34·0	94	...	5·4	...	7·4	0	0	21	0	2	6	2	2	5	3	1	10	0
Sultanpur	0830	97	999·4	988·6	...	27·8	26·4	25·9	33·2	86	...	7·3	...	3·1	0	0	24	0	1	14	3	2	4	0	0	7	0
	1730	,,	996·3	985·6	...	29·5	27·2	26·	34·2	83	...	6·7	...	2·4	0	0	18	1	1	8	1	2	4	1	0	13	0

(R) Register not received.

Division and station	Hour of observation I. S. T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. ph.): 62 or more	Wind speed (km. ph.): 20 to 61	Wind speed (km. ph.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—*Contd.*																											
Azamgarh	0830	78	999·0	990·5	...	28·2	27·1	26·7	34·6	93	...	7·4	...	...	0	0	29	0	0	24	0	0	0	5	0	2	0
	1730	"	996·2	987·6	...	29·5	27·9	27·3	35·9	85	...	6·4	...	...	0	0	26	0	1	18	0	1	0	6	0	5	0
Ghazipur	0830	114	999·1	986·4	...	27·7	26·5	25·9	33·6	91	+6	6·7	+0·7	4·3	0	0	28	1	4	4	1	1	5	7	5	3	0
	1730	"	996·1	987·5	...	29·9	27·5	26·5	34·6	82	...	6·5	...	2·7	0	0	17	1	1	4	2	0	6	2	1	14	0
Ballia	0830	64	999·5	992·3	...	28·9	27·5	26·8	35·2	88	...	6·5	...	1·5	0	0	16	0	1	12	3	0	0	0	0	15	0
	1730	"	996·7	989·6	...	30·4	28·1	27·2	36·3	83	...	6·4	...	1·6	0	0	14	0	4	8	0	0	0	1	1	17	0
Banda	0830	121	997·6	984·1	...	27·5	26·5	25·9	33·8	93	...	5·8	...	3·7	0	0	29	0	3	0	3	0	13	0	10	2	0
	1730	"	995·1	984·6	...	29·7	27·6	26·7	35·0	81	...	5·0	...	4·0	0	0	31	0	5	1	2	0	12	0	11	0	0
Allahabad (Bamhrauli)	0230	98	997·8	986·8	...	27·0	26·3	26·0	33·6	94	...	5·9	...	3·4	0	0	19	0	1	4	1	5	3	5	0	12	0
	0530	"	997·8	986·9	...	26·7	26·0	25·7	33·0	94	...	7·1	...	4·8	0	0	21	0	1	5	1	2	2	10	0	10	0
	0830	"	999·3	988·4	−1·5	28·2	26·5	25·7	33·2	87	+3	7·4	+0·6	5·7	0	0	25	0	1	3	3	0	5	7	6	6	0
	1130	"	999·3	988·4	...	30·3	27·3	26·1	33·8	79	...	7·3	...	6·7	0	1	29	1	4	3	1	2	4	11	4	1	0
	1730	"	996·2	985·3	...	29·8	27·2	26·0	34·0	81	...	6·9	...	5·7	0	1	25	3	6	2	4	1	3	5	2	5	0
	2330	"	998·8	987·9	...	27·5	26·5	26·2	33·8	92	...	5·6	...	2·9	0	0	18	1	1	2	2	1	2	8	1	13	0
Varanasi (Babatpur)	0530	85	999·0	989·4	...	26·9	26·5	26·1	33·8	95	...	6·8	...	4·9	0	0	21	0	3	5	2	2	6	5	0	10	0
	0830	"	1000·3	990·7	−0·3	28·3	27·0	26·5	34·6	90	+5	7·3	+1·0	7·7	0	1	29	1	1	7	6	2	9	3	1	1	0
	1130	"	1000·3	990·8	...	30·2	27·6	26·6	34·8	82	...	7·0	...	10·3	0	2	26	1	2	5	6	2	8	2	2	5	0
	1730	"	997·3	987·7	...	29·8	27·4	26·6	34·6	82	...	6·3	...	8·2	0	0	26	0	1	6	6	0	7	3	3	5	0
	2330	"	999·9	990·3	...	27·7	26·7	26·4	34·2	92	...	5·8	...	6·5	0	1	23	0	1	5	6	2	9	1	0	7	0
Varanasi	0830	76	999·1	990·6	−1·8	28·3	27·3	26·9	35·4	92	+8	6·6	+0·1	4·2	0	0	30	2	0	1	11	1	3	9	2	1	1
	1730	"	996·5	987·8	...	29·9	27·7	26·7	35·4	84	...	6·7	...	3·4	0	0	26	0	5	1	9	0	1	10	2	3	0
Uttar Pradesh (West) Dehra Dun	0530	682	998·8	924·3	...	23·8	23·1	22·8	27·7	95	...	6·2	...	0·9	0	0	8	3	2	1	1	1	0	0	0	23	0
	0830	"	999·4	925·5	−1·4	25·1	24·0	23·6	29·1	91	+6	6·6	+0·1	1·4	0	0	14	2	0	0	6	3	1	1	1	17	0
	1130	"	999·6	925·9	...	27·2	24·7	23·6	29·1	81	...	6·7	...	3·2	0	0	26	4	0	3	6	4	4	4	1	5	0
	1730	"	996·5	922·9	...	26·8	24·8	24·0	29·8	85	...	6·5	...	2·5	0	0	23	4	3	0	7	4	2	3	0	8	0
	2330	"	999·4	925·1	...	24·6	23·9	23·6	28·9	94	...	6·1	...	2·3	0	0	16	6	3	1	2	1	1	1	1	15	0
Roorkee	0830	274	999·5	969·0	−1·6	27·2	26·0	25·3	33·6	90	+8	5·9	+0·6	1·5	0	0	16	0	0	0	13	0	0	0	3	15	0
	1730	"	996·0	966·0	...	30·4	27·4	26·2	34·0	79	...	5·2	...	1·3	0	0	13	0	0	0	10	0	1	0	2	18	0
Najibabad	0830	270	999·6	969·8	...	27·1	26·0	25·6	32·8	91	...	5·8	...	3·0	0	0	23	0	2	0	20	0	1	0	0	8	0
	1730	"	996·7	967·3	...	30·3	27·5	26·4	34·2	81	...	5·0	...	2·7	0	0	23	0	2	0	17	0	0	0	4	8	0
Meerut	0830	222	999·7	974·9	−1·3	26·6	25·9	24·9	31·1	89	+9	2·9	−2·3	3·7	0	0	24	5	0	13	0	1	0	4	1	7	0
Bareilly	0830	173	999·2	980·0	−1·7	27·9	26·5	25·9	33·4	90	+6	7·4	+1·5	5·1	0	0	28	2	1	10	5	0	2	2	0	3	0
	1730	"	995·9	976·9	...	29·6	27·2	26·3	34·0	83	...	7·1	...	2·6	0	0	19	2	2	9	3	0	1	2	0	12	0
Bareilly (F. B. O.)	0230	172	997·4	978·3	...	27·7	26·7	25·9	34·2	91	...	6·1	...	4·9	0	0	19	0	2	12	5	0	0	0	0	12	0
	0530	"	997·7	978·5	...	27·2	26·2	25·8	33·2	92	...	7·1	...	4·7	0	1	19	0	2	12	5	0	0	1	0	11	0
	1130	"	998·9	979·9	...	27·7	27·1	26·2	33·8	82	...	6·9	...	8·4	0	0	29	1	2	8	11	3	2	2	0	2	0
	2330	"	998·4	979·5	...	28·1	26·5	26·0	33·4	90	...	6·0	...	4·0	0	0	19	0	4	11	3	1	0	0	0	12	0
Aligarh	0830	187	999·1	978·3	...	27·3	26·3	25·6	33·4	92	+14	7·5	+2·9	2·5	0	0	21	2	0	12	0	0	0	7	0	10	0
	1730	"	995·9	975·4	...	29·6	27·2	26·0	34·1	83	...	7·2	...	2·1	0	0	17	1	0	9	0	1	0	4	2	14	0
Mainpuri	0830	157	998·9	981·4	−1·8	27·7	26·7	26·2	34·2	91	+10	3·6	−1·9	2·8	0	0	27	2	0	5	8	3	4	2	2	4	0
	1730	"	995·9	978·6	...	29·8	27·4	26·4	34·6	83	...	5·3	...	2·6	0	0	26	1	3	2	5	4	4	1	6	5	0
Agra	0830	169	999·2	980·5	−1·5	27·6	26·0	25·3	32·3	87	+10	5·1	−0·5	0·1	0	0	1	0	0	0	0	0	0	0	0	30	0
	1730	"	995·9	977·2	...	29·2	26·6	25·6	32·8	81	...	6·7	...	2·3	0	0	15	1	2	2	1	2	3	0	4	16	0
Agra (Aerodrome)	0530	169	997·9	978·7	...	26·1	25·7	25·7	32·6	97	...	7·1	...	7·1	0	2	20	2	3	2	3	2	3	6	1	9	0
	0830	"	999·2	980·1	...	27·1	26·3	25·9	33·6	93	...	7·3	...	8·7	0	1	25	5	2	2	3	0	3	8	3	5	0
	1130	"	999·3	980·4	...	29·5	27·1	25·9	33·8	83	...	7·3	...	12·1	0	1	29	3	1	6	3	0	3	7	7	1	0
	1730	"	996·5	977·5	...	28·5	26·9	26·2	34·2	86	...	6·9	...	10·2	0	2	28	5	5	2	2	1	1	7	7	1	0
	2330	"	998·7	979·6	...	27·0	26·3	26·1	33·6	94	...	6·3	...	7·7	0	3	18	0	2	4	2	2	3	8	0	10	0
Orai	0230	141	1000·5	981·7	...	27·5	26·5	26·1	33·6	92	...	7·6	...	3·1	0	0	29	2	2	0	3	0	8	5	9	2	0
	1730	"	997·0	981·5	...	29·3	27·2	25·3	34·4	85	...	6·7	...	3·1	0	0	30	0	4	0	3	2	11	4	6	1	0
Jhansi	0830	251	999·8	971·9	−1·6	26·4	25·1	24·5	30·7	89	+9	7·3	+2·3	1·9	0	0	20	0	0	2	0	2	2	10	4	11	0
	1730	"	996·8	969·1	...	28·5	26·3	25·4	32·4	84	...	6·6	...	1·6	0	0	16	5	1	0	0	0	1	6	3	15	0
Punjab (India) (Including Delhi) Pathankot	0830	312	998·9	964·5	−1·3	27·5	25·3	24·3	30·4	83	+1	6·2	+0·5	3·9	0	0	24	1	6	6	8	2	1	0	0	7	0
	1130	"	999·1	965·0	...	29·8	26·3	24·9	31·5	76	...	6·0	...	5·1	0	0	30	1	4	3	5	1	12	3	1	1	0
	1730	"	995·8	961·9	...	31·1	26·6	24·7	31·1	69	...	5·2	...	5·3	0	0	27	0	5	1	3	1	7	4	6	4	0
Amritsar (Rajasansi)	0530	234	997·4	971·4	...	26·8	25·9	25·5	32·6	93	...	4·2	...	7·2	0	2	16	0	3	5	4	3	2		0	13	0
	0830	"	998·6	972·7	−1·2	28·4	26·4	25·5	32·6	85	+3	4·4	+0·3	7·2	0	3	19	0	2	6	5	5	3	0	1	9	

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—*Contd.*																											
Amritsar (Rajasansi) —*contd.*	1130	234	998.8	973.1	...	31·5	27·5	25·9	33·4	73	...	4·6	...	8·1	0	2	20	0	1	6	9	2	1	2	1	9	0
	1730	,,	995.4	969·9	...	32·6	27·5	25·5	32.6	67	...	3·9	...	8·0	0	1	23	1	1	5	6	2	2	5	2	7	0
Adampur Aerodrome (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Ludhiana	0830	247	999·1	971·7	−1·3	27·9	26·1	25·1	31.9	85	+10	6·6	−2·3	4·5	0	0	23	1	4	0	11	5	0	1	1	8	0
	1730	,,	995·8	968.7	...	31·2	27·3	25·4	32.4	72	...	5·9	...	4·3	0	0	27	3	3	4	10	2	0	2	3	4	0
Ferozepur	0830	200	997.7	975·7	...	28.7	26.4	25.4	32.8	83	...	3·7	...	1·0	0	0	10	0	3	0	5	1	1	0	0	21	0
	1730	,,	994.9	973·0	...	31·9	27·6	25·7	33·2	68	...	3·5	...	1·4	0	0	13	1	1	0	4	1	1	1	2	18	2
Halwara Aerodrome	0830	242	999·4	972·6	..	27·9	26.5	25·9	33·4	89	...	5·6	...	9·6	0	1	27	1	1	4	13	3	2	3	1	3	0
	1730	,,	997·3	970·9	...	31·8	27·7	26·0	33·6	73	...	5·7	...	11·3	0	3	23	3	1	4	7	3	1	4	3	5	0
Chandigarh	0830	347	999·1	961.0	−1·0	27·5	25·7	24.8	31·5	86	+6	5·2	+1·3	..	0	0	13	0	2	0	4	0	1	0	6	18	0
	1730	,,	995·9	958·0	...	29·5	26·1	24·6	30·9	76	...	5·0	...	...	0	0	18	0	0	0	8	0	2	0	8	13	0
Ambala	0830	272	998·7	968·6	−1·8	27·6	26·0	25·1	32·2	89	+10	2·9	−1.8	...	0	0	9	0	1	0	7	0	0	0	1	22	0
	1730	,,	995·8	966·1	...	30·7	27·3	26·2	34·4	78	...	1·6	...	..	0	0	17	0	5	0	11	0	0	0	1	14	0
Ambala (P. B. O.)	0230	278	997·3	966·5	...	27·2	25·9	25.4	32.2	90	...	5·1	...	4·4	0	0	21	0	3	2	12	1	1	2	0	10	0
	0530	,,	997·5	966·6	...	26·6	25·6	25·2	32.0	92	...	6·3	...	5·7	0	1	24	2	4	5	8	1	2	3	0	6	0
	1130	,,	999·1	968·5	...	29·8	26·4	25·3	31·7	77	...	6·5	...	6·3	0	1	25	0	1	5	13	1	3	1	2	5	0
	2330	,,	997·8	967·1	...	27·9	26·3	15.7	32·8	88	...	3·9	...	5·4	0	0	23	0	5	2	13	0	1	2	0	8	0
Ambala (Aerodrome)	0530	274	997·6	967·1	...	25·7	25·4	25.2	32·2	97	...	6.7	...	6.6	0	1	19	1	1	13	2	1	0	0	2	11	0
	0830	,,	998·7	968·3	...	27·1	26·0	25.5	32·6	91	...	7·1	...	10·3	0	3	23	0	2	14	4	1	0	4	1	5	0
	1130	,,	998·9	968·8	...	29·7	26·9	25·8	33·2	81	...	6·9	...	11·5	0	3	22	0	2	10	6	1	0	2	4	6	0
	1730	,,	995·7	965·7	...	30·6	27·4	26.1	33·8	78	...	6·3	...	11·7	0	4	22	2	3	8	2	1	2	4	4	5	0
	2330	,,	997·9	967·5	...	26.9	26·0	25·5	33·0	93	...	4·6	...	6·0	0	3	11	0	0	9	1	2	0	1	1	17	0
Patiala	0830	251	999·1	971·7	...	27·8	26·2	25·5	32·6	87	...	6·1	...	2·9	0	0	13	0	1	0	12	0	0	0	0	18	0
	1730	,,	996·0	968.6	...	30·9	27·3	26·1	33·4	75	...	6·2	...	3·1	0	0	21	0	1	0	13	0	0	1	6	10	0
Bhatinda	0830	211	998·2	975·1	...	29·5	27·5	26·6	35·0	83	...	4·0	...	5.5	0	0	28	1	2	1	11	2	9	1	1	3	0
	1730	,,	995·1	972·1	...	33·1	28·7	27·0	35·7	70	...	4·0	...	3·2	0	0	19	1	2	3	8	0	2	0	3	12	0
Karnal	0830	249	998·0	970·5	...	27·9	26·0	24·9	32·1	85	...	6·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	,,	995·8	968·5	...	30·2	26·8	25·5	32·4	76	...	4.3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hissar	0530	221	997.4	972·9	...	26·8	25·0	25.6	33·0	94	...	5·1	...	4·9	0	0	28	0	5	2	3	5	7	6	0	3	0
	0830	,,	998.8	974·3	−1·6	28·1	26·4	26·1	33·0	88	+18	6·3	+3.3	4·1	0	0	29	0	3	5	4	4	8	5	0	2	0
	1130	,,	998.9	974·7	...	31·3	27·6	26·1	34·0	75	...	5·9	...	7.1	0	0	31	1	2	5	3	1	9	5	5	0	0
	1730	,,	995·8	971·7	...	31·6	27·6	26·0	33.6	74	...	4·8	...	3·9	0	0	28	0	2	5	4	5	6	4	2	3	0
	2330	,,	997·9	973·5	...	28·2	26·7	26·0	33·4	89	...	2·9	...	3·3	0	0	17	0	1	0	5	4	6	0	1	14	0
New Delhi (Safdarjung)	0230	216	997·6	973·5	...	26·9	25·9	25·6	32·6	93	...	5.5	...	4·7	0	0	17	0	1	6	5	0	2	3	0	14	0
	0530	,,	997·7	973·6	...	26·4	25·5	25·1	31·9	92	...	6·4	...	5·5	0	0	21	0	2	6	2	1	3	5	2	10	0
	0830	,,	999·1	975·1	−1.7	27·7	26·0	25·3	32.2	87	+9	7·0	+1·3	8·1	0	2	23	2	1	5	4	1	2	6	4	6	0
	1130	,,	999.3	975·4	...	29·7	26·8	25·6	33·0	79	...	7·2	...	8·5	0	2	23	2	0	5	5	1	1	4	7	6	0
	1730	,,	996·0	972·2	...	29·9	26·9	25·5	32·6	78	...	6·3	...	6·3	0	3	21	3	3	7	2	1	2	2	4	7	0
	2330	,,	998·4	974·3	...	27·5	26.3	25·8	33·2	91	...	5·7	...	5.3	0	0	21	1	1	5	3	3	4	3	1	10	0
Palam (Aerodrome)	0230	233	997·6	971·4	...	26·4	25·7	25.5	32·4	95	...	5·6	...	6·7	0	0	29	1	4	8	3	4	3	4	2	2	0
	0530	,,	997·8	971·9	...	25.9	25·2	25·2	31·5	95	...	6·5	...	7·6	0	0	29	1	2	9	4	5	5	3	0	2	0
	0830	,,	999·3	973·2	...	27·5	26·1	25.4	32·6	92	...	6·9	...	9·4	0	4	26	2	2	10	1	3	7	3	2	1	0
	1130	,,	999·3	973·5	...	29·6	26·9	25.8	33·2	81	...	7·0	...	12·7	0	6	25	2	1	10	4	0	1	12	1	0	0
	1430	,,	997·3	971·8	...	30·7	27·3	25·9	33·4	77	...	7·0	...	11·3	0	3	27	2	3	7	3	0	4	4	7	1	0
	1730	,,	996·1	970·5	...	29·6	27·0	25·9	33·6	80	...	6·4	...	10·0	0	2	27	3	6	7	1	0	3	4	5	2	0
	2030	,,	997·9	971·8	...	27·5	26·4	25·8	33·4	90	...	5·5	...	9·4	0	1	29	3	6	7	3	2	3	4	2	1	0
	2330	,,	998·4	972·5	...	26·8	26·0	25·7	33·0	94	...	5·7	...	8·1	0	0	28	1	2	10	5	4	3	3	0	3	0
Himachal Pradesh																											
Mandi	0830	761	998·7	916·6	...	24·1	23·6	23·3	28·6	95	...	5·4(o)	...	0·3	0	0	3	0	1	0	1	0	1	0	0	28	0
	1730	,,	985·7	914·7	...	27·2	25.2	24·3	30·5	85	...	6·5(j)	...	0.2	0	0	2	0	0	0	0	1	0	0	1	29	0
Bilaspur	0830	493	1000·2	946·1	...	26·1	24·7	24·2	30·0	89	...	6·5	...	...	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir																											
Misgar (R)	1730	,,	996·6	943·3	...	29·2	25.5	24·3	29·8	76	...	5·4	...	0·3	0	0	2	0	0	0	0	1	0	1	0	29	0
	0830																										
(R)	1730																										

(R) Register not received. (o) Mean of 16 days. (j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir-*Contd.*																											
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3061·6	663·5	...	10·6	5·4	−0·4	5·6	47	...	4·9(a)	...	4·7(a)	0	0	26	5	15	0	0	0	0	0	0	10	0
	0830	"	3063·0	664·5	−0·6	15·8	8·5	1·9	7·0	39	29	4·1	+0·1	3·1	0	0	31	0	1	0	0	9	4	0	0	17	0
	1730	"	3010·2	661·0	...	22·4	12·7	5·6	9·0	35	...	4·4	...	0·0	0	0	27	0	0	0	0	7	11	7	2	4	0
Srinagar	0830	1587	1428·5	834·8	−0·4	21·1	18·9	17·9	20·4	82	−1	4·7	+0·9	1·8	0	0	17	0	1	2	10	2	0	1	1	14	0
	1130	"	1422·4	834·7	...	25·3	20·1	17·6	20·0	63	...	3·8	...	2·9	0	0	25	4	2	7	3	1	3	3	2	6	0
	1730	"	1392·7	831·8	...	27·6	20·7	17·9	20·8	55	...	4·1	...	1·4	0	0	15	0	0	0	3	6	2	4	4	18	0
Srinagar (Aerodrome)	0530	1666	1412·7	826·0	...	18·5	16·7	15·6	17·7	81	...	4·6	...	5·1	0	0	19	0	1	1	4	3	2	6	2	12	0
	0830	"	1421·4	827·0	...	21·3	18·1	16·8	19·6	76	...	4·8	...	5·6	0	0	24	3	3	8	2	3	0	0	5	7	0
	1130	"	1418·8	827·0	...	21·8	19·7	17·9	20·1	63	...	4·1	...	5·8	0	0	27	2	5	10	2	2	1	1	4	4	0
	1730	"	1387·7	823·7	...	26·9	19·7	15·8	18·0	51	...	4·6	...	6·1	0	0	27	4	2	4	3	6	1	3	4	4	0
	2330	"	1108·5	825·8	...	24·2	16·1	10·1	13·0	75	...	2·8	...	3·5	0	1	11	1	0	3	0	2	3	1	2	19	0
Gulmarg	0830	2655	1082·7	736·4	0·6	16·3	14·1	12·6	14·2	80	−1	4·6	+0·4	1·8	0	0	11	1	3	6	1	0	1	2	0	17	0
	1730	"	1070·8	735·9	...	18·8	16·0	14·0	16·4	76	...	4·8	...	5·2	0	0	23	6	5	9	2	6	3	3	0	3	0
Jammu	0830	"	...	...	...	28·4	25·0	21·1	30·5	80	−1	5·3	+1·1	6·4	0	0	31	3	15	1	6	2	1	0	1	0	0
Jammu (Aerodrome)	0530	292	997·6	965·0	...	26·5	25·1	24·4	30·6	89	...	5·7	...	3·3	0	0	12	0	6	2	1	0	0	1	2	19	0
	0830	"	998·4	966·1	...	28·2	26·2	25·3	32·4	84	...	5·7	...	4·3	0	0	17	0	6	7	3	1	0	0	0	11	0
	1130	"	998·7	966·6	...	30·4	26·9	25·5	32·2	75	...	5·8	...	8·1	0	0	26	0	1	1	15	3	4	1	1	5	0
	1730	"	995·6	963·7	...	31·9	27·5	25·6	32·8	71	...	5·1	...	8·6	0	2	25	1	5	0	9	3	1	7	3	4	0
	2330	"	997·3	965·0	...	28·7	26·4	25·5	32·1	83	...	4·5	...	4·0	0	3	6	0	4	1	3	0	0	0	1	22	0
Rajasthan (West)																											
Ganganagar	0530	177	996·8	977·2	...	28·6	2·6	21·3	30·4	79	...	4·0	...	5·2	0	0	24	2	7	2	1	1	5	2	4	7	0
	0830	"	998·0	978·4	−1·1	29·0	26·0	24·8	31·1	79	+16	5·6	+1·9	4·7	0	1	26	1	4	5	3	0	13	1	0	4	0
	1130	"	998·2	978·4	...	33·1	27·1	21·2	30·2	61	...	5·2	...	8·0	0	0	30	2	3	6	3	1	12	2	1	1	0
	1730	"	994·5	975·4	...	34·6	27·1	23·8	29·7	54	...	4·4	...	4·7	0	0	23	6	4	3	2	1	8	3	2	8	0
	2330	"	997·1	977·6	...	29·7	26·1	24·6	30·9	75	...	2·9	...	4·0	0	0	29	0	4	2	4	2	4	1	3	11	0
Churu	0830	291	999·2	967·0	...	28·0	26·4	25·8	33·2	88	...	6·0	...	11·8	0	0	31	1	0	3	0	4	4	17	0	0	0
	1730	"	996·1	964·4	...	31·9	27·6	26·2	34·0	73	...	5·8	...	11·3	0	1	30	3	2	7	1	2	1	14	1	0	0
Bikaner	0830	224	998·6	973·6	−1·6	29·0	25·4	23·7	29·5	73	1	5·0	0	8·7	0	0	31	0	2	0	3	1	15	6	4	0	0
	1730	"	995·2	973·0	...	33·1	25·9	22·5	26·9	53	...	3·0	...	7·6	0	0	28	1	3	0	4	2	12	4	2	3	1
Bikaner (P.B.O.)	0530	224	997·3	972·5	...	27·9	25·8	24·9	31·5	84	...	4·4	...	3·9	0	0	24	1	1	1	0	8	11	2	0	7	0
	1130	"	998·6	974·1	...	33·1	27·2	23·6	31·1	63	...	5·6	...	6·5	0	0	28	1	0	1	0	4	13	4	4	3	0
	2330	"	997·5	972·8	...	29·3	25·3	24·7	31·5	75	...	5·4	...	4·7	0	0	24	1	1	0	1	7	11	3	0	7	0
Nagaur	0830	298	998·9	966·1	...	29·4	25·7	24·2	30·4	75	...	5·5	...	8·4	0	0	31	0	2	1	1	3	14	8	2	0	0
	1730	"	995·1	962·6	...	32·6	26·4	23·7	29·5	62	...	5·6	...	8·0	0	0	31	1	2	5	3	6	10	3	1	0	0
Phalodi	0830	234	999·4	973·5	...	28·1	26·0	25·0	32·4	84	...	5·9	...	19·9	0	14	17	1	1	0	1	4	17	6	1	0	0
	1730	"	995·6	971·2	...	33·3	27·2	24·9	31·7	63	...	5·3	...	19·1	0	11	20	2	1	1	2	9	13	2	1	0	0
Jaisalmer	0830	242	998·3	971·8	...	27·4	24·8	21·1	29·2	82	...	5·7	...	19·2	0	9	22	1	1	0	0	11	15	1	2	0	0
	1730	"	994·6	968·6	...	33·7	26·3	22·9	27·9	55	...	4·4	...	16·1	0	7	24	1	1	0	1	11	16	0	1	0	0
Jodhpur	0230	224	998·3	973·4	...	27·4	24·9	23·4	28·8	76	...	4·7	...	10·3	0	1	28	0	0	0	0	4	23	2	0	2	0
	0530	"	998·5	973·5	...	27·1	24·7	23·6	29·1	81	...	5·4	...	9·5	0	2	26	0	0	0	0	2	23	3	0	3	0
	0830	"	999·9	974·9	−0·3	27·9	25·1	23·8	29·5	79	0	6·3	+0·3	12·9	5	2	29	0	0	1	0	3	18	9	0	0	0
	1130	"	999·9	975·2	...	31·0	25·5	23·9	28·1	63	...	6·3	...	14·7	0	6	25	0	1	0	1	2	21	5	1	0	0
	1730	"	996·2	971·8	...	33·5	25·5	21·9	26·3	52	...	6·0	...	13·5	0	5	26	1	0	0	4	5	15	5	1	0	0
	2330	"	998·9	974·1	...	29·2	25·0	23·1	28·3	70	...	5·0	...	10·3	0	1	29	1	0	0	2	4	21	1	1	1	0
Barmer	0530	194	998·0	976·4	...	26·9	24·7	23·6	29·3	82	...	5·1	...	4·8	0	0	26	0	0	0	1	3	7	13	2	5	0
	0830	"	999·3	977·7	−1·7	27·7	25·0	23·8	29·3	80	+1	6·4	+1·0	5·4	0	0	29	0	0	0	2	5	12	6	4	2	0
	1130	"	999·0	977·7	...	31·2	25·8	23·3	28·8	64	...	6·4	...	5·5	0	0	30	1	1	0	2	9	13	2	2	1	0
	1730	"	995·5	974·4	...	33·2	26·0	22·7	27·6	56	...	6·0	...	6·1	0	0	29	1	0	0	0	9	15	4	0	2	0
	2330	"	998·1	976·6	...	29·1	25·4	23·6	29·3	73	...	3·9	...	4·4	0	0	27	1	0	0	1	8	15	2	0	4	0
Munabao (R)	0830	80																									
(R)	1730	"																									
Rajasthan (East)																											
Pilani	0830	301	999·6	966·4	...	27·9	26·4	25·8	33·0	88	...	3·7	...	11·3	0	0	31	1	1	4	4	5	5	10	1	0	0
	1730	"	996·7	963·9	...	30·7	27·6	26·3	34·2	75	...	4·1	...	12·9	0	0	30	4	2	3	3	5	5	8	0	1	0
Sikar	0830	433	999·8	952·4	...	27·2	25·8	25·4	32·1	91	...	6·8	...	2·8	0	0	29	0	0	0	1	0	14	13	1	2	0
	1730	"	995·9	949·3	...	30·4	27·6	26·6	35·2	79	...	5·5	...	2·7	0	0	28	1	2	0	1	0	6	18	0	3	0
Alwar	0830	271	997·8	968·0	...	27·9	25·7	24·7	31·1	84	...	6·7	...	1·2	0	0	11	0	2	2	0	2	0	4	0	20	1
	1730	"	995·9	966·2	...	29·8	26·4	25·1	31·7	76	...	6·6	...	2·2	0	0	19	3	3	2	1	3	2	3	2	12	0

a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)—*Contd.*																											
Jaipur (Sanganer)	0230	390	997·7	954.6	...	25·9	25·0	24·5	30·9	92	...	6·7	...	3·9	0	0	20	3	1	2	1	1	2	5	5	11	0
	0530	,,	998·0	954·8	...	25.4	24·7	24·3	30·4	94	...	6·6	...	4·8	0	0	22	0	1	2	3	0	1	5	10	9	0
	0330	,,	999·2	956·2	−2·5	26·9	25·2	24·5	30·7	84	+4	7·0	+1·6	9·6	0	2	26	0	0	2	2	0	2	11	11	3	0
	1130	,,	999.0	956·4	...	28·5	25·9	24·4	31·3	75	...	7·1	...	11·8	0	2	29	2	2	2	0	1	1	11	12	0	0
	1730	,,	996.1	953·5	...	28·9	26·1	24·7	31·5	78	...	7·3	...	7·2	0	0	27	1	1	4	2	1	5	10	3	4	0
	2330	,,	998·5	955·4	...	26·6	25·2	24·6	30·9	89	...	6·2	...	3·4	0	0	18	1	1	1	3	0	0	8	4	13	0
Dholpur	0830	176	998·8	979 2	...	27·3	26·0	25·4	32.6	90	...	7·6	...	4·5	0	0	17	0	2	0	1	0	4	7	3	14	0
	1730	,,	996·0	976·5	...	28·9	26·6	25·8	33·0	83	...	7·5	...	6·2	0	0	16	0	3	2	0	0	0	9	2	15	0
Ajmer	0830	486	999·6	946·3	−2·2	26·2	23·8	22 8	27·7	82	+5	6·9	+1·9	14·4	0	0	28	0	1	0	1	0	17	11	0	1	0
	1730	.	995·7	943·4	...	30·2	25·0	22·9	27·4	66	...	7·0	...	8·4	0	0	29	0	1	1	2	1	9	13	2	2	0
Tonk	0830	272	998·6	968·4	...	27·5	25·8	24·9	31·9	87	...	6·2	...	9·2	0	0	31	0	2	2	1	0	11	12	3	0	0
	1730	,,	995·6	965·8	...	29·7	26.6	25·7	32·2	78	...	6·5	...	8·9	0	0	31	0	1	3	2	1	7	11	6	0	0
Kota (R)	0530	257																									
	0830	,,	999·8	971·4	−1·8	28.5	25·9	24·8	31·1	81	+6	6·6	+1·4	4·7	0	0	28	0	0	0	0	0	2	25	1	3	0
(R)	1130	,,																									
	1730	,,	997·4	969·0	...	29·4	26·7	25.5	32·8	81	...	7·1	...	3·8	0	0	23	2	1	0	0	1	6	9	4	8	0
(R)	2330	,,																									
Erinpura (Jawai Dam)	0830	295	1001·1	968·3	...	26·4	24·5	23·6	28·9	85	...	7·5	...	9.4	0	0	31	1	0	0	2	8	16	4	0	0	0
	1730	,,	997·6	965·3	...	30.2	25·8	23·8	29·7	67	...	6·9	...	8·1	0	0	30		0	0	4	10	13	2	0	1	0
Chambal (Rawat Bhatta Dam)	0830	351	1000.4	961·6	...	26·9	25·0	24·3	30·2	86	...	3·7	...	5·6	0	0	30	0	0	0	0	0	13	11	6	1	0
	1730	,,	997·6	959·0	...	28·5	25·5	24·1	30·0	78	...	7·0	...	6·0	0	0	29	2	0	2	0	1	12	4	8	2	0
Udaipur	0230	582	999·3	935·7	...	24·7	23·1	22·5	26·9	87	...	5·8	...	0·7	0	0	4	0	0	0	0	1	3	0	0	27	0
	0530	,,	999·5	935·7	...	24·3	22·7	22·1	26·3	87	...	7·2	...	1·2	0	0	7	0	0	0	0	0	5	2	0	24	0
	0830	,,	1000·6	937.0	−1·6	25.5	23·2	22·2	26·7	82	+4	7·0	+1·2	2·2	0	0	17	0	0	0	1	5	5	3	3	14	0
	1130	,,	1000.7	937·6	...	28·0	23·9	22·1	26·3	71	...	7·5	...	4·9	0	0	26	0	0	0	0	5	16	3	2	5	0
	1730	,,	997·7	934·8	...	28.1	24·1	22·3	26.7	71	...	7·3	...	4·4	0	0	25	1	0	0	1	5	14	3	1	6	0
	2330	,,	1000·6	936·9	...	25·2	23·5	22·6	27·6	86	...	6·4	...	1·5	0	0	10	0	0	0	0	2	7	1	0	21	0
Jhalawar	0830	321	1000·3	964·8	−1·5	26 5	24·9	24·2	30·2	83	+4	5·8	−0·4	2·7	0	0	27	0	0	1	0	1	13	11	1	4	0
	1730	,,	997·4	962·3	...	29·1	25·8	24·3	30·5	77	...	5·6	...	4·2	0	0	31	1	2	0	0	0	10	11	7	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	997·6	974·5	...	26·1	25·1	24·7	31·1	92	...	7·1	...	7·9	0	3	22	0	2	2	0	1	12	7	1	6	0
	0530	,,	997.6	974·6	...	25·9	25·0	24·5	30·9	92	...	7·2	...	8·0	0	3	23	2	0	2	0	1	11	7	3	5	0
	0830	,,	999·0	976·0	−1·7	27·2	25·6	24·9	31·5	87	+5	7·3	+1·2	8·4	0	1	29	3	1	3	0	1	3	13	6	1	0
	1130	,,	999·0	976·2	...	29·2	26·5	25·4	32·4	81	...	7.4	...	10·5	0	3	28	1	1	4	1	0	3	12	9	0	0
	1730	,,	996·2	973·4	...	23·7	26·6	25·9	33·0	85	...	7·5	...	8·5	0	1	27	3	1	3	0	0	3	13	5	3	0
	2330	,,	998·6	975·5	...	26·4	25·5	25·1	31·9	92	...	7.2	...	7·4	0	2	21	0	1	0	1	2	8	9	2	8	0
Sheopur	0830	235	1000·0	973·9	−0·7	26·7	25·7	25·3	32·2	92	+4	7·4	+0·5	8·6	0	0	29	1	0	1	3	8	10	6	0	2	0
	1730	,,	996·9	970·9	...	28·4	26·6	25·7	33·4	87	...	7·2	...	8·6	0	2	29	3	2	1	3	4	6	4	6	0	2
Shivpuri	0830	464	999·7	948·6	...	25·3	24·3	23·9	29·7	91	...	7·2	...	10·4	0	0	31	0	2	0	0	3	4	21	1	0	0
	1730	,,	997·4	946·6	...	26·8	24·9	24.2	30·0	86	...	7·3	...	10·5	0	2	27	0	0	1	2	2	12	5	7	2	0
Nowgong	0830	229	999.6	974·2	−1.7	26·6	25·5	25·0	31·9	91	+8	7·0	+0.7	6·5	0	0	31	0	2	2	0	4	14	6	3	0	0
	1730	,,	996·4	971·3	...	29·1	26·6	25·5	32·6	81	...	6·8	..	7·4	0	0	29	3	2	2	0	1	9	3	9	2	0
Guna	0530	478	999.3	946·4	...	24·1	23·5	23·2	28·4	95	...	7·6	...	13·3	0	5	25	0	0	1	1	1	5	19	3	1	0
	0830	,,	1000·5	947·8	−1·4	24·9	23·9	23·5	28·9	92	+6	7·6	+1·6	9·7	0	2	29	0	1	0	0	3	1	25	1	0	0
	1130	,,	1000·5	948·0	...	26·8	25·0	24·2	30·2	86	...	7·2	...	15.1	0	5	26	1	1	0	0	2	4	16	7	0	0
	1730	,,	997·4	945·2	...	26·9	24·8	24.0	29.6	84	...	7·0	...	14·6	0	8	22	2	0	0	1	2	3	13	9	1	0
	2330	,,	1000·0	947·2	...	24·7	23·9	23·6	28·9	94	...	6·4	..	7·4	0	0	30	2	0	1	1	5	10	8	3	1	0
Nimuch	0830	496	1001·4	946·7	−1·4	25·2	23·5	23·0	28·1	89	+4	7·6	+1·6	15·9	0	7	24	0	1	0	0	0	15	15	0	0	0
	1730	,,	998·5	944·4	...	27.5	24·3	22·9	27·9	77	...	7·2	...	12·3	0	2	28	0	2	0	2	0	12	14	0	1	0
Rajgarh	0830	382	1000·2	957·9	...	25·7	23·4	22·3	26·9	82	...	6·5	...	5·4	0	0	31	2	0	0	0	0	0	25	4	0	0
	1730	,,	997·3	955·6	...	28·4	24·9	23·4	28·8	75	...	6·2	...	4·2	0	0	29	1	0	0	0	0	0	23	5	2	0
Sagar	0830	551	1000·2	939·7	−1·6	24·5	23·4	23·0	28·1	92	+4	7·2	+0·6	9·6	0	0	31	0	3	1	0	0	2	13	12	0	0
	1730	,,	997·0	937·1	...	26·5	24·1	23.1	28·3	82	...	7·1	...	6·1	0	0	30	0	0	0	0	0	2	15	13	1	0
Ratlam	0830	486	1001·8	947·9	−1·2	24·0	23.0	22·6	27·4	93	0	7·5	−0·1	10·0	0	1	30	0	0	0	0	2	13	14	2	0	0
	1730	,,	998·7	945·6	...	27·8	24·0	22·9	27·9	76	...	7·0	...	12·2	0	1	30	1	0	0	0	1	16	11	2	0	0
Bhopal (Biragarh)	0230	523	999·7	942·1	...	24.1	23·2	22·8	27·9	92	...	6·7	...	12·9	0	3	28	1	0	0	0	1	5	19	5	0	0
	0530	,,	999·7	942·3	...	23·8	22·9	22.5	27·2	92	...	7·3	...	14·7	0	5	26	1	0	0	0	0	3	21	6	0	0
	0830	,,	1001·3	943·7	−1·5	24·9	23·4	22·8	27·6	88	+1	7·6	+1·0	19·8	0	16	15	2	0	0	0	0	2	16	11	0	0
	1130	,,	1000·9	943·8	...	27·2	24·2	22·9	27·9	78	...	7·6	...	19·5	0	16	15	2	1	0	0	0	2	12	14	0	0
	1730	,,	997·9	941·0	...	27·0	23·9	22·6	27·2	78	...	7 5	...	17·2	0	14	17	1	2	0	0	0	4	10	14	0	0

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amo (Oktas): Departure from normal	Cloud amo (Oktas): Mean amount	Cloud amo (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) —*Contd.*																											
Bhopal (Bairagarh)—*Contd.*	2330	523	1000·8	43.2	...	24·7	23·5	23·0	28·1	90	...	6·9	...	13·8	0	1	30	1	0	0	0	0	10	15	5	0	0
Ujjain	0830	...	...	...	...	24·7	23·3	22·7	27·6	89	...	7·1	...	24·6	0	24	7	1	0	0	0	1	2	15	12	0	0
Hoshangabad	0830	302	1001·5	967·7	−2·0	25·1	24·3	23.9	29·8	93	+5	7·5	+0.5	5.4	0	0	31	0	0	0	1	3	19	7	1	0	0
	1730	,,	998·1	964·8	...	27·9	25·3	24·3	30·4	82	...	7·0	...	5·7	0	0	31	1	0	0	0	1	9	17	3	0	0
Indore	0530	567	1000·5	938·0	...	22·7	22·1	21·7	26·1	94	...	6·6	..	20·5	0	15	15	0	0	0	0	2	19	7	2	1	0
	0830	,,	1001·9	939·4	−1.8	23·8	22·6	22.0	26·4	90	+3	7·2	0	20·5	0	18	13	0	0	0	0	2	17	8	4	0	0
	1130	,,	1001.7	939·7	...	25·9	23·5	22.4	27·1	81	...	7·1	...	22·8	0	22	9	1	0	0	0	1	10	13	6	0	0
	1730	,,	998·2	936·6	...	27·0	23·7	22·2	26·8	76	...	6·4	...	21·4	0	17	14	2	1	0	0	1	15	6	6	0	0
	2330	,,	1001.7	939·2	...	23·5	22·6	22·3	26·7	93	...	5·8	...	16·6	0	8	23	0	1	0	0	1	26	3	0	0	0
Rajpur (Jhabua)	0830	293	1002·6	969·9	...	25·4	24.0	23·4	28·8	89	...	7·1	...	12·5	0	2	28	0	0	0	0	0	7	23	0	1	0
	1730	,,	999·3	967·0	...	28·4	25·0	23·4	28·8	75	..	6.7	...	14·3	0	5	25	0	0	0	0	4	12	12	2	1	0
Chhindwara	0830	685	1001.1	926·4	0.9	24·3	22·7	21·9	26·4	87	0	7·3	+0·7	9·8	0	0	31	2	0	0	0	0	5	10	14	0	0
	1730	,,	998.0	923·8	...	25·8	23·1	21.9	26·3	80	..	7·6	...	10·8	0	0	30	2	0	0	1	0	4	10	13	1	0
Seoni	0830	619	1000·5	933·2	−1·4	24·7	23.4	22·8	27·7	89	+5	7·4	+1·2	3·4	0	0	31	2	0	1	2	2	13	6	5	0	0
	1730	,,	997·6	930·5	...	25·9	23·7	22·8	27·7	84	...	7·4	...	3·8	0	0	29	1	0	0	2	1	13	2	10	2	0
Betul	0830	653	1002.2	930·5	−1·0	23·3	22·4	21·9	26·4	92	+2	8·0	+0.4	9·0	0	0	31	0	0	0	1	2	1	25	2	0	0
	1730	,,	998.5	927.7	...	25·8	23·4	22·4	27·1	82	...	7·8	...	8·8	0	0	31	2	0	0	0	0	3	20	6	0	0
Khandwa	0830	318	1002·3	966·8	−1·6	25·4	23.6	22·6	27.6	86	+3	7·6	+1.8	3·6	0	0	31	0	0	0	0	2	16	11	2	0	0
	1730	,,	998·3	963·9	...	28·4	24·6	23·3	27·7	74	...	7·3	...	5·0	0	0	31	1	0	0	0	0	18	10	2	0	0
Madhya Pradesh (East)																											
Satna	0530	317	998.2	963.0	...	25·2	24·6	24·3	30·5	95	...	7·2	...	3·0	0	0	17	0	0	2	0	1	8	5	1	14	0
	0830	,,	999·4	964·2	−1·6	26·8	25·3	24·6	31·1	88	+4	7·1	+0·7	2·1	0	0	24	0	1	0	1	0	2	19	1	7	0
	1130	,,	999·1	964·2	...	28·6	26·0	24·9	31·7	81	..	7·4	...	4·6	0	0	28	1	0	2	2	2	6	11	4	3	0
	1730	,,	996·4	961·6	...	28·4	25·8	24·6	31·1	81	...	7·4	...	3·4	0	0	23	2	0	1	1	1	1	12	5	8	0
	2330	,,	999.2	964.0	...	26·0	25·1	24·8	31·1	93	...	6·3	...	3·1	0	1	19	0	0	1	3	1	10	4	1	11	0
Sidhi	0830	272	999·0	968·8	...	27·1	25·5	24·8	31·3	87	...	6·1	...	1·0	0	0	10	0	1	1	0	1	3	4	0	21	0
	1730	,,	996·1	966·2	...	28·8	26·1	24·9	31·5	80	...	5·2	...	1·5	0	0	18	0	1	0	2	1	5	5	4	13	0
Umaria	0830	459	999.7	949·1	...	25·4	24·2	23·7	29·3	91	+8	7·5	+0·5	6·1	0	0	30	0	1	0	0	0	7	21	0	1	1
	1730	...	996·9	946·7	...	26·9	25·1	24·3	30·4	86	...	7·0	...	4·3	0	0	26	2	0	0	0	2	6	15	1	5	0
Jabalpur	0530	393	999·1	955·5	...	24·4	23·9	23·6	29·3	96	...	7·2	...	6·4	0	3	24	0	1	0	3	2	9	12	0	4	0
	0830	,,	1000.4	956·9	−1.5	25·4	24·4	24·0	29·6	92	+8	7·4	+0·6	6·5	0	0	30	0	1	0	0	2	11	14	2	1	0
	1130	,,	1000.3	957·1	...	27·3	25·3	24·5	30·5	85	...	7·2	...	8·1	0	0	30	1	2	0	0	1	8	15	3	1	0
	1730	,,	997·2	954·2	...	27·6	25.2	24·1	30·0	82	...	7·1	...	7·0	0	0	29	0	1	0	0	1	12	13	2	2	0
	2330	,,	1001·2	956·6	...	25·2	24·5	24·1	30·0	94	...	7·0	...	4·8	0	1	23	0	0	0	3	4	11	6	0	7	0
Ambikapur	0830	611	1000·2	933·5	−0.9	24·8	23·6	23·2	28·3	91	+3	6·7	+0.7	4·3	0	0	27	2	0	2	1	3	13	4	2	4	0
	1730	,,	997 2	930·9	...	26·1	24·3	23·5	28·9	86	...	5·8	...	5·4	0	0	31	4	4	1	3	3	7	5	4	0	0
Pendra	0530	625	999·0	930·6	...	23·2	22·6	22·3	26·9	95	...	7·9	...	4·0	0	0	27	7	1	0	1	7	8	1	2	4	0
	0830	,,	1000·1	932·0	−1.5	24·7	23·4	22·9	27·9	90	+5	7·3	+1·7	5·4	0	0	27	5	1	0	1	8	5	2	5	4	0
	1130	,,	999·6	931·9	...	26·8	24·4	23·4	28·8	82	...	7·7	...	6·4	0	0	30	9	1	0	0	4	9	4	3	1	0
	1730	,,	997·1	929·4	...	25·9	24·1	23·3	28·6	86	...	7·8	...	6·2	0	0	29	5	1	0	1	6	7	5	4	2	0
	2330	,,	999·9	931·6	...	24·0	23·3	22·9	28 1	94	...	7·5	...	5·5	0	0	24	5	1	0	0	4	9	2	3	7	0
Mandla	0830	443	1000·7	951·9	−1·0	25·4	24·2	23·6	29.1	90	+2	7·1	+0·1	4·3	0	0	19	4	0	0	0	6	3	1	5	12	0
	1730	,,	997·5	949·1	...	26·3	24·6	23·7	29·3	84	...	7·0	...	5·2	0	0	22	4	0	0	3	2	6	2	5	9	0
Champa	0830	245	1000·5	973·4	−1·0	26·6	25·2	24·5	30·9	89	+2	7·5	+0·3	5·3	0	0	27	0	1	1	2	2	8	10	3	4	0
	1730	,,	997·6	970·6	...	28·6	25·9	24·7	31·1	80	...	7·6	...	7·2	0	0	29	2	2	0	1	3	8	7	6	2	0
Raigarh	0830	220	1000·4	975·8	−1·0	27·0	25·4	24·8	31·3	87	+1	7·2	0	2·4	0	0	26	0	0	2	2	3	15	4	0	5	0
	1730	,,	997·2	972·9	...	28·0	25·7	24·7	31·1	83	...	7·5	...	1·1	0	0	15	1	2	0	0	1	9	1	1	16	0
Raipur	0530	298	999·7	966·5	...	24·9	24·1	23·9	29·3	93	...	7·4	...	6·0	0	0	26	0	0	0	0	5	13	7	1	5	0
	0830	,,	1001·2	968·1	−1·1	26·3	24·9	24·3	30·4	89	+3	7·3	+1·0	7·4	0	0	30	1	0	0	0	3	13	10	3	1	0
	1130	,,	1000·7	967·9	...	28·6	25·6	24·4	30·4	78	...	7·5	...	9·3	0	2	29	2	0	0	0	2	8	17	2	0	0
	1730	,,	998·1	965·3	...	27·6	25·5	24·5	30·7	84	...	7·5	...	8·1	0	3	24	0	0	0	1	1	9	14	2	4	0
	2330	,,	1000·9	967·7	...	25·3	24·5	24·2	30·0	94	...	7·1	...	7·6	0	0	29	0	0	0	0	4	15	9	1	2	0
Kanker	0830	402	1001·6	957·3	−1·3	25·8	23·9	23·0	28·3	85	+3	6·9	+0·1	3·4	0	0	24	0	0	0	0	0	16	5	3	7	0
	1730	,,	999·0	954·6	...	26·6	24·4	23·4	28·9	83	...	7.5	...	2·4	0	0	21	0	0	0	0	0	19	0	2	10	0
Jagdalpur	0530	553	1000·6	940·0	...	22·9	22·1	21·7	25·9	93	...	7·5	...	2·6	0	1	12	0	0	0	0	1	9	3	0	18	0
	0830	,,	1002·3	941·6	−1·1	24·5	23·0	22·3	26.9	87	+2	7·7	+1·6	4·4	0	0	23	0	0	0	0	0	19	4	0	8	0
	1130	,,	1001·5	941·1	...	26·3	23.5	22·5	26·9	80	...	7·5	...	7·1	0	0	28	0	0	0	1	14	8	5	3	0	
	1730	,,	999·5	939·1	...	25·4	23·2	22·3	26·9	83	...	7·7	...	5·5	0	0	26	0	1	0	0	3	11	7	4	5	0
	2330	,,	1002·1	941·2	...	23·5	22·5	22·1	26·6	92	...	7·2	...	4·5	0	0	22	0	0	0	0	4	12	4	2	9	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Chanda	0830	193	1002·7	980·7	−1·7	25·9	24·3	23·6	29·1	87	+7	6·9	+0·9	9·1	0	0	30	1	0	0	0	3	8	14	4	1	0
	1730	,,	999·6	978·1	...	27·7	25·1	24·0	29·8	82	...	7·4	...	7·7	0	0	30	1	1	0	0	2	8	15	3	1	0
Pusad	0830	334	1003·8	966·6	...	25·4	23·4	22·4	27·1	84	...	7·2	...	5·7	0	0	31	0	0	0	2	0	17	9	3	0	0
	1730	,,	999·9	963·2	...	28·9	25·2	23·5	28·9	74	...	7·4	...	6·5	0	0	31	0	0	0	0	0	15	10	6	0	0
Sironiha	0830	123	1003·4	989·5	−0·7	26·0	24·6	24·0	29·8	89	+2	7·1	+0·3	2·7	0	0	27	0	0	0	2	2	11	8	4	4	0
	1730	,,	1000·0	986·2	...	29·1	25·8	24·4	30·4	77	...	7·0	...	2·6	0	0	23	0	1	1	2	1	10	3	5	8	0
Gujarat Region																											
Deesa	0830	136	1001·1	985·8	−0·9	26·7	25·2	21·6	30·7	89	...	7·0	...	3·4	0	0	27	0	0	0	5	8	10	4	0	4	0
	1730	,,	997·6	982·5	...	30·8	26·0	23·8	29·7	68	...	5·9	...	4·6	0	0	23	0	0	0	2	8	14	3	1	3	0
Radhanpur	0830	30	1000·6	997·3	...	27·2	25·9	25·1	32·4	89	...	6·3	...	9·1	0	0	29	0	0	0	0	1	23	5	0	2	0
	1730	,,	998·0	994·7	...	30·9	26·8	25·0	31·9	72	...	5·2	...	10·2	0	1	29	1	0	0	0	1	23	5	0	1	0
Idar	0830	219	1001·5	976·9	...	25·5	24·6	24·2	30·0	93	...	7·9	...	5·0	0	0	30	0	0	0	2	0	21	6	1	1	0
	1730	,,	998·0	973·8	...	29·0	25·5	24·0	29·7	75	...	7·5	...	5·8	0	0	29	0	0	1	1	0	20	7	0	2	0
Ahmadabad	0230	55	1000·4	994·1	...	26·2	25·0	24·5	30·7	90	...	6·1	...	11·1	0	2	26	0	0	0	0	4	17	7	0	3	0
	0530	,,	1000·4	994·1	...	25·6	24·6	24·2	30·0	92	...	6·1	...	10·3	0	1	27	1	0	0	0	7	15	5	0	3	0
	0830	,,	1001·7	995·4	−2·2	26·8	25·5	24·7	31·1	89	+7	6·8	+0·6	11·5	0	5	24	0	0	0	0	6	14	8	1	2	0
	1130	,,	1001·9	995·7	...	29·5	26·1	24·7	31·1	76	...	6·9	...	13·2	0	6	24	1	0	0	0	2	10	14	3	1	0
	1730	,,	998·5	992·3	...	30·6	26·3	24·2	30·7	70	...	6·2	...	14·3	0	7	24	0	0	0	1	8	12	7	3	0	0
	2330	,,	1001·2	994·9	...	26·9	25·3	24·7	30·9	89	...	6·4	...	12·8	0	3	25	0	0	0	0	5	14	8	1	3	0
Dohad	0830	333	1001·7	963·6	−1·8	25·1	23·7	23·0	28·1	89	0	6·9	−0·3	17·8	0	11	20	0	0	0	0	0	15	16	0	9	0
	1730	,,	998·7	962·1	...	27·9	24·8	23·3	28·6	77	...	6·4	...	16·6	0	4	27	0	0	0	0	0	12	14	0	0	0
Baroda (Aerodrome)	0830	38	1002·1	997·9	...	26·7	25·5	25·0	31·7	90	...	7·1	...	11·0	0	0	30	0	0	0	0	6	17	5	2	1	0
	1130	,,	1002·3	998·1	...	28·8	26·2	25·1	31·9	81	...	7·2	...	10·9	0	2	29	0	0	0	0	2	11	13	5	0	0
	730	,,	999·1	995·0	...	29·6	26·1	24·5	31·1	75	...	6·6	...	17·5	0	13	18	0	0	0	0	5	23	2	1	0	0
Baroda	0530	34	1001·1	997·1	...	25·9	25·2	24·9	31·5	94	...	6·2	...	1·9	0	0	19	0	0	0	0	0	17	2	0	12	0
	0830	,,	1002·4	998·4	−1·5	26·9	25·8	25·3	32·2	91	+3	6·4	−0·2	2·3	0	0	25	0	0	0	0	0	19	4	0	8	0
	1130	,,	1002·7	998·8	...	29·5	26·5	25·3	32·2	78	...	7·0	...	4·6	0	0	31	0	0	0	0	1	20	10	0	0	0
	1730	,,	999·5	995·6	...	30·1	26·2	24·5	30·7	72	...	6·7	...	4·6	0	0	28	0	0	0	0	3	18	6	1	3	0
	2330	,,	1002·1	998·2	...	26·9	25·6	25·0	31·9	90	...	6·8	...	4·2	0	0	28	0	0	0	0	0	25	3	0	3	0
Broach	0830	17	1002·1	1000·1	...	26·6	25·5	25·0	31·7	90	...	6·9	...	5·9	0	1	30	0	0	0	1	5	20	5	0	0	0
	1730	,,	999·5	997·6	...	29·6	25·7	23·9	29·8	72	...	6·4	...	10·4	0	3	28	0	0	0	0	3	27	1	0	0	0
Surat	0530	12	1001·5	1000·2	...	26·3	25·3	24·8	31·5	91	...	7·5	...	5·1	0	0	24	0	0	0	0	4	20	0	0	7	0
	0830	,,	1002·8	1001·5	−1·9	27·1	25·9	25·3	32·4	90	+8	7·3	+0·4	5·6	0	0	26	0	0	0	0	1	22	3	0	5	0
	1130	,,	1003·4	1002·1	...	29·0	26·1	24·9	31·5	79	...	7·5	...	10·4	0	3	26	0	0	0	0	3	24	1	1	2	0
	1730	,,	1000·7	999·4	...	29·0	26·1	24·9	31·5	79	...	6·0	...	10·5	0	0	31	0	0	0	0	2	29	0	0	0	0
	2330	,,	1002·8	1001·5	...	27·1	25·6	25·0	31·5	89	...	6·1	...	9·0	0	0	28	0	0	0	0	2	25	1	0	3	0
Saurashtra and Kutch																											
Bhavnagar Bhimasar	0830	47	1001·3	995·9	...	27·0	...	..	...	...	...	(b) 5·8	...	(b) 16·7	0	8	21	0	0	0	0	7	13	6	3	0	0
	1730	,,	998·6	993·3	...	30·2	...	..	...	...	...	(c) 5·9	...	(c) 22·3	0	17	11	0	0	0	0	4	15	7	2	0	0
Naliya	0830	21	1000·1	997·7	...	27·2	26·2	25·7	33·2	91	...	6·0	...	13·7	0	5	26	0	0	1	0	1	21	7	1	0	0
	1730	,,	998·4	996·0	...	28·8	26·8	25·9	33·6	80	...	6·4	..	24·0	0	22	9	0	0	0	1	0	24	6	0	0	0
Bhuj (Rudramata)	0230	80	999·1	990·1	...	26·1	25·0	24·5	30·7	91	...	3·7	..	15·4	0	9	21	1	0	0	0	0	14	15	0	1	0
	0530	,,	999·1	990·0	...	25·6	24·8	24·4	30·5	93	...	5·0	...	14·1	0	8	21	0	0	0	0	0	14	12	3	2	0
	0830	,,	1000·3	991·3	−2·1	27·1	25·3	24·6	30·7	87	+10	5·8	−0·2	17·4	0	10	21	1	0	0	0	0	16	11	3	0	0
	1130	,,	1000·7	991·7	...	29·5	25·8	24·1	30·0	74	...	6·8	...	22·6	0	20	11	0	0	0	0	0	12	14	5	0	0
	1730	,,	998·0	989·1	...	29·4	25·8	24·3	30·2	75	...	6·6	...	21·7	0	19	12	0	0	0	0	1	17	13	0	0	0
	2330	,,	1000·4	991·3	...	26·4	25·0	24·4	30·5	89	...	3·5	...	16·0	0	7	24	0	0	0	0	1	18	11	1	0	0
Kandla Aerodrome	0830	35	1000·8	996·9	...	27·9	25·8	24·8	31·5	83	...	5·8	...	18·3	0	11	19	1	0	0	0	2	15	8	4	1	0
	1130	,,	1001·0	997·1	...	30·3	26·2	24·4	30·7	72	...	6·7	...	24·3	0	18	12	1	0	0	2	1	17	7	2	1	0
	1730	,,	998·3	994·4	...	30·4	25·9	23·9	29·7	69	...	6·0	...	25·8	0	22	9	0	0	0	0	1	14	14	2	0	0
New Kandla	0830	14	1001·4	999·8	...	27·8	25·8	24·9	31·5	84	...	6·8	...	21·3	0	17	14	0	0	0	2	3	11	13	2	0	0
	1730	,,	999·1	997·5	...	30·6	26·3	24·4	30·7	70	...	5·8	..	32·7	0	30	1	0	0	0	0	0	16	14	1	0	0
Mandvi	0830	9	1000·9	999·8	−1·7	28·1	26·4	25·7	33·0	86	−3	6·4	−0·3	27·5	0	20	11	0	0	0	0	0	27	0	3	0	1
	1730	,,	999·0	997·9	...	29·2	27·3	26·6	34·6	86	...	6·7	...	31·7	0	27	4	0	0	0	0	0	29	1	0	0	1
Surendranagar	0830	74	1001·5	993·1	−1·4	27·5	25·5	24·7	30·9	85	−1	6·5	−0·2	16·6	0	4	27	0	0	0	1	8	12	8	2	0	0
	1730	,,	998·4	990·2	...	31·6	26·2	23·8	29·7	65	...	(a) 6·6	...	(a) 17·1	0	6	24	1	0	0	2	1	13	12	1	0	0
Jamnagar (Aerodrome)	0530	23	999·7	997·1	...	25·8	25·0	24·7	30·9	93	...	4·9	...	17·3	0	11	20	0	0	0	0	3	17	11	0	0	0
	0830	,,	1001·1	998·5	−2·2	27·1	25·7	25·1	31·9	89	+7	6·0	+1·1	20·9	0	17	14	0	0	0	0	3	18	8	2	0	0
	1130	,,	1001·4	998·9	...	29·4	26·0	24·5	30·7	76	...	6·5	...	27·4	0	25	6	0	0	0	0	3	9	18	1	0	0

(a) Mean of 30 days. (b) Mean of 29 days. (c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p.m. of the nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—*Contd.*																											
Jamnagar (Aerodrome)—*Contd.*	1730	23	993·7	996.2	...	29·5	26·0	24·5	30·7	75	...	6.0	...	29·0	0	27	4	0	0	0	0	1	10	19	1	0	0
	2330	"	1001·2	998·6	...	26·7	25·4	24·8	31.5	89	...	4·7	...	19·1	0	14	17	0	0	0	0	1	16	13	1	0	0
Dwarka	0830	11	1001·0	999·7	−2.5	27·2	25·9	25·2	31·9	86	0	6·7	−0·1	23·7	0	26	5	0	0	0	0	0	12	17	2	0	0
	1730	"	999·4	998·1	...	28·7	26·3	25·3	32·2	82	...	5·5	...	26·1	0	26	5	0	0	0	0	0	12	17	2	0	0
Rajkot	0830	138	1001·5	986·1	−1·6	26·3	25·1	24·7	30·9	91	0	5·9	−0·5	21·1	0	17	14	0	0	0	0	0	21	10	0	0	0
	1130	"	1001·6	986·3	...	29.4	25·8	24·2	30·2	74	...	6·6	...	24·5	0	23	8	1	0	0	0	0	16	14	0	0	0
	1730	"	998·8	983·5	...	30·0	25·6	23·7	29·3	70	...	6·2	...	28·5	0	25	6	0	0	0	0	0	13	17	1	0	0
Bhavnagar Aerodrome	0330	11	1002·1	1000·9	−2·1	27·7	25·4	24.4	30·4	83	+10	5·2	−1·1	15·4	0	9	22	0	0	0	0	2	20	9	0	0	0
	1130	"	1002·4	1001·2	...	30·8	26·0	23·9	29·7	67	...	6·2	...	20·4	0	20	11	1	0	0	0	1	19	10	0	0	0
	1730	"	999·8	998·6	...	30·4	26·3	24·5	30·7	72	...	5·7	...	25·9	0	24	7	0	0	0	0	8	21	2	0	0	0
Porbander Aerodrome	0830	7	1001·8	1001·0	...	27·3	25.9	25·3	32·2	90	...	6·7	...	19·7	0	11	20	1	0	0	0	0	17	11	2	0	0
	1130	"	1002·3	1001·5	...	28·8	26·7	25·8	33·4	84	...	6·3	...	23·4	0	19	12	0	0	0	0	0	21	8	2	0	0
	1730	"	1000·0	999·2	...	28·2	26·5	25·7	33·2	86	...	6·5	...	21·7	0	16	15	0	0	0	0	0	23	7	1	0	0
Porbandar	0830	"	1001·8	1001·0	−1.4	27·2	25.6	24·9	31.5	87	−5	7·2	+0·4	17·7	0	10	21	1	0	0	0	1	18	9	2	0	0
	1730	"	1000·2	999·4	...	28·9	26·4	25·4	32·2	83	...	7·6	...	18.4	0	6	25	0	0	0	0	1	19	10	1	0	0
Keshod	0830	51	1002·3	996·5	...	26.6	25.3	24·8	31·1	89	...	5·7	...	18·6	0	14	17	0	0	0	0	3	18	7	3	0	0
	1130	"	1002·9	997.1	...	28·4	25·7	24 5	30·7	80	...	6 1	...	28.5	0	26	5	0	0	0	0	1	17	11	2	0	0
	1730	"	1000·6	994·8	...	27·3	25·5	24·5	30·7	80	..	5·8	...	28·5	0	26	5	0	0	0	0	1	19	10	1	0	0
Mahuva	0830	9	1002·1	1001·1	...	26·4	25·5	25·1	31·9	93	...	7·0	...	12·6	0	1	30	0	0	0	0	1	29	0	1	0	0
	1730	"	1000·2	999·2	...	28·3	26·0	25·0	31·9	84	...	6·9	...	21·1	0	16	15	0	0	0	0	0	29	0	2	0	0
Veraval	0230	8	1001·3	1000·4	...	27·0	25·6	24·9	31·7	89	...	6·8	...	20·2	0	14	17	0	0	0	0	0	10	19	2	0	0
	0530	"	1000·9	1000·0	..	26·9	25·5	24·8	31·5	88	...	7·0	...	21·4	0	17	14	0	0	0	0	0	10	19	2	0	0
	0830	"	1002·4	1001.5	−2·4	27·2	25·6	24·9	31·5	88	+2	7·2	+0·5	18·4	0	10	21	0	0	0	0	0	7	20	4	0	0
	1130	"	1003·1	1002·2	...	28·3	26·1	25·1	32 1	83	...	6·7	...	19·5	0	10	21	0	0	0	0	0	11	16	4	0	0
	1730	"	1000·6	999.7	...	27·9	25·9	25·1	31·9	85	...	7·0	...	19 7	0	11	20	0	0	0	0	0	11	17	3	0	0
	2330	"	1002·5	1001·6	...	27·1	25·7	25·1	31·9	89	...	6 8	...	17 4	0	12	19	0	0	0	0	0	11	17	3	0	0
Konkan																											
Dahanu	0830	5	1003·5	1003·0	−1·2	26·8	25·1	24·4	30·5	86	−2	7·8	+0.7	22·3	0	19	12	0	0	1	2	2	14	12	0	0	0
Bombay (Santa Cruz Aerodrome).	1730	"	1001 7	1001·2	...	27·9	25·5	24·4	30·5	82	...	7·7	...	24·2	0	20	11	0	0	0	0	2	17	12	0	0	0
	0230	15	1003.1	1001·4	...	26·3	25·1	24·6	30·9	90	...	6·7	...	16·6	0	12	16	0	0	0	0	0	12	15	1	3	0
	0530	"	1002·9	1001.3	...	26.2	25·0	24·5	30·7	91	...	6·6	...	16·0	0	10	18	0	0	0	0	1	14	12	1	3	0
	0830	"	1004·4	1002·8	−2·1	27·0	25.5	24·8	31·3	88	+6	7·3	+0·3	17·3	0	11	18	0	0	0	0	0	11	17	1	2	0
	1130	"	1005·0	1003·3	...	28·0	25·9	25·0	31·9	84	...	7·4	...	21·4	0	21	10	0	0	0	0	1	10	19	1	0	0
	1730	"	1002·6	1001·0	...	27·5	25·5	24·7	30·9	85	...	7·3	...	21·1	0	22	9	0	0	0	0	0	9	20	2	0	0
	2330	"	1004·5	1002·9	...	26·5	25·2	24·6	30·9	90	...	6·8	...	18·1	0	13	17	0	0	0	0	0	14	15	1	1	0
Bombay	0830	11	1004·7	1003·5	−1.8	27 2	25·7	25·1	31·9	88	+5	7·1	+0·1	7·5	0	0	31	0	0	0	0	0	12	19	0	0	0
	1130	"	1005·2	1004·0	...	28·5	26·4	25·5	32·6	84	...	6·9	...	5 8	0	0	30	0	0	0	0	0	16	12	2	1	0
	1730	"	1002·8	1001 6	...	27·8	25·9	25·1	31·9	86	...	7·1	...	7·4	0	1	29	1	0	0	0	0	10	18	1	1	0
Alibag	0830	7	1004·7	1003·9	−1·9	27·2	25·6	24·8	31·5	87	+3	7.3	0	18·8	0	14	16	0	0	0	0	1	15	13	1	1	0
Harni	0830	20	1005·2	1002·9	−1.3	26 7	25·5	24·9	31·7	90	+3	7·7	+1.2	17·4	0	9	22	1	0	0	0	7	17	6	0	0	0
	1730	"	1003·6	1001·4	...	27·1	25·5	24·8	31·3	87	...	7·8	...	21.9	0	15	16	0	0	0	0	2	17	12	0	0	0
Ratnagiri	0830	35	1006·1	1002·2	−1·4	26.8	25·3	24·8	31·1	89	...	7·6	...	22.5	0	23	8	0	0	1	0	0	9	19	2	0	0
	1730	"	1004·2	1000.3	...	27·3	25·6	24·9	31·5	86	...	7·3	...	26·2	0	27	4	0	0	0	0	0	6	20	5	0	0
Devgad	0830	36	1006·1	1002·1	−1·1	26·7	25·6	25·1	31·9	91	+1	7·1	+0·2	26·7	0	26	5	0	0	0	0	0	2	22	7	0	0
	1730	"	1004·5	1000·5	...	27·4	26 0	25.4	32·4	89	...	7·4	...	27·9	0	26	5	0	0	0	0	0	0	24	7	0	0
Vengurla	0230	9	1005·7	1004·7	...	26·3	25·1	24·6	30 9	90	...	7·5	...	7·6	0	0	26	0	0	0	0	0	7	18	1	5	0
	0530	"	1005·5	1004·5	...	26·2	25·0	24·5	30·7	90	...	7·5	...	9·0	0	2	26	0	0	0	0	0	7	21	0	3	0
	0830	"	1006·9	1005·9	−1·0	26·5	25·2	24·7	31·1	90	0	7·4	+0·4	6·1	0	0	28	1	0	0	0	4	8	14	1	3	0
	1130	"	1007·4	1006·4	...	27·9	25·9	25·0	31·7	85	...	7·4	...	7·7	0	1	29	0	1	0	0	3	11	14	1	1	0
	1730	"	1005·2	1004·2	...	27.2	25·4	24·6	30·9	86	...	7·5	...	7·3	0	0	29	1	0	0	0	1	11	14	2	2	0
	2330	"	1007·2	1006·2	...	26·4	25·1	24·6	30·9	90	...	7·1	...	8·6	0	1	28	0	0	0	0	0	6	21	2	2	0
Madhya Maharashtra																											
Nandurbar	0830	206	1002·6	979.5	..	25·8	24·2	23·4	28·8	87	...	7.4	...	9·2	0	0	31	0	0	0	0	0	15	15	1	0	0
	1730	"	999.8	976·9	...	27·7	24·5	22·9	27·9	76	...	6·5	...	14·6	0	1	30	0	0	0	0	0	19	12	0	0	0
Jalgaon	0830	201	1002·9	980·3	−1.2	25.8	24·2	23·4	28·8	87	0	6·3	+0.2	10·3	0	1	30	0	0	0	0	5	4	18	4	0	0
	1730	"	999·3	977·1	...	29·2	25·1	23·3	28·6	72	...	6·4	...	16·0	0	4	27	0	0	0	0	0	6	14	11	0	0
Malegaon	0830	437	1002·8	954·4	−1·9	25·1	22.5	21.1	25·2	79	+3	6·7	+0.9	10·5	0	1	27	1	0	0	0	1	8	17	1	3	0
	1730	"	999·5	951·8	...	28·8	23·3	20.5	24·1	62	...	6·7	...	17·5	0	7	24	0	0	0	0	0	6	22	3	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra —*Contd.*																											
Deolali (Aerodrome)	0830	571	1004·5	941·4	...	23·4	22·3	21·8	26·1	91	...	7·0	...	17·3	0	9	22	0	0	0	0	0	19	12	0	0	0
	1730	,,	1002·5	939·7	...	24·3	22·5	21·6	25·9	86	...	6·9	...	19·7	0	10	21	0	0	0	0	0	20	11	0	0	0
Ahmednagar	0830	657	1003·4	931·3	−2·2	23·3	21·2	20·3	23·5	83	+5	5·5	+0·1	5·5	0	0	28	0	0	0	0	0	13	13	2	3	0
	1730	,,	1000·5	929·4	...	27·3	22·0	19·4	22·7	63	...	6·4	...	9·7	0	2	27	0	0	0	0	0	6	19	4	2	.
Poona (Aerodrome)	0230	593	1003·5	937·8	...	21·9	21·2	20·9	24·7	94	...	6·9	...	10·2	0	2	27	0	0	0	0	0	3	25	1	2	0
	0530	,,	1003·2	937·4	...	21·8	21·2	20·8	24·7	95	...	7·0	...	9·8	0	2	28	0	0	0	0	0	2	26	2	1	0
	0830	,,	1004·3	938·9	...	23·2	21·8	21·1	25·0	88	...	7·3	...	13·3	0	5	26	0	0	0	0	0	5	23	3	[illegible]	0
	1130	,,	1004·2	939·2	...	25·6	22·6	21·3	25·2	77	...	7·0	...	23·2	0	20	11	0	0	0	0	0	4	25	2	0	0
	1730	,,	1002·0	936·9	...	24·6	22·2	21·0	25·0	81	...	7·0	...	23·5	0	19	12	0	0	0	0	0	4	26	1	0	0
	2330	,,	1004·8	939·1	...	22·3	21·4	20·8	24·7	91	...	6·8	...	12·6	0	4	26	0	0	0	0	0	3	25	2	1	0
Poona	0530	559	1002·8	941·0	...	22·6	21·3	20·7	24·4	89	...	6·7	...	2·9	0	0	14	0	0	0	0	0	5	7	2	17	0
	0830	,,	1004·2	942·5	−1·8	23·9	22·0	21·2	25·2	85	+4	(a) 7·4	+1·0	(a) 3·5	0	0	18	0	0	0	0	0	10	9	0	12	0
	1130	,,	1004·0	942·7	...	26·2	22·9	21·5	25·6	75	...	7·3	..	6·9	0	0	29	0	0	0	0	0	19	7	3	2	0
	1730	,,	1001·7	940·5	...	25·6	22·4	20·9	24·7	75	...	7·3	...	6·8	0	0	27	0	0	0	0	0	12	14	1	4	[illegible]
	2330	,,	1004·4	942·6	...	23·2	21·5	20·7	24·4	86	...	6·3	...	4·2	0	0	20	0	0	0	0	0	12	8	0	11	0
Jeur	0830	521	1004·3	946·7	−1·8	24·1	22·1	21·1	25·2	83	0	6·9	+1·4	9·8	0	1	29	0	0	0	0	1	8	18	2	2	0
	1730	,,	1000·6	944·0	...	28·3	22·8	20·2	23·5	63	...	6·7	...	25·0	0	18	13	1	0	0	0	0	5	18	7	0	0
Paramati	0830	551	1004·0	945·4	−1·1	24·4	21·7	20·4	24·1	79	−3	6·6	+0·2	8·5	0	0	30	0	0	0	0	1	4	20	5	1	0
	1730	,,	1001·0	941·1	...	27·7	22·5	20·1	23·4	64	...	6·7	...	26·9	0	30	1	0	0	0	0	0	6	21	4	0	0
Sholapur	0530	479	1003·9	950·6	...	22·7	21·5	20·8	24·7	89	...	6·7	...	5·3	0	0	29	0	0	0	0	1	19	7	2	2	0
	0830	,,	1005·1	952·1	−1·1	24·5	22·4	21·4	25·6	83	+8	6·8	+1·4	9·8	0	0	31	1	0	0	0	0	23	6	1	0	0
	1130	,,	1004·3	951·9	...	28·0	23·4	21·2	25·3	67	...	7·5	...	14·9	0	4	27	0	0	0	0	0	9	17	5	0	0
	1730	,,	1001·0	948·8	..	28·6	23·4	20·9	25·0	64	...	7·2	...	17·2	0	7	24	2	0	0	0	0	9	18	2	0	0
	2330	,,	1004·9	951·8	...	24·3	21·9	20·8	24·6	81	...	6·3	...	9·8	0	0	31	0	0	0	0	0	19	11	1	0	0
Miraj	0830	554	1005·7	944·5	−1·4	23·6	21·9	21·1	25·0	86	+1	6·0	−1·1	...	0	0	23	0	0	0	0	0	1	19	3	8	0
	1730	,,	1003·2	942·6	...	26·0	22·3	20·6	24·1	73	...	5·7	...	...	0	0	29	0	0	0	0	0	3	24	2	2	0
Kolhapur	0530	570	1004·3	941·1	...	22·0	21·2	20·8	24·6	93	...	7·1	...	15·4	0	4	27	0	0	0	0	0	5	25	1	0	0
	0830	,,	1005·6	942·5	−1·0	22·7	21·7	21·2	25·2	91	+1	7·5	+0·9	16·3	0	4	27	0	0	0	0	0	4	26	1	0	0
	1130	,,	1005·2	942·6	...	25·1	22·5	21·4	25·3	80	...	7·2	...	22·0	0	19	12	0	0	0	0	0	4	27	0	0	0
	1730	,,	1003·4	940·7	...	24·0	22·1	21·2	25·3	85	...	7·3	...	18·5	0	10	21	0	0	0	0	0	1	27	3	0	0
	2330	,,	1005·9	942·8	...	22·3	21·4	21·0	24·7	93	...	7·0	...	14·4	0	3	28	0	0	0	0	0	4	27	0	0	0
Marathwada																											
Aurangabad	0830	581	1004·1	940·0	−1·7	23·6	22·0	21·2	25·3	87	+4	6·9	−0·1	12·8	0	6	25	0	0	0	0	0	12	19	0	0	0
	1730	,,	1000·2	937·0	...	26·9	22·9	21·1	25·0	71	...	6·9	...	14·2	0	8	23	0	0	0	0	1	6	23	1	0	0
Aurangabad (Chikalthan)	0230	579	1002·6	938·4	...	22·1	21·2	20·7	24·4	92	...	6·5	...	5·7	0	0	18	0	0	0	0	0	1	16	1	13	0
	0530	,,	1002·4	938·2	...	21·8	20·9	20·5	24·1	93	...	6·7	...	7·2	0	0	23	0	0	0	0	0	4	18	1	8	0
	0830	,,	1003·5	939·6	...	23·6	22·0	21·3	25·3	87	...	7·1	...	9·2	0	1	27	0	0	0	0	0	5	23	0	3	0
	1130	,,	1003·1	939·8	...	26·3	23·0	21·5	25·6	75	...	7·2	...	12·9	0	5	26	0	0	0	0	0	5	26	0	0	0
	1730	,,	999·7	936·8	...	27·0	21·1	21·3	25·3	72	...	7·4	...	15·0	0	11	20	0	0	0	0	0	6	21	4	0	0
	2330	,,	1003·7	939·6	...	23·0	21·6	21·0	24·7	89	...	6·8	...	10·0	0	0	29	0	0	0	0	0	3	25	1	2	0
Parbhani	0830	423	1004·0	957·0	−0·3	24·4	22·4	21·4	25·5	84	+3	7·0	+0·9	11·6	0	1	30	0	0	0	0	0	9	21	1	0	0
	1730	,,	999·8	953·6	...	28·4	23·9	21·5	26·1	67	...	7·2	...	11·6	0	4	26	2	0	0	0	0	3	21	4	1	0
Nanded	0830	358	1003·9	965·9	...	25·0	22·9	22·0	26·3	84	...	6·1	...	(k) 4·7	0	0	20	0	0	0	0	4	10	15	1	1	0
	1730	,,	1000·7	961·3	...	28·7	24·6	22·6	27·6	71	...	5·3	...	(l) 2·5	0	0	19	0	0	0	0	1	14	10	6	0	0
Bir	0830	519	1004·4	947·1	...	24·4	22·5	21·6	25·8	84	...	3·6	...	8·3	0	0	31	0	0	0	0	1	18	6	6	0	0
	1730	,,	1000·7	944·3	...	27·8	23·3	21·3	25·3	70	...	4·0	...	11·6	0	0	30	0	0	0	1	3	7	14	5	1	0
Vidarbha																											
Gondia	0830	313	1001·4	966·6	−1·1	25·9	24·6	24·0	30·0	89	+3	7·6	+0·9	9·2	0	1	30	4	1	0	0	2	15	3	4	0	2
	1730	,,	998·8	964·1	...	27·4	25·1	24·0	30·0	82	...	7·2	...	9·4	0	0	31	3	0	0	0	1	14	8	5	0	0
Nagpur (Sonegaon)	0230	310	1000·2	965·6	...	24·6	23·9	23·5	28·9	94	...	7·0	...	6·8	0	0	27	0	0	0	0	2	11	12	2	4	0
	0530	,,	1000·3	965·6	...	24·3	23·6	23·3	28·6	94	...	7·5	...	7·2	0	1	23	0	0	0	0	0	11	11	2	7	0
	0830	,,	1001·8	967·3	−1·5	25·7	24·1	23·3	28·6	87	+5	7·1	+0·8	12·6	0	2	29	1	0	0	0	0	7	15	8	0	0
	1130	,,	1001·5	967·3	...	28·1	24·7	23·2	28·3	75	...	7·4	...	15·2	0	11	19	0	0	0	0	1	3	17	9	1	0
	1730	,,	998·6	964·4	...	27·7	24·7	23·4	28·8	79	...	7·0	...	10·8	0	0	29	1	0	0	0	0	11	15	2	2	0
	2330	,,	1001·3	966·8	...	25·1	24·1	23·6	29·1	92	...	7·2	...	6·7	0	0	28	0	1	0	0	1	17	6	3	3	0
Amraoti	0830	370	1002·4	961·2	−1·7	24·7	23·4	22·7	27·6	89	+6	7·0	+0·8	9·4	0	3	28	0	1	0	0	0	22	7	1	0	0
	1730	,,	998·6	958·0	...	28·1	24·3	22·5	27·2	73	...	6·2	...	10·8	0	1	30	2	0	0	2	0	12	8	7	0	0
Akola Aerodrome	0530	309	1001·0	966·4	...	23·9	22·6	21·9	26·3	88	...	7·1	...	4·7	0	1	26	0	0	0	0	0	1	26	0	4	0
	2330	,,	1001·7	967·2	...	25·3	23·4	22·6	27·2	86	...	6·6	...	5·3	0	1	27	0	0	0	0	0	1	27	0	3	0

(a) Mean of 30 days. (k) Mean of 20 days. (l) Mean of 19 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidharbha—*Contd.*																											
Akola	0830	282	1002·6	971·1	−1·7	25·4	23·6	22·7	27·6	85	+5	6·0	−0·2	3·9	0	0	26	0	0	0	0	0	2	24	0	5	0
	1130	,,	1002·3	971·1	...	28·4	24·5	22·7	27·6	72	...	7·2	...	5·4	0	0	31	0	0	0	0	0	3	28	0	0	0
	1730	,,	998·6	967·7	...	29·4	24·7	22·4	27·1	68	...	7·2	...	4·5	0	0	31	0	0	0	0	1	1	24	5	0	0
Bramhapuri	0830	229	1002·2	976·5	...	25·6	24·3	23·8	29·3	90	...	6·7	...	6·6	0	0	29	0	0	0	0	2	10	12	4	2	1
	1730	,,	999·1	973·7	...	27·6	25·4	24·4	30·5	83	...	6·9	...	6·9	0	0	31	1	1	0	0	2	10	13	2	0	2
Buldana	0830	650	1002·6	931·1	−1·1	22·9	21·8	21·1	25·0	90	+4	6·9	+0·3	3·2	0	0	31	0	1	0	3	0	8	0	19	0	0
	1730	,,	998·6	928.6	...	26·7	24·4	23·4	28·8	83	..	7·4	...	2·3	0	0	31	0	0	0	0	0	6	0	25	0	0
Yeotmal	0830	451	1002·1	952·2	−1·2	24·6	22·9	22·0	26·6	86	+1	6·8	0	17·4	0	10	21	1	0	0	0	2	9	15	4	0	0
	1730	,,	998·9	949·6	...	27·4	24·0	22·3	27·1	75	...	7·4	...	15·2	0	8	23	0	0	0	0	3	3	20	5	0	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1002·0	1001·4	−0·9	28·0	26·5	25·9	33·4	89	+8	3·6	−1·6	12·6	0	8	23	0	0	0	0	2	13	8	2	1	0
	1730	,,	999·2	998·6	...	28·7	27·1	26·5	34·6	88	...	3·4	...	13.9	0	7	24	0	0	0	0	1	29	0	1	0	0
Vishakhapatnam	0230	3	1000·6	1000·2	...	26·9	25·2	24·4	30·7	86	...	5·5	...	8·7	0	4	14	0	0	0	0	0	17	1	0	13	0
	0530	,,	1000·9	1000·5	...	26·7	24·9	24·1	30·0	86	...	6·8	...	7·0	0	2	17	0	0	0	0	2	14	3	0	12	0
	0830	,,	1002·5	1002·1	−1·1	28·5	25·6	24·3	30·4	79	−5	6·8	+0·3	12·9	0	8	20	0	0	0	0	3	17	7	1	3	0
	1130	,,	1001·7	1001·3	...	31·2	26·5	24·5	30·7	68	...	6·3	...	17·5	0	12	19	0	0	0	0	6	20	5	0	0	0
	1730	,,	999·3	998·9	...	29·8	26·3	24·8	31·3	75	...	7·1	...	15·5	0	10	20	0	0	2	0	12	11	3	2	1	0
	2330	,,	1001·9	1001·5	...	27·3	25·2	24·3	30·4	84	...	5.5	...	7·2	0	2	20	0	0	0	0	3	16	3	9	9	0
Kakinada	0830	8	1003·4	1002·5	−1·1	28·1	25·7	24·6	31·1	82	+2	5·6	−0·3	12·4	0	0	31	0	0	0	0	0	31	0	0	0	0
	1730	,,	1000·2	993·3	...	30·5	26·6	25·0	31·5	73	...	5·6	...	11·6	0	0	31	0	0	0	2	0	26	0	3	0	0
Nidadavole	0830	12	1003·7	1002·3	...	26·9	25·3	24·7	31·1	88	...	7·2	...	7·6	0	1	30	0	0	0	0	0	14	15	2	0	0
	1730	,,	1000·3	998·6	...	29·7	26·4	25·0	31·9	77	...	7·0	...	11.3	0	3	28	1	0	0	0	1	9	14	6	0	0
Rentachintala	0830	106	1004·5	992·6	...	27·7	24·3	22·6	27·6	75	+8	6·7	0	4·7	0	0	31	0	0	0	0	0	4	27	0	0	0
	1730	,,	1000·5	998·8	...	31·2	25·3	22·5	27·4	61	...	6·5	..	3·8	0	0	30	1	1	0	0	1	3	22	2	1	0
Gannavaram	0230	24	1002·3	999·6	...	26·1	25·0	24·5	30·7	91	...	7·2	...	10·3	0	3	26	0	0	0	0	3	15	9	2	2	0
	0530	,,	1002·6	999·8	...	25·6	24·5	24·1	29·8	91	...	7·2	...	9·0	0	2	28	0	0	0	0	1	8	16	5	1	0
	0830	,,	1004·2	1001·5	−0·4	27·3	25·1	24·1	30·0	83	+4	6·8	+0·4	12·1	0	7	24	0	0	0	0	0	8	17	6	0	0
	1130	,,	1003·8	1001·1	...	29·8	25·8	24·0	30·0	72	...	6·6	...	21·4	0	21	10	1	0	0	0	0	2	16	12	0	0
	1730	,,	1000·6	998·0	...	30·2	25·9	24·1	30·0	71	...	6·5	...	12·7	0	6	25	3	1	0	0	1	4	13	9	0	0
	2330	,,	1003·5	1000·8	...	27·1	25·6	24·9	31·5	88	...	6·1	...	9·1	0	1	26	1	1	0	0	4	11	10	0	4	0
Nagarjunakonda	0830	126	...	...	...	28·4	23·8	21·5	25·6	67	...	5·9	...	23·2	0	18	13	0	0	0	0	0	2	26	3	0	0
	1730	,,	...	...	...	31·3	21·9	21·8	26·1	58	...	5.7	...	19·1	0	16	15	2	0	0	0	0	3	15	11	0	0
Masulipatam	0830	3	1004·3	1004·0	−1·0	27·2	25·3	24·5	30·7	85	+6	6.9	+1.1	4·1	0	0	30	0	0	0	0	0	10	20	0	1	0
	1730	,,	1001·1	1000·8	...	29·5	26·1	24·6	31·1	76	...	7.0	...	4·8	0	0	30	0	0	0	1	9	4	12	4	1	0
Ongole	0830	12	1004·7	1003·4	...	28·3	24·6	22·8	27·9	73	...	5·8	...	5·0	0	0	30	0	1	0	0	0	13	10	6	1	0
	1730	,,	1000·9	999·6	...	32·6	25·7	22·3	27·3	55	...	6·0	...	4·6	0	0	31	3	0	0	0	0	4	15	9	0	0
Nellore	0530	20	1003·6	1001·4	...	26·0	24·4	23·6	29·3	87	...	7·2	...	2·1	0	0	21	0	0	0	1	0	4	15	1	10	1
	0830	,,	1005·2	1003·0	−1·0	27·9	24·9	23·6	28·9	78	+13	6·7	+0·7	4·1	0	0	28	0	0	0	0	1	3	23	1	3	0
	1130	,,	1004·8	1002·6	...	31·4	25·4	22·6	27·6	60	...	6·2	...	6.8	0	0	31	0	0	0	0	0	5	25	1	0	0
	1730	,,	1001·6	999·4	...	32·1	26·1	23·4	28·9	61	...	6·8	...	3·9	0	0	29	1	2	0	4	2	5	13	2	2	0
	2330	,,	1004·8	1002.6	...	26·9	25·0	24·2	30·0	85	...	6·4	...	3·5	0	0	24	0	0	0	1	0	7	16	0	7	0
Telangana																											
Ramagundam	0830	156	1003·1	985·5	−0·8	26·0	24·1	23·2	28·4	84	+3	7·2	+0·5	3·2	0	0	18	2	0	0	0	0	1	11	4	13	0
	1730	,,	999·6	982·4	...	29·7	25·6	23·8	29·3	72	...	7·0	...	2·8	0	0	17	2	0	0	0	2	3	8	2	14	0
Nizamabad	0830	381	1004·1	961.5	−1·2	24·8	22·7	21·6	25·9	83	+4	6·6	+1·5	1·3	0	0	19	0	0	0	0	3	16	0	0	12	0
	1730	,,	1001·1	958·3	...	28·0	24·3	22·6	27·3	74	...	6·9	...	1·2	0	0	16	0	0	0	0	2	12	1	1	15	0
Hanamkonda	0830	269	1003·7	973·7	−1·4	26·1	23·6	22·3	26·9	80	+5	5·9	+0·1	2·7	0	0	31	1	0	0	0	0	1	23	6	0	0
	1730	,,	...	...	...	28·9	24·8	22·9	27·9	71	...	6·3	...	3·3	0	0	31	4	0	0	0	0	1	14	12	0	0
Hakimpet (Aerodrome)	0530	613	1003·2	935·6	...	22·1	20·9	20·3	23·8	89	...	7·1	...	18·9	0	11	20	0	0	0	0	0	7	22	2	0	0
	0830	,,	1004·0	936·5	...	23·2	21·3	20·3	23·8	84	...	7·2	...	22·2	0	20	11	0	0	0	0	0	3	24	4	0	0
	1130	,,	1003·5	936·6	...	26·2	22·6	20·3	24·7	73	...	7·1	...	24·4	0	24	7	0	0	0	0	0	3	22	6	0	0
	1730	,,	1001·1	934·5	...	26·5	22·5	20·8	24·4	72	...	6.8	...	18·0	0	10	21	0	0	0	0	0	3	18	10	0	0
Bhadrachalam	0830	111	1003·5	991·3	−0·5	27·7	24·9	23·7	29·1	81	−3	7·4	+0·5	5·3	0	0	31	1	1	8	0	4	5	9	3	0	0
	1730	,,	1000·1	988·0	...	30·1	25·6	23·7	29·3	70	...	7·7	...	3·7	0	0	31	0	2	4	0	6	1	10	8	0	0
Hyderabad (Begampet)	0230	545	1002.7	942.6	...	23·4	21·5	20·6	24·1	85	...	6·3	...	16·5	0	12	18	0	0	0	0	0	6	19	5	1	0
	0530	,,	1003·2	942·9	...	22·6	21·1	20·4	23·8	87	...	6·7	...	16·7	0	10	21	0	0	0	0	0	3	22	6	0	0
	0830	,,	1004·5	944·4	−0·8	23·7	21·6	20·6	24·1	83	+3	7·2	+1·1	19·1	0	16	15	0	0	0	0	0	2	21	8	0	0
	1130	,,	1003·8	944.3	...	26·7	22·6	20·6	24·1	70	...	7·3	...	20·9	0	21	10	0	0	0	0	0	1	22	8	0	0
	1730	,,	1000.4	941·2	...	27·2	22·7	20·6	23·8	69	...	7.1	...	18.1	0	18	12	1	0	0	0	0	5	15	9	1	0
	2330	,,	1003·9	933·9	...	24·3	22·1	21·0	24·7	82	...	6·2	...	7·6	0	9	21	0	0	0	0	1	7	17	5	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.*																											
Khammam	0830	112	1003·7	991·2	...	26·8	24·8	23·9	27·9	84	...	6·9	...	10·1	0	1	30	0	0	0	0	1	6	22	2	0	0
	1730	,,	999·7	987·5	...	29·6	25·8	24·1	30·0	73	...	6·9	...	7·7	0	1	24	3	0	0	0	0	2	17	3	6	0
Mahabubnagar	0830	505	1005·2	919·2	...	23·9	22·1	21·2	25·2	85	...	7·0	...	9·3	0	0	31	0	0	0	0	1	6	19	5	0	0
	1730	,,	1000·9	945·9	...	27·8	23·4	21·4	25·5	69	...	7·0	...	6·3	0	0	31	2	0	0	0	0	3	16	10	0	0
Rayalaseema																											
Kurnool	0830	281	..	.	...	25·8	22·9	21·3	25·6	77	+3	6·3	+0·4	11·3	0	1	30	0	0	0	0	1	5	23	2	0	0
	1730	,,	1001·3	970·5	...	30·3	23·9	20·7	24·4	57	...	5·6	...	19·0	0	12	18	1	0	0	0	0	9	22	7	1	0
Anantapur	0530	350	1004·7	955·6	...	24·5	21·4	19·7	22·9	75	...	6·2	...	13·6	0	8	20	0	0	0	0	0	1	26	1	3	0
	0830	,,	1005·9	967·0	−0·5	26·5	22·1	19·7	22·9	66	−8	7·4	−1·2	19·0	0	16	15	0	0	0	0	0	4	26	1	0	0
	1130	,,	1004·9	966·6	...	30·3	22·8	18·7	21·6	50	...	7·3	...	21·7	0	24	7	0	0	0	0	0	8	30	1	0	0
	1730	,,	1001·6	963·4	...	30·6	22·8	18·5	21·4	50	...	7·1	...	22·1	0	23	8	1	1	0	0	0	0	28	1	0	0
	2330	,,	1005·7	966·9	...	26·3	22·0	19·6	22·9	67	...	5·8	...	20·6	0	21	9	0	0	0	0	0	1	29	0	1	0
Cuddapah	0830	130	1006·2	991·5	−1·2	27·7	23·9	22·1	26·6	72	+4	6·0	+0·1	2·3	0	0	13	0	0	0	0	0	0	13	0	12	0
	1730	,,	1001·5	987·1	...	31·9	24·9	21·5	25·6	56	...	5·8	...	4·7	0	0	23	0	1	0	0	0	0	15	7	8	0
Arogyavaram	0830	701	1006·4	929·7	...	23·5	20·7	19·3	22·1	77	...	7·0	...	12·8	0	3	28	2	0	0	0	1	1	21	6	0	0
	1730	,,	1002·0	926·7	...	28·5	22·5	19·7	22·4	62	...	7·0	...	15·0	0	7	24	5	0	0	0	0	4	17	5	0	0
Madras State																											
Madras	0830	6	1006·1	1005·4	...	27·2	24·7	23·6	28·9	81	...	6·0	...	7·7	0	0	31	0	0	0	0	4	22	5	0	0	0
Madras (Minambakkam)	0230	16	1004·7	1003·0	...	25·7	24·1	23·4	28·8	87	...	6·6	...	9·8	0	2	29	1	0	0	0	5	13	11	1	0	0
	0530	,,	1004·7	1002·9	...	25·4	23·9	23·1	28·3	88	...	7·2	...	7·7	0	0	29	1	0	0	1	7	11	9	0	2	0
	0830	,,	1006·3	1004·5	−0·7	27·4	24·7	23·5	28·9	80	+12	6·9	+1·5	8·8	0	0	30	0	0	0	0	5	17	7	1	1	0
	1130	,,	1005·9	1004·2	...	30·6	25·3	22·9	27·9	64	...	5·8	...	16·1	0	9	22	0	0	0	0	1	16	11	2	0	1
	1730	,,	1002·7	1001·0	...	30·0	26·3	24·7	31·1	74	...	6·5	...	10·8	0	0	31	0	0	0	8	15	8	0	0	0	0
	2330	,,	1006·1	1004·3	...	26·2	24·6	23·9	29·7	87	...	6·5	...	13·2	0	7	24	0	1	0	0	14	8	7	1	0	0
Vellore	0530	214	1005·0	981·0	...	25·1	23·3	22·3	27·1	85	...	7·5	...	1·4	0	0	13	0	0	0	0	0	1	12	0	18	0
	0830	,,	1006·3	982·3	−0·7	27·1	24·0	22·5	27·3	76	+6	6·8	+2·3	3·2	0	0	29	0	0	0	0	0	12	16	1	2	0
	1130	,,	1005·6	981·9	...	30·8	25·7	23·4	28·9	65	...	6·9	...	5·0	0	0	31	0	0	0	0	0	8	23	0	0	0
	1730	,,	1001·9	978·3	...	30·2	25·3	23·0	28·3	67	...	6·7	..	3·4	0	0	26	1	1	1	0	4	12	7	0	5	0
	2330	,,	1006·2	982·2	...	26·4	24·3	23·3	28·6	84	...	7·3	..	1·7	0	0	11	0	0	1	0	0	3	7	0	20	0
Tambaram (Aerodrome)	0830	29	1006·2	1002·9	...	27·5	24·8	23·6	28·9	80	...	6·8	.	13·5	0	1	29	0	0	0	1	3	11	14	1	1	0
	1730	,,	1002·7	999·5	...	30·2	26·4	24·7	31·3	74	...	6·2	...	19·0	0	11	20	0	0	0	9	16	2	4	0	0	0
Tiruppattur	0830	390	1006·6	963·3	...	25·7	22·7	21·1	25·2	76	...	6·5	...	4·1	0	0	28	18	4	2	0	1	1	1	1	3	0
	1730	,,	1002·1	959·8	...	31·0	23·9	20·2	23·8	54	...	6·9	...	9·2	0	1	30	15	0	0	1	5	2	7	1	0	0
Cuddalore	0530	12	1004·8	1003·5	...	25·4	21·2	23·6	29·3	90	...	7·0	..	3·4	0	0	15	0	0	0	2	4	9	0	0	16	0
	0830	,,	1006·7	1005·4	−0·9	27·6	24·9	23·7	29·3	80	−7	6·9	+1·9	5·9	0	0	28	0	0	0	1	5	22	0	0	3	0
	1130	,,	1006·2	1004·9	...	31·6	25·8	23·2	28·4	61	...	6·3	...	8·5	0	0	31	0	0	0	1	3	25	2	0	0	0
	1730	,,	1002·8	1001·5	...	29·3	25·9	24·3	30·5	75	...	6·1	...	9·0	0	1	29	0	1	0	23	0	5	1	0	1	0
	2330	,,	1006·3	1005·0	...	26·1	24·5	23·8	29·5	87	...	7·3	...	7·4	0	2	18	2	0	0	5	8	5	0	0	11	0
Kallakkurichchi	0830	127	1005·4	992·1	...	28·0	24·8	23·4	28·6	77	...	5·7	...	7·5	0	0	26	0	1	0	1	2	20	2	0	5	0
	1730	,,	1002·0	988·1	...	31·7	26·3	23·9	29·8	65	...	6·7	...	9·7	0	0	29	0	1	1	5	1	19	1	1	2	0
Salem	0530	278	1005·0	974·7	...	24·1	22·3	21·4	25·5	85	...	7·2	...	2·8	0	0	23	0	0	0	0	7	11	5	0	8	0
	0830	,,	1007·4	976·3	−0·9	25·7	22·9	21·5	25·6	78	0	6·8	+1·6	5·2	0	0	30	0	0	0	0	19	7	4	0	1	0
	1130	,,	1006·3	975·7	...	30·1	23·9	20·7	24·6	57	...	6·7	...	5·4	0	0	29	0	0	0	0	10	9	10	0	2	0
	1730	,,	1003·0	972·5	...	30·0	23·9	20·7	24·7	59	...	7·5	..	5·2	0	0	26	0	1	3	0	1	4	16	0	5	0
	2330	,,	1007·2	976·1	...	25·6	22·8	21·4	25·5	79	...	6·4	...	2·8	0	0	19	0	0	0	0	7	6	6	0	12	0
Coimbatore (Pilamedu)	0530	399	1006·6	981·9	...	22·3	21·5	21·2	25·0	93	...	6·2	...	17·5	0	8	23	0	0	0	0	3	25	3	0	0	0
	0830	,,	1007·8	963·4	...	24·5	22·5	21·5	25·6	84	...	5·7	...	23·4	0	21	10	0	0	0	0	2	27	2	0	0	0
	1130	,,	1007·0	963·1	...	28·5	23·8	21·4	25·6	66	...	5·7	...	33·9	0	27	4	0	0	0	0	2	26	3	0	0	0
	1730	,,	1004·7	960·6	...	26·5	22·9	21·1	25·0	73	...	6·3	...	40·1	0	31	0	0	0	0	0	3	24	4	0	0	0
	2330	,,	1008·1	963·4	...	23·1	22·1	21·6	25·8	91	...	5·8	...	27·7	0	28	3	0	0	0	0	4	26	1	0	0	0
Coimbatore	0830	409	1007·9	962·4	−0·7	24·7	22·1	20·8	24·4	79	−2	6·6	+2·3	22·6	0	25	6	0	0	0	0	12	15	4	0	0	0
	1730	,,	1004·7	959·7	...	26·6	22·6	20·6	24·1	70	...	7·5	...	23·6	0	25	6	0	0	0	0	9	16	6	0	0	0
Nagapattinam	0830	9	1007·5	1006·4	−0·7	28·4	24·7	22·9	27·9	73	+3	6·5	+1·9	9·5	0	0	31	0	0	0	0	2	16	13	0	0	0
	1730	,,	1003·6	1002·5	...	30·9	26·0	23·9	29·7	67	...	5·5	...	17·2	0	10	21	0	0	0	6	12	10	3	0	0	0
Tiruchchirappalli	0230	88	1005·5	995·7	...	26·7	23·2	21·4	25·6	73	...	4·8	...	24·8	0	20	6	0	0	0	0	0	1	25	0	5	0
	0530	,,	1005·9	996·0	...	26·3	22·9	21·1	25·2	74	...	6·4	...	21·5	0	19	12	0	0	0	0	0	1	28	2	0	0
	0830	,,	1007·4	997·5	−0·9	28·3	23·5	21·1	25·0	66	+2	6·0	+1·4	24·3	0	22	9	0	0	0	0	1	1	27	2	0	0
	1130	,,	1006·6	996·9	...	32·3	24·4	20·4	24·1	50	...	5·6	...	28·5	0	24	7	0	0	0	0	1	3	24	3	0	0
	1730	,,	1003·4	993·7	...	31·5	24·1	20·3	24·0	53	...	6·5	...	30·1	0	23	7	0	0	0	1	3	6	19	1	1	0
	2330	,,	1007·3	997·4	...	27·1	23·3	21·4	25·5	72	...	5·3	...	23·0	0	15	13	0	0	0	0	2	3	20	3	3	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Vedaranniyam	0830	4	1007·9	1007·4	..	29·4	25·4	24·0	29·1	72	..	5·9	..	9·7	0	2	28	0	0	0	0	5	21	4	0	1	0
	1730	,,	1004·1	1003·6	..	29·8	26·3	24·8	31·5	75	..	5·4	..	14·5	0	3	28	0	0	0	1	15	15	0	0	0	0
Alampattinam	0830	6	1007·3	1006·6	..	29·2	24·4	22·1	26·6	66	..	6·1	..	7·5	0	1	29	0	0	0	0	2	16	8	4	1	0
	1730	,,	1004·1	1003·4	..	29·9	26·2	24·8	31·1	74	..	5·6	..	26·6	0	27	4	0	0	0	0	17	14	0	0	0	0
Madurai	0830	133	1007·5	992·6	−0·7	28·6	23·7	21·3	25·3	65	+3	6·8	+1·6	4·5	0	0	30	3	3	1	0	0	6	2	15	1	0
	1730	,,	1003·6	988·9	..	31·7	24·1	20·3	23·8	52	..	7·4	..	9·0	0	0	31	2	0	1	4	1	13	2	8	0	0
Madurai Aerodrome	0530	131	1006·1	991·3	..	25·6	22·7	21·2	25·3	77	..	5·6	..	4·8	0	3	9	2	0	0	0	1	1	7	1	19	0
	0830	,,	1007·3	992·6	..	28·9	23·5	20·7	24·6	62	..	6·2	..	10·7	0	4	22	10	2	0	0	1	1	11	1	5	0
	1130	,,	1006·7	992·3	..	32·8	24·1	19·7	22·9	46	..	6·3	..	13·0	0	10	15	2	1	0	1	1	3	16	1	6	0
	1730	,,	1003·5	988·9	..	31·0	24·0	20·5	24·1	55	..	6·9	..	22·8	0	20	10	1	1	1	1	6	1	19	0	1	0
Tondi	0830	5	1007·7	1007·1	..	29·2	25·2	23·4	28·8	71	..	5·8	..	3·9	0	2	6	0	0	0	7	0	1	0	0	23	0
	1730	,,	1004·3	1003·7	..	29·5	26·5	25·2	32·1	79	..	6·0	..	33·6	0	27	3	0	0	0	11	14	5	0	0	1	0
Pamban	0830	11	1007·7	1006·4	−0·7	28·3	25·8	24·8	31·1	82	+6	3·6	+0·7	6·3	0	0	29	0	0	0	0	7	22	0	0	2	0
	1730	,,	1004·6	1003·3	..	29·0	26·5	25·5	32·6	81	..	3·9	..	8·5	0	1	29	0	0	0	1	11	15	0	0	1	0
Tuticorin	0830	4	1008·2	1007·8	+0·1	30·0	23·8	20·6	24·4	58	+1	4·3	+0·7	17·1	0	15	15	0	0	0	0	0	5	24	1	1	0
	1730	,,	1004·7	1004·3	..	31·4	24·0	20·2	25·8	52	..	6·3	..	26·3	0	29	2	0	1	0	1	1	2	26	0	0	0
Palayankottai	0830	51	1008·0	1002·3	−0·1	29·9	23·6	20·3	24·0	57	+1	5·7	+1·2	10·9	0	8	18	1	0	0	0	1	2	21	1	5	0
	1730	,,	1005·0	999·3	..	30·9	23·7	19·9	23·4	52	..	6·7	..	17·9	0	15	16	1	0	0	0	0	0	28	2	0	0
Kanniyakumari	0830	37	1003·9	1004·6	..	25·8	24·1	23·3	28·6	86	..	5·8	..	18·3	0	17	14	0	0	0	0	0	1	28	2	0	0
	1730	,,	1006·4	1002·3	..	26·7	24·4	23·3	28·6	82	..	6·0	..	17·3	0	11	20	0	0	0	0	0	3	26	2	0	0
Coastal Mysore																											
Karwar	0830	4	1007·6	1007·1	−0·6	26·7	25·1	24·4	30·5	87	−2	7·3	+0·1	18·5	0	16	15	0	2	1	1	0	3	12	5	0	7
	1730	,,	1005·8	1005·3	..	27·1	25·5	24·7	31·3	87	..	7·2	..	20·2	0	18	13	1	0	0	0	0	6	14	8	0	2
Honavar	0830	26	1007·8	1005·0	−0·9	25·6	24·5	24·0	29·8	91	0	7·8	+1·1	7·0	0	0	29	0	1	4	1	3	6	3	1	2	0
	1730	,,	1006·0	1003·1	..	26·4	24·9	24·2	30·4	88	..	7·6	..	8·4	0	2	26	1	0	0	0	0	9	15	3	3	0
Mangalore (Bajpe)	0230	102	1007·2	995·6	..	24·2	23·7	23·5	28·9	96	..	7·7	..	7·7	0	2	22	0	0	3	4	1	2	11	3	7	0
	0530	,,	1007·0	995·4	..	24·1	23·6	23·3	28·6	95	..	7·0	..	8·0	0	1	24	0	0	4	4		0	11	5	6	0
	0830	,,	1008·5	996·9	..	24·8	24·1	23·8	29·3	94	..	7·5	..	7·4	0	1	26	0	0	3	4	2	0	12	6	4	0
	1130	,,	1008·6	997·1	..	26·8	25·1	24·4	30·4	87	..	7·3	..	11·3	0	3	27	0	0	0	1	2	4	15	8	1	0
	1730	,,	1006·5	993·0	..	25·9	24·5	23·8	29·7	89	..	7·6	..	12·3	0	2	29	2	0	0	0	0	1	15	13	0	0
	2330	,,	1008·8	997·3	..	24·4	23·8	23·5	28·9	95	..	7·5	..	6·7	0	0	23	1	0	3	3	0	1	14	1	8	0
Mangalore	0830	22	1008·6	1006·1	−1·2	25·6	24·5	24·0	29·8	91	+1	7·5	+0·8	3·4	0	0	31	3	0	5	1	2	8	8	4	0	0
	1730	,,	1006·6	1004·1	..	26·9	25·1	24·3	30·4	86	..	7·5	..	4·6	0	0	31	2	1	0	0	0	7	14	7	0	0
Interior Mysore (North)																											
Bidar	0830	664	1004·7	931·5	..	22·3	21·2	20·5	24·4	89	−6	7·6	+2·2	21·8	0	23	8	0	0	0	0	0	21	9	1	0	0
	1730	,,	1000·6	928·5	..	26·5	22·4	20·5	24·1	72		7·2	..	18·2	0	14	17	0	0	0	0	0	14	12	5	0	0
Gulbarga	0830	458	1005·1	954·3	−1·2	24·6	22·3	21·3	25·3	82	−4	7·6	+2·1	9·0	0	0	31	0	0	0	0	0	9	18	4	0	0
	1730	,,	1000·6	950·7	..	29·0	23·1	20·4	23·8	61	..	7·9	..	13·3	0	2	29	0	0	0	0	0	5	23	3	0	0
Bijapur	0830	594	1005·4	939·8	−1·3	23·2	21·8	21·1	25·0	88	+11	7·7	+2·1	8·1	0	0	31	0	0	0	0	0	9	19	3	0	0
	1730	,,	1001·2	937·0	.	27·9	22·7	20·2	23·8	64	..	7·4	..	7·9	0	0	31	0	0	0	0	0	1	29	1	0	0
Raichur	0830	400	1005·3	961·2	−1·2	24·7	22·5	21·5	25·5	83	+7	6·7	+2·4	9·7	0	4	27	0	0	0	0	0	23	6	2	0	0
	1730	,,	1001·0	957·5	..	29·8	23·5	20·2	23·8	59	..	7·3	..	10·8	0	2	29	0	0	0	0	0	14	0	16	0	0
Belgaum	0830	753	1006·2	923·5	−1·6	21·4	20·8	20·5	24·1	95	+4	8·0	+0·9	10·4	0	0	31	0	0	0	0	0	0	21	10	0	0
	1730	,,	1004·0	921·9	..	22·8	21·4	20·7	24·4	88	..	7·8	..	11·7	0	0	31	0	0	0	0	0	0	27	4	0	0
Belgaum (Samra)	0530	747	1005·3	923·1	..	21·0	20·3	20·0	23·2	94	..	7·8	..	14·7	0	3	27	0	0	0	0	0	2	27	1	1	0
	0830	,,	1006·4	924·4	..	21·9	20·9	20·4	24·0	91	..	7·6	..	14·2	0	1	29	0	0	0	0	0	3	25	2	1	0
	1130	,,	1006·1	924·6	..	23·8	21·7	20·7	24·4	83	..	7·5	..	19·1	0	10	21	0	0	0	0	0	4	22	5	0	0
	1730	,,	1004·3	922·7	..	22·9	21·2	20·3	23·8	86	..	7·4	..	17·2	0	3	28	0	0	0	0	0	1	26	4	0	0
Gadag	0530	649	1005·4	933·6	..	21·7	21·0	20·6	24·4	93	..	7·4	..	12·7	0	2	29	0	0	0	0	0	6	25	0	0	0
	0830	,,	1006·3	934·7	−1·1	23·0	21·4	20·7	24·3	87	+3	7·5	+1·6	11·7	0	1	30	0	0	0	0	0	3	28	0	0	0
	1130	,,	1005·7	934·9	..	26·5	22·4	20·5	24·1	70	..	7·2	..	13·4	0	2	29	0	0	0	0	0	8	23	0	0	0
	1730	,,	1003·4	932·6	..	25·5	22·0	20·5	23·8	74	..	7·3	.	12·8	0	3	28	0	0	0	0	0	5	26	0	0	0
	2330	,,	1006·9	935·1	..	22·1	21·2	20·8	24·4	93	..	6·6	..	14·1	0	5	26	0	0	0	0	0	7	24	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1005·8	956·2	−1·2	25·9	23·0	21·5	25·6	77	+10	6·3	+0·7	10·6	0	1	29	0	0	0	0	0	8	1	21	1	0
	1730	,,	1001·9	953·[illegible]	..	29·3	24·8	22·6	27·6	68	..	5·9	..	14·8	0	5	26	0	0	0	0	0	7	5	19	0	0
Chitradurga	0830	733	1006·4	925·9	−1·4	22·0	20·5	19·8	22·9	88	+7	6·2	−0·7	8·7	0	0	31	0	0	0	0	1	10	20	0	0	0
	1730	,,	1003·6	924·0	..	24·5	21·5	20·0	23·5	76	..	6·7	..	8·6	0	0	31	0	0	0	0	0	11	20	0	0	0
Shimoga	0830	571	1006·9	943·8	−1·1	23·5	21·8	21·0	24·9	86	−1	7·9	+0.7	4·9	0	0	25	0	0	0	0	1	19	5	0	6	0
	1730	,,	1004·5	941·7	..	24·5	22·3	21·2	25·3	82	..	8·0	..	6·8	0	0	28	0	0	0	0	4	19	5	0	3	0
Balchonnur	0830	890	..	..	..	20·1	19·7	19·3	22·7	96	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—*Contd.*																											
Hassan	0830	960	1481·2	903·2	..	20·7	19·9	19·4	22·7	93	+9	7·3	+0·7	5·9	0	0	31	0	0	0	0	0	4	27	0	0	0
	1730	,,	1467·6	901·4	..	22·3	20·4	19·5	22·7	84	..	6·9	..	6·5	0	0	31	0	0	0	0	0	4	27	0	0	1
Bangalore	0230	921	1466·4	905·9	..	20·0	19·4	19·1	22·1	94	..	6·8	..	11·2	0	1	30	0	0	0	0	0	14	16	1	0	0
	0830	,,	1480·9	907·2	−0·8	20·6	19·7	19·2	22·4	92	+7	7·8	+0·6	11·9	0	1	30	0	0	0	0	0	13	17	1	0	0
	1130	,,	1486·3	907·1	..	24·5	21·1	19·4	22·5	73	..	7·4	..	14·6	0	5	26	0	0	0	0	0	3	18	5	0	0
	1730	,,	1465·7	904·8	..	24·1	21·0	19·4	22·7	77	..	7·4	..	13·2	0	3	28	0	0	0	0	1	8	18	4	0	0
Bangalore (Aerodrome)	0530	897	1464·4	908·3	..	19·9	19·7	19·6	22·8	97	..	7·1	..	16·4	0	5	26	0	0	0	0	0	11	20	0	0	0
	0830	,,	1479·1	909·6	..	21·3	20·4	19·9	23·2	92	..	7·5	..	21·7	0	19	12	0	0	0	0	0	8	23	0	0	0
	1130	,,	1485·9	909·5	..	25·0	22·0	20·6	24·3	77	..	7·3	..	23·0	0	24	7	0	0	0	0	0	6	25	0	0	0
	1730	,,	1462·5	907·1	..	24·6	22·0	20·8	24·6	81	..	7·2	..	21·2	0	16	15	0	0	0	0	0	7	22	2	0	0
	2330	,,	1481·3	909·8	..	21·2	20·4	20·0	23·4	93	..	6·6	..	18·1	0	7	24	0	0	0	0	0	6	24	1	0	0
Mysore	0830	767	1008·2	923·9	−1·0	21·6	20·1	19·4	22·4	87	+7	5·8	−0·5	5·7	0	0	28	0	0	0	0	0	3	24	1	3	0
	1730	,,	1004·9	921·8	..	25·7	21·2	19·1	21·8	67	..	6·5	..	7·0	0	1	30	0	1	0	0	0	6	22	1	1	0
Kerala																											
Calicut	0530	5	1008·2	1007·6	..	23·7	23·4	23·2	28·6	97	..	6·7	..	7·5	0	3	24	4	10	7	1	0	1	0	4	4	0
	0830	,,	1009·6	1009·0	−0·6	24·7	24·1	23·8	29·5	94	+3	7·0	+0·4	1·5	0	0	21	4	4	1	1	0	2	1	8	10	0
	1130	,,	1009·8	1009·2	..	26·5	25·1	24·5	30·7	89	..	6·7	..	8·3	0	1	28	2	2	0	0	3	5	7	10	2	0
	1730	,,	1007·5	1006·9	..	26·3	25·0	24·5	30·7	92	..	6·6	..	12·7	0	6	22	2	1	0	0	0	2	11	12	3	0
	2330	,,	1009·8	1009·2	..	24·7	24·1	23·8	29·5	95	..	6·7	..	7·9	0	1	25	2	11	2	0	1	1	3	6	5	0
Palghat	0830	97	1009·2	993·1	..	24·5	23·6	23·1	28·3	92	..	7·5	..	11·3	0	0	31	0	0	0	0	0	6	24	1	0	0
	1730	,,	1006·2	995·4	..	25·9	24·0	23·3	28·6	86	..	7·4	..	13·5	0	1	30	0	0	0	0	0	8	21	2	0	0
Fort Cochin	0830	3	1009·9	1009·6	−0·7	25·5	24·6	24·1	29·2	92	+6	7·8	+1·2	5·9	0	1	28	5	3	4	0	2	3	6	6	2	2
	1730	,,	1007·2	1006·9	..	26·9	24·6	24·0	30·0	86	..	7·5	..	8·1	3	0	30	3	1	0	0	0	4	9	13	1	0
Cochin (Naval Air Station)	0230	3	1008·7	1008·4	..	24·7	24·1	23·8	29·5	95	..	7·1	..	4·0	0	1	12	2	0	1	2	0	1	3	4	18	0
	0530		1008·5	1008·2	..	24·4	23·8	23·5	28·9	95	..	7·2	..	5·5	0	0	15	2	2	5	1	0	2	2	1	16	0
	0830	,,	1009·3	1009·5	..	25·4	24·2	23·7	29·3	90	..	7·4	..	4·7	0	0	23	2	3	3	4	0	2	7	2	8	0
	1130	,,	1010·3	1010·0	..	26·9	24·8	23·8	29·5	83	..	7·4	..	10·3	0	0	31	1	0	1	1	2	4	9	13	0	0
	1730	,,	1007·8	1007·5	..	26·9	24·9	23·9	29·7	83	..	7·5	..	11·3	0	3	2	1	0	0	0	0	3	13	13	1	0
	2330	,,	1010·2	1009·9	..	25·0	24·3	23·9	29·7	93	..	6·9	..	3·4	0	0	19	2	2	3	1	0	2	5	4	12	0
Alleppey	0830	4	..	..	..	25·4	24·5	24·2	30·4	95	+5	7·2	+0·4	8·4	0	4	23	2	3	0	2	0	3	6	11	4	0
	1730	,,	..	..	..	26·8	25·2	24·5	30·7	87	..	7·0	..	17·1	0	7	24	0	1	0	0	0	0	3	27	0	0
Punalur	0830	34	1010·5	1005·6	..	24·4	23·8	23·5	28·9	95	..	7·5	..	4·9	0	0	17	3	0	0	1	1	3	4	5	14	0
	1730	,,	1006·9	1003·1	..	27·0	24·7	23·6	28·8	82	..	7·2	..	5·0	0	0	28	5	1	0	0	1	3	7	11	3	0
Trivandrum	0230	64	1008·3	1001·0	..	24·2	23·6	23·3	28·6	95	..	5·5	..	6·6	0	0	29	8	0	0	0	0	3	3	18	2	0
	0530	,,	1008·5	1001·1	..	23·8	23·4	23·2	28·4	96	..	5·9	..	8·3	0	1	29	7	1	1	0	0	2	2	17	1	0
	0830	,,	1010·1	1002·7	−0·9	24·7	23·9	23·5	29·1	93	+7	6·8	+0·5	6·3	0	0	31	7	2	0	0	0	0	2	20	0	0
	1130	,,	1009·8	1002·5	..	27·1	24·7	23·7	29·1	82	..	6·6	..	15·5	0	9	22	4	0	0	0	0	0	8	19	0	0
	1730	,,	1007·4	1000·1	..	26·6	24·5	23·4	28·9	83	..	5·9	..	11·4	0	4	27	2	0	0	0	0	1	4	24	0	0
	2330	,,	1009·9	1002·6	..	24·4	23·7	23·4	28·6	94	..	5·7	..	8·6	0	1	28	9	0	0	0	0	0	1	19	2	0
Trivandrum (Aerodrome)	0830	8	1009·9	1009·0	..	25·4	24·2	23·6	29·1	90	..	6·9	..	6·2	0	0	27	7	1	0	0	0	0	3	16	4	0
Arabian Islands																											
Amini*	0830	4																									
	1730	,,																									
Minicoy*	0530	2																									
	0830	,,																									
	1130	,,																									
	1730	,,																									
	2330	,,																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1382·3	795·3	−0·4	18·5	17·3	16·6	19·0	89	−2	5·7	+1·4	2·5	0	0	17	0	11	1	3	0	2	0	0	14	0
	1730	,,	1358·3	793·3	..	20·0	18·5	17·9	20·4	90	..	7·1	..	3·0	0	0	26	0	8	1	4	0	12	1	0	5	0
Dharmsala	0830	1211	..	..	..	23·1	21·4	20·5	24·1	78	−8	4·8	−0·8	3·5	0	0	31	3	9	5	7	1	3	2	1	0	0
	1730	,,	..	..	..	24·0	22·2	21·5	25·5	85	..	7·6	..	5·7	0	0	31	1	3	2	2	1	9	4	9	0	0
Simla	0830	2202	1430·4	777·5	−0·8	17·8	16·5	16·1	18·3	92	+6	7·2	+0·6	2·7	0	0	28	5	4	1	5	6	4	0	3	3	0
	1730	,,	1417·9	776·3	..	18·0	17·5	17·2	19·6	95	..	7·6	..	2·9	0	0	30	5	2	0	7	5	5	0	6	1	0
Lokpal	0830	..	..	..	..	6·7	6·3	6·1	9·3	97	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830																										
Joshimath	0830	..	..	..	.	19·3	18·5	17·9	20·9	92	..	7·5	..	3·0	0	0	22	0	6	8	2	0	0	2	4	9	0
	1730	..	..	..	..	21·6	19·2	18·2	21·0	81	..	7·3	..	3·2	0	0	25	2	2	2	2	1	6	9	1	6	0
Mussorrie	0830	2042	1422.6	791·4	−2·5	17·9	17·5	17·1	19·6	94	−1	7·5	+0·5	0·5	0	0	5	1	0	0	1	2	1	0	0	26	0
	1730	,,	1407·1	790·0	..	18·3	18·0	17·8	20·4	98	..	7·8	..	0·8	0	0	8	1	1	0	2	3	1	0	0	23	0

*Data given as addenda in December 1961 issue

(R) Register not received.

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	29 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Mukteswar (Kumaon)	0830	2311	3100·9	768·7	−0·7	16·7	16·3	16·1	16·2	96	−5	7·5	+0·9	8·0	0	1	22	0	5	8	1	0	2	4	3	8	0
	1730	,,	3085·4	767·0	..	18·0	17·2	16·8	19·1	93	..	7·0	..	10·4	0	4	21	0	1	5	2	3	5	7	2	6	0
Nainital	0830	1953	1423·6	799·8	−0·7	18·4	17·4	16·9	19·3	92	−5	7·6	+1·0	7·8	0	0	24	0	0	12	11	0	0	0	1	7	0
	1730	,,	1400·5	797·4	..	19·1	18·0	17·5	19·6	90	..	6·9	..	8·5	0	1	25	2	0	9	8	3	1	3	0	5	0
Walong*	0830																										
	1730																										
Kalimpong	0830	1209	1480·7	877·3	+2·9	22·2	20·3	19·3	22·4	85	−6	2·3	−4·2	3·1	0	0	31	2	0	0	0	0	0	0	29	0	0
	1730	,,	1469·9	876·2	..	21·7	19·8	18·8	21·7	85	..	2·6	..	3·1	0	0	31	0	0	1	27	0	0	0	3	0	0
Darjeeling	0830	2128	1454·8	736·6	+0·5	17·7	17·1	16·6	19·1	94	−10	7·0	0	0·2	0	0	2	0	0	1	1	0	0	0	0	29	0
	1730	,,	1431·5	734·5	..	17·8	17·3	17·2	19·3	95	..	7·1	..	0·4	0	0	2	0	0	0	1	0	0	0	0	29	1
Kohima (R)	0830	1406																									
(R)	1730	..																									
Shillong	0830	1500	1446·9	845·3	−0·5	21·3	19·5	18·5	21·3	85	−4	7·0	+0·4	1·8	0	0	17	3	1	3	2	1	3	1	3	14	0
	1730	,,	1422·5	842·7	..	21·7	20·0	19·1	22·1	85	..	6·6	..	0·8	0	0	7	1	0	0	2	0	2	1	1	24	0
Cherrapunji	0830	1313	1442·0	862·9	−1·6	21·3	20·7	20·5	24·1	95	−6	7·3	+0·2	4.5	0	0	31	0	0	9	2	0	19	1	0	0	0
	1730	,,	1440·8	862·7	..	21·4	20·8	20·3	23·8	94	..	5·2	..	3·3	0	0	28	0	0	6	1	1	18	1	1	3	0
Abu	0830	1195	1411·3	871·7	−3·2	20·4	20·1	19·9	23·2	97	+4	7·7	+0·4	1·9	0	0	11	0	0	0	0	4	7	0	0	20	0
	1730	,,	1416·8	872·1	..	21·9	20·8	20·3	23·8	91	..	7·0	..	4·4	0	0	28	0	1	0	0	11	13	3	0	3	0
Anat	0830	..	..	..	..	22·0	21·1	21·1	25·0	92	..	7·6	..	2·6 (b)	0	0	24	1	1	11	3	4	1	3	0	5	0
	1730	..	..	..	..	22·6	21·7	21·4	25·5	92	..	7·9	..	3·2 (c)	0	0	27	2	2	2	3	6	3	8	1	1	0
Pachmarhi	0830	1075	1425·4	885·5	−0·1	21·9	20·7	20·5	24·1	97	+7	3·2	−1·1	7·9	0	0	29	0	0	0	0	0	2	13	12	2	0
	1730	,,	1417·3	884·3	..	22·9	21·6	20·9	24·7	89	..	5·2	..	7·3	0	0	30	0	0	0	0	0	2	13	15	1	0
Jabalpur (Bareilly)	0830	1382	1459·0	857·9	−1·5	17·6	17·7	17·7	20·2	99	+2	8·0	+0·2	10·7	0	0	31	0	0	0	0	0	27	4	0	0	0
	1730	,,	1457·0	856·7	..	17·9	17·9	17·9	25·1	100	..	8·0	..	10·0	0	0	31	0	0	0	0	0	30	1	0	0	0
Mercara	0830	1152	1485·2	883·0	−0·3	18·5	18·4	18·3	21·0	99	+4	7·3	−0·1	13·2	0	3	28	0	0	0	0	0	0	18	13	0	0
	1730	,,	1470·1	882·1	..	19·1	18·7	18·6	21·3	97	..	7·4	.	12·1	0	2	29	0	0	0	0	0	0	20	11	0	0
Ootacamund	0830	2249	1490·3	777·9	−0·1	13·5	12·4	12·1	13·7	89	2	5·8	−0·8	9·7	0	0	31	1	0	0	0	0	1	17	9	0	0
	1730	,,	1469·8	776·3	..	14·4	13·3	12·6	14·5	89	..	7·4	..	8·8	0	0	31	0	0	1	0	0	0	24	6	0	0
Coonoor	0830	1717	1484·9	825·0	..	19·2	15·8	13·7	15·5	71	−2	5·6	+0·1	6·7	0	1	29	1	0	0	9	3	5	5	7	1	0
Kodaikanal	0830	2343	3133·4	769·6	0	14·0	12·5	11·5	13·6	85	3	6·5	+1·1	14·4	0	11	15	0	0	0	1	0	0	13	12	5	0
	1130	,,	3143·9	770·0	..	16·5	14·4	13·0	14·9	80	..	7·5	..	13·2	0	7	16	0	0	0	0	0	0	11	12	8	0
	1730	,,	3116·7	768·1	..	11·1	13·2	12·7	14·6	91	..	7·6	..	16·1	0	13	15	0	0	0	0	1	0	13	14	3	0
Nepal																											
Katmandu	0830	1324	1435·9	861·1	..	22·8	21·5	20·3	23·8	85	..	6·9	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1431·5	860·6	..	26·4	22·4	20·4	24·1	70	..	6·5	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1406·4	858·2	..	24·3	22·0	21·0	21·7	82	..	7·1	..	0·5	0	0	1	1	0	0	0	0	0	0	3	27	0
Sikkim																											
Lachen	0830	..	..	..	..	15·9	14·9	14·4	16·3	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	27·1	25·4	24·6	31·4	85	..	6·6	..	..	0	0	27	0	0	9	3	1	0	8	6	4	0
	1730	..	..	..	..	28·7	25·8	24·5	31·6	78	..	6·5	..	..	0	0	26	2	2	10	4	0	0	2	6	5	0
Hazaribagh	0830	615	999·4	932·5	..	25·5	24·1	23·6	29·0	89	..	6·7	..	..	0	0	28	2	0	5	4	2	5	6	4	3	0
	1730	,,	996·2	929·7	..	26·4	24·8	24·1	29·8	87	..	6·9	..	..	0	0	11	1	0	1	1	1	6	0	1	20	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6·6	..	..	0	0	27	0	2	6	6	0	2	13	2	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·7	..	..	0	6	25	3	0	9	7	2	0	8	2	0	0
Bokaro	0830	242	1000·2	973·6	..	28·7	27·3	26·9	35·0	89	..	5·0	..	..	0	0	25	0	0	6	3	1	4	5	6	6	0
	1730	,,	999·0	972·5	..	30·2	29·2	28·9	39·5	93	..	4·8	..	..	0	0	24	0	0	6	3	1	7	3	4	7	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	6·3	..	..	0	0	31	0	6	1	10	0	12	0	2	0	0
	1730	..	..	..	..	..	..	..	..	..	..	5·7	..	..	0	0	31	0	5	0	17	0	8	0	1	0	0
Ramgarh	0830	..	..	..	..	27·2	25·5	24·4	31·4	83	..	6·5	..	2·5	0	0	24	2	3	7	0	1	1	6	4	7	0
	1730	..	..	..	..	28·2	26·0	25·1	32·0	82	..	7·0	..	2·0	0	0	21	2	4	4	2	2	4	2	1	10	0
Panchet Hills	0830	..	..	..	..	28·5	26·4	25·7	33·4	83	..	7·3	..	6·8	0	0	31	0	3	5	9	2	7	5	0	0	0
	1730	..	..	..	..	28·7	26·5	25·6	32·6	83	..	7·5	..	6·4	0	0	28	1	1	10	8	0	5	1	1	3	1
Durgapur	0830	..	..	..	..	28·3	26·5	25·8	32·6	87	..	6·5	..	..	0	0	31	0	0	2	9	14	2	4	0	0	0
	1730	..	..	..	..	29·2	26·9	25·9	33·2	83	..	5·7	..	..	0	0	31	1	2	3	10	10	3	1	1	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	25·6	24·2	23·3	28·0	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1001·0	983·3	..	27·7	25·6	24·6	31·5	86	..	6·8	..	3·7	0	0	29	0	0	1	1	2	19	6	0	2	0
	1130	,,	1001·2	982·5	..	29·6	26·4	24·9	31·8	77	..	6·6	..	3·8	0	0	28	0	1	2	1	2	16	3	3	3	0
	1730	,,	997·7	980·1	..	28·5	26·2	25·2	33·1	83	..	7·4	..	3·1	0	0	25	1	1	1	2	1	10	5	4	6	0

*Observatory closed from 16-8-61.

(R) Register not received.

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

Division and station	Hour of observation I. S. T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories-*(contd.)* **Damodar Catchment**-*(contd.)*--Bhimkund	0830	..	..	..	..	26·5	24·8	24·1	29·9	84	..	6·0	..	1·5	0	0	14	4	2	0	0	0	5	0	3	17	0
	1730	..	..	..	..	26·6	24·9	24·3	30·1	86	..	6·0	..	1·2	0	0	10	0	3	0	0	1	4	0	2	21	0
Sonepur	0830	..	..	..	..	27·9	25·8	24·8	31·4	84	..	..	..	8·7	0	2	27	0	0	1	0	0	26	2	0	2	0
Khijrawan	0830	..	..	..	..	25·8	24·0	23·2	28·4	86	..	7·2	..	11·0	0	1	30	0	0	0	0	0	8	22	1	0	0
	1730	..	..	..	..	26·3	24·5	23·7	29·3	86	..	7·1	..	10·4	0	0	31	0	0	0	0	1	8	22	0	0	0
Narbada Catchment Bagra Tawa	0830	..	..	..	..	25·6	24·1	23·5	28·9	88	..	6·8	..	10·4	0	0	29	0	0	0	0	2	27	0	0	2	0
	1730	..	..	..	..	27·1	24·9	23·8	29·5	83	..	6·4	..	8·0	0	0	27	0	0	0	2	2	20	2	1	4	0
Punasa	0830	..	..	..	..	26·0	24·3	23·4	28·8	86	..	..	..	8·0	0	0	29	0	0	1	0	0	9	19	0	2	0
	1730	..	..	..	..	29·0	25·4	23·9	29·6	75	..	..	..	5·4	0	0	26	0	1	0	1	0	8	14	2	5	0
Thikri	0830	..	..	..	..	26·2	24·8	24·1	30·2	88	..	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment Daroi	0830	..	..	..	..	27·1	25·3	24·6	30·9	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	30·0	26·5	25·1	31·9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment Mukhim	0830	..	..	..	..	19·3	18·6	18·1	21·0	93	..	6.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·5	19·3	18·6	21·6	89	..	5·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	25·5	23·4	23·2	28·4	87	..	6·6	..	1·3	0	0	8	3	2	0	1	1	0	1	0	23	0
	1130	..	..	..	..	29·3	24·6	22·7	27·6	69	..	6·0	..	2·2	0	0	17	1	1	1	8	2	3	1	0	14	0
	1730	..	..	..	..	29·6	24·7	22·4	27·6	67	..	5·7	..	3·0	0	0	19	1	1	1	3	7	3	2	1	12	0
Gandak catchment Jomosom	0830	..	..	..	..	18·6	15·6	14·0	16·0	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·7	15·9	14·5	16·5	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	25·1	23·4	22·9	27·9	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·5	24·1	23·3	28·6	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	20·9	19·3	18·5	21·3	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·0	19·8	18·8	21·7	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·5	22·9	22·2	26·7	88	..	6·9	..	1·3	0	0	10	0	1	0	7	1	0	0	1	21	0
	1130	..	..	..	..	27·0	23·9	22·5	27·3	77	..	6·4	..	3·8	0	0	22	1	0	5	13	2	0	0	1	9	0
	1730	..	..	..	..	26·7	24·1	23·0	28·1	81	..	6·4	..	2·8	0	0	19	1	0	4	10	2	0	1	1	12	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·4	23·3	22·9	27·9	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	26·7	24·1	23·0	28·1	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans-Himalayan Region) Dailekh (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment Manslari (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dandeldhura	0830	..	..	..	..	18·9	18·4	18·0	20·8	95	..	7·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·2	19·3	18·9	21·8	92	..	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sailayana	0830	..	..	..	..	21·6	20·4	19·8	23·1	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·2	20·9	20·3	23·8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	28·4	26·1	25·1	31·9	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	29·8	27.7	26·9	35.4	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bagmati Catchment Katmandu†	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara	0830	..	..	..	..	21·0	20·4	20·1	23·4	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·0	21·2	20·4	24·0	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	19·5	18·3	17·9	20·5	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·9	18·7	18·3	21·0	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	14·1	12·8	12·1	14·1	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·3	12·7	12·3	14·3	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	22·9	21·2	20·3	23·8	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·3	21·0	20·3	23·8	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·1	19·9	19·3	22·4	90	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·3	19·7	19·4	22·5	95	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·6	19·6	19·2	22·1	92	..	7·1	..	..	..	..	..	0	1	0	0	5	9	3	0	13	0
	1130	..	..	..	..	23·3	21·0	20·0	23·4	82	..	7·0	..	..	..	..	..	3	1	0	0	1	2	10	3	11	0

(R) Register not received. *Data not reliable. †Data included under Nepal.

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity %: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Kosi Catchment—*contd.* **Taplejung**—*contd.*	1730	..	..	..	..	21·3	19·8	19.1	22·1	87	..	7·0	..	..	..	..	..	0	1	0	0	5	9	3	0	13	0
Okhaldunga	0830	..	..	..	..	20·5	19·5	19·1	22·0	91	..	7·0	..	0·6	0	0	4	1	0	0	0	2	0	2	0	27	0
	1130	..	..	..	..	22·9	20·9	20·0	23·4	84	..	7·0	..	0·7	0	0	6	1	0	1	2	1	0	1	0	25	0
	1730	..	..	..	..	20·7	19·8	19·3	22·4	92	..	7·4	..	0·9	0	0	5	1	0	1	0	2	0	2	0	26	0
Chainpur	0830	..	..	..	..	25·2	22·1	21·1	25·6	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·9	22·3	21·6	25·8	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23·8	22·4	21·8	26·1	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·1	22·0	20·5	24·1	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahkshetra	0830	146	1000·4	985·1	..	27·4	25·7	25·0	31·5	87	..	6·8	..	2·7	0	0	23	0	4	1	1	0	10	3	4	8	0
	1130	,,	1000·8	984.6	..	29.2	26·5	25·5	32·2	81	..	6·9	..	3·6	0	0	26	0	0	1	2	0	19	4	0	5	9
	1730	..	997.7	981·6	..	28·8	26·8	25·9	33.6	85	..	6·8	..	2·5	0	0	22	0	5	0	1	0	14	1	1	9	0
Tista Catchment Gangtok	0830	1812	1447·3	815·1	..	18·9	18.5	18·2	21.0	97	..	7·5	..	1·0	0	0	9	3	2	0	1	1	1	0	1	22	0
	1130	,,	1440·3	814·6	..	20·5	19·5	19.1	22.0	92	..	7·5	..	2·1	0	0	21	1	1	0	3	2	13	0	1	10	0
	1730	,,	1421·0	812·7	..	19·7	19·1	18·7	21·7	95	..	7·7	..	1·2	0	0	12	0	1	0	4	3	3	1	0	19	0
Gezing	0830	..	..	..	..	21·1	20·4	20·1	23·5	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21.6	20·3	19·7	22·9	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

MONTHLY MEANS OF UPPER WINDS

August, 1961 (Sravana 10—Bhadra 9, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations,

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

v—represents the resultant mean velocity in metres per second*,

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

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

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

*Values obtained by converting the original data in knots.

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
Agartala	23°53′	91°15′	17	28th November 1951	0530	1730	2330	
Ahmedabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
Amausi	26°45′	80°53′	133	20th November 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April 1941	0530	1730	2330	
Anantapur	14°41′	77°37′	365	12th February 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May 1942	0530	1730	2330	
Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1730	2330	
Bairagarh	23°17′	77°21′	532	26th February 1943	0530	1730	2330	
Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
Bareilly	28°22′	79°24′	181	12th January 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1730		
Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530	1730	2330	
Bhuj	23°15′	69°48′	90	14th September 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
Dehra Dun	30°19′	78°03′	692	1st October 1958	0530	1730		
Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
Godag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March 1937	0530	1730	2330	
Gopalpur	19°16′	81°53′	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
Imphal	24°51′	93°58′	805	8th March 1952	0530	1730	2330	
Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
Jamshedpur	22°49′	96°11′	141	23rd July 1942	0530	1730		
Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1730	2330	
Nagpur	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
Nanpara	27°50′	81°30′	142	23rd April 1957	0530	1730		
New Delhi	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	2330
Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October 1941	0530	1730	2330	
Visakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·7	2·4	139	31	2·7	2·3	164	31	2·3	2·1	152	31	2·2	1·8	206	31	3·1	2·6	238	31	2·7	2·1	218
0·15 a. g. .	26	6·2	5·8	145	29	5·4	4·6	173	28	6·4	6·0	170	31	7·4	6·6	237	31	4·4	4·1	235	31	6·7	5·5	223
0·3 a. m. s. l. .	25	7·2	6·6	162	29	5·9	5.2	177	28	7·5	7·1	179	31	7·3	6·6	238	31	4·5	4·1	238	31	6·3	5·2	224
0·6 ,, .	25	6·9	6·4	168	28	6·7	6·1	181	27	7·9	7·5	187	31	7·0	6·3	246	31	5·6	4·9	245	31	5·5	4·4	229
0·9 ,, .	25	6·5	5·7	169	28	6·0	5·3	185	27	6·9	6·4	190	31	7·7	7·0	250	27	5·6	4·8	248	31	6·0	5·3	236
1·5 ,, .	23	5·2	4·1	167	21	6·9	5·9	172	21	5·0	4·2	183	31	7·6	6·7	236	13	5·7	4·5	253	31	7·0	6·1	242
2·1 ,, .	18	4·9	3·6	149	20	6·5	5·3	158	17	5·0	4·2	168	31	6·2	4·2	226	5	5·6	3·6	243	31	6·4	5·0	253
3·0 ,, .	15	4·2	2·5	137	15	6·6	4·7	146	12	5·3	4·5	144	31	4·6	1·9	292	2	3·3	1·1	022	31	5·3	3·2	267
3·6 ,, .	10	4·9	3·8	142	11	5·7	4·7	117	3	4·8	3·4	153	31	4·3	1·9	331	1	4·5	4·5	055	31	4·5	1·9	267
4·5 ,, .	6	5·3	4·1	118	9	5·1	3·9	107	1	3·5	3·5	095	31	4·4	1·6	008	1	4·0	4·0	060	30	4·7	1·1	340
5·4 ,, .	3	5·3	5·2	103	5	5·1	4·5	112					31	5·5	2·5	047	1	4·0	4·0	070	30	4·4	1·8	022
6·0 ,, .	2	7·7	7·7	107	3	6·3	5·4	093					31	5·6	3·2	057					30	5·0	2·6	067
7·2 ,, .	1	10·0	10·0	095	1	7·0	7·0	090					31	5·9	4·5	072					30	6·1	4·1	068
9·0 ,, .													30	8·4	7·3	074					27	9·0	8·4	085

Station	AHAMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	4·0	3·3	212	31	2·2	1·2	108	31	3·1	1·3	135	31	2·5	1·1	112	31	1·3	0·5	121	31	1·2	0·2	102
0·15 a. g. .	29	7·2	6·3	221	23	5·0	1·5	105	29	4·3	2·0	137	27	4·2	1.8	137	28	4·7	2·0	115	29	4·2	0·6	151
0·3 a. m. s. l. .	29	8·2	7·3	225	23	5·2	1·6	107	29	4·5	2·0	133	27	5·5	2·2	138	28	2·2	1·0	109	29	2·3	0·1	240
0·6 ,, .	29	8·4	7·5	237	21	6·4	3·3	137	29	5·2	2.7	122	27	6·1	3·4	147	28	5·5	1·1	120	29	4·7	1·0	152
0·9 ,, .	25	6·9	6·5	238	21	5·5	2·2	101	28	5·5	2·8	122	27	5·8	3·6	148	28	5·8	1·8	141	28	4·7	0·7	156
1·5 ,, .	17	5·3	4·7	245	17	6·3	2·8	102	24	5·7	2·6	125	23	4·7	2·6	146	24	6·4	1·3	075	25	4·9	1·2	335
2·1 ,, .	12	4·8	3·4	239	16	6·8	2·9	100	24	5·4	2·4	120	21	4·2	2·5	226	18	5·8	1·9	015	23	5·8	1·7	034
3·0 ,, .	4	3·5	0·5	030	5	5·3	3·0	120	15	4·7	0·3	137	10	5·4	1·5	139	12	5·9	3·5	341	19	4·3	1·3	344
3·6 ,, .	2	3·3	1·5	292	3	3·3	2·0	355	13	4·7	0·9	080	7	2·6	0·4	165	9	5·2	2·8	359	17	3·5	0·8	030
4·5 ,, .					3	2·5	0·8	351	9	4.9	1·5	087	1	4·0	4·0	175	5	3·2	2·1	335	10	4·4	1·3	294
5·4 ,, .					2	1·5	0·7	083	4	4·7	1·1	303	1	4·5	4·5	120	3	2·5	1·2	251	7	4·3	2·2	287
6·0 ,, .					2	3·5	0·5	077	2	2·7	2·7	112					2	4·0	2·3	260	3	4·3	2·4	278
7·2 ,, .					1	4·0	4·0	170													3	6·2	2·4	343
9·0 ,, .					1	6·0	6·0	095																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·7	126	31	4·4	4·3	264	31	6·3	5·8	275	31	5·4	5·3	265	31	0·8	0·4	127	31	1·8	1·0	149
0·15 a. g.	29	4·8	2·4	123	31	7·3	7·1	257	29	10·3	9·8	268	31	8·7	8·7	260	27	4·1	1·7	140	29	5·1	2·8	130
0·3 a. m. s. l.	29	2·0	1·0	129													27	4·3	1·6	154	29	5·2	2·9	128
0·6 ,,	29	4·8	1·9	133	31	9·1	9·1	258	29	10·5	10·1	266	31	10·0	9·9	259	26	4·8	0·9	185	29	5·9	3·7	131
0·9 ,,	29	4·8	1·4	131	31	12·7	12·7	268	29	10·7	10·6	268	31	12·5	12·4	266	25	5·0	0·8	138	28	5·6	3·2	136
1·5 ,,	28	5·3	0·8	060	31	14·0	13·7	278	29	11·3	11·2	273	31	12·7	12·6	278	19	5·0	0·3	037	25	5·0	2·5	129
2·1 ,,	26	6·0	1·6	045	29	12·3	12·0	281	24	11·2	10·8	279	31	10·9	10·6	282	15	4·1	0·1	095	19	4·5	2·3	107
3·0 ,,	22	4·7	1·0	344	22	10·0	9·8	280	18	9·6	9·2	280	19	9·4	9·2	278	12	4·0	2·3	112	13	5·7	4·3	099
3·6 ,,	7	3·8	1·4	111	18	8·9	8·8	280	15	8·4	8·1	280	14	6·6	6·6	281	9	3·3	2·8	139	10	4·5	3·4	080
4·5 ,,					11	6·9	6·3	278	10	7·3	6·8	277	8	5·5	4·8	270	8	4·2	4·1	120	9	4·5	3·7	073
5·4 ,,					5	5·6	5·2	258	6	5·4	4·5	275	2	5·0	1·5	230	4	4·9	4·6	116	6	5·1	4·5	091
6·0 ,,					4	3·0	2·5	258	3	3·0	1·5	217	1	1·0	1·0	045	3	5·0	4·7	107	5	4·2	3·9	084
7·2 ,,					3	2·5	2·0	120	2	3·5	2·6	121					1	2·5	2·5	100	2	8·7	8·7	089
9·0 ,,					2	9·3	8·7	059	1	7·0	7·0	105												

Station	ASANSOL				BAGHDOGRA												BAIRAGARH							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·1	0·9	141	31	2·5	2·2	052	31	2·3	1·4	056	31	2·7	2·2	054	31	3·6	3·1	266	31	4·4	3·7	274
0·15 a. g.	29	5·3	3·5	155	21	5·1	4·9	070	29	3·9	2·8	067	22	5·2	4·6	069	28	8·5	8·1	261	26	6·9	5·9	270
0·3 a. m. s. l.	29	5·4	3·7	163	21	5·2	5·0	075	29	3·9	2·9	070	22	5·1	4·7	076								
0·6 ,,	28	6·1	4·2	174	21	5·2	5·0	087	29	4·3	3·5	087	22	5·4	4·9	094	28	7·1	6·8	258	26	6·0	5·0	269
0·9 ,,	27	5·7	3·9	177	17	5·3	4·8	089	28	4·8	4·0	098	19	5·8	5·4	110	19	10·7	10·0	271	26	7·2	6·4	273
1·5 ,,	23	5·1	2·7	153	16	6·1	5·2	086	24	4·6	4·1	112	15	6·1	5·5	107	11	8·1	7·7	279	20	7·7	7·2	280
2·1 ,,	19	4·4	2·4	136	14	7·1	6·6	096	21	4·3	3·3	110	10	6·1	5·5	109	8	4·4	4·2	259	15	6·0	4·9	291
3·0 ,,	17	4·6	3·5	125	11	7·5	5·0	103	14	4·0	2·2	138	5	5·8	4·6	118	3	4·8	3·6	305	8	4·6	4·1	285
3·6 ,,	13	3·6	3·1	118	8	7·1	5·9	107	11	3·9	1·9	179					1	3·5	3·5	355	6	3·7	3·1	294
4·5 ,,	10	4·7	3·6	108	6	6·2	5·3	103	6	3·8	2·1	168									3	4·3	4·3	312
5·4 ,,	1	6·0	6·0	100	5	4·7	4·2	125	4	3·4	1·2	111									2	2·0	1·9	314
6·0 ,,					4	3·7	2·9	128	3	1·8	0·8	315												
7·2 ,,					3	4·7	4·2	104																
9·0 ,,					1	21·5	21·5	095																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	BAIRAGARH				BAJPE												BAMRAULI							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·8	3·2	255	31	1·9	0·9	266	31	3·6	3·2	288	31	1·9	1·1	261	31	1·2	0·4	208	31	2·0	0·6	295
0·15 a. g.	26	8·0	7·3	260	25	5·4	4·0	259	26	7·2	6·4	285	24	5·8	5·0	273	31	5·2	2·6	246	28	3·5	0·9	270
0·3 a. m. s. l.					25	6·9	5·8	261	26	7·8	7·1	285	24	6·7	5·9	274	31	5·3	2·5	248	28	3·7	1·2	270
0·6 ,,	26	6·9	6·1	254	24	9·3	8·9	275	26	9·9	9·4	284	24	9·1	8·6	279	31	5·3	1·7	264	27	3·9	0·9	259
0·9 ,,	24	8·9	8·0	277	18	10·1	9·7	282	21	11·2	10·6	287	21	10·5	10·2	283	30	5·3	0·6	260	23	2·5	0·2	260
1·5 ,,	23	8·2	7·2	286	8	10·1	10·0	284	12	11·7	10·5	296	14	10·6	10·4	286	30	5·1	0·8	190	13	5·3	1·0	150
2·1 ,,	17	5·0	3·9	288	4	7·0	6·5	291	5	7·8	7·5	284	7	10·4	9·9	288	30	5·1	1·2	150	8	4·3	2·1	099
3·0 ,,	9	5·0	4·1	299	1	6·5	6·5	300	1	9·5	9·5	270	2	8·3	7·2	302	30	4·8	1·7	130	2	1·7	1·5	346
3·6 ,,	2	2·3	1·1	147									1	6·5	6·5	295	30	4·3	2·0	117	2	2·5	2·5	033
4·5 ,,	1	4·0	4·0	100													30	4·8	3·1	121	2	4·7	4·6	078
5·4 ,,																	30	5·1	4·0	116	1	3·0	3·0	045
6·0 ,,																	30	6·0	5·1	104	1	4·0	4·0	060
7·2 ,,																	30	6·8	6·2	102	1	3·0	3·0	070
9·0 ,,																	27	10·2	9·7	097				

Station	BAMRAULI								BANGALORE												BAREILLY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	28	1·4	0·1	015	31	1·0	0·3	217	31	3·1	2·9	257	31	3·6	3·2	270	31	3·6	3·5	265	31	1·7	1·5	084
0·15 a. g.	28	3·9	0·3	155	27	4·7	1·6	194	6	8·8	8·5	266	22	7·2	6·4	268	22	8·6	8·6	254	29	4·8	4·0	097
0·3 a. m. s. l.	28	3·9	0·4	248	27	5·0	1·9	201													29	4·4	3·5	091
0·6 ,,	28	4·6	0·3	216	27	5·3	1·7	217													20	6·2	4·5	123
0·9 ,,	28	4·5	0·3	139	25	4·9	1·5	216													19	6·5	4·7	124
1·5 ,,	28	4·5	0·4	178	20	4·3	1·5	158	6	14·1	13·8	283	22	9·3	9·0	269	22	12·5	12·3	271	17	5·9	3·9	117
2·1 ,,	28	4·2	0·8	139	18	4·1	1·8	178	5	13·4	13·0	291	21	9·6	9·4	275	18	9·5	9·4	280	13	5·7	2·7	107
3·0 ,,	27	4·1	1·6	094	13	3·4	2·1	145	5	8·8	8·2	295	20	8·3	8·1	285	16	5·9	5·8	286	11	4·4	0·8	064
3.6 ,,	27	4·1	1.9	083	3	2·2	0·6	160	5	7·3	6·9	284	17	7·1	6·7	283	10	5·7	5·0	272	8	4·1	1·5	131
4·5 ,,	27	4·5	2·7	078					5	6·6	6·0	271	14	6·7	6·1	282	8	5·8	5·3	261	5	4·5	0·8	266
5·4 ,,	27	5·7	3·2	076					4	4·5	3·6	254	9	5·4	5·0	281	5	4·3	1·4	253	3	5·6	3·4	242
6·0 ,,	26	6·3	4·1	089					3	4·5	4·3	277	9	4·6	3·8	300	3	2·7	0·3	059	3	6·3	5·2	280
7·2 ,,	26	7·6	5·4	095					2	2·3	1·7	091	8	3·0	0·5	330	1	1·5	1·5	065	2	4·5	4·0	336
9·0 ,,	25	9·4	8·1	093					1	9·5	9·5	100	6	7·9	7·7	100					1	3·5	3·5	320

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	BAREILLY				BEGUMPET												BHAGALPUR							
Time in I.S.T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·8	104	31	4·2	4·1	271	31	4·9	4·3	276	31	3·9	3·2	266	31	1·5	1·1	113	31	1·6	1·0	114
0·15 a. g.	28	3·8	1·5	134	26	8·6	7·9	268	28	7·3	6·9	273	29	8·1	7·4	264	27	4·4	3·5	116	30	4·6	2·9	113
0·3 a. m. s. l.	28	3·4	1·3	132													27	4·7	3·7	123	30	4·9	3·4	112
0·6 „	28	4·8	2·3	125	26	6·0	5·9	266	28	6·5	6·0	273	29	5·4	4·9	262	27	5·1	3·5	124	30	5·5	4·5	119
0·9 „	27	4·9	2·3	127	26	11·3	10·9	278	28	8·7	8·4	274	29	10·2	9·5	271	26	4·9	3·4	113	30	5·8	4·8	120
1·5 „	25	4·8	1·7	138	23	13·0	12·5	283	28	11·3	11·0	280	28	11·6	11·3	279	24	4·7	3·4	100	27	5·1	4.3	130
2·1 „	21	4·9	1·6	148	23	13·5	12·8	285	27	11·6	11·4	279	28	12·0	11·3	283	20	5·4	4·0	113	24	5·2	4·2	125
3·0 „	16	4·8	2·7	126	18	11·1	10·6	283	18	10·7	10·1	281	14	11·7	11·1	284	18	4·6	3·1	122	19	4·5	3·3	115
3·6 „	14	3·5	1·1	110	14	9·3	7·8	287	10	8·9	8·2	273	5	11·6	11·2	281	12	3·4	2·5	143	17	4·3	2·4	119
4·5 „	11	4·3	0·7	036	9	8·0	7·1	257	4	5·6	5·4	265	1	20·5	20·5	290	11	3·9	3·5	139	16	4·2	2·1	112
5·4 „	7	4·6	1·0	347	5	4·0	3·1	284	4	3·0	2·3	310					11	4·2	3·4	121	14	4·8	3·0	124
6·0 „	6	4·6	0·8	342	5	4·5	3·0	250	3	4·0	3·2	317					11	4·7	4·3	109	13	6·0	4·4	111
7·2 „	4	4·1	2·0	300	1	4·5	4·5	075	1	5·5	5·5	045					9	7·1	4·2	100	12	6·1	5·2	100
9·0 „	3	7·0	4·5	035	1	3·5	3·5	310									7	11·8	11·6	090	12	7·9	7·1	090

Station	BHUBANESHWAR												BHUJ											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	1·6	232	31	3·1	2·1	222	31	2·6	2·1	226	31	3·3	3·1	233	31	5·6	5·1	233	31	3·8	3·5	234
0·15 a. g.	28	5·1	3·0	252	27	5·5	4·1	202	27	6·3	5·7	226	30	7·2	6·9	239	29	8·4	8·0	231	30	7·5	7·2	236
0·3 a. m. s. l.	28	6·1	4·1	256	27	5·9	4·6	210	27	6·7	6·3	230	30	8·1	7·7	241	29	8·9	8·3	232	30	8·3	8·0	238
0·6 „	28	6·2	4·1	268	27	5·5	4·0	220	27	6·7	6·1	230	30	10·2	9·7	244	29	8·9	8·4	234	30	9·6	9·2	241
0·9 „	25	5·8	4·5	276	24	5·6	3·0	249	27	6·6	5·5	237	29	10·1	9·6	245	28	8·7	8·2	236	30	8·3	7·9	236
1·5 „	21	5·7	4·3	281	17	5·8	4·1	286	21	5·8	4·4	272	22	7·1	5·9	244	16	6·8	5·6	243	24	4·9	2·9	240
2·1 „	16	4·5	2·3	292	10	6·8	4·3	293	13	4·9	2·8	276	8	3·4	0·5	297	9	5·6	3·0	253	19	4·4	0·8	294
3·0 „	14	4·4	1·7	319	9	6·5	2·4	300	11	3·5	2·2	280	7	7·1	3·9	024	1	3·5	3·5	285	18	4·5	2·4	021
3·6 „	12	4·0	1·0	334	2	8·2	4·0	074	4	2·3	1·5	099									7	4·5	2·6	026
4·5 „	8	4·7	1·3	141					2	3·0	3·0	099									4	2·9	1·9	028
5·4 „	6	5·7	3·2	119																	3	4·5	3·8	354
6·0 „	6	7·1	4·1	113																	2	5·7	4·5	063
7·2 „	2	7·7	7·7	088																				
9·0 „																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	BIKANER												CHIKALTHANA											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	224	31	1·7	0·9	205	31	1·7	1·3	210	31	2·5	2·4	266	31	5·0	4·5	268	31	3·6	3·5	267
0·15 a. g.	31	6·7	5·2	233	31	4·9	2·7	200	31	7·4	4·9	215	27	7·4	7·0	264	29	8·8	8·1	266	31	8·1	7·8	263
0·3 a.m. s. l.	31	4·8	3·7	230	31	4·2	2·0	202	31	5·4	3·6	210												
0·6 ,,	31	8·8	7·5	248	31	4·5	3·2	208	31	8·1	5·6	220												
0·9 ,,	31	8·2	6·7	247	31	5·1	2·6	218	31	7·1	5·0	225	27	9·8	9·4	268	29	9·8	9·3	271	31	9·4	9·0	269
1·5 ,,	30	5·3	3·0	245	30	4·7	2·1	248	31	5·0	2·0	232	20	11·6	11·1	275	26	11·0	10·5	271	28	10·2	9·7	269
2·1 ,,	30	4·6	0·6	022	28	4·1	1·3	307	30	3·7	0·9	005	15	9·0	8·5	271	17	10·2	9·7	276	20	8·0	7·5	269
3·0 ,,	27	6·1	2·7	058	20	4·6	2·6	356	26	4·9	2·4	020	5	4·6	4·0	268	2	10·3	10·2	298	9	7·5	6·9	268
3·6 ,,	22	6·2	3·3	017	16	5·1	3·2	005	13	5·2	3·3	030					2	7·5	7·3	307	1	4·0	4.0	245
4·5 ,,	14	6·7	2·4	029	11	4·6	4·0	335	2	4·3	1·2	072												
5.4 ,,	9	5.7	1·4	072	10	5·7	3·9	331	2	2·5	2·3	127												
6·0 ,,	5	5·2	2·6	055	9	6·4	3.8	319																
7·2 ,,	2	4·0	3·1	030	3	4·7	4·2	330																
9·0 ,,	1	3.0	3·0	125	1	3·0	3·0	355																

Station	COCHIN												DARJEELING								DEHRA DUN			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·2	0·3	330	31	3·3	2·9	293	31	1·2	0·6	310	31	0·0	0·0	00	31	0·2	0·1	117	31	0·3	0·2	043
0·15 a. g.	19	4·0	2·7	294	23	4·4	3·7	286	19	4·1	3·1	287	2	2·5	2·5	037	6	3·1	2·8	111	20	1·9	0·4	077
0·3 a.m. s. l.	19	5·7	4·4	290	23	6·3	5·9	289	19	5·7	4·8	287												
0·6 ,,	19	7·9	7·2	295	23	8·7	8·4	293	19	8·0	7·4	292												
0·9 ,,	19	9·4	8·8	288	22	9·7	9·3	294	19	9·7	9·1	295									20	2·0	0·3	169
1·5 ,,	17	10·6	9·9	290	20	11·3	10·9	298	18	10·1	9·7	300									16	2·5	0·8	122
2·1 ,,	13	11·2	10·5	290	14	11·1	10·5	300	15	10·9	10·5	302									14	4·1	2·7	118
3·0 ,,	5	10·5	10·3	290	5	8·4	7·3	293	6	9·8	9·4	283	2	10·5	10·5	105	6	6·4	6·0	092	10	5·3	4·3	124
3·6 ,,	3	5·7	4·8	296	5	8·3	7·4	297	2	5·0	4·2	244	2	13·0	12·5	093	6	8·1	7·7	091	6	7·2	4·9	118
4·5 ,,	3	4·5	3·7	301	2	5·2	3·7	272	1	3·0	3·0	150	1	13·5	13·5	090	2	4·7	3·9	124	3	2·8	2·0	119
5·4 ,,	1	4·5	4·5	310													1	5·5	5·5	115	3	3·5	0·8	237
6·0 ,,	1	4·5	4·5	005													1	6·5	6·5	105	3	5.5	3·3	268
7·2 ,,																	1	6·5	6·5	100	2	5·7	5·7	264
9·0 ,,																								

TABLE IV—MONTHLY MEAN DRCTIEONSAND VELOCIITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	DEHRA DUN				DUM DUM																GADAG			
Time in I. S. T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·5	232	31	1·4	1·0	159	31	2·3	1·3	155	31	1·9	1·6	174	31	2·0	1·3	173	31	4·9	4·5	253
0·15 a. g.	24	2·3	0·9	244	31	5·4	2·5	184	29	4·5	2·8	157	31	5·7	4·7	177	30	6·1	5·0	181	31	10·4	10·3	250
0·3 a. m. s. l.					31	5·6	2·7	197	29	4·8	2·8	169	31	5·9	4·8	175	30	7·3	6·1	190				
0·6 „					31	6·8	2·9	218	28	5·0	2·9	170	31	6·1	4·6	175	29	7·8	6·4	192				
0·9 „	24	2·2	0·8	240	31	6·4	2·4	225	23	5·5	2·9	170	31	6·1	4·3	172	29	7·2	5·6	191	31	12·0	11·8	259
1·5 „	20	2·3	1·1	286	31	5·9	1·7	226	11	6·3	3·7	179	31	5·6	3·4	181	26	6·0	4·1	185	18	13·6	13·4	274
2·1 „	15	3·8	1·1	289	31	5·4	1·1	170	5	7·0	3·6	146	31	5·3	2·7	156	20	4·9	3·2	164	7	12·0	11·7	280
3·0 „	6	4·7	0·9	255	30	5·5	1·2	140	2	2·7	2·7	148	31	5·2	2·7	138	11	3·6	2·5	169	3	9·5	9·0	282
3·6 „	2	5·7	5·3	313	30	5·6	2·2	127					31	5·1	3·0	113	2	2·5	2·1	085	2	7·7	6·1	306
4·5 „	1	1·5	1·5	070	30	6.3	3·6	112					31	5·4	3·6	103	1	2·5	2·5	070				
5·4 „					30	6·3	4·4	112					31	6·3	4·6	086								
6·0 „					29	6·3	5·4	101					31	6·5	4·3	090								
7·2 „					29	8·7	7·0	099					31	7·6	6·7	090								
9·0 „					29	12·1	11·7	093					30	10·5	10·2	084								

Station	GADAG								GANNAVARAM												GAUHATI			
Time in I. S. T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	6·4	6·2	265	31	5·4	5·1	261	31	3·0	2·8	255	31	5·2	4·5	282	31	2·8	2·0	239	31	0·0	0·0	180
0·15 a. g.	30	11·3	11·1	257	30	10·1	10·0	254	28	7·7	7·4	260	28	6·6	6·0	278	27	6·8	5·5	235	29	2·0	0·1	135
0·3 a. m. s. l.									28	9·6	9·4	269	28	7·1	6·6	281	27	7·5	6·3	243	29	2·0	0·0	186
0·6 „									28	12·9	12·7	274	28	8·1	7·9	284	27	8·4	7·7	261	29	3·1	0·8	050
0·9 „	30	12·1	11·9	261	30	11·9	11·7	263	28	14·2	14·0	283	28	9·5	9·3	285	27	9·4	8·8	268	29	3·6	0·6	123
1·5 „	26	13·7	13·4	271	28	14·3	14·1	271	24	11·6	11·1	289	27	11·5	11·1	285	26	11·0	10·5	279	28	4·6	1·6	170
2·1 „	6	11·2	10·9	278	20	13·0	12·7	277	23	10·1	9·4	284	23	12·0	11·5	282	24	12·0	11·5	281	27	4·4	2·1	166
3·0 „					4	9·3	8·9	289	20	9·3	9·0	276	18	11·4	10·9	273	22	10·5	9·9	280	27	4·1	1·9	147
3·6 „					1	6·0	6·0	305	13	8·8	8·6	272	14	10·5	10·0	271	14	9·0	8·4	273	27	4·1	1·5	159
4·5 „									4	5·7	5·2	298	12	9·2	8·7	276	8	6·2	5·2	269	27	4·3	2·4	145
5·4 „									2	3·5	2·2	307	8	6·7	5·7	283	2	6·0	2·5	284	26	4·5	3·0	124
6·0 „													7	5·1	3·5	282	1	4·0	4·0	005	26	4·6	3·4	109
7·2 „													6	5·2	2·3	015					25	5·1	3·8	093
9·0 „													4	7·6	6·6	077					22	8·4	7·0	087

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

August 1961 (Sravana 10—Bhadra 9, 1883 SAKA)

Station	GAUHATI												GAYA											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·1	360	31	0·7	0·2	098	31	1·1	0·5	164	31	1·9	0·7	143	31	2·2	0·6	035	31	3·1	1·1	150
0·15 a. g.	30	3·3	1·6	035	31	2·8	0.8	063	28	2·3	0·8	222	24	4·1	1·7	130	27	3·5	1·5	034	22	4·5	2·7	140
0·3 a. m. s. l.	30	3·3	2·0	044	31	2·8	0·9	070	28	2·5	0·9	277	24	4·4	1·8	145	27	3·7	1·5	041	22	4·6	3·0	133
0·6 ,,	29	3·2	1·6	069	31	2·8	1·0	072	28	2·9	0·9	310	23	5·3	1·8	183	27	4·2	1·5	065	22	5·0	3·3	144
0·9 ,,	28	3·5	1·5	102	31	3·1	0·6	062	25	3·3	0·5	340	22	5·5	1·7	178	27	4·4	1·0	105	19	4·9	3·2	149
1·5 ,,	27	4·4	2·0	151	30	3·8	1·1	190	24	3·9	1·3	212	16	4·6	1·4	130	25	4·8	1·8	147	15	4·1	1·9	187
2·1 ,,	24	5·4	2·9	149	30	3·5	1·6	181	17	5·0	2·5	167	14	4·5	1·6	121	23	4·7	1·8	134	13	3·7	1·9	170
3·0 ,,	21	5·4	3·3	126	30	4·1	2·3	165	12	5·0	3·3	242	11	3·9	2·3	135	18	3·7	2·8	110	7	3·1	2·3	140
3·6 ,,	20	4·7	3·0	122	28	3·9	1·7	172	7	3·8	2·9	121	5	3·7	3·1	108	15	4·9	3·8	101	2	2·5	1·9	115
4·5 ,,	16	5·5	4·0	124	28	4·1	1·6	155	5	4·1	2·5	127	2	3·3	2·5	110	10	6·9	5·9	099				
5·4 ,,	11	5·1	3·4	125	28	4·3	2·6	139	2	3·5	3·5	112	1	4·0	4·0	100	7	7·9	7·1	095				
6·0 ,,	9	5·4	4·4	120	27	5·4	3·0	111	1	6·5	6·5	080	1	5·0	5·0	100	3	7·3	6·7	095				
																	2	5·0	4·1	073				
7·2 ,,	6	5·3	4·1	105	23	6·6	5·5	095																
9·0 ,,	5	7·3	6·7	100	19	8·4	7·4	089																

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I. S. T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·5	219	31	7·0	5·9	208	31	3·8	3·1	214	31	1·6	1·2	057	31	1·4	0·8	108	31	1.9	1·1	278
0·15 a. g.	30	5·6	5·0	226	30	7·7	6·8	211	29	6·2	5·3	227	25	5·9	4·9	090	27	3·7	2·0	120	26	6·2	3·9	265
0·3 a. m. s. l.	30	5·7	4·9	232	29	6·7	6·0	216	29	6·2	5·5	232	24	6·9	6·1	099	27	4·1	2·6	122	26	5·1	3·0	263
0·6 ,,	29	5·8	4·7	261	28	4·7	4·0	225	29	6·0	5·2	242	20	6·9	6·5	106	27	5·0	3·4	119	24	8·0	5·3	285
0·9 ,,	29	6·4	5·5	273	28	4·5	3·4	248	26	5·6	4·7	266	17	6·7	6·1	109	25	5·3	3·7	117	23	7·5	4·6	291
1·5 ,,	21	5·2	4·6	286	23	5·2	4·2	306	25	5·8	4·9	274	14	5·9	4·3	110	24	5·3	3·7	118	20	6·6	4·4	317
2·1 ,,	17	4·8	4·0	279	17	4·9	3·9	283	22	5·7	5·2	278	13	5·9	4·0	111	17	4·4	2·3	103	18	6·5	4·1	330
3·0 ,,	8	3·6	2·2	294	13	4·6	3·2	267	12	3·9	2·5	292	9	5·6	4·1	114	14	4·1	3·1	118	12	5·7	1·7	352
3·6 ,,	6	3·6	2·4	323	10	3·7	2·0	281	4	2·4	0·4	357	6	4·7	1·8	101	11	3·3	1·8	125	11	5·5	1·7	032
4·5 ,,	5	2·0	1·1	108	8	3·0	0·7	035	2	3·5	1·0	084	3	3·5	1·5	117	7	4·2	1·3	122	9	5·3	2·0	042
5·4 ,,	2	6·0	6·0	091	7	3·6	2·6	082	1	7·0	7·0	066	2	4·7	4·7	100	5	4·0	1·4	150	7	3·7	2·1	130
6·0 ,,	2	6·5	6·5	089	7	4·6	3.9	068	1	6·5	6·5	051	1	3·0	3·0	110	4	3·4	2·5	139	7	5·8	2·5	120
7·2 ,,	2	8·3	8·3	104	4	7·5	7·4	084					1	4·0	4·0	095	2	2·5	2·0	159	4	4·0	1·7	094
9·0 ,,	1	15·5	15·5	085	1	17·0	17·0	085									2	7·0	6·8	132	1	5·0	5·0	050

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

August 1961 (Śravana 10—Bhadra 9, 1883 Saka)

Station	GWALIOR								IMPHAL												JABALPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	1·5	285	31	1·8	1·4	261	31	0·8	0·1	138	31	1·4	0·5	182	31	1·1	0·3	014	31	1·8	1·5	245
0·15 a. g.	27	4·9	2·9	285	27	5·4	2·9	257	27	1·9	0·6	093	31	2·8	1·3	184	30	2·0	0·3	060	28	6·3	5·3	253
0·3 a. m. s. l.	27	3·9	2·3	281	27	4·5	2·5	251																
0·6 „	27	5·9	3·2	297	27	5·5	2·6	276													28	7·5	6·2	256
0·9 „	27	6·6	3·7	306	26	5·1	2·0	309	27	1·8	0·7	035	31	2·6	1·1	187	30	2·0	0·5	035	31	9·2	7·1	273
1·5 „	25	6·2	3.9	309	23	5·0	2·7	311	26	3·2	1·5	236	31	2·9	1·7	162	30	3·4	1·8	170	31	6·9	4·2	302
2·1 „	19	6·3	3·5	309	18	4·6	1·6	330	21	5·3	3·3	248	29	3·7	2·0	165	25	4·5	2·8	184	10	5·3	3·8	300
3·0 „	14	6·0	2·7	311	15	3·9	1·6	005	8	4·6	1·5	201	24	3·1	1·6	161	15	3·9	2·8	147	6	3·7	2·1	289
3·6 „	10	5·1	2·8	318	11	3·8	2·9	330	4	3·1	1·1	166	19	3·3	2·0	131	17	2·9	2·3	147	5	3·5	1·1	033
4·5 „	9	6·1	4·1	319					3	2·3	2·0	193	15	2·9	1·6	095	4	3·9	1·7	171	3	3·8	1·9	080
5·4 „	5	4·9	1·4	0·6					1	2·0	2·0	115	13	3·2	2·3	093	3	3·5	3·1	068	3	4·7	4·1	097
6·0 „	4	4·6	1·7	015					1	3·0	3·0	065	11	4·5	3·5	098	1	7·0	7·0	050	2	4·0	3·7	092
7·2 „	4	5·1	3·5	088					1	4·5	4·5	060	7	7·7	7·1	105	1	7·0	7·0	3·0	1	7·0	7·0	105
9·0 „	1	7·5	7·5	060					1	4·0	4·0	310	5	9·0	7·8	074	1	10·0	10·0	200				

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·5	257	31	1·6	1·3	231	31	1·0	0·9	235	31	2·0	1·5	247	31	1·4	1·1	229	31	1·3	0·6	299
0·15 a. g.	29	4·9	4·3	265	27	4·5	3·5	247	24	5·8	5·4	233	26	6·1	5·3	248	26	6·4	5·9	234	25	5·2	4·5	268
0·3 a. m. s. l.																								
0·6 „	29	5·2	4·5	266	27	5·0	3·9	251	24	3·3	3·0	238	26	3·8	3·2	249	26	4·1	3·7	227	25	6·1	5·1	271
0·9 „	28	6·2	5·3	275	24	6·0	4·6	274	24	8·1	7·4	251	26	7·2	6·6	256	24	7·6	7·1	253	25	7·6	6·4	275
1·5 „	21	6·9	4·5	285	21	7·0	4·7	295	15	9·8	9·3	271	21	8·5	7·8	274	17	9·3	8·9	272	23	6·9	5·3	284
2·1 „	15	5·8	3·5	289	15	5·7	3·9	299	11	8·1	7·5	260	11	8·7	8·0	282	13	8·3	7·8	280	13	1·5	2·9	315
3·0 „	8	4·4	1·1	328	7	5·0	2·2	270	6	6·2	5·6	281	5	9·7	9·6	274	8	7·4	7·0	273	10	3·7	1·9	326
3·6 „	7	4·7	2·2	049	5	3·8	1·4	243	3	8·3	7·7	287	3	9·7	9·5	273	3	3·2	1·2	120	5	3·5	2·5	316
4·5 „	5	4·4	4·2	071																	1	3·0	3·0	230
5·4 „	3	4·3	4·3	075																				
6·0 „	2	6·7	6·7	085																				
7·2 „	2	7·0	6·9	081																				
9·0 „																								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	JAIPUR								JAMSHEDPUR								JHARSUGUDA							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·0	0·4	278	31	1·0	0·3	305	31	1·3	0·5	110	31	2·3	0·7	126	31	1·3	0·9	210	31	1·9	1·3	218
0·15 a. g. .	26	4·6	1·3	260	29	5·3	3·2	266	28	3·7	1·1	197	29	4·0	1·1	156	24	4·4	3·2	234	23	4·4	3·4	217
0·3 a. m. s. l. .									28	3·7	1·1	211	29	4·1	1·1	153	24	3·5	2·3	232	23	4·4	3·6	221
0·6 ,, .	26	4·6	1·2	280	29	5·6	3·2	265	28	4·8	2·0	250	29	5·3	1·6	190	24	5·5	4·2	269	23	4·7	3·6	236
0·9 ,, .	26	4·9	2·1	283	29	5·9	3·8	275	26	5·4	2·4	269	28	5·6	1·5	195	19	6·5	5·1	273	20	4·7	3·3	247
1·5 ,, .	24	5·4	2·9	296	29	5·2	3·0	291	21	5·3	2·2	293	23	5·7	1·0	123	15	5·7	3·7	279	19	5·3	2·6	257
2·1 ,, .	18	5·0	1·3	315	23	4·0	2·8	309	16	4·7	1·2	301	16	4·5	1·4	098	9	3·5	2·0	269	15	5·3	1·5	280
3·0 ,, .	15	5·0	2·1	001	14	4·0	2·2	016	11	3·7	2·8	089	11	4·1	1·6	069	6	2·3	1·0	072	7	4·5	1·0	239
3·6 ,, .	13	4·9	2·7	005	14	4·5	2·9	036	9	3·8	3·1	091	6	4·2	1·4	110	6	2·4	·8	142	4	5·6	2·2	055
4·5 ,, .	9	5·2	2·1	348	3	3·2	1·5	107	8	4·7	4·5	097	3	3·5	1·3	174	4	4·0	3·5	120				
5·4 ,, .	3	5·5	3·9	100					4	5·6	5·6	102	2	6·2	2·3	140								
6·0 ,, .									4	6·7	6·7	088	2	7·3	4·1	150								
7·2 ,, .									4	7·1	7·1	095	2	12·5	10·0	134								
9·0 ,, .									4	9·3	9·3	084	2	12·0	12·0	360								

Station	JHARSUGUDA				JODHPUR																MADRAS			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·5	1·5	191	31	2·8	2·2	236	31	3·3	2·7	230	31	4·1	3·3	225	31	3·3	2·8	218	31	3·0	2·1	243
0·15 a. g. .	23	4·7	3·1	184	31	6·2	5·6	246	30	6·5	5·0	229	31	5·9	3·7	224	30	7·9	7·0	220	31	9·0	7·8	261
0·3 a. m. s. l. .	23	3·8	2·5	189	31	4·4	3·9	242	30	5·4	4·5	236	31	4·7	2·9	229	30	6·5	5·4	214	31	9·7	9·1	267
0·6 ,, .	23	5·3	3·7	236	31	6·9	6·0	245	30	6·3	5·5	239	31	5·9	3·6	237	30	8·6	7·9	229	31	10·8	10·6	278
0·9 ,, .	22	5·7	4·3	245	31	7·2	5·7	248	30	6·8	5·4	230	31	5·2	3·5	232	30	8·1	7·6	233	31	11·0	10·8	285
1·5 ,, .	18	5·4	2·7	255	31	6·3	3·6	195	17	6·2	·9	235	31	5·0	2·7	233	25	6·7	4·8	237	31	11·0	10·7	289
2·1 ,, .	14	4·1	0·2	277	31	4·9	1·4	164	6	3·7	1·5	014	31	3·8	0·8	293	18	4·3	1·1	180	31	9·5	9·2	287
3·0 ,, .	7	4·2	2·1	121	31	4·1	1·3	070	4	4·4	3·0	047	31	4·1	1·0	067	14	5·2	2·0	095	31	8·6	8·2	279
3·6 ,, .	3	4·3	2·3	130	31	4·5	2·1	064	3	6·8	4·8	063	31	4·4	2·1	021	5	6·1	4·3	049	31	9·2	8·9	277
4·5 ,, .					31	6·1	2·1	017	2	9·3	9·2	066	31	4·5	0·9	043	3	3·7	2·1	343	31	8·5	7·7	272
5·4 ,, .					31	7·2	3·2	087	2	7·7	7·7	078	30	4·5	1·0	050	2	5·0	1·0	352	31	7·5	5·9	261
6·0 ,, .					31	6·9	4·0	099	2	6·5	6·4	079	29	5·3	1·5	058	2	2·5	0·0	000	31	5·7	3·7	254
7·2 ,, .					31	7·7	3·6	115	1	4·0	4·0	030	28	5·4	2·8	061	1	4·0	4·0	070	31	5·6	1·2	265
9·0 ,, .					28	9·5	5·0	094	1	4·5	4·5	125	22	6·8	4·4	089					30	8·6	5·8	086

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	MADRAS												MINICOY											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·7	3·3	254	31	3·5	2·8	095	31	3·2	2·3	205	31	3·8	3·7	277	31	4·4	4·2	278	31	3·8	3·5	275
0·15 a. g.	31	5·9	5·7	251	31	6·1	4·6	182	29	7·5	6·2	215	28	7·7	7·3	278	30	8·3	7.9	280	31	7·1	6·7	276
0·3 a. m. s. l.	31	6·1	5·9	254	31	5·8	4·3	202	29	8·4	7·0	222	28	8·4	8·1	279	30	8·6	8·3	282	31	7·6	7·3	280
0·6 „	31	7·3	7·0	264	31	5·2	4·5	214	29	9·1	7·8	234	28	10·9	10·5	280	30	11·2	10·8	284	31	10·1	9·6	285
0·9 „	31	9·1	8·7	278	31	6·3	5·7	261	29	9·0	7·7	247	28	12·7	12·5	287	30	13·0	12·6	288	31	11·6	11·3	289
1·5 „	31	11·4	11·1	290	31	9·4	9·1	280	28	9·8	9·2	273	27	14·0	13·7	296	30	14·3	14·0	295	31	12·5	12·4	293
2·1 „	31	9·7	9·3	283	31	10·8	10·5	287	26	9·9	9·5	279	27	11·9	11·7	294	29	13·2	13·1	294	24	11·7	11·5	293
3·0 „	30	9·7	9·2	272	31	10·8	10·5	282	22	8·0	7·5	275	15	9·9	9·7	285	20	10·7	10·1	289	14	8·9	8·7	289
3·6 „	26	8·7	8·2	272	30	9·5	9·1	281	15	6·5	5·7	274	15	8·3	8·0	283	12	8·3	8·1	295	7	7.6	7·5	283
4·5 „	22	7·7	6·6	271	30	7·9	7·1	276	11	5·2	4·2	282	8	7·9	7·6	276	9	6·4	6·0	303	2	5·0	4·9	283
5·4 „	14	7·1	6·3	258	30	7·0	6·1	275	6	3·6	2·4	294	6	5·9	5·0	265	4	2·6	2·4	335				
6·0 „	12	6·4	5·6	253	29	6·4	5·2	279	4	2·7	1·5	313	3	4·7	1·2	260	3	2·3	1·7	207				
7·2 „	5	5·6	2·7	212	28	5·6	2·1	271					2	4·5	4·2	120	3	3·7	1·1	056				
9·0 „	2	5·3	4·0	073	27	7·3	5·0	089					1	7·5	7·5	090	2	4·3	3·3	068				

Station	MOHANBARI												NAGPUR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·9	0·2	053	31	0·4	0.1	060	31	0·8	0·6	052	31	1·9	1·8	256	31	4·5	4·0	274	31	2·6	2·3	270
0·15 a. g.	21	3·6	1·5	100	31	2·2	0·7	064	26	2·7	1·5	054	31	6·7	6.0	268	28	6·2	5·5	275	31	6·2	5·6	267
0·3 a. m. s. l.	21	3·7	2·1	098	31	2·1	0·7	074	26	2·7	1·4	065												
0·6 „	21	3·9	1·9	109	31	2·4	0·4	140	26	2·1	1·0	076	31	7·7	7·1	275	28	5·9	5·2	278	31	6·7	6·0	272
0·9 „	18	3·3	1·6	092	31	2·5	0·6	207	26	1·8	0·5	106	31	9·1	8·4	291	27	6·9	6·2	287	31	7·9	7.1	282
1·5 „	14	3·4	0·6	120	31	3·2	1·7	213	23	2·4	1·4	212	31	8·0	7·0	298	12	7·0	6·3	297	31	7·7	6·8	308
2·1 „	11	3·4	1·5	213	30	3·1	2·3	202	18	3·3	2·7	216	31	6·8	5·6	295	6	5·7	5·0	269	31	7·8	7·0	294
3·0 „	7	1·9	1·0	211	30	2·8	1·7	194	13	3·0	2·1	214	31	6·0	4·2	305	4	4·5	4·3	302	31	6·5	5·4	294
3·6 „	5	2·4	1·8	215	23	3·0	2·0	187	11	3·0	1·9	192	31	5·7	4·0	316	3	3·0	2·9	272	31	6·3	4·6	298
4·5 „	2	2·3	1·9	287	20	3·5	1·3	193					31	5·7	2·4	002	1	2·5	2·5	073	31	5·7	2·6	320
5·4 „					15	4·0	1·4	142					31	4·8	1·4	038					29	4·2	1·3	027
6·0 „					12	4·4	1·6	143					31	5·1	1·4	027					29	4·6	2·0	062
7·2 „					4	4·9	2·8	350					31	6·2	3·6	088					29	5·1	4·0	084
9·0 „													31	9·1	8·4	093					28	9·7	8·8	089

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	NAGPUR				NANPARA								NEW DELHI											
Time in I. S. T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	1·7	243	31	1·4	1·4	093	31	1.7	1·4	110	31	1·5	0·4	222	31	2·5	0·4	242	31	1·9	0·6	360
0·15 a. g.	27	5·8	4·6	260	24	5·2	4·5	110	31	4·4	3·4	130	31	5·2	0·4	231	26	3·9	0·2	328	31	4·0	1·1	017
0·3 a. m. s. l.					24	5·4	4·8	118	31	4·5	3·4	132	31	4·1	0·5	275	26	3·7	0·5	320	31	3·0	1·0	008
0·6 ,,	27	6·7	5·7	278	24	8·1	7·3	124	31	5·9	4·8	131	31	5·4	0·6	203	26	4·8	0·6	283	31	3·7	0·7	035
0·9 ,,	27	7·3	6·4	288	24	8·0	6·9	123	31	6·5	5·5	130	31	5·7	0·8	225	23	5·4	0·9	319	31	3·9	0·8	022
1·5 ,,	26	6 3	5·6	289	20	7·0	5·2	115	31	6·8	5·6	124	31	5·9	0·9	325	15	7·0	2·1	050	31	4·9	1·1	010
2·1 ,,	22	5·8	5·1	291	17	6·7	4·2	107	30	7·5	4·5	122	30	5·8	1·6	026	9	7·8	3·7	280	31	5·2	1·4	355
3·0 ,,	13	5·4	3·9	304	13	5·5	2·7	133	27	6·4	4·7	122	30	5·5	1·6	009	5	3·3	1·7	102	31	5·6	1·2	003
3·6 ,,	5	5·3	2·7	330	10	6·2	3·8	135	26	6·1	4·2	122	30	5·5	1·8	009	3	5·3	5·0	127	30	5·9	1·1	010
4·5 ,,	2	2·3	0.8	101	7	5·0	3·8	144	23	5·8	2·9	138	30	5·3	1·1	023	1	5·0	5·0	110	30	6·2	0·8	043
5·4 ,,	2	2·3	1·8	115	3	1·8	1·4	230	18	5·6	2·0	160	29	5·6	1·2	042	1	7·5	7·5	110	30	6·1	1·3	061
6·0 ,,	1	1·0	1·0	005	2	3·3	2.3	119	13	4·7	0·7	103	29	5·1	1·7	098					29	6·3	1·3	070
7·2 ,,	1	6.0	6·0	070	2	5·3	4·5	081	9	5·3	2·1	099	29	5·4	2·2	133					29	6·6	1·3	089
9·0 ,,									7	6·6	3·9	081	29	5·9	3·4	130					27	7·3	1·9	060

Station	NEW DELHI				POONA												PORT BLAIR							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	0·6	175	31	1·5	1·4	255	31	3·7	3·5	262	31	1·8	1·7	251	31	5·3	5·0	233	31	6·9	6·8	227
0·15 a. g.	28	4·7	1·3	142	31	6·4	6·3	256	31	9·0	9·0	260	31	6·7	6·6	253	29	11·0	10·5	234	29	9·6	9·4	239
0·3 a. m. s. l.																	29	11·2	10·9	235	29	10·6	10·4	230
0·6 ,,	29	3·9	1·4	154	31	3·1	3·0	260	31	5·7	5·5	261	31	3·7	3·6	254	29	13·2	12·8	237	29	13·6	13·3	232
0·9 ,,	28	5·0	0·3	104	31	8·5	8·4	258	31	9·9	9·8	258	31	8·8	8·7	257	28	15·2	14·8	242	23	13·4	13·3	239
1·5 ,,	26	5·6	0·7	034	16	13·5	13·3	264	20	13·1	13·0	261	18	11·7	11·5	262	28	14·7	14·5	248	4	12·3	12·1	238
2·1 ,,	25	5·9	0·9	348	9	11·7	11·4	269	3	14·5	14·4	271	7	10·1	9·4	266	28	13·3	13·0	252	2	12·3	12·2	237
3·0 ,,	7	6·1	1·5	358	3	3·7	3·2	275	1	6·0	6·0	290	3	6·3	6·3	310	28	12·1	11·6	258				
3·6 ,,	9	5·5	2·5	023	3	5·3	4·3	310					1	7·0	7·0	290	27	10·6	10·0	261				
4·5 ,,	2	5·5	4·2	095													25	9·7	8.1	263				
5·4 ,,	1	6·5	6·5	115													23	8·6	6·1	268				
6·0 ,,																	20	8·4	5·9	652				
7·2 ,,																	18	6·8	0·8	238				
9·0 ,,																	14	10·9	8·1	081				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	PORT BLAIR								RAIPUR												RAXAUL			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	6·5	6·1	225	31	4·8	4·6	232	31	1.8	1·7	233	31	2·1	1·8	247	31	2·1	1·9	230	31	1·4	1·5	085
0·15 a. g. .	30	10·9	10·5	235	28	8·4	8·2	232	21	7·0	6 5	244	22	5·7	5·3	251	14	8·4	8·1	234	26	6·2	5·7	092
0·3 a. m. s. l. .	30	11·1	10·8	235	28	10·0	9·7	232									14	9·1	8·3	250	26	7·0	6 5	095
0·6 „ .	30	14·4	13·5	238	28	12·3	12·0	238	21	8·8	7·8	270	22	6·7	6·1	255	14	8·8	8·3	261	24	8·3	7 9	108
0·9 „ .	29	16·2	15·5	247	24	11·8	11·5	245	20	8·2	6·9	281	21	7·4	6·8	259	14	7·8	7·3	277	22	8·5	8·5	107
1·5 „ .	29	15·1	14·4	251	15	10·7	10·4	250	19	6·7	5·6	300	18	6·8	5·4	277	11	7·0	6·8	279	17	8·4	8·1	105
2·1 „ .	29	13·4	12·8	255	6	8·9	8·8	244	15	6·3	5·5	298	15	5·8	4·2	290	8	4·6	4·4	271	16	7·8	7·1	104
3·0 „ .	28	11·4	10·8	260	2	5·7	5·7	250	12	5·1	4·1	292	11	6·1	3·9	281	4	3·9	3·3	252	6	6·1	4·3	096
3·6 „ .	26	9·1	8·5	260	1	6·0	6·0	250	9	4·3	1·3	309	4	5·6	3·7	270	1	4·5	4·5	095	4	3·8	2·4	108
4·5 „ .	27	7·3	6·7	250					5	5·2	4·9	092	4	5·9	0·7	299					4	4·4	3·3	122
5·4 „ .	25	5·9	4·5	231					4	5·9	5·4	098	3	2·5	0·4	195					3	1·3	0·6	194
6·0 „ .	24	6·3	3·1	230					3	5.3	4·5	108	1	1·5	1·5	195					2	1·5	1·5	034
7·2 „ .	23	6·1	0·9	115					1	8·5	8·5	090	1	3·0	3·0	280					1	5·0	5·0	065
9·0 „ .	22	10·3	7·7	080					1	13·0	13·0	065												

Station	RAXAUL				SANTA CRUZ																TIRUCHIRAPALLI			
Time in I. S. T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·9	093	31	4·8	4·4	246	31	4·5	3·9	237	31	5·7	5·4	262	31	4·2	3·8	240	31	5·4	5·4	270
0·15 a. g. .	30	4·4	3·0	110	31	8·1	7·7	250	29	7·2	6·8	240	31	8·1	7·7	255	31	7·0	6·5	240	31	9·4	9·3	269
0·3 a. m. s. l. .	30	4·6	3·2	113	31	8·9	8·6	250	29	8·3	8·1	239	31	8·3	7·9	252	31	7·9	7·5	244	31	11·2	10·9	271
0·6 „ .	30	5·1	4·1	115	31	9·2	9·0	250	26	9·5	9·2	247	31	8·9	8·6	250	28	8·7	8·3	248	31	15·3	15·1	272
0·9 „ .	30	6·1	5·0	114	31	9·8	9·6	252	23	10·1	9·9	252	31	9·5	9·2	252	23	9·1	8·9	252	31	14·0	13·8	275
1·5 „ .	27	7·6	6·7	113	31	9·8	9·6	252	13	10·2	10·1	260	30	9·6	9·3	255	8	8·6	8·4	253	31	11·0	10·6	272
2·1 „ .	21	6·7	6·2	110	30	9·1	8·9	255	4	9·5	9·1	255	30	8·9	8·7	260	4	9 4	9·5	266	31	8·5	8·0	272
3·0 „ .	16	6·3	5·8	110	30	8·4	7·8	262	1	1·5	1·5	345	30	9·1	8·6	267					25	7·2	6·8	283
3·6 „ .	15	5·4	4·5	112	30	7·0	5·6	279	1	2·0	2·0	055	30	8·4	7·3	279					23	7·9	7·4	275
4·5 „ .	11	4·0	1·8	122	30	5·7	4·4	303	1	3·0	3·0	080	30	6·9	5·6	280					14	7·8	7·2	266
5·4 „ .	9	2·9	0·0	289	29	5·3	3·5	323	1	6·0	6·0	060	30	5·1	2·5	294					8	6·6	5·3	255
6·0 „ .	6	2·9	0·5	306	29	5·1	2·7	343	1	6·0	6·0	070	29	5·0	1·8	328					7	5·5	3·1	203
7·2 „ .	3	4·2	2·4	097	29	6·0	2·9	035					29	5·3	1·6	059					3	7·8	5·8	128
9·0 „ .					28	7·9	5·6	071					27	8·2	6·0	075					1	6·0	6·0	05

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	TIRUCHIRAPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	7·9	6·3	257	31	6·4	5.7	265	31	3·1	2·6	304	31	4.0	3·6	308	31	5·8	5·4	302	31	2·1	1·9	329
0·15 a.g. .	30	9·3	7·8	256	28	10·0	9·6	269	31	7·7	6·8	305	31	7·0	6·3	298	31	8·4	8·1	306	28	6·9	6·6	309
0·3 a. m. s. l. .	30	9·4	8·1	259	28	11·1	10·8	269	31	8·9	7·1	304	31	7·7	7·1	300	31	8·6	8·2	305	28	8·4	7·9	310
0·6 „ .	30	9·1	8·3	262	28	14·4	14·2	271	31	9·3	8·8	295	24	10·6	10·3	300	31	10·4	10·2	302	28	11·3	10·9	306
0·9 „ .	30	8·7	8·4	263	28	13·3	13·1	272	31	11·1	10·5	295	16	13·1	12·6	297	31	11·6	11·4	303	27	12·7	12·4	303
1·5 „ .	30	9·1	8·9	268	28	9·6	9·3	275	31	12·1	11·7	295	8	14·1	13·8	298	31	12·0	11·7	302	20	12·8	12·7	302
2·1 „ .	27	9·6	9·2	271	27	8·2	7·9	274	31	11·7	11·5	292	5	14·9	14·8	302	31	12·0	11·7	295	16	12·3	12·1	295
3·0 „ .	22	10·4	9·9	277	22	8·3	7·7	284	31	10·8	10·5	284	1	7·5	7·5	305	31	10.8	10·5	284	9	8·5	8·3	284
3·6 „ .	16	8·9	8·5	281	7	5·1	3·8	245	31	9·0	8·6	281	1	9·0	9·0	315	31	8·9	8·5	279	7	5·2	4·8	273
4·5 „ .	10	5·3	3·9	282	1	6·5	6·5	270	31	7·8	7·3	271					31	7·2	6·4	272	6	2·8	1·6	267
5·4 „ .	7	6·8	4·7	251					31	5·9	4·3	278					31	5·8	4·6	278	5	3·6	1·8	203
6·0 „ .	6	8·3	3·9	209					31	5·2	2·5	278					31	5·0	3·2	275	4	4·4	4·1	122
7·2 „ .	4	6·0	2·7	143					31	5·0	1·2	071					31	4·9	1.5	052	1	7·5	7·5	080
9·0 „ .	3	9·5	9·1	091					31	8·0	6·7	081					31	8·2	6·8	085	1	8·0	8·0	105

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·7	251	31	2·0	1·6	248	31	0·8	0·7	215	31	2·3	2·2	260	31	2·4	2·0	266	31	2·3	2·1	265
0·15 a.g. .	31	3·6	3·0	249	30	4·2	3·4	236	29	3·1	2·8	230	30	8·0	7·7	260	29	7·6	7.4	268	28	7·0	6·7	262
0·3 a. m. s. l. .													30	9·5	9·2	265	29	9·6	9·3	271	28	8·1	7·9	265
0·6 „ .													29	11·2	10·8	266	27	11·7	11·4	272	27	9·9	9·7	267
0·9 „ .	29	5·3	4·5	262	30	4·9	3·8	246	28	4·2	3·9	245	7	11·4	11·1	275	16	12·2	11·8	276	14	10·7	10·3	269
1·5 „ .	18	6·2	4·6	271	26	6·0	5·1	263	23	5·2	4·4	258	1	6·5	6·5	265	3	12·3	11·8	279	5	11·0	10·5	278
2·1 „ .	13	3·2	1·0	047	20	4·7	3·8	247	19	3·1	1·1	290									3	8·7	8·2	282
3·0 „ .	8	4·0	3·1	055	14	3.5	2·1	262	13	3·6	1·7	007												
3·6 „ .	5	3·3	2·0	090	11	3·7	1·6	289	9	3·9	2·8	063												
4·5 „ .	2	3·5	3·2	155	7	4·0	0·8	315	2	4·0	3·9	198												
5.4 „ .	2	6·7	6·5	179	5	3·3	0·2	045	1	6·0	6·0	195												
6·0 „ .	2	5·5	3·9	175	4	4·4	1·7	143																
7·2 „ .					3	7·7	6·7	062																
9·0 „ .					1	7·5	7·5	020																

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·9	5·6	267	31	4·8	4·3	258	31	4·6	4·2	258	31	2·4	2·3	262	31	4·7	4·2	238	31	3·1	2·9	249
0·15 a.g. .	30	8·7	8·5	252	30	8·4	8·1	248	29	8·3	7·9	246	31	7·5	7·2	284	31	5·6	5·3	240	31	6·3	5·6	274
0·3 a.m.s.l. .	30	9·3	9·2	255	30	9·2	8·9	251	29	8·8	8·7	249	31	8·5	7·9	274	31	5·9	5·6	252	31	6·8	6·2	266
0·6 „ .	28	10·3	10·1	256	30	9·9	9·7	255	29	9·3	9·0	255	31	9·1	8·6	258	30	6·7	6·4	267	31	7.2	6·7	257
0·9 „ .	23	9·9	9·7	256	22	8·9	8·7	261	26	8·8	8·5	257	31	9·3	8·3	263	29	7·8	7·3	282	31	7·4	6·8	266
1·5 „ .	9	7·6	7·2	249	9	6·8	6·4	263	13	6·5	6·2	253	31	10·4	9·3	278	25	9·2	8·6	290	31	8·7	7·8	277
2·1 „ .	4	5·6	5·1	247	5	6·4	5·4	270	6	6·3	4·5	236	31	9·9	9·1	288	24	7·3	6·6	279	31	9·1	8·5	275
3·0 „ .	1	4·5	4·5	205	3	10·3	8·6	277	3	8·2	5·1	301	31	8·6	7·6	283	17	6·7	6·1	280	31	9·0	8·3	267
3·6 „ .					3	11·2	8·7	279	1	7·5	7·5	310	31	7·7	6·7	278	13	7·5	6·1	278	31	7·8	6·7	265
4·5 „ .					3	8·8	6·4	270					31	6·1	4·5	277	9	4·6	2·4	330	30	7·8	5·7	277
5·4 „ .					2	7·5	4·1	161					31	6·2	3·0	260	7	2·9	1·7	040	30	6·9	4·4	289
6·0 „ .					2	8·3	6·3	141					31	5·6	1·5	249	7	3·1	2·9	060	30	6·0	2·8	297
7·2 „ .					2	7·5	7·1	091					31	5·5	3·1	107	4	6·9	6·7	078	29	6·0	3·0	041
9·0 „ .													28	9·2	8·1	088	1	9·5	9·5	090	28	10·0	8·5	079

Station	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	31	2·5	2·3	228
0·15 a.g. .	30	5·1	4·9	236
0·3 a.m.s.l .	30	6·3	6·1	246
0·6 „ .	30	7·0	7·0	261
0·9 „ .	30	7·7	7·7	269
1·5 „ .	28	9·7	9·2	276
2·1 „ .	28	8·1	7·5	273
3·0 „ .	21	6·8	6·3	283
3·6 „ .	17	5·9	5·3	288
4·5 „ .	11	5·1	3·6	298
5·4 „ .	7	3·8	0·5	346
6·0 „ .	2	2·5	2·5	034
7·2 „ .	1	8·0	8·0	035
9·0 „ .				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Ht. in Km.	n	V	v	D
		AHMDEABAD*		
		0530 hrs.		
10·5	30	12·2	11·8	081
12·0	30	16·5	16·0	085
14·1	25	24·0	23·3	087
16·2	22	29·8	29·4	087
18·0	17	24·9	24·5	084
21·0	11	23·5	22·2	073
24·0	1	36·5	36·5	085
		1730 hrs.*		
10·5	27	13·1	12·6	083
12·0	27	18·7	18·4	083
14·1	21	28·4	27·4	085
16·2	17	29·6	28·7	078
18·0	11	21·9	21·6	085
21·0	4	21·6	21·0	078
		BAMRAULI		
		0530 hrs.*		
10·5	25	13·1	1[illegible]·6	093
12·0	2	17·2	16·5	086
14·1	11	21·9	19·8	076
16·2	1	23·7	23·9	087
18·9	1	23·0	23·0	090
		1730 hrs.*		
10·5	23	12·6	11·6	088
12·0	20	14·7	13·3	083
14·1	15	16·9	15·1	090
16·2	3	22·0	21·7	085
18·0	1	28·5	28·5	100
21·0	1	41·0	41·0	095
		BANGALORE		
		0530 hrs.		
10·5	1	16·0	16·0	090
12·0	1	24·5	24·5	120
14·1	1	34·0	34·0	100
		1730 hrs.		
10·5	4	17·6	17·5	096
12·0	2	21·0	20·9	099
14·1	2	35·7	35·7	092
16·2	1	33·5	33·5	090
18·0	1	13·5	13·5	080
21·0	1	12·0	12·0	075

Ht. in Km.	n	V	v	D
		BAREILLY		
		0530 hrs.		
10·5	1	3·0	3·0	170
		1730 hrs.		
10·5	2	8·0	4·6	025
12·0	2	9·2	3·6	354
14·1	2	8·0	4·0	101
16·2	2	19·7	15·7	109
18·0	1	24·5	24·5	070
		BEGUMPET		
		0530 hrs.		
10·5	1	1·5	1·5	295
12·0	1	2·5	2·5	010
		BHAGALPUR		
		0530 hrs.		
10·5	5	12·8	12·4	100
12·0	5	15·8	15·2	099
14·1	2	24·3	24·3	083
		17·0 hrs		
10·5	9	12·1	11·5	088
12·0	8	15·8	14·7	085
14·1	4	19·0	18·5	080
16·2	2	18·7	18·7	074
18·0	1	16·0	16·0	085
		BIKANER		
		1730 hrs.		
10·5	1	3·5	3·5	015
12·0	1	10·5	10·5	125
		DUM DUM		
		0530 hrs.*		
10·5	27	16·5	16·1	087
12·0	27	19·7	18·9	081
14·1	17	24·6	23·8	076
16·2	13	31·8	31·7	077
18·0	5	26·5	26·3	079
21·0	3	18·5	18·3	093
		1730 hrs.*		
10·5	30	14·3	14·0	085
12·0	30	16·4	15·5	082
14·1	28	21·7	20·9	077
16·2	25	28·8	28·6	085
18·0	13	23·4	23·3	090
21·0	5	18·3	18·3	079

Ht. in Km.	n	V	v	D
		GANNAVARAM		
		1730 hrs.		
10·5	2	8·7	7·8	093
		GAUHATI		
		0530 hrs.*		
10·5	20	12·0	11·2	031
12·0	17	15·3	14·4	076
14·1	10	20·3	19·2	071
16·2	1	13·5	13·5	080
		1130 hrs.		
10·5	3	13·5	13·5	105
12·0	2	18·3	18·3	085
14·1	1	17·5	17·5	095
16·2	1	13·5	13·5	086
18·0	1	17·5	17·5	090
		1730 hrs.*		
10·5	15	13·0	12·1	085
12·0	15	16·0	15·5	083
14·1	5	16·9	16·7	081
		GOPALPUR		
		0530 hrs.		
10·5	1	12·5	12·5	100
		GORAKHPUR		
		1730 hrs.		
10·5	1	8·0	8·0	055
12·0	1	13·0	13·0	010
		GWALIOR		
		0530 hrs.		
10·5	1	8·0	8·0	095
12·0	1	9·5	9·5	120
14·1	1	17·0	17·0	110
16·2	1	16·5	16·5	085
18·0	1	21·0	21·0	080
21·0	1	17·0	17·0	095
		1730 hrs.		
10·5	1	5·5	5·5	015
		IMPHAL		
		1730 hrs.		
10·5	1	7·5	7·5	345
12·0	1	11·5	11·5	320

Ht. in Km.	n	V	v	D
		IMPHAL		
		1730 hrs.		
10·5	2	9·7	8·6	074
12·0	1	14·5	14·5	060
14·1	1	18·0	18·0	060
16·2	1	18·5	18·5	085
		JAMSHEDPUR		
		0530 hrs.		
10·5	3	10·5	10·0	096
12·0	1	10·0	10·0	105
		1730 hrs.		
10·5	1	9·5	9·5	095
12·0	1	11·5	11·5	100
		JODHPUR		
		0530 hrs.*		
10·5	25	9·7	6·8	105
12·0	23	12·4	9·9	101
14·1	8	13·6	12·4	104
		1130 Hrs.		
10·5	1	8·5	8·5	120
		1730 hrs.*		
10·5	20	10·2	7·1	090
12·0	17	13·5	12·8	099
14·1	4	21·9	20·6	109
		MADRAS		
		0530 Hrs.*		
10·5	28	15·7	14·9	090
12·0	29	22·5	22·2	084
14·1	30	33·7	33·2	087
16·2	20	28·5	27·8	088
18·0	12	15·1	15·1	092
21·0	5	15·1	14·9	091
		1130 hrs.		
10·5	2	15·0	14·7	105
12·0	1	18·0	18·0	135
		1730 hrs.*		
10·5	26	14·4	13·7	093
12·0	25	21·6	21·2	086
14·1	21	30·0	29·6	087
16·2	17	33·4	32·8	094
18·0	16	25·8	24·9	087
21·0	7	15·9	15·6	085

Ht. in Km.	n	V	v	D
		MINICOY		
		0530 hrs.		
10·5	1	22·0	22·0	090
		1730 hrs.		
10·5	2	11·0	11·0	090
12·0	2	28·0	28·0	096
		NAGPUR		
		0530 hrs.*		
10·5	28	14·2	13·9	085
12·0	28	18·4	18·2	083
14·1	26	28·1	27·5	087
16·2	22	34·8	34·5	089
18·0	18	28·4	27·7	085
21·0	7	24·6	24·4	086
		1730 hrs.*		
10·5	28	15·8	15·0	091
12·0	28	18·7	18·5	085
14·1	27	27·2	26·4	082
16·2	25	31·5	31·2	083
18·0	10	25·3	24·2	089
21·0	7	16·9	16·8	091
		NANPARA		
		1730 hrs.		
10·5	6	7·4	6·5	102
12·0	3	11·0	9·7	106
14·1	2	8·0	7·5	120
16·2	1	10·0	10·0	060
18·0	1	17·0	17·0	080
21·0	1	22·5	22·5	095
		NEW DELHI		
		0530 hrs.*		
10·5	27	8·6	5·5	127
12·0	27	9·0	5·6	124
14·1	26	12·0	8·9	114
16·2	23	12·6	10·1	094
18·0	13	12·0	10·6	067
21·0	6	16·3	15·5	092
24·0	4	16·0	15·5	088

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Ht. in Km.	n	V	v	D
		NEW DELHI		
		1730 hr.**		
10·5	26	7·8	3·0	112
12·0	26	9·5	5·4	123
14·1	26	10·6	8·4	125
16·2	20	12·2	10·1	100
18·0	16	13·1	11·6	088
21·0	3	15·0	15·0	080
24·0	1	19·0	19·0	095
		PORT BLAIR		
		0530 hr.*		
10·5	12	16·1	14·7	069
12·0	11	22·5	22·1	075
14·1	3	36·8	36·7	076
16·2	1	15·5	15·5	080
		1730 hr.*		
10·5	17	16·0	15·4	066
12·0	14	19·9	19·3	061
14·1	6	30·1	29·5	070
16·2	3	31·8	31·3	077
		SANTA CRUZ		
		0530 hr.*		
10·5	28	11·0	10·4	090
12·0	28	15·0	14·2	090
14·1	15	22·5	21·2	096
16·2	5	28·2	28·0	105
18·0	1	17·5	17·5	110
		1730 hr.*		
10·5	26	12·7	11·7	083
12·0	26	17·6	16·3	089
14·1	5	26·0	25·0	090
16·2	8	46·8	36·0	112
		TIRUCHIRAPALLI		
		1730 hr.		
10·5	2	19·5	19·2	094
		TRIVANDRUM		
		0530 hr.*		
10·5	27	13·9	13·1	086
12·0	27	23·8	23·6	083
14·1	21	32·2	31·8	079
16·2	15	25·5	25·3	088
18·0	7	11·3	10·9	077
21·0	2	8·7	8·7	064
24·0	1	8·0	8·0	266

Ht. in Km.	n	V	v	D
		TRIVANDRUM		
		1730 hr.		
10·5	30	13·2	12·4	088
12·0	30	23·3	22·8	079
14·1	26	34·5	34·1	084
16·2	21	21·0	20·8	092
18·0	12	18·3	16·3	092
21·0	6	14·3	13·8	087
		VISAKHAPATNAM		
		0530 hr.*		
10·5	27	14·8	14·4	085
12·0	26	22·8	22·4	083
14·1	24	30·5	29·8	078
16·2	18	32·1	31·8	081
18·0	8	22·4	21·7	085
		1730 hr.*		
10·5	28	14·7	13·8	082
12·0	25	22·1	21·6	075
14·1	21	32·0	31·6	079
16·2	14	28·1	27·5	083
18·0	6	20·6	20·4	094

Ht. in Km.	n	V	v	D

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 112 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmedabad	Fan type	2nd July 1961	00 and 12	
2	Allahabad	Clock type	1st October 1944	00 and 12	
3	Bangolore	Fan type	10th March 1961	00 and 12	
4	Bombay	Clock type	7th September 1954	00 and 12	
5	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras	Fan type	29th June 1946	00 and 12	
9	Nagpur	Fan type	1st October 1946	00 and 12	
10	New Delhi	Clock type	3rd December 1943	00 and 12	
11	Port Blair	Fan type	4th December 1946	00 and 12	
12	Trivandrum	Fan type	1st July 1947	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

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

(A) From ascents at 00 hrs. GMT.

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (994 mb.)						ALLAHABAD (987 mb.)						BANGALORE (906 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Min.	Max.	Dew point
Surface	31	055	299·7	302	296	296·7	31	098	299·9	302	298	298·8	31	921	293·3	295	292	291·9
1000	31	005	..	..	..	..	31	−017	..	..	..	..	31	965	..	..	..	..
900	31	930	294·3	296	290	290·6	31	915	297·0	300	294	295·0	31	978	292·6	295	291	291·0
850	31	1423	291·6	295	288	297·7	31	1415	294·5	297	292	292·7	31	1469	289·9	292	288	288·1
800	31	1947	288·9	291	285	285·1	21	1940	291·9	295	290	290·0	31	1984	288·4	290	286	284·6
700	31	3070	285·0	291	278	276·2	31	3079	286·5	291	284	283·6	31	3107	283·0	285	281	277·7
600	31	4346	278·1	287	273	269·2	31	4367	280·3	284	278	276·5	30	4371	275·6	279	272	271·2
500	31	5812	269·4	273	264	..	31	5849	272·7	275	270	267·8	30	5823	267·8	270	265	266·7
400	30	7545	259·6	265	255	..	29	7602	263·0	267	261	247·0	30	7537	256·0	260	249	..
300	30	9680	245·5	250	238	..	27	9776	250·4	254	246	..	30	9633	241·0	246	235	..
250	30	10969	236·1	247	223	..	26	11096	242·1	251	237	..	30	10893	231·3	238	222	..
200	30	12474	223·9	235	210	..	23	12633	230·2	236	225	..	27	12373	219·5	229	209	..
175	29	13340	216·2	229	204	..	15	13518	223·7	229	219	..	26	13213	213·7	223	207	..
150	29	14298	209·2	224	197	..	15	14515	217·0	222	211	..	26	14176	207·5	221	195	..
125	26	15393	203·1	209	186	..	12	15661	209·6	216	203	..	24	15261	201·4	217	190	..
100	26	16715	198·9	209	193	..	8	16998	203·6	212	197	..	22	16565	197·3	206	188	..
80	20	18053	203·6	213	194	..	..	..	..	..	..	..	21	17893	201·0	203	189	..
70	17	18811	206·5	216	199	..	..	..	..	..	..	..	20	18701	203·6	216	194	..
60	15	19756	210·2	220	200	..	..	..	..	..	..	..	18	19639	206·3	218	195	..
50	12	20907	213·3	225	201	..	..	..	..	..	..	..	18	20687	209·8	221	196	..
40	8	22245	214·5	227	209	..	..	..	..	..	..	..	7	22006	210·9	220	197	..
30	5	24023	215·8	217	213	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	BOMBAY (1001 mb.)						CALCUTTA (999 mb.)						GAUHATI (996 mb.)					
Surface	31	013	299·2	300	298	297·4	31	006	299·7	303	297	298·5	30	049	300·6	303	299	299·3
1000	31	024	..	..	..	..	31	−005	..	..	..	..	30	014	..	..	..	..
900	31	947	294·0	296	291	291·8	31	922	295·0	299	292	293·1	30	942	296·1	298	294	293·9
850	31	1441	291·3	293	289	288·9	31	1418	292·5	296	289	290·6	30	1440	293·8	296	291	291·2
800	31	1960	288·7	290	287	286·0	31	1939	289·8	294	287	287·5	30	1964	291·1	295	289	288·5
700	31	3087	284·1	287	281	278·0	31	3069	284·5	289	280	281·2	30	3098	285·4	289	283	282·2
600	31	4362	277·8	281	275	271·1	31	4348	278·6	283	275	274·7	30	4377	279·1	283	277	275·4
500	30	5832	270·5	275	267	270·5	31	5824	271·3	275	268	266·2	30	5852	271·9	277	269	267·6
400	30	7573	260·9	265	257	..	30	7506	261·9	269	259	..	29	7606	262·9	267	258	..
300	29	9721	247·8	255	243	..	29	9730	248·7	253	244	..	26	9773	250·2	254	247	..
250	29	11022	238·8	246	233	..	29	11036	239·7	245	234	..	22	11091	241·6	245	237	..
200	29	12552	228·0	237	221	..	29	12566	228·0	234	221	..	20	12628	230·9	238	225	..
175	21	13438	221·9	230	214	..	24	13641	221·7	228	218	..	14	13524	224·5	229	217	..
150	19	14431	215·8	223	207	..	22	14444	215·6	222	209	..	10	14542	219·2	227	207	..
125	13	15545	208·0	217	199	..	15	15588	208·7	215	202	..	..	..	..	..	..	..
100	7	16881	201·0	209	195	..	15	16929	202·5	208	194	..	..	..	..	..	..	..
80	..	..	..	..	..	..	16	18299	204·7	209	199	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 00 Hours GMT.

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (974 mb.)						MADRAS (1003 mb.)						NAGPUR (965 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	300·6	304	299	296·6	31	015	298·7	300	297	296·3	31	311	297·5	299	296	296·1
1000	31	—015	..	..	..	..	31	041	..	..	..	..	31	063	..	..	..	..
900	31	917	296·8	301	293	292·1	31	966	294·9	298	293	289·3	31	930	295·5	298	294	291·8
850	31	1418	294·3	299	290	289·5	31	1462	292·5	295	289	287·1	31	1427	292·6	295	291	289·4
800	31	1957	292·3	295	286	286·2	31	1982	289·3	291	287	284·5	31	1949	289·7	293	287	286·8
700	31	3083	286·3	290	283	278·1	31	3106	282·1	285	278	278·5	31	3080	284·2	292	281	281·2
600	31	4369	280·0	283	275	269·6	31	4368	274·9	279	272	272·2	31	4355	277·7	281	275	275·8
500	31	5848	271·7	276	266	263·5	31	5819	267·2	271	265	..	31	5824	270·0	273	268	..
400	31	7600	263·2	268	257	..	31	7531	256·0	260	251	..	31	7562	260·5	264	258	..
300	29	9772	250·1	258	246	..	31	9628	240·9	245	233	..	30	9699	245·7	251	241	..
250	27	11081	241·2	245	236	..	30	10889	231·2	237	225	..	29	10987	235·5	241	229	..
200	27	12625	229·5	233	226	..	30	12357	218·3	225	210	..	29	12493	222·7	232	215	..
175	24	13503	223·1	228	217	..	30	13183	211·2	217	203	..	27	13347	217·5	227	209	..
150	22	14505	216·2	223	209	..	29	14130	203·5	211	195	..	27	14345	209·6	221	201	..
125	16	15648	209·5	218	202	..	27	15197	199·0	211	191	..	25	15498	202·8	209	196	..
100	15	17001	203·3	217	193	..	24	16495	196·9	205	192	.	25	16737	197·9	209	189	..
80	8	18327	203·0	210	197	..	18	17824	203·1	211	194	..	21	18019	201·0	215	189	..
70	5	19100	205·6	211	200	..	17	18598	205·3	215	198	..	20	18831	202·9	208	193	..
60	5	20033	209·8	213	202	..	16	19564	208·9	217	199	..	19	19759	206·7	213	199	..
50	..	..	..	..	..	..	15	20659	212·4	225	202	..	15	20857	210·3	217	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	9	22274	212·0	219	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI (975 mb.)						PORT BLAIR (998 mb.)						TRIVANDRUM (1001 mb.)					
Surface	31	209	299·6	302	297	298·3	28	079	298·3	299	295	296·8	31	064	297·3	298	295	296·1
1000	31	—022	..	..	..	..	28	063	..	..	..	..	31	071	..	..	..	..
900	31	910	296·7	299	291	291·1	28	982	293·5	295	291	291·4	31	989	291·9	294	291	289·9
850	31	1411	294·6	298	290	291·5	28	1475	291·0	293	288	288·0	31	1479	289·9	291	287	286·4
800	31	1936	291·7	295	288	288·8	28	1993	288·5	291	286	285·0	31	1994	286·9	289	285	283·2
700	31	3072	285·9	289	283	282·5	28	3116	283·6	285	281	278·0	31	3113	282·0	286	279	276·2
600	31	4365	280·3	288	277	275·8	28	4383	275·6	278	273	271·7	31	4376	275·1	280	273	269·0
500	31	5833	272·3	276	268	267·1	26	5839	268·0	271	265	..	31	5829	267·0	274	264	274·0
400	31	7588	263·5	267	260	262·0	25	7558	257·3	263	253	..	31	7540	255·4	267	249	..
300	30	9763	250·6	255	246	..	24	9665	241·7	249	234	..	30	9629	240·0	247	234	..
275	29	11073	241·2	247	236	..	24	10934	231·2	241	220	..	27	10878	229·5	239	218	..
200	29	12614	230·0	236	224	..	21	12400	217·7	234	203	..	27	12342	217·8	228	209	..
175	29	13500	223·3	230	217	..	21	13287	211·4	218	201	..	23	13165	211·7	223	205	..
150	26	14497	216·0	221	209	..	17	14181	204·2	212	198	..	21	14134	205·8	217	197	..
125	25	15626	207·8	213	202	..	13	15285	197·5	202	193	..	18	15223	201·3	209	194	..
100	21	16963	201·6	208	195	..	9	16542	196·6	203	191	..	18	16557	201·9	206	196	..
80	15	18251	200·6	206	195	..	..	..	..	..	..	..	13	17890	204·6	211	199	..
70	12	19023	203·0	210	197	..	..	..	..	..	..	..	11	18734	206·5	212	201	..
60	11	19942	207·0	215	200	..	..	..	..	..	..	..	11	19651	209·4	216	203	..
50	10	21074	213·0	219	208	..	..	..	..	..	..	..	9	20794	210·2	217	203	..
40	7	22495	213·1	223	212	..	..	..	..	..	..	..	5	22155	210·8	218	207	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From ascents at 00 hours GMT.

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

VISAKHAPATNAM
Surf. Pr. (997 mb.)

Standard Pressure Surface mb.	No. of obs.	Ht. gpm.	Temperature °A Mean	Max.	Min.	Dew point.
Surface	31	041	299·9	301	298	297·2
1000	31	009	..	..	..	..
900	31	937	295·6	293	293	291·1
850	31	1534	292·5	296	290	288·8
800	31	1955	289·5	293	285	286·2
700	31	3081	283·3	287	279	279·9
600	31	4348	275·8	281	273	273·4
500	31	5805	267·6	271	261	..
400	31	7524	256·9	261	252	..
300	28	9630	242·0	249	237	..
250	26	10899	231·7	240	223	..
200	25	12375	218·8	228	211	..
175	22	13200	211·1	221	202	..
150	21	14139	203·2	216	193	..
125	15	15913	196·8	206	188	..
100	13	16503	195·0	203	189	..
80	9	17803	199·2	211	189	..
70	8	18630	202·3	211	195	..
60	5	19510	203·4	215	201	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From ascents at 12 hours GMT.

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Standard Pressuer Surface mb.	AHMEDABAD Surf. Pr. (993 mb.)						ALLAHABAD (985 mb.)						BANGALORE (905 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	303·5	307	298	298·0	30	098	302·6	307	299	299·2	31	921	297·6	302	293	291·8
1000	31	—012	..	..	..	..	30	—033	..	..	..	..	31	038	..	..	..	..
900	31	922	296·5	301	293	292·8	30	906	298·3	301	296	295·1	31	965	297·0	301	293	291·6
850	31	1419	293·0	300	289	289·6	30	1408	295·6	297	293	292·3	31	1462	293·2	296	290	288·6
800	31	1941	290·0	297	285	287·1	30	1934	292·7	295	290	289·6	31	1982	289·3	291	286	286·0
700	31	3072	285·2	291	281	279·1	30	3077	287·2	289	285	283·5	31	3106	283·2	286	279	279·5
600	30	4351	278·3	283	274	271·3	30	4367	281·1	285	278	276·1	31	4373	276·0	279	273	272·6
500	30	5817	269·9	277	263	266·9	30	5835	273·1	276	271	268·4	31	5831	269·1	272	264	265·5
400	29	7548	259·7	263	250	..	29	7610	263·9	267	261	..	30	7554	258·0	262	251	..
300	27	9683	245·8	251	235	..	28	9782	251·0	256	247	..	30	9664	242·3	249	234	..
250	27	10970	235·7	243	226	..	25	11105	242·2	248	236	..	30	10936	232·3	239	224	..
200	27	12473	223·4	229	216	..	24	12654	231·0	238	223	..	29	12414	220·6	229	209	..
175	24	13324	215·2	221	208	.	18	13551	225·0	231	217	..	29	13252	213·2	225	201	..
150	23	14288	207·5	217	197	..	13	14554	217·0	224	208	..	28	14217	206·3	221	194	..
125	21	15366	199·4	210	193	..	9	15741	211·6	216	207	..	28	15284	200·2	214	190	..
100	19	16663	197·6	206	187	..	7	17104	205·1	208	200	..	27	16597	197·9	208	191	..
80	15	17981	203·1	214	187	..	5	18429	200·4	206	197	..	20	17912	200·7	209	189	..
70	12	18781	207·8	217	200	..	..	..	..	..	..	..	18	18707	204·0	212	190	..
60	9	19717	210·8	219	201	..	..	..	..	..	..	..	14	19639	206·1	214	192	..
50	5	20941	213·2	222	206	..	..	..	..	..	..	..	11	20696	210·1	219	197	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22041	210·8	214	209	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressuer Surface mb.	BOMBAY (1001 mb.)						CALCUTTA (997 mb.)						GAUHATI (993 mb.)					
Surface	31	061	300·7	303	298	298·0	31	006	302·2	307	299	299·5	30	049	302·7	307	300	299·6
1000	31	023	..	..	..	..	31	—021	..	..	..	..	30	—013	..	..	..	..
900	31	948	294·5	297	292	291·9	31	911	295·9	300	293	293·7	30	921	297·5	300	295	292·5
850	31	1443	291·7	294	290	289·4	31	1410	293·4	297	290	290·9	30	1420	294·5	297	292	291·6
800	31	1963	289·3	292	287	286·7	31	1933	290·8	294	287	288·4	31	1944	291·5	294	289	288·7
700	31	3091	284·9	287	281	278·8	31	3068	285·7	289	283	282·4	30	3080	285·9	288	283	283·0
600	31	4368	278·5	282	276	271·4	31	4351	279·5	283	276	275·6	30	4364	280·0	283	275	276·1
500	31	5841	271·4	275	265	265·6	31	5830	272·0	275	268	267·2	30	5844	272·4	275	266	269·6
400	30	7591	261·8	268	258	..	31	7579	262·5	266	258	..	27	7593	262·8	267	259	..
300	30	9749	249·1	257	245	..	31	9737	249·0	253	244	..	22	9764	250·0	255	243	..
250	29	11050	240·8	246	234	..	30	11045	240·0	244	233	..	17	11076	240·8	245	233	..
200	29	12600	230·2	239	222	..	30	12579	228·5	235	221	..	15	12613	229·3	233	221	..
175	20	13447	224·7	234	216	..	28	13451	221·4	229	214	..	10	13496	222·0	230	213	..
150	17	14504	218·6	229	213	..	26	14447	214·0	224	205	..	..	..	..	..	..	..
125	12	15631	210·3	223	206	..	25	15566	206·6	216	197	..	..	..	..	..	..	..
100	8	17009	205·4	216	201	..	22	16903	200·8	208	194	..	..	..	..	..	..	..
80	..	..	..	..	..	..	12	18215	201·7	209	191	..	..	..	..	..	..	..
70	..	..	..	..	..	..	9	18971	202·8	212	195	..	..	..	..	..	..	..
60	..	..	..	..	..	..	9	19890	208·3	217	203	..	..	..	..	..	..	..
50	..	..	..	..	..	..	8	21043	213·1	225	207	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

August, 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (975 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point	MADRAS (1001 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point	NAGPUR (964 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point
Surface	31	218	307·1	311	300	295·8	31	015	303·2	306	293	297·9	31	311	301·1	305	298	296·8
1000	31	—033	..	..	..	..	31	023	..	..	..	..	31	—013	..	..	..	..
900	31	919	300·9	305	297	291·9	31	956	296·5	299	293	291·9	31	922	297·1	299	295	292·3
850	31	1423	296·8	301	292	289·2	31	1454	292·7	295	290	289·1	31	1421	293·7	296	292	290·2
800	31	1952	293·0	300	289	286·0	31	1974	288·9	292	287	285·7	31	1944	290·7	293	289	287·2
700	31	3095	287·8	291	284	277·9	31	3098	282·2	285	280	278·6	31	3078	284·5	289	280	281·1
600	31	4388	280·9	283	276	269·8	31	4364	276·1	279	274	271·5	31	4358	278·4	282	275	274·1
500	30	5875	273·2	277	267	265·7	31	5320	268·1	271	265	..	29	5830	270·4	273	268	268·4
400	27	7640	264·6	268	260	..	29	7538	257·1	261	253	..	29	7569	260·4	265	256	..
300	24	9823	252·2	256	248	..	29	9644	244·9	247	237	.	28	9713	246·6	251	240	..
250	22	11167	243·7	249	240	..	27	10910	231·7	238	226	..	28	11007	236·4	243	229	..
200	20	12714	233·1	238	229	..	27	12379	213·2	229	212	..	28	12519	224·7	234	217	..
175	17	13620	227·2	231	219	..	23	13207	211·9	222	204	..	28	13373	217·7	225	208	..
150	13	14645	220·7	226	216	..	22	14157	205·1	216	195	..	27	14351	210·4	219	199	..
125	9	15825	213·5	219	206	..	20	15235	199·3	212	192	..	27	15435	200·7	213	193	..
100	5	17198	207·4	209	205	..	19	16541	198·4	209	189	..	27	16777	199·3	210	191	..
80	..	..	..	..	..	..	15	17839	201·4	211	194	..	25	18114	201·7	212	189	..
70	..	..	..	..	..	..	13	18604	204·2	212	198	..	24	18919	204·4	216	192	..
60	..	..	..	..	..	..	11	19524	205·9	216	198	..	20	19834	206·7	217	196	..
50	..	..	..	..	..	..	11	20568	209·1	219	199	..	12	20924	209·4	219	200	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22373	214·0	223	209	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI (973 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point	PORT BLAIR (997 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point	TRIVANDRUM (1000 mb.) No. of obs.	Ht. gpm.	Temperature A Mean	Max.	Min.	Dew point
Surface	31	209	302·9	307	299	299·2	31	079	295·0	301	296	297·1	31	064	300·0	301	298	296·7
1000	31	—034	..	..	..	..	31	053	..	..	..	..	31	062	..	..	..	..
900	31	906	298·6	302	294	294·6	31	975	293·5	296	291	291·0	31	986	292·7	295	291	289·2
850	31	1408	295·8	299	293	291·8	31	1467	290·7	295	287	288·1	31	1478	290·1	293	288	286·0
800	31	1932	292·9	295	289	289·1	31	1984	288·3	293	285	285·0	31	1995	287·8	291	283	283·2
700	31	3076	287·0	290	284	282·4	31	3105	282·6	289	279	278·6	31	3118	282·7	286	277	275·6
600	31	4367	280·8	285	278	275·3	31	4370	275·2	279	271	271·0	31	4385	276·0	279	270	269·1
500	30	5852	273·3	277	270	267·7	29	5821	267·3	274	260	269·5	31	5843	267·8	275	263	..
400	30	7610	264·1	267	260	..	29	7539	257·2	267	248	..	31	7562	257·6	267	253	..
300	28	9783	250·6	256	247	..	27	9657	243·3	255	236	..	30	9664	240·2	251	234	..
250	28	11099	241·7	247	237	..	24	10924	233·2	243	225	..	30	10919	229·9	238	223	..
200	28	12642	230·2	236	224	..	23	12400	220·8	233	213	..	29	12386	217·6	226	210	..
175	28	13531	223·3	229	216	..	18	13266	214·1	227	203	..	27	13214	211·5	221	204	..
150	25	14523	216·0	222	208	..	14	14194	205·2	221	191	..	26	14180	204·9	217	200	..
125	23	15652	207·3	215	198	..	9	15261	200·3	216	193	..	23	15260	200·7	211	195	..
100	22	16991	200·9	208	194	..	6	16581	200·2	210	193	..	21	16575	200·4	207	195	..
80	18	18313	203·1	211	198	..	..	..	..	..	..	..	17	17909	203·8	213	196	..
70	14	19161	206·7	216	199	..	..	..	..	..	..	..	13	18717	206·0	216	197	..
60	12	20108	211·9	217	203	..	..	..	..	..	..	..	10	19566	207·5	217	199	..
50	9	21274	217·9	224	213	..	..	..	..	..	..	..	7	20677	209·0	220	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12 Hours GMT.

August 1961 (Sravana 10—Bhadra 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (996 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	301·8	304	300	298·1
1000	31	—007	..	..	..	..
900	31	925	296·3	299	293	292·0
850	31	1421	293·3	296	291	288·9
800	31	1943	290·2	294	288	285·7
700	31	3073	284·0	288	281	279·9
600	30	4346	276·7	280	273	272·9
500	30	5805	268·6	273	263	..
400	29	7527	257·6	263	254	..
300	28	9641	242·6	251	238	..
250	28	10911	232·3	242	226	..
200	26	12385	219·1	231	212	..
175	22	13205	211·2	217	206	..
150	22	14167	203·6	211	199	..
125	17	15232	197·1	207	189	..
100	16	16534	197·9	206	193	..
80	8	17843	202·1	208	194	..
70	7	18617	205·8	211	202	..
60	..	..	..	..	..	..
50	..	..	..	..	..	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

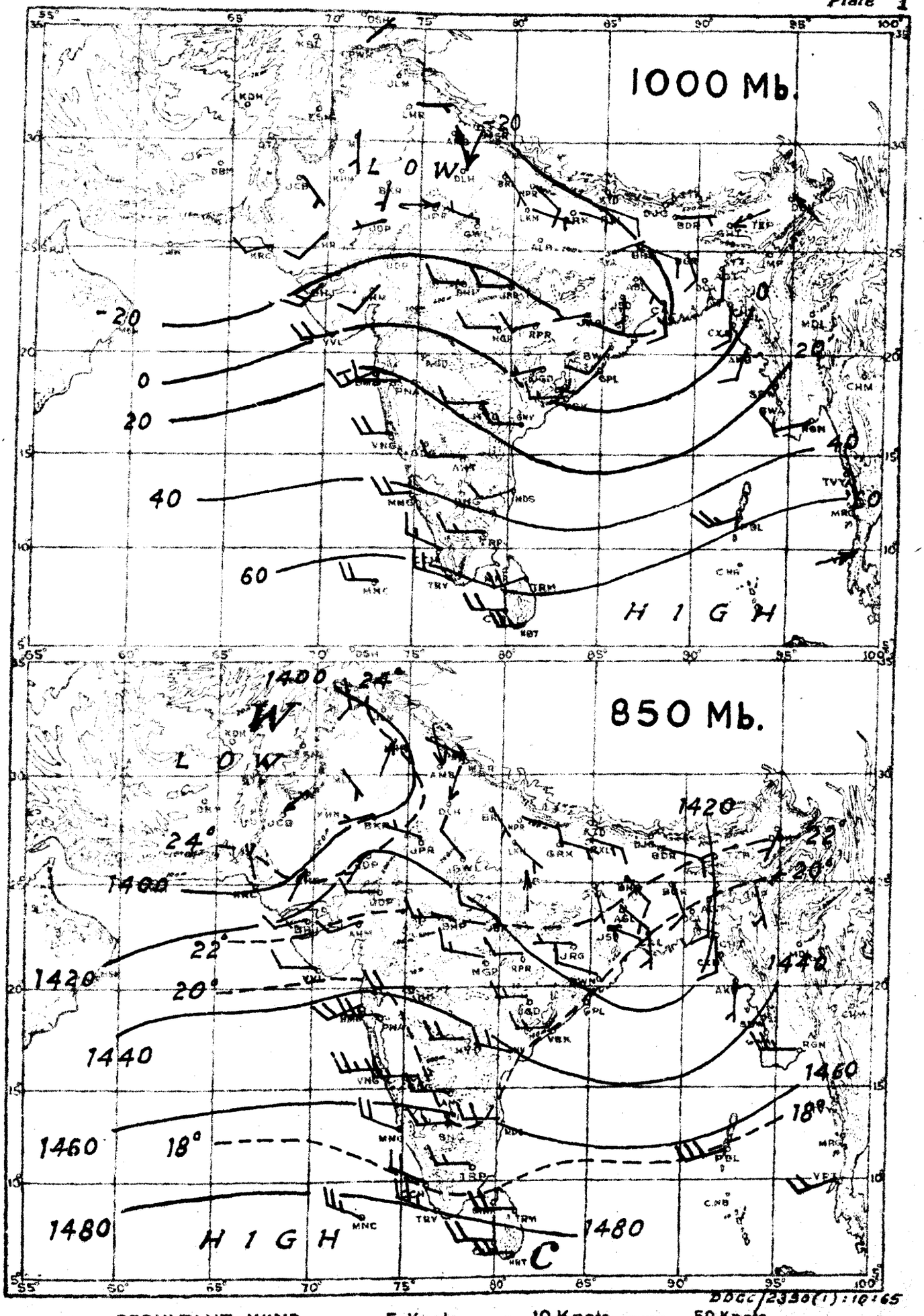
GIPN—S5—408 D. D. G. Obs. Poona/65—9-12-65—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

AUGUST-1961

I. Met. D

Plate I



DDCC/2350(1):10:65

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

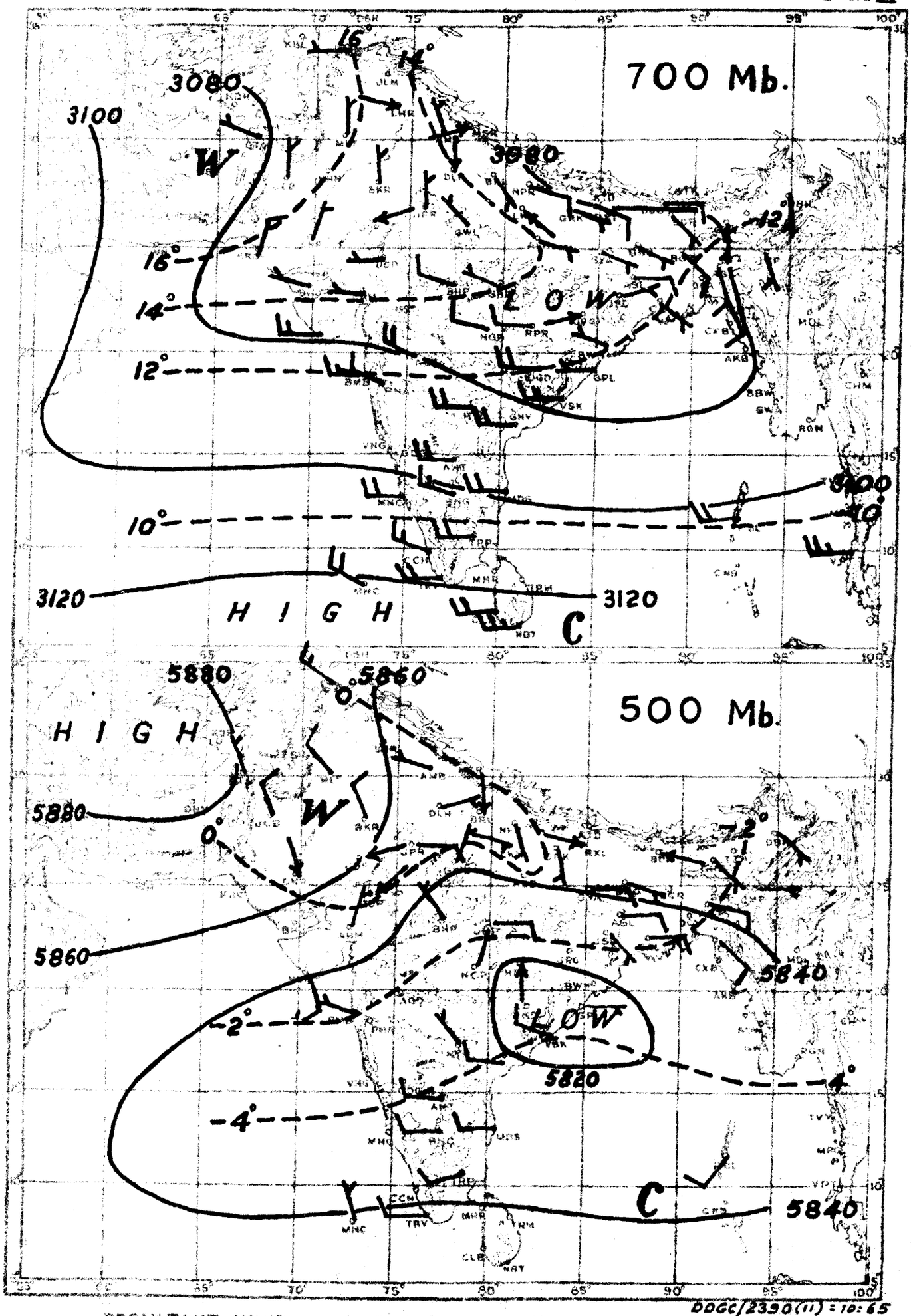
--------- Isotherms in degrees centigrade ——— Contours in geopotential metres.

G.P.Z.D.POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

AUGUST—1961

Plate II



DDGC/2390(11) : 10: 65

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

Q.P.Z.P. POONA, 1965

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

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INDIA WEATHER REVIEW 1961

Monthly Weather Report

September

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U. S. Dept. of Commerce

Published by authority of the Government of India

Chief feature—

Formation of a series of depressions over the head Bay of Bengal and their westnorthwesterly movement, attended by spells of heavy rains and floods in the central parts of the country.

A well marked low pressure area which developed over the northwest Bay of Bengal and adjoining coast on 31st August moved in a westnorthwesterly direction and lay over Rajasthan and neighbourhood on 6th September. Without appreciable movement, it weakened and became unimportant by 9th. In association with it, active or vigorous monsoon conditions prevailed in east Madhya Pradesh and adjoining Orissa from 1st to 3rd September, in Vidarbha on 3rd and in west Madhya Pradesh and east Rajasthan from 3rd to 5th. Gondia reported 28 cm of rain and Sambalpur 22 cm on 2nd, Mount Abu 20 cm on 5th and 16 cm on 6th and Jhalawar and Neemuch 15 cm each on 5th. According to press reports, floods occurred in the rivers of Madhya Pradesh and Vidarbha. Between Gondia and Gangazari, one hundred feet of railway line were washed away by the flood waters.

Another low pressure area appeared over the head Bay of Bengal on 5th and concentrated into a deep depression which was centred near Kharagpur on the morning of 6th. With undiminished intensity, it reached Sind on 13th and emerged into the northeast Arabian Sea on 14th. Moving in a westsouthwesterly direction, it moved away across Saudi Arabian coast by 17th. Very heavy rain was recorded to the south of the track of this deep depression over the Indian territory. Cuttack reported 21 cm and Balasore 18 cm on 7th, Pachmarhi 38 cm, Jaisalmer 32 cm, Betul 24 cm and Hoshangabad 17 cm on 9th and Mount Abu 33 cm on 13th. According to press reports, this spell of very heavy rains caused large scale floods in Orissa, Vidarbha, southwest Madhya Pradesh and Gujarat State. An area of approximately 2,500 sq. miles with a population of over 10 lakhs was affected by floods in Orissa. Several houses in the low-lying areas of the Cuttack City collapsed. The river Narbada was in serious floods. The entire Rann of Kutch was reported to be under water. Landslides occurred on the road from Abu Road to Mount Abu.

A well marked low formed over the northeast Bay of Bengal on 10th. It rapidly intensified into a cyclonic storm and lay with centre about 100 kms southsouthwest of Cox's Bazaar on the morning of 12th. Moving westnorthwestwards, it crossed coast near Contai on 13th morning, weakened and lay as a deep depression over northwest Orissa and neighbourhood on 14th and over central Madhya Pradesh on 15th. Recurving northwards, it weakened and filled up over Uttar Pradesh by 18th. In association with it, active to vigorous monsoon conditions prevailed in coastal West Bengal on 13th, in north Orissa on 14th, in east Madhya Pradesh on 14th and 15th and in west Madhya Pradesh and Vidarbha on 15th and 16th. Some noteworthy amounts of rainfall were : Saugor Island 15 cm on 13th, Raigarh 21 cm on 14th, Pachmarhi 32 cm on 15th and Betul 27 cm on 16th. As a result of heavy rains, the rivers in Vidarbha and Madhya Pradesh burst their banks and caused devastating floods. At Mortakke Railway bridge near Barwaha, the river Narbada registered a level of 571 ft. on 16th-17th September 1961, against the previous record of 563 ft. The floods in Vidarbha were reported to have caused damage to the extent of about 4 crore rupees.

A depression formed over the head Bay of Bengal on 22nd, crossed coast between Balasore and Contai and filled up over north Madhya Pradesh and neighbourhood by 28th. In association with it, the monsoon was active in Gangetic West Bengal on 22nd, in Bihar State on 23rd, in east Madhya Pradesh on 22nd and 23rd, in east Uttar Pradesh on 24th and active or vigorous in west Madhya Pradesh from 25th to 28th. Bhopal reported 23 cm on 20th and Ratlam 15 cm on 28th. As a result of persistent heavy rains in west Madhya Pradesh, the rivers Chambal and Narbada were in floods.

Another depression developed over northwest Bay of Bengal on 27th, became deep by 28th. It crossed the Sunderbans coast the same day and lay over extreme northeast Madhya Pradesh and adjoining Bihar State on 30th. Very heavy rain occurred near the track of this deep depression. Saugor Island reported 30 cm, Contai 21 cm and Balasore 20 cm on 29th.

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1—409 D.D.G. Obs. P./65

The rainfall for the month was in large defect in Rayalaseema and Interior Mysore State, in moderate defect in Sub-Himalayan West Bengal, east Uttar Pradesh, the Punjab (I), Jammu & Kashmir, the Konkan, Madhya Maharashtra and Marathwada, in slight defect in Assam, Bihar plains and Telangana and normal in west Uttar Pradesh, coastal Andhra Pradesh and the Madras State. It was in moderate excess in Gangetic West Bengal, Bihar Plateau and the Arabian Sea Islands and in large excess over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in Jammu and Kashmir, below normal in Orissa, Rajasthan, Madhya Pradesh, Gujarat State and Vidarbha and normal over the rest of the country outside Himachal Pradesh.

The mean minimum temperature was above normal in the Punjab(I), Jammu and Kashmir and west Rajasthan and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in west Uttar Pradesh, the Punjab(I), Rajasthan, west Madhya Pradesh and Gujarat State, below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Orissa, Bihar Plateau, Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat State, Marathwada, Vidarbha, the Madras State, coastal and north Interior Mysore and the Arabian Sea Islands and normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,

The 27th November, 1961.

R. ANANTHAKRISHNAN,

for *Director General of Observatories.*

Errata to M.W.R. for September 1961 (Bhadra 10 - Asvina 8, 1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
460	Tezpur		3	0.5	+0.5
460	Balurghat		17	9.	9.0
461	Patna		14	23	24
461	Gonda		23	8	3
462	Halwara (Aerodrome)		1	Ralwara(aerodrome)	Halwara(aerodrome).
464	Bhutakia Bhimasar		9	4	14
464	Ratnagiri		10	Not clear	53.4
465	Pusad		14	Not clear	8
466	Mangalore (Bajpe)		8	20.0	20.9
466	Gulbarga		4	44.7	34.6
466	Belgaum		8	13.5	18.5
466	Belgaum (Samra)		20 a	1	0
466	Belgaum (Samra)		27	1	0
466	Gadag		2	20.1	29.1
466	Gadag		7	-0.1	+0.1
466	Balehonnur		12	+36.9	-36.9
466	Hassan		23	2	0
466	Simla		12	-21.1	+21.1
466	Badrinath		1	Badrinath	Badrinath(R)
466	Kalimpong		6	17.4	17.9
467	Sallayana		2	6.7(0)	26.7(o)
467	Butwal		13	50.0	50.4
468	Okhaldhunga		28	Blank	0
Table III					
469	Port Blair	0830	6	+0.8	+0.8
470	Balurghat	0830	20	10	1
472	Phulbani	0830	24	4	5
472	Phulbani	0830	25	1	0
472	Bhubaneshwar	0830	27	Blank	5
472	Daltonganj	1730	4	999.1	999.8
472	Daltonganj	1730	5	974.6	974.2
472	Chaibasa	0830	11	Blank	83
472	Darbhanga	0830	1	Darbhanga	Delete(R)
472	Darbhanga	1730	1	Darbhanga	Delete(R)
474	Kanpur	0830	24	0	1
474	Kanpur	0830	26	1	0
474	Kanpur	1730	19	Blank	5
474	Kanpur aerodrome	1730	3	97	delete
474	Sultanpur	1730	15	3.6	2.6
474	Varanasi (Babatpur)	0530	10	3 21	32.1
475	Amritsar (Rajasansi)	0530	6	Departure (-3.0) for hour 0530 read for 0830.	
476	Palam (aerodrome)	0830	11	2	82
476	Jammu (Aerodrome)	1730	11	28	68
477	Tonk	1730	4	998.1	998.7
477	Kota - Delete (R) for hours 0830 and 1730 and put (R) for hours 0530, 1130 and 2330.				
477	Udaipur	0530	4	1002.5	1002.6
478	Nimach	0830	8	22.3	22.8
478	Bhopal (Bairagarh)	1130	4	1003.3	1003.2

(Contd.2)

Page No.	Station	Hour	Column	For	Read
Table III (contd).					
479	Pendra	1730	4	994.4	999.4
479	Pendra	2330	9	22.9	22.0
479	Deesa	0830	9	24.2	24.3
479	Radhanpur	0830	7	26.2	26.6
479	Foot Note	-	-	‡ Observations for days.	‡ Observations for 24 days.
480	Surendranagar	0830	5	Not clear	996.1
480	Surendranagar	0830	15	24.0	14.0
480	Porbandar	0830	24	19	10
480	Porbandar	1730	18	25	24
480	Harnai	0830) 1730)	6	Departure (-0.8) for hour 1730 should be read for hour 0830.	
480	Ratnagiri	0830	3	34	35
481	Poona (aerodrome)	2330	7	21.4	21.5
481	Aurangabad (Chikalthan)	0530	19	2	0
481	Parbhani	0830	6	+0.1	-0.1
483	Hanamkonda	0830	5	996.1	976.1
484	Nagapattinam	1730	23	Blank	9
484	Madurai aerodrome	1730	5	990.0	990.5
484	Tondi	0830	7	28.9	28.8
485	Bidar	1730	7	37.5	27.5
485	Bellary	1730	21	8	0
485	Chitradurga	0830	14	+0.2	-0.2
485	Foot Note - Delete * Data not available and (a) Meanof 30 days.				
487	Katmandu	0830	15	...	0
487	Hirakud	0830	10	2.69	29.6
487	Tehri	0830	13	5.1(g)	5.1
488	Gezing	1730	11	9	89

Contd.3

Page No.	Station	Time in I.S.T	Ht.in Km.	Entry under column	Existing entry	Correct entry
490	Bamrauli	1130	Approximate time of ascent		1730	1130
491	Ahmedabad	1730	4.5	D	59	359
491	Ahmedabad	1730	5.4	D	42	042
491	Ahmedabad	1730	6.0	D		060
491	Ahmedabad	1730	7.2	D		072
492	Baghdogra	2330	7.2	v	3.5	7.0
492	Bairagarh	0530	5.4	v	5.4	5.5
492	Bairagharh	1730	3.0	D	344	343
492	Bairagarh	1730	3.6	D	353	354
494	Bhuj	0530	Surface	v	2.	2.5
495	Darjeeling	0530	Surface	V v D	0.0,0.0,000	Calm
496	Dum Dum	2330	0.3	v	4.9	4.0
497	Gopalpur	1730	6.0	D	240	204
499	Jaipur	2330	Surface	v	1.5	0.1
500	Mohanbari	0530	5.4	v	1.9	2.0
500	Mohanbari	0530	6.0	v	3.4	3.5
500	Mohanbari	0530	7.2	v	6.9	7.0
500	Nagpur	1130	3.6	v	7.6	7.5
502	Raxaul	0530	3.6	v	3.5	3.0
503	Trivandrum	1730 & 2330	7.2 & 9.0	n V v D	Values for the levels 7.2 for 1730 and 2330 and 9.0 for 1730 are slightly printed up.	
504	Visakhapatnam	1130	6.0	v	1.07	1.7
505	Amausi	1730	10.5	v	6.3	6.5
505	Ambala	0530	10.5	V, v	1.30, 1.03	13.0, 13.0
506	New Delhi	1730	27.0	Ht.in Km.	24.0	27.0
506	Santa Cruz	1730	Time of ascent		1750	1730
506	Santa Cruz	1730	12.0	V	14.3	14.6
506	Santa Cruz	1730	18.0	v	19.9	20.0

RADIOSONDE DATA

508	Allahabad	00 GMT	Surface	Mean	295.5	299.5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	235·0	81	31·5	24·4	84	81	6·0	5·0
	−56·9		+0·6	+0·4	−1		+0·1	
2. West Bengal	343·6	113	31·3	25·4	84	83	5·8	5·8
	+39·5		−0·5	0	+1		+0.4	
3. Orissa	521·9	219	29·9	24·6	87	84	6·6	6·7
	+283·8		−1·1	−0·3	+4		+1·3	
4. Bihar	218·1	101	31·4	24·7	85	82	5·9	5·9
	+1·2		−0·1	−0·1	+3		+1·0	
5. Uttar Pradesh	143·5	80	32·8	25.1	83	75	4·3	4·6
	−36·0		0	+0·9	+5		+1·1	
6. Punjab (India) (Including Delhi)*	64·4	50	34·5	25·2	81	65	2·4	2·7
	−65·1		−0·2	+1·4	+10		+0·1	
7. Jammu and Kashmir	17·5	54	25·0	10·4	62	48	2·2	2.9
	−14·9		+2·6	+2·6	−10		−0·2	
Sub-Division								
1. Bay Islands	705·1	160	28·4	23·3	88	93	7·2	7·6
	+263·1		0	+0·1	+4		+1·0	
2. Assam (Including Manipur, Tripura)	235·0	81	31·5	24·4	84	81	6·0	5·0
	−56·9		+0·6	+0·4	−1		+0·5	
3. Sub-Himalayan West Bengal	300·3	64	31·3	24·9	83	80	5·7	5.0
	−165·4		−0·2	+0·3	0		+0·9	
4. Gangetic West Bengal	359·3	146	31·2	25·5	84	84	5·8	6·0
	+114·0		−0·6	−0·1	+1		+0·2	
5. Orissa	521·9	219	29·9	24·6	87	84	6·6	6·7
	+283·8		−1·1	−0·3	+4		+1·3	
6. Bihar Plateau	301·9	143	30·5	23·4	84	84	6·2	6·5
	+90·3		−0·5	−0·5	+4		+1·3	
7. Bihar Plains	167·9	76	32·2	26·0	83	81	5·6	5·3
	−52·3		+0·2	+0·4	+3		+0·8	
8. Uttar Pradesh (East)	128·2	66	32·9	25·5	82	76	5·0	4·8
	−66·2		0	+0·8	+3		+1·4	
9. Uttar Pradesh (West)	160·7	99	32·7	24·6	83	73	3·5	4·4
	−1·9		0	+1·0	+7		+0·7	
10. Punjab (India) (Including Delhi).	64·4	50	34·5	25·2	81	65	2·4	2·7
	−65·1		−0·2	+1·4	+10		+0·1	
11. Himachal Pradesh	129·9	..	30·9	21·3	88	71	5·1	5·4
	..		..	..	..	..	..	
12. Jammu and Kashmir	17·5	54	25·0	10·4	62	48	2·2	2·9
	−14·9		+2·6	+2·6	−10		−0·2	
13. Rajasthan (West)	98·6	352	34·4	25·2	81	57	3·2	3·7
	+70·6		−1·5	+1·1	+13		+1·2	
14. Rajasthan (East)	352·8	347	30·2	23·4	87	76	5·3	5·7
	+251·2		−2·0	+0·7	+13		+2·2	
15. Madhya Pradesh (West)	519·6	285	28·4	22·4	91	83	7·1	6·7
	+337·0		−2·1	+0·2	+9		+2·5	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	211·6	349	32·3	24·3	84	66	4·2	4·7
	+150·9		−1·8	+0·9	+13		+1·7	
9. Madhya Pradesh	465·9	228	28·7	22·5	90	83	7·0	6·7
	+261·7		−1·7	.0	+8		+2·2	
10. Gujarat State	190·3	186	30·7	24·0	89	78	6·0	6·2
	+87·9		−1·4	+0·2	+8		+1·5	
11. Maharashtra State	226·7	92	29·4	22·5	85	76	6·4	6·6
	−20·1		−0·7	0	+2		+1·0	
12. Andhra Pradesh	121·1	76	31·8	24·1	78	66	5·8	5·7
	−40·2		−0·6	−0·3	+1		+0·4	
13. Madras State	120·0	99	33·1	24·3	75	66	5·8	6·0
	−1·6		−0·3	0	+1		+1·5	
14. Mysore	209·0	114	29·1	20·8	86	67	6·6	6·8
	+26·3		0	+0·2	+4		+1·1	
15. Kerala	416·5	245	29·0	24·1	88	81	6.0	6·1
	+246·2		0	−0·3	+3		+0·7	
Sub-Division—*contd.*								
16. Madhya Pradesh (East)	397·7	172	29·0	22·7	88	83	6·9	6·8
	+166·0		−1·1	−0·2	+5		+1·8	
17. Gujarat Region	272·2	199	30·1	23·5	92	79	6·8	6·1
	+135·3		−1·9	−0·2	+11		+1·9	
18. Saurashtra and Kutch	135·8	171	31·2	24·4	87	77	5·5	6·2
	+56·3		−1·1	+0·4	+7		+1·3	
19. Konkan	275·4	73	29·4	24·5	86	82	6·6	6·6
	−104·4		+0·3	+0·4	0		+0·4	
20. Madhya Maharashtra	126·0	63	29·8	20·9	81	64	5·8	6·2
	−75·3		−0·3	+0·2	0		+0·7	
21. Marathwada	129·5	69	29·7	20·7	82	64	6·5	6·4
	−57·7		−0·4	0	+4		+1·2	
22. Vidarbha	321·9	164	29·0	22·6	87	79	6·7	6·8
	+125·2		−1·8	−0·5	+4		+1·6	
23. Coastal Andhra Pradesh	141·9	95	32·1	24·8	79	71	5·7	5·7
	−7·3		−1.0	−0·7	+2		+0·4	
24. Telangana	155·3	81	30·3	22·7	80	66	6·2	6·3
	−36·9		−0·4	+0·1	+2		+1·0	
25. Rayalaseema	45·3	29	33·4	24·2	71	49	5·2	4·8
	−109·4		+0·2	+0·2	−2		−0·1	
26. Madras State	120·0	99	33·1	24·3	75	66	5·8	6·0
	−1·6		−0·3	0	+1		+1·5	
27. Coastal Mysore	804·6	251	29·2	22·7	90	86	7·4	7·1
	+483·8		+0·2	−0·6	+1		+1·4	
28. Interior Mysore (North)	52·0	33	30·0	20·9	83	63	6·7	7·1
	−105·1		+0·1	0	+3		+1·7	
29. Interior Mysore (South)	68·1	49	28·1	20·0	87	65	6·1	6·4
	−71·0		−0.2	+0·6	+5		+0·2	
30. Kerala	416·5	245	29·0	24·1	88	81	6·0	6·1
	+246·2		0	−0·3	+3		+0·7	
31. Arabian Sea Islands	215·8	139	29·8	24·5	83	79	6·6	6·5
	+60·1		+0·2	−0·6	+3		+2·0	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	28·6	..	30·6	8	23·3	..	21·7	2,18	387·2	700·9	..	90·2	20	25	..	24·0	17·6	..	0	27	0	0	3	0	0	0	0	0	0
Long Island	29·6	..	31·9	8	23·6	..	21·7	17	263·6	789·9	..	252·4	16	22	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Port Blair	28·4	0	29·5	8	23·3	+0·1	19·3	10	344.1	705·1	+263·1	108·7	10	23	+1·1	23·8	18·7	+2·0	1	26	0	0	0	0	0	0	0	5	0
Car Nicobar	29·8	..	30·7	8,9, 13	24·1	..	22·1	25	133·0	266·0	..	72·2	25	14	..	6·0	3·7	..	2	17	0	0	4	0	0	0	0	0	0
Nancowry	29·5	..	30·7	7,8, 29	24·6	..	22·4	24, 30	107·8	168·3	..	45·8	30	13	..	10.6	8·0	..	1	15	0	0	5	0	0	0	0	0	0
Kondul	28·7	..	30·0	28	23·9	..	21·6	30	127·4	242·2	..	67·0	5	14	..	..	..	..	0	16	0	0	7	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	32·3	..	36·9	14	23·4	..	21·8	27	27·0	256·2	..	61·2	23	10	..	3·8	4·9	..	1	12	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	31.4	+1.6	35.4	14	23·7	+0·3	22·2	7,30	15·6	218·5	—133·3	75·7	30	14	—1·4	3·3	1·9	—1·2	0	17	0	0	14	2	0	0	0	0	0
Dibrugarh	32·0	+1·8	36·2	14	24·1	+0·5	22·2	30	26·8	357·0	+5·2	118·0	30	12	—3·4	2·0	1·4	0	0	14	0	0	8	0	0	0	0	0	0
Digboi	..	..	..	..	..	..	..	..	0	147·0	..	29·0	3	8	..	..	..	..	0	9	0	0	0	0	0	0	0	0	0
North Lakhimpur	31·6	+0.1	35·9	14	23·9	0	22·5	24	9·3	219·0	—244·3	67·5	15	9	—4·0	..	..	..	1	16	0	0	5	0	0	0	0	0	0
Sibsagar	31·8	+0·9	35·1	14	24·8	+0.2	22·8	30	83·8	207·3	—93·2	77·7	9	11	—3·8	3·6	3·1	+0·2	0	17	0	0	10	0	0	0	0	0	0
Gohpur	32·4	..	34·3	5	24·5	..	23·3	15, 17, 27	82·9	110·3	..	27·4	27	5	..	(c) 5·0	(c) 3·3	..	0	5	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	105·8	215·1	..	39·1	21	9	..	0·8	0·3	..	0	9	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	32.0	..	35 6	14	24·5	..	23·0	30	22·4	126·6	..	24·2	19	11	..	..	..	..	0	13	0	0	11	2	0	0	0	0	0
Tangla	33·1	..	36·2	14	24·9	..	21·4	25	54 0	66·5	..	27·0	27	9	..	0·5	0·2	..	0	9	0	0	0	0	0	0	0	0	0
Tezpur	32·1	0·5	36·7	14	24·9	+0·2	21·7	15	50·1	272·5	+62·2	51·2	15	14	+1·3	5·2	4·2	+1·9	0	15	0	0	14	0	0	0	0	0	0
Golaghat	32·3	..	35·6	4,5	24·7	..	23.1	23, 24, 30	56·0	183·0	..	41·6	14	10	..	..	..	..	0	10	0	0	0	0	0	0	0	0	0
Rangia (R)																													
Chaparmukh	33·1	..	37·2	14	24·9	..	23·3	29	111·8	417·5	..	150·8	19	14	..	5·0	4·5	..	0	14	0	0	0	0	0	0	0	0	0
Goalpara	33·2	..	36·2	14	23·6	..	21.9	30	99 0	206·6	..	71·4	20	8	..	5·1	2·9	..	0	11	0	0	0	0	0	0	0	0	0
Gauhati	32·1	+0.2	35·6	14	25·6	+1·0	23·4	26	176·9	202·8	+35·4	56·8	9	11	+1·7	0	1·0	—1·1	0	13	0	0	1	0	0	0	0	0	0
Gauhati (Bhorjor)	32·1	+0·2	34.9	14	25·1	+0·9	23·5	26	36·2	147·6	—19·8	82·9	26	8	—1·3	6·8	4·5	..	1	18	0	0	20	0	0	0	0	0	0
Dhubri (Rupsi)	32·2	..	34·6	13,14	24·7	..	21·8	3	30·4	178·9	..	60·2	19	12	..	5·1	3·1	..	1	16	0	0	11	0	0	0	0	0	0
Dhubri	31·0	+1·2	34·2	14	26·1	+0·9	24·9	22, 30	66·8	114·4	—241·7	46·8	5	10	—2.5	3·5	2·7	—2·6	0	11	0	0	1	0	0	0	0	0	0
Lumding	32·7	+1·3	36·0	13	24·1	+0·1	22·8	26	147·7	361·8	+171·3	85·0	15	17	+6·2	2·7	1·9	..	0	18	0	0	0	0	0	0	0	0	0
Umroi	28·5	..	31·1	14	19.8	..	18·3	11	193·2	287·3	..	63·8	23	18	..	6·9	3.5	0	21	0	0	0	0	0	0	0	0	0	0
Tura	29·3	..	33·4	13	21·3	..	19·4	26	77·1	157·9	..	27·4	1	13	..	3·1	2·8	..	0	16	0	0	0	0	0	0	0	0	0
Haflong	29·1	..	31·3	14	21·5	..	20·0	23	71·1	233·9	..	67·3	30	14	..	..	..	..	0	21	0	0	4	2	0	0	0	0	0
Silchar (Kumbhirgram)	32·5	..	36·1	12	23·9	..	22·4	27	13·4	543·7	..	124·4	26	17	..	5·5	4·5	..	1	21	0	0	20	3	0	0	0	0	0
Silchar	31·1	—1·0	36·2	12	24·7	+0·1	23·0	26	16·6	439·6	+50·5	84·4	21	20	+3·8	2·8	1·5	—0·6	0	20	0	0	20	0	0	0	0	0	0
Imphal (Tulihal)	28·5	—0·3	30·7	11	21·4	+0.9	20·0	26	29·4	156·6	+18·4	28·6	1	13	+2·0	6·0	4·2	—0·2	0	17	0	0	11	1	0	0	0	0	0
Kailashahar	32·1	..	34·1	12	24·8	..	23·6	25	113·1	335·4	..	77·6	26	16	..	3·3	2·0	..	0	22	0	0	25	0	0	0	0	0	0
Agartala	31·7	+0·3	33·6	13	24·5	0	23·4	8	94·4	123·4	—159·6	37·0	20	11	—2·7	8·6	6·3	—0·1	0	20	0	0	15	0	0	0	0	0	0
Sub-Himalayan (West Bengal)																													
Baghdogra	32·2	+0·5	36·1	13	23·8	—0.1	22·3	15	47·8	477·0	+43·3	94·6	21	16	+1·8	11·9	9·4	+4·3	0	19	0	0	14	0	0	0	0	0	0
Jalpaiguri	29·9	—1·3	33·9	13	24·7	+0·3	22·9	27	23·7	253·7	—285·3	72·5	21	10	—6·4	8·3	6·1	+3·7	0	14	0	0	8	0	0	0	0	0	0
Cooch Behar	31·9	..	34·5	13	24·5	..	22·8	27	49·0	314·0	—283·4	116·2	26	14	—3·1	3·7	2·4	..	0	18	0	0	16	0	0	0	0	0	0
Balurghat	32·7	..	35·5	12,13	24·3	..	22·4	20	50·4	130·1	..	38·4	23	9	..	9·	7·0	..	1	14	0	0	1	0	1	0	0	0	0
Malda	31·9	+0·2	34·4	13	26·3	+0·6	24·4	23	99·0	156·4	—136·2	50·8	23	10	—1.6	11·2	8·6	+2·3	0	20	0	0	9	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	32·2	+0·2	34·5	12,17, 21	24·4	—1·5	21·9	22	138·7	188·6	—43·6	44·2	22	15	+3·5	7·0	4·9	+0·9	0	19	0	0	1	0	0	0	0	0	0
Suri	31·2	..	33·6	18,19	25·5	..	23·8	23	122·4	260·2	..	57·6	9	15	..	8·5	6·6	..	0	20	0	0	4	0	0	0	0	0	0
Asansol	31·2	—1·0	34·2	12	25·2	+0·2	23·7	22	88·9	230·6	+21.1	36·3	23	17	+6·3	10·3	7·5	+1·1	0	20	0	0	16	0	0	0	0	0	0
Shanti Niketan	31·6	..	33·6	18	25·5	..	23·6	23	106·2	277·0	..	84·2	23	13	..	9·6	8·9	..	2	19	0	0	17	0	0	0	0	0	0
Krishnanagar	32·7	+0·4	35·0	12,17, 18	25·8	+0·2	25·0	7,14, 22	138·8	166·4	—35·8	27·4	2	12	+0·8	4·8	2·9	—1·6	1	17	0	0	7	0	0	0	0	0	0
Purulia	30·5	—0·9	33·4	20	24·4	+0·1	22·1	1	204·8	400·2	+131·0	78·6	13	18	+5·0	7·6	5·4	+0·6	0	19	0	0	1	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	417·6	+217·7	71·4	1	19	+8·0	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Burdwan	30.0	—2·2	33 8	19	25.9	0	22·7	28	83·5	153·1	—70·4	28·5	2	12	+0·7	7·2	(b) 8·5	+5·6	0	17	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	31.7	..	34·0	13	25·4	..	24·1	23	142·5	218·7	..	75·2	11	13	..	..	..	..	0	16	0	0	13	0	0	0	0	0	0
Calcutta (Dum Dum)	31·9	0	34·2	12	25·7	—0·2	23·8	22	130·4	236·9	—49·2	93·4	22	13	—0·4	10·9	8·3	—0.1	3	16	0	0	15	0	0	0	0	0	0
Calcutta	31·7	—0·5	34·1	12	26·1	+0·5	24.6	2,5	225·8	313·8	+61·1	74·6	5	21	+7·8	8·5	6·4	+1·9	2	26	0	0	15	0	0	0	0	1	0
Midnapore	31·4	—0·7	33·4	4 days	25·4	—0·2	24·3	11	126·6	330·6	+114·5	73·8	5	17	+5·1	6·7	3·4	+0·3	0	20	0	0	3	0	0	0	0	0	0

... register not received. (c) Mean of 28 days. (b) = Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, km per hour			Weather phenomena—No. of day with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—*contd.*																													
Contai	30·3	−0·8	32·9	12	25·7	−0·2	23·9	11, 29	232·0	679·3	+334·5	207·8	29	14	−0·1	12·3	9·3	+1·1	0	15	0	0	0	0	0	0	0	0	0
Sagar Island	30·0	−0·9	32·2	12	26·2	−0·2	19·4	29	437·8	833·1	+570·5	295·9	29	17	+4·1	19·9	20·2	+6·7	0	22	0	0	8	0	0	0	0	2	0
Sandheads	30·3	..	34·7	21	26·5	..	22·0	6	152·5	112·4	+320·7	79·6	6	18	+9·6	..	..	..	0	20	0	0	5	0	0	0	0	0	0
Orissa																													
Baripada	31.1	..	33·9	10, 11	25·0	..	23·7	13	232·2	474·8	..	129·8	29	16	..	3·7	2·1	..	0	20	0	0	18	0	0	0	4	0	0
Jharsuguda	30·0	−1·3	33·1	20	24·0	−0·4	21.4	8	342·9	714·5	+158·8	120·8	14	15	+1·9	10·3	7·6	+0.4	1	22	0	0	14	0	0	0	0	0	0
Keonjhargarh	28·8	..	31·2	20,21, 26	22·8	..	21·7	5,18	267·9	649·7	..	158·0	14	14	..	7·7	6·2	..	0	19	0	0	6	0	0	0	0	0	0
Balasore	30·4	−1·2	33·9	12	25·6	0	23·9	11, 14, 29	434·4	856·2	+575·3	199·1	29	19	+6·1	9·6	6·8	+2·8	0	22	0	0	16	0	0	0	0	0	0
Sambalpur	30·6	−0·9	33·9	20	24·3	−0·6	23·2	22	197·1	814·5	+584·6	220·4	2	17	+5·6	7·8	6·4	+1·9	1	20	0	0	7	0	0	0	0	0	0
Angul	30·3	−1·3	32·9	21	24·6	−0·1	16·7	7	157·0	107·0	+220·3	123·8	7	12	+0·9	11·2	7·9	+1·8	0	14	0	0	0	0	0	0	0	0	0
Cuttack	31·4	−0·8	34·2	11	25·0	−0·4	22·8	7	134·0	493·4	+250·5	214·6	7	15	+2·4	8·7	6·2	+3·3	0	16	0	0	4	0	0	0	0	0	0
Chandbali	31·1	−0·5	33·6	18	24·5	−1·2	22·2	6,7,8	127·8	543·1	+316·5	204·2	7	15	+0·9	10·5	8·7	+0·5	1	19	0	0	0	0	0	0	0	0	0
Bolangir	30·2	..	33·6	20	24·1	..	22·7	13, 21	59·2	279·0	..	53·4	14	12	..	8·2	8·5	..	0	19	0	0	5	0	0	0	0	0	0
Phulbani	28·2	..	30·6	11, 16	22·6	..	21·7	24	71·2	396·5	..	106·5	7	14	..	6·0	5·1	..	4	15	0	0	4	0	0	0	0	0	0
Titlagarh	30·1	..	33·4	12	23·2	..	21·7	15	86·2	223·8	..	69·2	22	11	..	2·3	3·3	..	0	16	0	0	4	0	0	0	0	0	0
Bhubaneswar	30·3	−1·1	32·7	11	24·9	−0·2	21·1	23	168·6	166·3	+167·2	159·6	7	14	+0·6	17·0	12·7	+1·8	0	19	0	0	13	1	0	0	0	0	0
Puri	31·0	−0·4	39·1	5	26·6	+0·1	20·7	17	122·2	346·0	+116·1	121·2	27	12	−0·1	19·7	17·8	+4·8	1	15	0	0	1	0	0	0	0	0	0
Gopalpur	30·9	−0·5	34·1	14	25·9	+0·1	23·3	27	211·1	246·3	+56·3	174·0	27	7	−2·5	17·7	12·3	+1·8	3	12	0	0	12	1	0	0	0	0	0
Koraput	23·4	−2·9	26·7	12, 21	20·2	+0·1	18·9	19	125·9	326·5	+92·2	51·6	11	22	+8·1	..	..	..	0	23	0	0	0	0	0	0	0	0	0
Bihar Plateu																													
Dumka	31·1	−0·6	33·9	19	25·1	+0·3	23·3	23	153·0	302·4	+58·8	104·4	23	17	+4·5	8·7	6·8	+3·7	2	22	0	0	0	0	0	0	0	0	0
Daltonganj	32·5	+0·4	36·8	4	24·6	+0·5	23·6	6,17, 23	113·8	212·1	+30·7	57·0	6	15	+5·7	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Hazaribagh	28·6	−0·7	30·6	21	22·4	0	20·7	11	154·9	322·4	+95·3	62·2	10	16	+4·5	10·9	8·7	+0·2	0	22	0	0	20	0	0	0	0	0	0
Dhanbad	30·7	..	33·5	12, 13	24.1	..	23·0	23	196·6	297·0	..	39·5	11	21	..	10·7	7·4	..	0	23	0	0	9	0	0	0	0	0	0
Ranchi	28·2	−0·7	31·2	11	..	..	..	..	147·1	353·1	+116·9	50·8	10	17	+4·7	4·9	3·8	−2·6	0	17	0	0	4	0	0	0	0	0	0
Ranchi Aerodrome	28·2	..	30·6	25	22·2	..	20·6	18	(j) 78·6	227·4	..	39·0	22	12	..	(i) 16·1	11·1	..	1	15	0	0	10	0	0	0	0	0	0
Jamshedpur	31·7	−0·5	34·4	20	25·5	+0·2	23·8	12	137.2	297·0	+116·4	65·0	29	17	+5·8	10·1	7·0	+2.0	1	20	0	0	6	0	0	0	0	0	0
Jamshedpur(P.B.O.)	30·9	..	32·9	20	25·0	..	23·4	30	111·3	266·9	..	59·0	29	13	..	9·8	7·6	..	1	20	0	0	20	0	0	0	0	0	0
Chaibasa	31·1	−0·7	33·3	21	24·7	+0·3	22·7	30	145·8	338·4	+137·5	58·0	30	13	+1·4	5·0	3·6	+1·0	0	17	0	0	7	0	0	0	0	0	0
Bihar Plains																													
Motihari(R)																													
Forbesganj	33·2	..	37·3	13	24·9	..	23·2	26	14·4	237·2	..	154·2	19	7	..	10·4	6·7	..	0	15	0	0	12	0	0	0	0	0	0
Darbhanga	32·9	+1·1	38·3	13	26·0	+0·2	23·6	15	46·4	108·6	−126·1	48·2	27	9	−0·4	8·8	6·6	+2·4	0	9	0	0	1	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	117·5	−102·2	33·0	23	7	−2·5	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Chapra	32·5	..	35·2	6	26·2	..	34·3	27	79·5	105·8	−84·2	28·9	23	8	−0·7	8·0	6·7	..	0	12	0	0	2	0	0	0	0	0	0
Purnea	32·1	+0·4	35·1	13	25·5	+0·3	24·2	17	109·8	282·0	−12·6	67·0	17	11	−0·5	7·2	4·4	+1·3	0	17	0	0	8	0	0	0	0	0	0
Patna	32·7	+0·6	34·6	19	26·7	+0·6	24·3	23	92·3	136·5	−81·9	38·6	23	9	−0·2	7·7	7·7	+2·4	0	11	0	0	3	0	0	0	0	0	0
Patna Aerodrome	32·2	..	34·4	13	26·3	..	24·4	23	57·8	90·1	..	24·4	23, 24	6	..	7·8	7·3	..	0	11	0	0	13	0	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	136·5	−71·5	35·2	20	7	−2·5	..	..	..	1	11	..	..	..	..	..	..	..	..	..
Bhagalpur	31·8	−0·7	34·6	13	26·1	+0·2	24·1	23	63·0	141·6	−104·0	51.7	23	10	−0·9	(b) 9·8	(b) 7·2	+1·2	1	14	0	0	17	0	0	0	0	0	0
Sabaur	31·8	0	31·5	13	26·1	+0·4	24·2	24	131·6	230·6	+18·3	63·0	23	12	+2·2	10·1	7·8	+0·6	0	19	0	0	16	0	0	0	0	0	0
Jamui	31·5	..	33·7	13	25·8	..	23·9	23	100·5	206·4	..	52·0	23	13	..	8.5	5·6	..	4	17	0	0	8	0	0	0	0	0	0
Dehri	31·6	..	34·6	20	25·8	..	24·3	13, 23	56·6	262·9	+75·2	78·0	13	12	+3·1	6·2	4·8	..	0	14	0	0	11	0	0	0	0	0	0
Gaya	32·1	−0·4	33·8	20	25·7	+0·6	23·1	15	98·5	156·6	−33·9	43·5	23	11	+1·7	13·5	10·4	+3·2	1	17	0	0	15	0	0	0	0	3	0
Uttar Pradesh (East)																													
Kheri(R)																													
Bahraich	32·9	0	36·0	14	25.9	+1·2	24·4	23	55·8	65·0	−152·9	13·4	30	9	+1·7	7·8	7·0	+3·8	0	11	0	0	0	0	0	0	0	0	0
Nautanwa	34·2	..	39·9	17	25·5	..	23·3	27	6·7	129·8	..	52·2	18	6	..	10·0	6·3	..	0	7	0	0	0	0	0	0	0	0	0
Hardoi	33·5	+0·4	35·8	18, 23	26·0	+1·0	22 8	30	21·6	47·4	−138·2	28·6	27	4	−2·6	9·3	6·0	+0·2	0	6	0	0	2	0	0	0	0	0	0
Gonda	32·3	−0·5	35·7	14	26·0	+0·9	23·9	22	87·6	166.9	−65·3	35·1	22	9	−1·2	..	..	..	0	11	0	0	8	0	0	0	0	0	0
Lucknow	33·2	−0·1	35·5	13,14, 20	24·9	+0·2	22·5	1	35·6	101.2	−86·8	60·0	1	6	−1·9	4·1	3·9	+1·2	0	7	0	0	3	0	0	0	0	0	0
Lucknow (Amausi)	33·0	−0·3	35·8	20	25·3	+1·6	23·7	1	55·2	95·5	−92·5	27·7	1	6	−1·9	10·2	5·8	..	0	10	0	0	8	0	0	0	0	1	0
Faizabad	32·7	..	35·8	14	24·8	..	22·4	22	39·4	188·0	..	57·6	28	9	..	5·6	3·7	..	1	11	0	0	8	0	0	0	0	0	0
Gorakhpur	33·7	+1·3	37·3	14	25·5	+0·4	22·6	21	22·8	33·8	−182·6	10·3	24	4	−5·3	..	..	..	0	7	0	0	0	0	0	0	0	0	0
Kanpur	32·6	−0·1	35·3	21	25·4	+0·8	23·7	27	57·6	121·6	−50·9	39·0	27	7	−0·3	11·4	8·9	+0·7	0	11	0	0	2	0	0	0	0	0	0
Kanpur (Aerodrome)	32·8	..	36.1	20,21	25·8	..	23·3	27	45·1	82·0	..	27·7	27	9	..	..	..	..	0	10	0	0	7	0	0	0	0	0	0
Sultanpur	32·5	..	35·1	13	25·7	..	23·6	27	98·4	298·0	..	82·4	22	14	..	6·5	4·9	..	0	14	0	0	10	0	0	0	0	0	0

(i) Mean of 22 days. (j) = Mean of 21 days. (b) Mean of 29 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Azamgarh	32·3	..	35.4	19	23.4	..	21·1	23	59·0	133·8	..	28·8	28	9	..	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Fatehpur	32·7	−0·1	35·0	20	25·6	+0·8	24·8	6 days	47·5	194·5	+54·6	81·0	19	11	+2·4	6·3	4·1	−0·2	0	13	0	0	3	0	0	0	0	0	0
Ballia	33·0	..	35·5	14,19	26·4	..	23·5	21	91·8	111·6	..	33·4	21	9	..	8·8	4·4	..	0	9	0	0	0	0	0	0	0	0	0
Banda	33·0	..	37·0	20	25·2	..	23·8	27	54·1	189·3	..	39·2	26	11	..	5·5	3·7	..	0	13	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	33·0	−0·1	36·1	19	25·3	+0·5	23·2	22	25·4	206·2	−6·1	47·3	24	9	−0·5	7·7	5·5	−0·5	1	16	0	0	15	0	0	0	0	1	0
Varanasi ((Babatpur)	32·1	−0·2	35·1	19	25·7	+0·3	24·2	22	86·5	315·7	+60·2	65·2	21	16	+6·0	13·4	10·0	+1·3	0	19	0	0	9	0	0	0	0	0	0
Varanasi	32·4	−0·4	35·3	19	25.8	+0·6	23·9	21	76·6	169·9	−13.5	42·4	24	10	+2·3	6·9	5·1	+0·6	0	14	0	0	3	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	30·2	+0·9	33·1	15	21·5	+0·7	19·3	23	191·6	442.4	+172·7	53·8	3	21	+10·1	4·6	3·2	+0·6	0	23	0	0	12	0	0	0	0	0	0
Roorkee	33·2	+0·7	35·9	15	24·7	+1·9	22·4	26	5·3	54·6	−107.2	29·5	1	6	0	6·8	4·4	+1·7	0	10	0	0	0	0	0	0	0	0	0
Najibabad	33·3	..	35·3	15	24·7	..	22·0	3	58·4	164·4	..	55·4	30	6	..	(b) 6·3	4.8	..	0	8	0	0	14	0	0	0	0	0	0
Meerut	33·6	+0.4	36·1	19,21	25.3	+1·6	21·9	11	..	85·0	−63·8	62·0	26	3	−2·1	.	6 2	..	0	4	0	0	0	0	0	0	0	0	0
Bareilly	33·1	+0·7	36·0	14	25·6	+1·3	23·2	15, 23	52·8	193·0	+2·5	87·0	15	8	+1·2	5·8	3·8	+1·2	0	9	0	0	4	0	0	0	0	0	0
Aligarh	33·5	0	36·2	19,20	25·1	+0·7	21·3	1	8·8	110·4	−24·2	95·6	1	3	−3·1	8·7	5·0	−1·3	0	7	0	0	1	0	0	0	0	0	0
Mainpuri	33·1	−0.7	35·6	23	25·6	+1·4	24·3	28	52·1	134·6	+5·3	53·6	24	7	+0·6	..	..	..	2	11	0	0	4	0	0	0	0	0	0
Agra	32·7	−1·1	36·0	20	25·5	+0·9	24·2	26	18·7	40·1	−76·2	14·3	8	6	+0·4	7·2	4·8	−0·7	0	7	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	33·4	..	38·1	13	25·3	..	23·7	25	8·4	16·2	..	8·4	7	2	..	..	..	..	2	6	0	0	7	0	0	0	0	0	0
Orai	30·6	..	35·0	23	24·5	..	23·3	4 days	75·0	285·0	..	65·0	14	12	..	11·4	8·7	..	0	11	0	0	·0	0	0	0	0	0	0
Jhansi	31·9	−1·3	35·5	20	23·9	−0·2	20·6	25	60·3	225·5	+75.6	50·3	25	14	+7·0	3·4	2·5	−2·3	0	16	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	31·8	−1·0	35·2	20	23·3	+0·9	20·6	9	196·9	349·6	+178·3	71·4	1	14	+6·5	7·2	5·3	−1·6	0	17	0	0	16	0	0	0	0	0	0
Amritsar (Rajasansi)	34·1	−0·3	37·2	20	25·0	+1·6	21·0	28	81·8	166·6	+50·7	78·2	4	5	+1·2	9·0	7·1	0	0	6	0	0	7	0	0	0	0	1	0
Adampur (Aerodrome) (R)																													
Ludhiana	34·6	−0·3	37·7	20	25·1	+1.3	23·6	29	56·5	73·4	−26·9	23·5	5	7	+3·2	5·1	3·6	+1·7	0	11	0	0	2	0	0	0	0	0	0
Ferozepur	34·5	..	37·2	25	25.1	..	22.9	9	38·9	64·5	..	30·7	9	3	..	2·2	1·2	..	0	3	0	0	0	0	0	0	0	0	0
Ralwara Aerodrome	34·6	..	37·9	20	24·4	..	22·8	28	17·5	22·9	..	11·6	4	3	..	..	..	..	0	3	0	0	3	0	0	0	0	0	0
Chandigarh	34·2	+1.7	36·4	15	24·5	+2·3	21·2	16	0	49·4	−177.0	41·2	16	2	−4·7	(n) 5·7	(n) 3·9	..	1	5	0	0	0	0	0	0	0	0	0
Ambala	34·2	−0·2	37·3	15	25·3	+2·0	22·8	17, 24	5·6	107·2	−22·6	62·0	1	5	+0·3	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	33·5	..	36·2	14	24·3	..	21·7	24	8·2	162·0	..	92·2	24	5	..	..	..	..	0	9	0	0	8	0	0	0	0	0	0
Patiala	34·5	..	37·8	20	25·2	..	23·3	10	37·0	43·0	−179·8	37·0	26	2	−4·0	7·6	6·9	..	0	2	0	0	2	0	0	0	0	0	0
Bhatinda	35·8	..	38·7	30	25·4	..	22·8	5,6, 10	31·0	84·2	..	53·2	9	3	..	7·2	5·0	..	0	3	0	0	1	0	0	0	0	0	0
Karnal	34·0	..	37·0	9	24·6	..	22·0	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	35·4	−0.5	38·2	19	25·3	+1·7	24·0	22	5.2	24.2	−47·2	6·0	15	5	+1·9	7·4	6·5	−0·1	0	7	0	0	2	0	0	0	0	0	0
New Delhi (Safdarjung)	34.0	+0.3	37·0	20	25·1	+1·8	23·3	24, 25	31·2	74·0	−48·9	28·6	1	8	+3·4	6·5	4·9	−4·1	1	10	0	0	5	1	0	0	0	0	0
Palam (Aerodrome)	33·5	..	36·1	20	24·7	..	22·3	22	57·3	78·6	..	29·0	16	6	..	..	..	..	0	11	0	0	5	1	0	0	0	0	0
Himachal Pradesh																													
Mandi	30·1	+0·2	32·9	15	21·3	+2·0	18·7	23	62.4	188·4	−35·0	55.0	1	11	−1·9	3·9	2·1	+0·2	0	21	0	0	2	0	0	0	0	0	0
Bilaspur	31·7	..	34·3	15	21·4	..	19·6	23	63·1	71·3	..	29·5	13	5	..	..	..	..	0	7	0	0	7	13	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras	..	..	..	..	..	..	..	..	..	2·9	−14·6	2.0	8	0	−1·3	..	..	..	0	3	..	..	..	..	..	..	..	..	..
Sonamarg*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	25·0	+4·1	28·1	8	7·6	+2·2	4.1	20	0 4	0·4	−6·5	0·4	10	0	−0·9	6·3	5·4	+2·5	0	1	0	0	0	0	0	0	0	0	0
Srinagar	29·8	+1·2	31·8	7	15·9	+4·0	12·1	29, 30	1·6	20·7	−18·2	11·8	8	2	−1 5	4·6	3·8	+0·3	0	6	0	0	7	0	0	0	0	0	0
Srinagar (Aerodrome)	28·5	..	30·3	25	15·9	..	12·5	30	3·8	28·4	..	11·4	5	4	..	..	..	..	0	6	0	0	6	0	0	0	0	0	0
Gulmarg	20·1	+2·6	22·6	17	7·7	+1·5	3·3	29	33·7	46·1	−20·4	13·3	9	5	−0·3	7·4	4·4	−0·3	0	8	0	0	3	2	0	0	0	0	0
Jammu (R)																													
Jammu (Aerodrome)	32·1	..	35·2	20	24·4	..	21·1	27	115·9	273·3	..	70·6	8	9	..	..	..	..	0	10	0	0	13	0	0	0	0	0	0

(b) Mean of 29 days. *Data not available. (R) Register not received. (n) Mean of 17 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20-a	20-b	21	22	23	24	25	26	27	28	29
Rajasthan (West)																													
Ganganagar	36·8	−1·0	39·9	30	25·7	+2·3	24·0	10	32·2	33·6	+30·5	17·8	10	3	+2·5	6·8	4·9	−4·1	0	6	0	0	1	0	1	0	0	0	0
Churu	34·7	..	37·8	30	25·0	..	23·3	23	11·7	34·4	..	7·8	11	6	..	11·2	8·4	..	0	10	0	0	3	0	0	0	0	0	0
Bikaner	35·8	−0·5	40·2	30	25·4	+0·3	23·4	13	29·0	104·7	+71·4	54·6	5	4	+1·9	(b) 7·9	6·8	−1·9	0	4	0	0	3	0	0	0	0	0	0
Nagaur	33·4	..	37·9	30	24·7	..	23·2	23	33·3	44·5	..	14·7	11	4	..	9·2	7·7	..	0	6	0	0	0	0	0	0	0	0	0
Phalodi	34·2	..	38·0	30	25·0	..	22·2	15	30·9	42·2	+18·1	17·3	5	4	+2·3	17·5	14·0	..	0	4	0	0	1	0	0	0	0	0	0
Jaisalmer	33·6	..	36·4	30	24·7	..	22·8	20	14·0	57·1	..	31·6	9	3	..	13·8	12·7	..	1	5	0	0	0	0	0	0	0	0	0
Jodhpur	32·5	−2·1	36·7	30	24·7	+0·9	23·1	14	67·4	174·1	+113·1	81·6	12	8	+5·2	10·3	8·9	−2·8	0	13	0	0	0	0	0	0	0	2	0
Barmer	32·7	−2·4	37·4	30	25·2	+0·9	23·1	13, 15	38·6	138·5	+120·0	62·6	13	5	+3·6	8·0	6·6	−2·6	0	7	0	0	3	1	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	34·1	..	37·8	19	24·5	..	23·0	23	34·8	72·4	..	22·2	25	7	..	14·1	9·2	..	0	8	0	0	0	0	0	0	0	0	0
Sikar	32·9	..	36·2	30	22·5	..	16·1	2	37·9	56·0	..	13·5	12	8	..	9·6	7·0	..	0	10	0	0	0	0	0	0	0	0	0
Alwar	33·1	..	36·7	20	25·4	..	23·8	13	74·8	178·1	..	58·6	1	11	..	5.2	3·0	..	0	16	0	0	1	0	0	0	0	0	0
Jaipur (Sanganer)	31·8	−2·1	35·5	19,30	23·7	+1·0	22·3	13	98·2	165·6	+83·8	41·6	6	14	+9·3	..	..	..	0	19	0	0	8	0	0	0	0	0	0
Dholpur	32·4	..	36·2	19	25·3	..	23·0	26	110·7	157·6	..	46.4	2	8	..	6·1	4.3	..	0	16	0	0	10	0	0	0	0	0	0
Ajmer	30·7	−1.5	34·7	19	23·9	+0·3	21·9	14	75.7	199·5	+130·9	46.2	11	14	+10·0	10·6	9·3	+2·7	2	16	0	1	6	0	0	0	0	0	0
Tonk	31·5	..	35·3	19	24·4	..	22.7	26	189·9	425·0	..	87·2	11	15	..	11·0	8·0	..	0	19	0	0	16	0	0	0	0	0	0
Kota	30·8	−1.2	34·3	19	25·5	+0·1	22·4	27	204·4	462·3	+216·9	63·8	26	15	+9·3	11.2	8.3	+3.3	2	15	0	0	6	0	0	0	0	0	0
Erinpura (Jawai Dam)	30.6	..	34·7	30	23·7	..	22·6	12	221·2	359.2	..	114·0	6	10	..	6·5	6·4	..	0	15	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	29·9	..	33·1	20	23·7	..	22.6	1	298·9	707.4	..	207·4	5	16	..	10·9	7·7	..	0	18	0	0	5	0	0	0	0	0	0
Udaipur	28·9	−2·0	32·4	30	22·3	+0·5	20·3	23	137·6	265·8	+168·0	64·1	18	14	+8·6	4.3	2·8	..	1	20	0	0	12	0	0	0	0	0	0
Jhalawar	29·3	−2.6	32·3	20	23·7	+0·8	22·8	23	272·2	780·4	+622·2	147·0	5	21	+14·1	9·2	8·0	+3·0	0	21	0	0	3	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	31·6	−0·7	34·5	20	24·7	+0·3	22·7	26	78·3	219·1	+31·9	74·3	25	9	+1·6	8.4	5.9	..	2	12	0	0	12	0	0	0	0	0	0
Sheopur	30·9	−1·6	34·3	19	24·2	+0.7	23·3	10, 13, 25	81·4	170·3	+57·9	50·6	11	9	+3·0	10·6	8·1	+2·0	0	19	0	0	9	0	0	0	0	0	0
Shivpuri	29·5	..	32·6	20	23·0	..	21·9	25	134·4	258·4	..	65·6	25	16	..	10·7	8·2	..	0	18	0	0	0	0	0	0	0	0	0
Nowgong	31·7	−0·7	35·3	20	23.7	−0·1	22.5	23	84·0	233·0	+85·4	46.4	24	14	+6·8	8·6	5·6	+2·7	1	18	0	0	6	0	0	0	0	0	0
Guna	28·6	−2·0	32·2	20	22·7	+0·8	21·7	22	185·9	513·6	+274·6	72.9	10	18	+9·4	13·6	10·7	..	0	25	0	0	13	1	0	0	0	0	0
Neemuch	28·2	−2·9	31·0	22	22.3	+0·5	20·9	27	206·4	540.7	+414·5	153.8	5	17	+10.7	13.4	12.0	+2·3	0	21	0	0	11	1	0	0	0	0	0
Rajgarh	29·1	..	32·1	22	22·7	..	21·5	24, 28	226·6	557·9	..	75·0	10	19	..	10·8	8·4	..	0	23	0	0	0	0	0	0	0	0	0
Sagar	27·6	−2·4	30·0	23	21·3	−0·3	19·8	27	100·0	319·0	+126·0	42·0	15	19	+9·4	10·5	9·6	..	0	21	0	0	9	0	0	0	0	0	0
Ratlam	26·9	−3·1	31·0	24	21·4	−0.7	19·4	27	247·4	797·3	+534·8	150·1	28	20	+10·3	13·7	12·0	+4·1	0	25	0	0	4	0	0	0	0	0	0
Bhopal (Bairagarh)	27·8	−2·1	30·8	22	21·9	0	20·2	28	123·9	767·7	+503·0	231·0	26	17	+6·8	21.2	18.0	+7.5	4	21	0	0	11	0	0	0	0	0	0
Ujjain	27·3	..	30·4	20	22·2	..	20·6	26	..	1089·2	..	239·0	27	19	..	..	17·5	..	0	22	0	0	4	0	0	0	0	0	0
Hoshangabad	28·5	−1·9	32·2	22,23	23·0	+0.1	20·7	28	235·2	767·2	+554·9	172.4	9	21	+11·5	9·3	7·9	+4·5	0	25	0	0	0	0	0	0	0	0	0
Indore	26·4	−3·3	29·5	24	21·3	+0.5	18·7	28	277.7	622.8	+458·7	100.8	26	19	+10·6	26·4	23·8	..	0	26	0	0	8	2	0	0	1	1	0
Rajpur (Jhabua)	28·5	..	31·0	26	22·2	..	20·4	27	76·6	242·7	..	43·8	27	16	..	12·7	11.3	..	0	23	0	0	1	0	0	0	0	0	0
Chhindwara	26·8	−2·2	30·3	14	21·6	+0·3	20·0	28	121·5	407·6	+212·3	142·7	9	11	−0.2	12·9	10·0	+3.6	2	20	0	0	1	0	0	0	0	0	0
Seoni	27·6	−1.8	33·4	14	21·6	+0·3	20·1	28	233·0	475.0	+256·8	158·1	9	19	+8·1	11·8	8·5	+3·7	0	27	0	0	11	0	0	0	0	0	0
Betul	25·9	−2·4	29·8	23	21·1	+0·1	18·8	28	353.9	903·4	+647·5	265·0	16	20	+8·6	12·1	10·4	+4·3	0	23	0	0	5	1	0	0	0	0	0
Khandwa	28·9	−2·4	31·6	7,9,11	22·6	−0·2	21·3	27, 28	184·2	537.4	+392·9	137·4	16	14	+6·9	17·4	14·3	+6·3	0	17	0	0	3	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	30·9	−0·3	33·6	19,20	24·1	+0·3	22·5	23	60·8	119·8	−55·2	41.4	2	10	+1·1	8·0	5·1	−0·2	0	13	0	0	7	0	0	0	0	0	0
Sidhi	30·4	..	34·1	19	23·3	..	22·0	29	192·8	344·8	..	65·4	4	14	..	7·4	5·0	..	0	14	0	0	0	0	0	0	0	0	0
Umaria	29·5	−0·7	33·3	23	23·0	+0·2	20·8	22	83·8	223·9	−8·0	53·5	3	15	+4·6	7·5	5·3	+0·2	2	21	0	0	8	0	0	0	0	0	0
Jabalpur	29·4	−1·2	32·8	20	23·1	+0·7	21·0	22, 26	233·2	576·0	+362·4	102·5	3	19	+9·3	8·9	7·6	+4·1	1	24	0	0	9	0	0	0	0	0	0
Ambikapur	28·7	−0·8	31·7	20	22·1	0	20·9	9	151·5	331·1	+107·3	90·0	2	15	+2·6	12·4	10·1	+2·6	0	17	0	0	7	0	0	0	0	0	0
Pendra	27·5	−1·2	31·3	20	21·5	+0·1	19·5	16	89.7	298.9	+98·2	52·6	3	19	+7·7	11·8	9·4	..	0	24	0	0	10	1	0	0	0	0	0
Mandla	28·6	−1·6	32·2	20	21·7	−0·6	19·7	16	157.6	505.8	+296·6	66·2	22	19	+7·7	7·9	5·4	+2·3	0	25	0	0	12	0	0	0	0	0	0
Champa	29·7	−1·8	33·0	20	23·4	−1.4	21·2	16	147·8	367.7	+133.6	103·0	8	14	+2·1	10·7	9·0	+2·8	0	20	0	0	8	0	0	0	0	0	0
Raigarh	30·2	−1·6	33·5	21	23·8	−0·9	21·7	22	339·0	886·2	+544·8	212.0	14	18	+3·3	4·3	4·6	−0·7	0	24	0	0	1	0	0	0	0	0	0
Raipur	29·0	−2·2	32·0	20	22·5	−1·4	20·6	16	135·6	419·7	+224·4	91.8	8	12	+1·7	14·9	12·3	+4·7	1	19	0	0	6	0	0	0	0	0	0
Kanker	27·8	−2.1	30·4	13	23·1	+0·4	21·4	23	144·5	390·3	+130·2	97.2	14	12	−0·3	13·0	9·6	+3.8	0	15	0	0	1	0	0	0	0	0	0
Jagdalpur	27·9	−1·7	31·4	21	21·8	−0·1	19·9	27	99·8	255·0	−8·7	70.2	21	14	+0·4	9·5	6·7	..	4	22	0	0	6	0	0	0	0	0	0
Gujarat Region																													
Deesa	31·5	..	35.2	30	24·1	..	22·5	12, 24	216·1	569·7	..	217·4	12	15	..	10.9 (b)	8·3 (b)	..	0	16	0	0	0	0	0	0	0	0	0
Radhanpur	31.6	..	34·6	30	24·3	..	23·4	12	99·3	214·6	..	75·8	12	14	..	8·1	6·5	..	0	15	0	0	1	0	0	0	0	0	0
Idar	29·5	..	32·3	30	23·5	..	22·1	13	103·8	480·3	..	81·0	8	19	..	8·1	6·2	..	0	23	0	0	3	0	0	0	0	0	0

R = Register not received.

(b) Mean of 29 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Gujarat Region (*Contd.*)																														
Ahmadabad	31·2	−2·5	33·1	26	24·4	+0·3	22·3	12	77·3	285·4	+179·7	66·1	12	17	+11·8	6·4	6.3	−0·9	0	20	0	0	7	0	0	0	0	0	0
Dohad	28·1	−2·1	31·0	24,25	21·9	−0·9	20·0	27	120·7	345·8	+170·2	68·6	10	15	+8·0	23·0	20·6	+3·7	1	22	0	0	8	0	0	0	0	0	0
Baroda Aerodrome	30·7	..	33·0	25	24.3	..	23·7	6 days	72·3	138·7	..	23·9	12	13	..	10·1	9·6	..	0	25	0	0	4	0	0	0	0	0	0
Baroda	30·8	−1·8	33·1	25	24·7	+0·6	23·9	8,23	67·5	150·2	−1·2	41·8	12	11	+4·3	.	..	..	0	23	0	0	4	0	0	0	0	0	0
Broach	30·6	−2·1	32·0	15,24, 26	24·6	+0·1	23·8	6,27, 28	100·9	133·2	−144·5	26·0	7	17	+9·4	11·3	9·4	+1·8	0	23	0	0	0	0	0	0	0	0	0
Surat	30·3	−1·2	32·7	25	23·2	−1·2	21·6	29	109·8	307·4	+160·1	49·0	4	18	+10·6	10·7	11·0	+4·9	0	23	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																														
Bhutakia Bhimasar*	31·9	..	33·5	30	24·6	..	22·4	4	8·4	(i) 14·7	..	..	..	..	..	17·7	(i) 14·9	..	..	..	0	0	0	0	0	0	0	0	0
Naliya	30·3	..	32·6	19	24·5	..	22·5	23, 24	135·1	353·1	..	234·2	14	8	..	17·6	12·8	..	1	8	0	0	5	0	0	0	0	0	0
Bhuj (Rudramata)	30·7	−2·7	33·5	30	24·1	+0·4	22·1	25	112·3	173·9	+127·9	51·8	14	8	+5·3	15·9	12·8	−1·2	0	12	0	0	2	0	0	0	0	0	0
Kandla Aerodrome	31·8	..	33·9	30	24·3	..	22·4	25	70·8	76·3	..	22·1	11	6	..	17·8	14·1	..	0	14	0	0	9	0	0	0	0	0	0
New Kandla	31·4	..	33·6	30	25·7	..	24·8	14	27·8	52·2	..	11·0	14	10	..	22·4	20·8	..	1	13	0	0	6	0	0	0	0	0	0
Mandvi	30·2	−0.3	31·2	28	25·8	+0·4	24·4	9	64·0	175·0	+70·6	61·0	14	6	−0·2	26·5	25·9	−0·6	0	10	0	0	0	0	0	0	0	0	0
Surendranagar	32·6	−0·6	34·1	4days	24·6	+0·3	22·6	12	25·2	54·1	−82.6	20·7	30	5	−2·3	(b) 15·6	(b) 13·6	+0·3	0	13	0	0	4	0	0	0	0	0	0
Jamnagar Aerodrome	31·0	−0·9	33·3	20	24·2	+0·6	22·7	24	80·8	151·2	+94·6	46·5	6	13	+10·3	..	..	..	0	16	0	0	5	0	0	0	0	0	0
Dwarka	29·6	0	31·4	30	25·6	+0·2	24·4	9	83·2	145·4	+108·1	46·8	10	9	+7·0	21·5	20·1	+6·4	0	13	0	0	0	0	0	0	0	0	0
Rajkot	30·8	−1·5	32·9	24	23·2	+0·7	21·7	25	85·9	145·1	−12·2	48·2	21	12	+5·9	21·2	17·9	+0·5	0	16	0	0	7	1	0	0	0	0	0
Bhavnagar Aerodrome	32·1	−1·5	35·9	3,27	24·5	+0·4	23·2	22, 24	62·5	83·2	−14·8	16·8	9	11	+5·3	24.2	18.8	+4·8	0	16	0	0	1	0	0	0	0	0	0
Porbander Aerodrome	29·5	..	31·1	26	25·0	..	23·3	10, 24	58·7	168·2	..	53·0	11	12	..	20·5	17·2 (b)	..	0	22	0	0	2	0	0	0	0	0	0
Porbander	29·6	−0·2	30·8	26	25·3	+0·2	23·5	10	57·6	179·5	+90·1	52·4	11	10	+5·2	18·6	15·8	+1·8	1	19	0	0	1	0	0	0	0	0	0
Keshod	30.3	..	33·0	3	23·7	..	22·6	23	55·4	215·6	..	85·2	11	12	..	24·8	17·9	..	2	17	0	0	3	0	0	0	0	0	0
Mahuva	30·5	..	33·2	27	23·5	..	21·8	22, 26	39·6	69·6	..	8·0	8	13	..	15·5	(b) 11.4	..	0	21	0	0	0	0	0	0	0	0	0
Veraval	29·5	..	31·0	26	24·9	..	23·3	24	80·6	235·6	+172·3	87·4	11	8	+4·1	27·3	27·1	..	0	19	0	0	1	0	0	0	0	0	0
Konkan																														
Dahanu	29·5	0	30·6	20	24.7	+0·3	23·6	23, 29	92·9	247·5	−112·8	44·4	29	22	+10·5	24.7	20·2	+3·9	0	26	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	29·7	+0.2	30·8	16	23·9	+0.5	22·5	28	92·1	253·4	−114·1	30·4	7	19	+6·4	22.0	17·8	..	2	23	0	0	0	0	0	0	0	0	0
Bombay	30·3	+0·6	31·2	23,29	24·9	+0·6	23·7	12	144·9	269·9	+6·0	42·9	11	16	+3·3	9·8	8·6	−2·7	3	23	0	0	0	0	0	0	0	8	0
Alibag	29·5	+0·3	31·9	13	24·7	+0·3	23.7	26, 30	..	295·0	+29·1	82·7	26	21	+6·5	..	25.5	+11·3	1	27	0	0	0	0	0	0	0	0	0
Harnai	28·6	+0·1	29·4	24,25, 26	24·6	+0·3	22·3	30	43·2	305·3	−36·9	66·6	10	23	+14·6	17.2	17·9	+4·6	0	25	0	0	0	0	0	0	0	0	0
Ratnagiri	29·4	..	30·5	24	23·9	..	22·4	1	53·4	238·6	−61·6	30·2	1	22	+7·0	20·6	19·8	..	0	27	0	0	0	0	0	0	0	0	0
Devgarh	29·0	0	30·1	21,22	24·4	+0·3	22·5	28	101·0	317·8	−9·2	66·6	13	20	+3·9	22·0	(b) 21·1	+6·0	0	21	0	0	0	0	0	0	0	0	0
Vengurla	29·4	+0·1	30·0	2	23·8	+0·3	22·6	22	135·3	606·9	+333·2	128·6	13	25	+8·8	11.6	8·2	..	1	28	0	0	1	0	0	0	0	0	0
Madhya Maharashtra																														
Nandurbar	28·5	..	31·8	25	..	..	..	..	122·6	224·4	..	59·6	13	11	..	13·1	9·9	..	0	17	0	0	0	0	0	0	0	0	0
Jalgaon	30·5	−1·4	33.2	24	22·9	−0·1	20·2	28	78·0	133·3	−20·3	20·6	16	12	+4·2	(b) 18.8	(b) 13·6	+2·8	0	19	0	0	6	0	0	0	0	0	0
Malegaon	31·1	−0·4	34·3	20,21	21·7	+0·5	19·4	23	5·9	8·4	−138·7	2·4	22	0	−7·7	17·0	12·6	+3·1	0	5	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	27·1	..	30·4	25	20·9	..	18·9	23	26·5	72·4	..	14·4	27	9	..	21.6	16·4	..	0	12	0	0	0	0	0	0	0	0	0
Ahmednagar	30·1	0	34·1	25	20·0	+0·1	18·1	21	5·6	11·0	−155·1	4·1	16	2	−6·6	14.0	10·3	+0·3	2	5	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	723·6	+28·9	85·0	7	25	+3·3	..	..	..	0	28	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	28·2	..	31·4	25	20·0	..	18·2	22	16·2	42·3	..	19·4	10	4	..	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Poona	28·5	−0·7	32·3	25	20·6	+0·1	19·0	22	31·2	65·1	−69·3	17·1	10	7	−0·6	8·1	5·7	−5·1	2	19	0	0	0	0	0	0	0	0	0
Jeur	32·6	+1·2	34·8	25	20·5	−0·4	18·3	27, 29	4·2	5·2	−136·1	2·0	26	0	−7·7	23·0	16·5	+4·4	0	3	0	0	0	0	0	0	0	0	0
Baramati	31·0	+0·5	33·9	25	20·9	−0·1	18·9	22	0·7	0·7	−129·2	0·5	28	0	−6·9	19·8	15·3	+1·7	1	1	0	0	0	0	0	0	0	0	0
Sholapur	31·6	+0·1	34·8	21	21·5	−0·2	19.7	29	9·8	20·0	−172·8	10·7	8	2	−7·1	15·0	11·1	+0·8	2	7	0	0	0	0	0	0	0	0	0
Miraj	29·0	−0·1	31·8	25	20·8	+0·9	19·7	29, 30	30·0	49·4	−49·1	23·2	25	3	−2·7	..	..	..	0	16	0	0	0	0	0	0	0	0	0
Kolhapur	27·1	−1.6	30·2	24	20·6	+0·1	19·7	22	39·6	122·5	+26·7	24·5	12	16	+8·1	23·0	16·0	+2·6	2	22	0	0	0	0	0	0	0	0	0
Marathwada																														
Aurangabad	29·7	−0·4	34·0	22	20·7	0	19·5	28	20·4	38·6	−131·3	13·6	27	4	−5·0	20·0	16·3	+5·2	2	14	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29·8	..	32·7	25	21·0	..	19.6	14, 28	16·3	36·2	..	11·4	27	5	..	21·4	16·8	..	1	13	0	0	0	0	0	0	0	0	0
Parbhani	30·3	−0·8	33·1	26	21·7	−0·2	20·5	11	31·0	220·4	−79·0	101·2	19	10	0	14·6	9·7	−0·5	0	12	0	0	2	0	0	0	0	0	0
Nander	30·5	..	33·6	26	22.1	..	21·0	11	9·4	136·9	..	46·3	22	11	..	(l) 12·7	(m) 9·2	..	1	13	0	0	1	0	0	0	0	0	0
Bir (R)																														

(R) Register not received. (b) Mean of 29 days. (l) Mean of 19 days. (m) Mean of 18 days. *Observations for 23 days. (i) Total or Mean of 22 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Vidarbha—																													
Gondia	28·2	—2·5	31·7	13,14	22·7	—1·2	21·2	16	238·9	702·6	+481·4	281·4	2	16	+4·5	8·9	6·9	+2·4	0	26	0	0	5	0	0	0	0	0	0
Nagpur (Sonegaon)	29·2	—2·1	32·6	14	22·6	—0·7	20·6	28	211·2	427·0	+223·5	92·6	15	12	+1·4	19·4	14·5	..	1	22	0	0	8	1	0	0	0	1	0
Amraoti	28·9	—2·3	32·5	23	21·9	—0·6	19·9	16, 25	141·4	361·6	+208·2	106·0	16	11	+2·7	20·0	15·5	+8·6	0	16	0	0	4	0	0	0	0	0	0
Akola	29·7	—2·2	34·8	1	23·0	+0·2	21·6	16	79·5	202·6	+55·3	66·2	9	9	+1·4	15·9	12·0	+4·1	1	11	0	0	1	0	0	0	0	0	0
Bramhapuri	28·8	..	32·4	21	23·3	..	21·3	22	186·0	478·3	..	134·5	15	15	..	11·4	9·0	..	0	17	0	0	5	0	0	0	0	0	0
Buldana	27·1	—0·7	29·0	12	18·0	—0·9	18 0	28	61·0	145·2	—60·8	27·9	1	12	+3·1	14·3	13·0	+1·9	1	14	0	0	0	0	0	0	0	0	0
Yeotmal	28·2	—2·0	31·5	25	..	..	..	..	90·2	195·6	—15·6	35·0	7	10	+0·3	26·2	17·9	+6·1	0	12	0	0	2	0	0	0	0	0	0
Chanda	29.5	—2·1	31·9	21,26	23·7	+0·1	21 8	21	97·0	283·4	+57·1	62·8	8	12	+1·3	13·7	9·0	+4·0	1	21	0	0	7	0	0	0	0	0	0
Pusad	..	..	..	..	..	..	..	..	34·8	154·8	..	61·6	18	8	..	14·0	11·2	..	0	10	0	0	0	0	0	0	0	0	0
Sironcha	30·9	—0·7	33·0	6,26,27	24·0	—0·5	21 8	26	121·4	237·0	+32·6	29·8	1	17	+4 2	7·7	4·4	—0·1	0	19	0	0	4	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	31·1	—1·0	33·0	26	23·4	—2·4	20·9	12	24.6	92·7	—83·3	23·3	11	7	—2·1	16·2	12·4	+5·2	0	8	0	0	4	1	0	0	0	0	0
Vizhakhapatnam	31·8	—0·7	34·7	14	25·1	—0.5	23·2	14	51·7	97·8	—68·6	27·2	14	10	+0·9	18·7	13·2	+4·5	0	11	0	0	7	0	0	0	0	4	0
Kakinada	31·3	—0·8	33·7	14	..	..	..	..	19·6	232·8	+76·3	56·0	4	13	+4·2	14·9	11·2	+4·4	0	16	0	0	0	0	0	0	0	0	0
Nidadavole	30·5	..	32·9	14	24·5	..	23.1	4	128·4	334·2	..	64·0	21	14	..	13·1	9·6	..	0	17	0	0	1	0	0	0	0	0	0
Rentachintala	32·7	—1·6	35·2	17	25·2	0	23·6	22	14·0	59·6	—61·3	23·6	5	7	—0·8	14·2	8·9	—0·6	0	7	0	0	0	0	0	0	0	0	0
Gannavaram	31·7	—0·7	34·0	17	24·8	—0·4	22·7	26	13·9	238·6	+105·7	92·0	26	10	+0·5	18·4	12·2	+1·1	3	15	0	0	5	0	0	0	0	0	0
Nagarjuna Konda	33·4	..	35·9	18	26·0	.	23·6	22	19·2	36·6	..	15·4	22	4	..	22·7	16·8	..	0	6	0	0	1	0	0	0	0	0	0
Masulipatam	31·4	—1·1	33·9	17,20	25·0	—0·3	22.3	5	19·4	226·0	+64·2	89·2	21	12	+2·1	7·3	5·1	—2·1	0	12	0	0	3	0	0	0	0	0	0
Ongole	34·0	..	36·1	25	25·8	..	23·1	1	1·8	61·1	..	24·2	1	6	..	13·3	8·3	..	0	10	0	0	0	0	0	0	0	0	0
Nellore	34·1	—0·7	36·5	25	25·5	—0·2	23·2	10	4·2	142·4	+29·1	47·0	10	8	+2·1	9·1	7·4	+0·5	0	12	0	0	1	0	0	0	0	0	0
Telangana																													
Ramgundam	30·9	—1·1	33·6	6	24·3	—0·2	22·3	7,26	86·9	168·1	—13·8	60·2	23	11	+0·5	8·7	5·5	+0·5	0	15	0	0	1	0	0	0	0	0	0
Nizamabad	30·3	—0·6	32·4	14,19	22·7	0	21·0	26	49·5	175·5	—50·8	48·0	26	9	—1·0	11·1	8·6	+3·6	0	10	0	0	4	0	0	0	0	0	0
Hanamkonda	30·9	—0·3	34·7	24	23·5	—0·1	21·9	22	70·2	227·6	+41·2	72·0	22	11	+1·9	13·9	9·7	+2·8	0	17	0	0	2	0	0	0	0	0	0
Hakimpet (Aerodrome).	28·7	..	31·8	17	21·1	..	19·6	29	14·8	179·5	..	71·0	5	11	..	0	..	..	0	14	0	0	2	0	0	0	0	0	0
Bhadrachalam	31·0	—1·2	33·6	14	24·2	—0·2	21·2	19	46·0	215·2	+35·0	28·0	5	20	+8·4	8·2	5·9	+0·8	1	20	0	0	0	0	0	0	0	0	0
Hyderabad (Begam Pet)	29·6	—0·2	31·7	18	21·8	+0·5	20·5	29	9·8	62·8	—101·0	9·8	19	8	—1·5	24·8	19·1	+8·3	0	15	0	0	1	0	0	0	0	2	0
Khammam	31·4	..	34·8	17	24·1	..	22·6	16	20·0	125·4	..	26·6	20	9	..	10·4	5·7	..	0	13	0	0	0	0	0	0	0	0	0
Mahbubnagar	30·4	..	33·0	17	21·9	..	20·9	27	42·3	71·5	..	14·6	24	9	..	13·8	11·1	..	0	17	0	0	1	0	0	0	0	0	0
Rayalaseema																													
Kurnool	32·9	+0·7	34 1	17,25, 29	23·4	+0·1	22·2	29	6·6	23·5	—127·9	11·9	17	2	—7·2	21·2	18·7	+8·9	0	7	0	0	1	0	0	0	0	0	0
Anantapur	33·7	+1·4	35·7	20	23·9	+0·8	23·0	3, 27	0	1·5	—143·8	1·5	20	0	—6·8	21·3	18·7	+5·3	0	1	0	0	0	0	0	0	0	0	0
Cuddapah	34·0	—0·2	36·3	10	25·1	+0·4	23·1	21	0	111·0	—42·2	80·4	21	5	—3·3	9·5	6·9	—1·0	0	5	0	0	0	0	0	0	0	0	0
Arogyavaram	30·2	..	33·3	10	21·6	..	20·0	20	0·8	129·1	..	85·0	20	5	..	15·1	12·1	..	0	8	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	33·2	..	34·7	13	24·5	..	22·5	25	..	187·3	..	40·8	25	9	..	..	9·9	..	0	12	0	0	6	0	0	0	0	0	0
Madras (Minambakkam).	33·2	—1·2	34·8	15	24·5	—0·6	22·4	21	33·8	220·2	+101·3	67 4	21	10	+3·0	14·3	12·3	—0·6	0	13	0	0	11	0	0	0	0	6	0
Vellore	33·7	+0·8	36·3	18	23·7	—0·4	21·1	19	37·6	255·3	+80·6	72·2	19	9	+0·9	8·2	8·4	+3·4	1	13	0	0	9	0	0	0	0	0	0
Tambaram (Aerodrome)	33·5	..	35·5	10	..	..	..	..	14·2	161 1	..	54·4	20	9	..	..	..	..	0	11	0	0	7	0	1	0	0	0	0
Tirupattur	33·5	..	36·6	18	21·6	..	19·5	28	2·7	145·3	10·1	38·6	20	8	..	10·1	7·5	..	0	8	0	0	3	0	0	0	0	0	0
Cuddalore	33·3	—0·3	34·9	13,15	24·4	—0·5	22·4	21	1·6	120·3	—12·0	68·0	21	6	—0·2	10·8	10·8	+4·5	1	7	0	0	5	0	0	0	0	0	0
Kallakkurichchi	33·3	..	36·4	10	23·8	..	21·3	18	25·6	343·8		118·8	20	15	..	8·1	7·3	..	0	17	0	0	5	0	0	0	0	0	0
Salem	32·6	—0·6	35·2	18	23·3	+0·5	22·0	26, 28	41 8	260·4	+106·2	94·8	20	13	+4·5	7·4	6·3	+1·3	1	18	0	0	12	0	0	0	0	0	0
Coimbatore (Pilamedu)	31·1	.	33·3	17	21.3	..	20·0	23, 30	1.0	18·6	..	15·4	19	1	..	34·3	28·2	..	1	4	0	0	1	0	0	0	0	0	0
Coimbatore	30·7	—0·8	32·4	12	22·3	+0·7	20·5	15	2·7	9·9	—30·5	5·5	19	2	—1·3	17·7	14·3	+6·7	1	3	0	0	1	0	0	0	0	0	0
Nagapattinam	33·7	0	36·8	18	25 2	0	23·0	25	2·2	64·8	—19·0	36·4	20	6	+0·9	13·1	11·4	+3·7	0	9	0	0	4	0	0	0	0	0	0
Tiruchchirapalli	33·9	—0·6	36.3	19	24·2	—0·4	21·4	4	61·3	205·6	+85·7	59·6	19	10	+4·0	17·6	15·3	—1·8	0	11	0	0	10	0	0	0	0	0	0
Vedaranniyam	32·7	..	35·8	17	23·7	..	20·2	21	0	121·5	..	33·4	10	7	..	12·9	11·1	..	0	10	0	0	5	0	0	0	0	0	0
Atirampattinam	32·8	..	36·2	17	24·9	..	23·0	19, 21	4·4	88·4	..	33·4	21	5	..	16·7	13 3	..	0	11	0	0	4	0	0	0	0	0	0
Madurai	35·1	+0·8	37·3	15	24·5	+0·1	22·9	20	35·2	58·7	—60·7	35·0	20	4	—2·5	6·8	6·4	+1·3	0	8	0	0	0	0	0	0	0	0	0
Madurai Aerodrome	34·5	..	36·3	29	23·9	..	22·5	2	68·6	90·8	..	33·2	20	7	..	14·5	10·0	..	0	10	0	0	11	0	0	0	0	0	0
Tondi	32·4	..	35·7	16	25·3	..	23·1	20	2·0	32·0	..	16·4	10	4	..	22·6	17·4	..	0	4	0	0	1	0	0	0	3	0	0
Pamban	31·7	—0·1	33·4	17	26·3	+0·4	24·0	17	0	0·1	—28·9	0·1	17	0	—1·9	20·3	17·9	+5·3	1	0	0	0	0	0	0	0	0	0	0
Tuticorin	34·3	+0·4	37·1	9	25·4	—0·6	24·0	4 days	0	2·0	—6·0	2·0	20	0	—1·2	21·3	15·9	—0·8	0	1	0	0	1	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days. (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line Squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Madras State— *Contd.*																														
Palayankottai	36·1	+0·7	37·8	5	24·9	−1·0	23·4	6	4·0	4·9	−22·1	2·8	2	1	−1·0	13·7	9·5	−3·7	0	3	0	0	1	0	0	0	0	0	0
Kannyakumari	30·0	..	32·3	16	23·9	..	22·0	25	12·2	36·0	..	13·2	24	5	..	19·1	16·7	..	0	6	0	0	0	0	0	0	0	0	0
Coastal Mysore																														
Karwar	28·3	+0·4	30·0	1,2	24·0	+0·2	22·4	14	250·8	685·8	+394·0	95·6	14	27	+11·5	14·7	11.8	..	0	29	0	0	0	0	0	0	0	0	0
Honavar	29·4	+0·5	30·9	7	22·9	−0·3	21·4	26	240·0	789·6	+393·9	82.8	24	23	+9·8	10·8	9·5	+5·8	1	29	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	28·0	..	29·4	7	22·3	..	20·0	27	286·1	849·4	..	95·4	8	27	..	9·3	7·2	..	0	28	0	0	0	4	0	0	0	0	0
Mangalore	29·0	−0.1	31·3	6	22·6	−0.9	21·4	11,26	284·6	938·5	+672.3	81·7	15	24	+8·5	8·3	7·0	+0·7	0	27	0	0	0	0	0	0	0	0	0
Interior Mysore North																														
Bidar	29·1	+0·2	31·2	17	20·8	−0·4	19·0	27	8·4	42·8	−174.1	12·6	19	6	−5·0	24·4	19·3	+6·9	0	12	0	0	0	0	0	0	0	0	0
Gulbarga	31·9	+0·5	44·7	18	21·6	−0·3	20·0	27,29	13·2	37·8	−151·7	30·0	8	2	−8·1	20·3	17·1	+6·2	0	5	0	0	0	0	0	0	0	0	0
Bijapur	31·5	+0·7	33·4	21,24, 25	21·3	+0·3	19·6	27	0·8	1·0	−139·7	0.8	8	0	−8·0	15·3	12·4	−2·7	1	1	0	0	0	0	0	0	0	0	0
Raichur	32·9	+1·1	35·4	25	21·5	−1·1	20·2	12,27	26·4	37·0	−121·2	22·4	10	3	−6·4	20·5	18·1	+6·2	0	6	0	0	0	0	0	0	0	0	0
Belgaum	25·8	−1·4	28·6	24	19·9	+1·3	13.5	22	44·6	115·7	−2·9	16·6	9	15	+5·9	12·1	11·0	−1·7	0	22	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	25·9	..	27·7	24	19·8	..	18.4	22	53·7	94·5	..	11·4	12	13	..	..	..	..	1	23	0	0	0	0	0	0	1	0	0
Gadag	29·1	−0·5	31·7	24	20·5	−0·1	19·3	22	74·0	77.6	−41·3	40·5	24	4	−2·4	21·3	17·3	+4·1	2	10	0	0	0	0	0	0	0	0	0
Interior Mysore South																														
Bellary	32·1	−0·4	33·6	25	23.7	+0·9	22·4	28	7·0	9·0	−114·7	4.0	26	2	−5·1	18·1	15·0	+4·9	0	3	0	0	0	0	0	0	0	0	0
Chitradurga	28·5	−0·6	30·4	24	21·2	+1·2	19·8	3	11·4	25·5	−85·5	11·6	18	3	−4·1	15·0	13·5	+4·0	0	6	0	0	0	0	0	0	0	0	0
Shimoga	28·2	−0·2	29·8	5	20·3	−0·2	19·7	5	31·0	52·2	−37·3	11·2	22	5	−3·5	10·9	6·4	−1·2	0	18	0	0	0	0	0	0	0	0	0
Balehonnur	24·2	−0·5	26·2	5,13	18·1	0	16·9	11	..	158·2	+36·9	13·7	2	19	+3·0	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Hassan	25·9	−1·3	27·9	20	18·3	+0·1	..	..	14·3	31·0	−79·0	12·3	22	4	−4·1	16·1	11·7	+3·5	0	11	0	0	2	0	0	0	0	0	0
Bangalore	27·7	−0·1	29·9	5	19·3	+0·8	18·2	27	59·0	149·5	−19·7	59·6	20	6	−2·9	17·8	14·4	+5·1	1	10	0	0	2	0	0	0	0	0	0
Bangalore Aerodrome	28·3	..	30·5	5	19·7	..	17·2	26	58.4	168.0	..	67·9	20	5	..	..	..	..	1	11	0	0	2	0	0	0	0	0	0
Mysore	30·5	+1·5	31·3	1	19·7	+0·5	17·8	24	22·6	35·6	−90·1	15·0	24	3	−5·2	11·0	11·3	+1·6	0	5	0	0	0	0	0	0	0	0	0
Kerala																														
Calicut	28·9	−0·2	30·6	6	23·2	−0·5	21·4	23,26	118·0	580·6	+378·9	67·8	8	22	+10·3	9·7	8·7	+1·6	0	24	0	0	1	0	0	0	0	0	0
Palghat	29·4	..	31·3	21	22·5	..	20·8	26	80·0	242·0	..	71·8	22	13	..	15·5	12·2	..	1	20	0	0	1	0	0	0	0	0	0
Fort Cochin	28·6	+0·3	30·2	7	23·8	−0·3	21·8	26	157·9	526·3	+331.5	99·4	26	15	+1·3	11·7	8·7	+1·6	0	21	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station).	29.5	..	30·9	13,19	22·4	..	21·6	26	167·3	583·3	..	90·0	26	14	..	9·3	6·7	..	0	21	0	0	4	0	0	0	0	9	0
Alleppey	29·4	0	30·8	8,12	23·1	−0·7	21·7	26	61·2	358·8	+62·8	88·0	11	17	+1·2	13·1	9·7	−0·1	0	20	0	0	0	0	0	0	0	0	0
Punalur	31·1	..	32·7	4,9,20	22·5	..	21·3	17,26	95·2	186.4	..	34·4	25	13	..	7·8	3·9	..	0	14	0	0	0	0	0	0	0	0	0
Trivandrum	29·5	−0·2	31·2	9	23·3	0	21.8	11	49·6	142·6	+28·1	35·6	11	11	+2·9	13·0	8·8	−0·5	2	18	0	0	2	0	0	0	0	0	0
Trivandrum Aerodrome	29.5	..	30·8	19	23·2	..	21·9	27	45.6	161·8	..	53·4	11	12	..	..	6.5	..	3	14	0	0	0	0	0	0	0	0	0
Arabian Sea Islands																														
Amini*																														
Minicoy*																														
Hill Stations excluding Kashmir																														
Dalhousie	22·6	−0.4	25·6	20	15.2	−0·2	13·2	9	191·0	402·0	+266·3	104·0	9	13	+3·9	2·2	1·8	−0·7	0	14	0	0	12	7	0	0	0	0	0
Dharmsala	24·4	−1·8	27·2	20	19.8	+0·5	16·7	23	289·4	779·6	+251·7	136·6	8	24	−10.5	4·2	3·0	−0·6	0	25	0	0	15	0	0	0	0	0	0
Simla	19·9	−0·3	24·5	8	14·6	+1·1	13·3	27	160·4	190·8	−21·1	36·4	10	15	+5·7	3.0	2.5	+0·8	1	19	0	0	1	11	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	174·3	−6·3	38·0	25	11	+3·5	..	..	..	0	17	0	..	..	..	..	..	..	..	..
Lokpal	8·6	..	10·1	3,20, 21	3·6	..	1·8	30	..	374·6	..	50·0	4	17	..	..	..	..	1	24	0	1	0	27	0	0	0	0	0
Badrinath																														
Joshimath	24·4	..	26·9	21	16·5	..	14·2	30	6·9	189·5	..	39·4	3	11	..	5·1	3·3	..	0	18	0	0	2	17	0	0	0	0	0
Mussoorie	20·1	+1·4	22·4	15	14·8	+0·7	13·5	27	95·7	455·1	+202·4	87·9	24	17	+4·2	5·4	4·3	−1·8	0	19	0	0	8	21	0	0	0	0	0
Mukteswar	21·0	+1·2	24·4	20	13·6	+0·8	12·6	29	110·6	166.0	−35·4	55·0	25	9	−1·1	8.2	10·1	+2·1	1	17	0	0	7	20	0	0	0	0	0
Nainital	20·8	−0.1	22·6	14	15·5	+0·7	13·3	29,30	78.5	176·0	+159·8	38·0	27	16	+3·5	9·7	6.6	−0·4	0	23	0	0	0	0	0	0	0	0	0
Kalimpong	25·4	+1·7	30·2	10	17·4	−0·9	14·5	26	116·8	431·7	+144·2	127·0	3	7	−5·7	5·5	4.4	−4·6	0	7	0	0	0	0	0	0	0	0	0
Darjeeling	19·1	−0·1	23·3	5	14·5	+0·1	11·8	18	170·8	472·2	−7·9	129·8	23	17	0	2.0	2·1	−0·2	0	24	0	0	2	16	0	0	0	0	0
Kohima (R)																														
Shillong	23·4	−0.1	26·3	14	17·0	+0·6	15·0	24	237·3	308·1	+8·6	44·2	16	20	+2·7	4·2	3.4	+1.0	0	22	0	0	0	0	0	0	0	0	0

*Data given as addenda in December 1961 issue. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 10.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir—*Contd.*																													
Cherrapunji†	23·0	+0·1	23·8	11	20·0	+1·9	..	..	57·5	136·6	..	..	..	..	..	5·4	4·6	−1·7	..	..	0	0	1	9	0	0	0	0	0
Abu	22·6	−1·4	23·8	30	18·0	−0·2	17·0	3,27	742·0	1599·5	+1171·5	323·2	13	19	+11·4	7·9	7·8	−0·9	0	20	0	0	3	6	0	0	0	0	0
Aijal	25·2	..	28·8	14	19·4	..	18·3	29, 5	31·0	179·4	..	69·4	13	23	..	6·0	6·5	..	0	24	0	0	1	0	0	0	0	0	0
Pachmarhi	22·8	−2·5	25·9	22	18·4	−0·5	16·5	28	379·4	1139·1	+1078·7	376·2	9	27	+13·9	11·5	11·4	+4·3	0	30	0	0	6	20	0	0	3	0	0
Mahabaleshwar	19·1	0·8	21·4	25	16·3	+0·3	14·7	25	668·7	1223·9	+293·9	122·2	10	28	+5·4	21·0	19·1	+6·5	0	29	0	0	0	30	0	0	0	0	0
Mercara	21·9	−0·2	25·0	6	16·4	−0·2	15·0	26	142·2	279·4	−2·0	49·0	8	19	+0·8	..	..	..	1	23	0	0	0	0	0	0	0	0	0
Ootacamund	18·7	+0·6	21·2	13	9·8	−0·8	7·8	2	23·6	41·0	−107·1	15·2	26	4	−8·0	10·6	6·2	+0·6	2	17	0	0	2	0	0	0	0	0	0
Coonoor	21·6	−0·1	24·0	12	14·2	+0·7	11·1	13	..	196·2	−102·8	33·2	19	11	+4·6	..	7·3	+1·7	0	13	0	0	0	0	0	0	0	0	0
Kodaikanal	18·5	+0·4	20·3	18	11·1	0	9·9	28	101·1	122·6	−62·3	23·9	11	8	−3·9	11·1	11·6	−0·1	2	16	0	0	5	0	0	0	0	0	0
Nepal																													
Katmandu	27·4	..	29·5	14	19·0	..	17·2	29	33·7	130·4	..	25·6	3	14	..	1·6	0·9	..	3	19	0	0	11	1	0	0	0	0	0
Sikkim																													
Lachen	18·1	..	19·7	14	21·1	..	6·9	22	..	257·4	..	52·4	27	21	..	..	..	..	0	28	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	30·1	..	32·3	26	21·6	..	23·1	30	32·0	67·6		36·3	21	12	..	11·7	8·9	..	0	19	..	..	..	..	..	..	..	..	..
Hazaribagh	28·4	..	30·6	19	22·3	..	20·8	10,11	168·3	322·1	..	47·0	10	18	..	9·0	5·9		0	23	0	0	11	0	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	152·7	261·9	.	35·6	1	20	..	..	..	..	0	24	0	0	0	0	0	0	0	0	0
Bokaro	33·4	..	35·1	12	27·4	..	21·4	28,30	28·3	145·7	..	43·0	23	13	..	..	..	..	0	27	..	..	..	..	..	..	..	..	..
Maithon	31·5	..	34·4	12, 13, 20,	25·1	..	23·9	22,23	22·1	263·6	..	64·8	23	18	..	..	..	..	0	20	..	..	..	..	..	..	..	..	..
Ramgarh	30·9	..	34·3	20	23·8	..	22·7	12,18	82·7	319·3	..	45·2	13	16	..	4·2	2·5	..	0	24	0	0	0	0	0	0	0	0	0
Panchet Hills	31·2	..	33·8	12, 13	25·2	..	23·7	23	157·7	302·2	..	56·4	23	20	..	3·0	6·5	..	0	23	0	0	12	0	0	0	0	0	0
Durgapur	32·6	..	35·6	21	24·7	.	23·1	25	83·1	183·3	..	52·0	12	15	..	14·4	11·5	..	0	20	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	26·5	..	32·9	21	22·8	..	21·2	16	..	320·7	..	69·0	30	18	..	..	..	..	1	23	..	..	..	..	..	..	..	..	..
Hirakund	30·1	..	32·6	20	24·8	..	23·6	14,22	302·6	696·7	..	187·7	2	17	..	9·2	5·9	..	1	23	0	0	11	0	0	0	0	0	0
Bhimkud	29·7	..	32·2	11	23·5	..	22·5	18	200·8	479·0	..	126·0	14	17	..	5·0	3·3	..	0	23	0	1	25	0	0	0	0	0	0
Sonepur	30·6	..	32·8	11	25·4	..	22·2	13	..	291·3	..	72·6	14	17	..	..	5·9	..	1	18	..	..	..	..	..	..	..	..	..
Khijrawan	28·0	..	30·0	20 4 days	22·2	..	20·6	17,18, 21	96·7	351·3	..	100·0	14	11	..	11·1	8·6	..	1	14	0	0	0	0	0	0	0	0	0
Narmada Catchment																													
Bagra Tawa	28·0	..	32·3	23	22·6	..	20·7	28	245·1	865·0	..	259·0	9	23	..	8·5	7·7	..	1	24	0	0	2	0	0	0	0	0	0
Punasa	28·2	..	31·7	2, 25	22·9	..	21·1	27,28	194·2	643·3	..	268·4	9	18	..	9·8	7·0	..	2	21	0	0	0	0	0	0	0	0	0
Thikri	29·3	..	32·4	25	23·1	..	21·5	26,28	..	345·4	..	82·5	17	13	..	..	..	..	2	20	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi	30·4	..	33·4	30	24·3	..	23·2	30	103·0	355·0	..	83·0	11	16	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim	23·3	..	25·6	21, 22	16·3	..	14·9	8	92·6	285·8	..	54·5	1	14	..	..	..	..	0	20	0	0	4	6	0	0	0	0	0
Tehri	33·3	..	35·3	14	22·5	..	21·3	9	5·6	125·4	..	29·2	2	7	..	4·4	2·7	..	2	9	0	0	1	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	23·1	..	24·5	6	12·3	..	9·2	30	0	22·3	..	8·9	4	3	..	..	..	..	2	4	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	103·8	469·5	..	58·0	8	24	..	..	..	..	1	28	..	..	..	..	..	..	..	..	..
Timure	26·1	..	27·7	14	16·7	..	15·3	30	2·1	100·8	..	12·7	25	14	..	..	..	..	0	23	..	..	..	..	..	..	..	..	..
Pokhara	29·3	..	31·1	14	21·2	..	19·7	23	67·0	468·2	..	105·9	20	20	..	4·9	3·1	..	1	25	0	0	21	0	0	0	0	0	0
Gerkha(R)																													
Nuwakot	27·7	..	31·7	14	20·0	..	17·9	26	21·8	363·2	..	59·0	26	17	..	..	..	..	0	24	..	..	.	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment																													
Mansiari (R)																													
Dadeldhura	23·3 (o)	..	25·2	26	16·5	..	14·2	*23,30	19·1	112·5	..	25·0	24	9	..	..	..	..	2	15	0	0	2	16	0	0	0	0	0
Sallayana	6·7	..	28·5	2	..	..	..	..	7·0	4·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	32·4	..	34·9	14	24·9	..	22·9	23	14·5	194·7	..	*50·0	28	7	..	..	..	..	1	13	..	..	..	..	..	..	..	..	..

(o) Mean of 16 days. †Observation 25 days. (R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																													
Baghmati Catchment																													
Katmandu* .																													
Kosi Catchment																													
Chautara . .	26·3	..	28·2	5	17·6	..	16·4	12	20·8	296·2	..	50·0	3	19	..	..	..	..	0	25	..	..	..	..	..	..	..	..	.
Chepua . .	..	..	..	..	..	..	..	..	66·3	384·7	..	57·4	27	25	..	..	..	..	0	29	..	..	..	..	..	..	..	..	..
Walungchung Gola	16·5	..	18·5	4	8·7	..	6·8	27	87.0	295·2	..	36·2	27	22	..	..	..	..	2	27	..	..	..	..	..	..	..	..	.
Taplethok . .	26·2	..	28·9	15	18·0	..	16·8	28	37.0	341·8	..	37·8	13	25	..	..	..	..	0	28	0	0	0	0	0	0	0	0	0
Bhojpur . .	24·2	..	26·9	14	17·7	..	16·4	21	7.0	160.3	..	65·3	20	6	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Taplejung . .	24·8	..	27·2	14	16·0	..	15·0	27	53.3	397.8	..	65·6	15	24	..	..	..	..	1	28	0	0	5	11	0	0	0	0	0
Okhaldhunga .	24·4	..	27·2	5	16·4	..	15·3	17,21	106·5	255·3	..	48·4	21	15	..	1·4	1·3	..	2	22	0	0	9	8	0	0	0		0
Chainpur . .	27·4	..	30·0	14	19·5	..	18·5	9	7·8	308·8	..	40·8	21	17	..	..	..	..	0	19	..	..	..	..	..	..	..	..	..
Angbung . .	28·1	..	30·4	14	20·1	..	16·2	26	20·3	205·3	..	29·0	21	15	..	..	..	..	2	16	0	0	0	0	0	0	0	0	0
Barahakshetra .	31·6	..	35·0	13	22·6	..	21·7	10	230·0	527·0	..	119·2	21	19	..	5·9	3·7	..	1	24	0	0	12	0	0	0	0	4	0
Tista Catchment																													
Gangtok . .	22·4	..	26·3	13	15·8	..	14·8	28	85·5	505·7	..	89·2	23	25	..	2·1	1·7	..	1	28	0	0	7	18	0	0	0	0	0
Gezing . .	26·7	..	30·7	14	17·4	..	16·1	5,24	48·5	313·0	..	62·4	1	17	..	..	..	..	0	22	..	..	..	..	..	..	..	..	..

*Data included under "Nepal".

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1009·3	1006·2	..	26·7	25·3	24·8	31·3	90	..	5·7	..	9·2	0	1	29	0	0	0	0	0	30	0	0	0	0
	1730	,,	1006·8	1003·7	..	25·8	24·7	24·4	30·5	91	..	6·1	..	8·5	0	1	29	0	0	0	0	0	30	0	0	0	0
Long Island	0830	25	(j) 1009·8	(j) 1006·9	..	26·9	25·4	25·0	31·7	90	..	6·1	..	5·3	0	0	26	0	0	0	0	0	26	0	0	4	0
	1730	,,	(j) 1007·0	(j) 1004·2	..	26·0	24·8	24·3	30·4	90	..	6·4	..	4·9	0	0	27	0	0	0	0	0	27	0	0	3	0
Port Blair	0530	79	1008·6	999·6	..	24·6	23·9	23·6	29·1	95	..	7·4	..	11·8	0	3	23	0	0	0	0	0	18	7	1	4	0
	0830	,,	1010·3	1001·4	*0·8	26·5	24·9	24·2	30·2	88	+4	7·2	+1·0	21·3	0	17	13	0	0	0	0	0	21	9	0	0	0
	1130	,,	1009·1	1000·2	..	27·0	25·0	24·1	30.0	85	..	7·7	..	21.5	0	18	10	0	0	0	0	0	17	11	0	2	0
	1730	,,	1007·9	999·0	..	25·2	24·2	23·8	29·5	93	..	7·6	..	13·6	0	6	22	0	0	0	0	0	23	4	1	2	0
	2330	,,	1009·4	1000·4	..	24·6	24·0	23·8	29·5	95	..	7·3	..	12·6	0	5	22	0	0	0	0	0	20	6	1	3	0
Car Nicobar	0830	10	1011·1	1009·9	..	28·0	25·4	24·3	30·4	81	..	6·3	..	5·7	0	0	28	0	0	0	0	1	22	4	1	2	0
	1730	,,	1008·7	1007·5	..	26·2	24·5	23·7	29·3	86	..	6·4	..	3·7	0	0	23	0	0	0	0	1	19	3	0	7	0
Nancowry	0830	26	1011·7	1008·8	..	27·4	24·9	23·7	29·3	81	..	5·2	..	4·0	0	0	17	0	0	0	0	0	16	0	1	13	0
	1730	,,	1009·1	1006·3	..	26·2	24·2	23·3	28·6	85	..	(b) 4·7	..	4·5	0	0	19	0	0	0	0	0	15	1	3	11	0
Kondul	0830	8	1011·6	1010·7	..	27·1	24·9	24·0	29·8	83	..	6·6	..	1·8	0	0	15	0	0	0	15	0	0	0	0	15	0
	1730	,,	1009·0	1008·1	..	26·1	24·4	23·7	29·3	87	..	6·6	..	1·4	0	0	10	0	0	0	8	0	0	0	2	20	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1006·1	988·6	..	27·1	24·4	23·2	28·5	80	..	5·6	..	5·3	0	1	21	3	3	4	1	1	1	0	9	8	0
	1730	,,	1001·6	984·1	..	27·6	25·7	24·7	30·7	84	..	3·2	..	1·4	0	0	10	0	0	0	0	1	0	1	8	20	0
Dibrugarh (Mohanbari)	0230	111	1002·6	990·0	..	25·0	24·3	23·9	29·7	94	..	5·4	..	1·0	0	0	5	1	1	1	0	0	2	0	0	25	0
	0530	,,	1003·4	990·9	..	24·4	23·7	23·4	28·8	94	..	6·2	..	1·4	0	0	12	0	8	0	1	1	1	1	0	18	0
	0830	,,	1004·8	992·4	−3.0	27·2	25·1	24·1	30·0	84	−2	6·0	+0·2	2·9	0	0	20	0	14	2	1	0	1	0	2	10	0
	1130	,,	1003·2	990·8	..	29·7	26·0	24·4	30·5	74	..	5·5	..	3·4	0	0	20	0	11	5	3	0	0	1	0	10	0
	1730	,,	1000·3	988·0	..	28·9	26·2	25·0	31.7	80	..	3·8	..	0·2	0	0	1	0	1	0	0	0	0	0	0	29	0
	2330	,,	1003·0	990·5	..	25·5	24·9	24·4	30·5	92	..	5·2	..	0·7	0	0	4	0	2	1	1	0	0	0	0	26	0
Dibrugarh	0830	106	1005·5	993·6	−2·3	28·3	25·2	23·7	28·3	75	−11	5·6	−0·2	2·3	0	0	23	5	9	2	1	0	1	1	4	7	0
	1730	,,	1001·1	989·3	..	29·3	25·9	24·4	30·5	76	..	2·9	..	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
Digboi	0830	..	..	..	..	27·8	26·5	26·0	33·4	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	*1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
North Lakhimpur	0830	102	..	..	..	27·5	25·1	24·1	29·8	83	−1	5·3	−0·5	1·1	0	0	10	5	1	2	1	1	0	0	0	20	0
	1130	,,	..	..	..	29·4	25·9	24·4	30·4	75	..	5·4	..	3·2	0	0	22	6	2	11	0	1	0	0	2	8	0
	1730	,,	..	..	..	28·9	26·5	25·5	32·6	82	..	3·7	..	0·5	0	0	4	2	0	1	1	0	0	0	0	26	0
Sibsagar	0830	97	1006·3	995·4	−1·4	28·0	25·8	24·7	31·1	83	−4	6·0	−0·7	6·0	0	0	17	8	4	1	2	0	1	0	1	13	0
	1730	,,	1001·9	991·2	..	29·6	26·7	25·6	32·8	79	..	4·4	..	1·2	0	0	9	2	4	1	1	1	0	0	0	21	0
Gohpur	0830	..	..	..	..	27·6	25·3	24·3	30·4	82	..	(b) 1·7	..	(b) 3·2	0	0	29	0	0	29	0	0	0	0	0	0	0
	1730	..	..	..	..	29·1	26·8	25·8	33·2	83	..	(c) 1·4	..	(c) 1·7	0	0	16	0	0	14	2	0	0	0	0	12	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	4·1	..	2·2	0	0	19	1	6	9	2	1	0	0	0	11	0
	1730	,,	..	..	..	..	..	..	..	..	..	2·8	..	0·3	0	0	3	0	1	1	0	0	1	0	0	27	0
Jorhat (Aerodrome)	0530	90	1003·8	993·7	..	25·0	24·7	24·5	30·7	98	..	6·3	..	2·0	0	0	8	0	4	1	0	1	1	0	1	22	0
	0830	,,	1005·3	995·2	..	28·0	25·9	25·0	31·7	84	..	6·4	..	5·6	0	0	23	2	14	3	0	0	3	0	1	7	0
	1130	,,	1003·8	993·8	..	30·1	26·5	25·0	31.7	75	..	5·6	..	8·4	0	1	27	2	12	4	2	0	1	3	4	2	0
	1730	,,	1001·1	990·9	..	28·8	26·4	25·3	32·2	82	..	4·7	..	4·5	0	0	19	2	10	0	0	0	3	0	4	11	0
	2330	,,	1003·5	993·5	..	26·2	25·6	25·3	32·2	95	..	5·0	..	1·8	0	0	6	0	2	1	0	0	2	0	1	24	0
Tangla	0830	78	1004·5	995·7	..	28·4	26·0	24·9	31·7	81	..	3·1	..	0·3	0	0	3	0	0	2	0	0	1	0	0	27	0
	1730	,,	1000·4	991·7	..	29·7	27·0	26·1	33·4	81	..	3·9	..	0·5	0	0	2	0	0	1	0	0	0	0	1	28	0
Tezpur	0830	79	1006·2	997·4	−1·8	27·2	25·8	25·3	32·2	89	+3	5·7	−0·1	4·3	0	0	28	0	9	6	4	3	2	0	1	2	3
	1730	,,	1001·9	993·2	..	29·0	26·6	25·8	33·2	83	..	4.5	..	1·8	0	0	14	0	8	2	2	0	1	1	0	16	0
Golaghat	0830	..	..	..	..	27·8	25·6	24·6	30·4	83	..	6·7	..	(c) 0.1	0	0	1	0	0	0	1	0	0	0	0	27	0
	1730	..	..	..	..	29·5	26·9	25·5	32·6	81	..	3·7	..	(g) 0	0	0	0	0	0	0	0	0	0	0	0	24	0
Rangia (R)	0830																										
(R)	1730																										
Chaparmukh	0830	66	1006·3	998·9	..	28·3	25·8	24·8	31·3	83	..	5·6	..	(b) 3·7	0	0	29	1	0	17	5	4	1	0	1	0	0
	1730	,,	1001·3	994·1	..	30·3	26·7	25·3	32·2	76	..	3·2	..	3·3	0	0	29	7	4	10	0	2	2	1	3	1	0
Goalpara	0830	38	1005·5	1001·2	..	27·3	25·8	25·0	31·7	88	..	5·7	..	3·1	0	0	28	2	11	1	5	0	6	1	2	2	0
	1730	,,	1001·4	997·0	..	30·7	27·4	26·0	33·6	77	..	5·1	..	2·2	0	0	22	1	4	0	2	2	10	2	1	8	0
Gauhati	0830	55	1005·7	999·4	−0·7	27·7	25·9	25·2	32·1	86	+4	5·0	−0·4	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1001·9	995·7	..	29·0	26·1	24·8	32·0	78	..	5·8	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0

(R) Register not received. *Data not reliable. (g) Mean of 24 days. (c) Mean of 28 days. (b) Mean of 29 days (j) Mean of 21 days.

Division and station	Hour of observation I.S.T.	Station elevation in meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor)	0230	54	1003·2	997·0	..	25.7	25·1	24·8	31·3	94	..	5·0	..	1·7	0	0	12	1	4	2	1	0	2	2	0	18	0
	0530	"	1003·7	997·5	..	25·4	24·8	24·5	30·7	95	..	6·7	..	1·6	0	0	14	2	4	3	2	1	1	1	0	16	0
	0830	"	1005·4	999·3	—1·8	28·2	26·0	25·1	31·1	84	+5	6·3	+0·9	2·3	0	0	20	2	10	3	1	2	0	1	1	10	0
	1130	"	1003·9	997·8	..	30·5	26·9	25·5	32·6	75	..	5·5	..	7·0	0	0	28	6	15	1	1	0	0	3	2	2	0
	1730	"	1001·3	995·2	..	28·2	25·8	24·8	31·3	82	..	6·2	..	3·9	0	0	20	2	10	3	1	2	0	1	1	10	0
	2330	"	1004·0	997·9	..	26·2	25·3	25·2	31·1	91	..	5·3	..	2·4	0	0	15	1	4	2	1	5	2	0	0	15	0
Dhubri (Rupsi)	0530	36	1002·9	998·8	..	25·5	25·0	24·7	31·1	96	..	6·1	..	2·9	0	0	16	5	6	2	1	0	1	0	1	14	0
	0830	"	1004·5	1000·5	..	28·1	26·0	25·1	31·7	84	..	6·2	..	6·4	0	0	28	4	5	10	6	0	1	0	2	2	0
	1130	"	1003·3	999·3	..	30·2	26·5	25·2	31·5	75	..	6·1	..	9·5	0	0	30	5	2	7	10	2	1	2	1	0	0
	1730	"	1000·5	996·5	..	29·1	26·5	25·4	32·4	81	..	5·7	..	3·6	0	0	18	2	1	4	1	4	5	0	1	12	0
Dhubri	0830	35	1005·8	1001·9	—1·4	28·1	26·2	25·2	32·4	85	0	5·9	+0·7	2·0	0	0	9	2	5	1	1	0	0	0	0	21	0
	1730	"	1001·8	998·0	..	28·8	26·7	25·8	33·4	84	..	5·2	..	1·1	0	0	5	0	2	1	1	1	0	0	0	25	0
Lumding	0830	149	1005·1	988·5	..	27·5	25·9	25·1	31·9	87	+2	6·6	..	0·5	0	0	5	1	1	1	2	0	0	0	0	25	0
	1730	"	1001·7	985·5	..	28·7	26·8	26.0	33·6	86	..	6·3	..	1·1	0	0	10	1	1	6	0	1	1	0	0	20	0
Umroi	0830	899	..	..	..	24·0	22·3	21·5	25·6	86	..	5·9	..	2·7	0	0	21	2	4	10	4	1	0	0	0	9	0
	1130	"	..	..	..	26·8	23·5	22·1	26.6	76	..	6·2	..	6·5	0	0	30	4	5	14	4	0	0	1	2	0	0
	1730	"	..	..	..	22·6	21·7	21·3	25·6	93	..	6·2	..	1·9	0	0	13	2	4	2	1	0	0	0	3	17	1
Tura	0830	370	1005·9	964·8	..	26·2	24·3	23·8	28·9	85	..	6·3	..	1·9	0	0	14	0	1	1	1	2	6	1	2	16	0
	1730	"	1002·5	961·3	..	27·2	25·1	24·1	30·0	84	..	6·9	..	(d) 2·6	0	0	18	0	5	2	1	1	6	3	0	9	0
Haflong	0830	682	1005·3	930·6	..	23·7	22·2	21·5	25·6	88	..	5·3	..	7.1	0	0	30	1	1	0	1	7	20	0	0	0	0
	1730	"	1001·0	927·0	..	25·3	23·2	22·2	26·7	83	..	4·8	..	5.3	0	0	30	1	0	0	0	3	25	1	0	0	0
Silchar (Kumbhigram)	0530	97	1003·2	992·2	..	24·4	23·9	23·7	29·3	97	..	6·1	..	3·1	0	0	18	2	4	8	2	0	0	2	0	12	0
	0830	"	1004·4	993·6	..	26·9	25·0	24·1	30·0	86	..	5·9	..	3·8	0	0	24	1	1	17	2	1	2	0	0	6	0
	1130	"	1002·6	991·9	..	30.3	26·3	24·6	30·9	72	..	4·8	..	4·8	0	0	24	2	0	5	3	3	4	4	3	6	0
	1730	"	1000·4	989·6	..	28·7	25·9	24·6	30·9	79	..	5·3	..	4·0	0	0	19	0	1	3	2	4	2	7	0	11	0
Silchar	0830	29	1005·8	1002·5	—2·2	27·7	25·6	24·6	30·9	84	0	5·9	+0·1	1·4	0	0	14	2	7	2	0	1	2	0	0	16	0
	1730	"	1001·7	998·4	..	29·5	26·6	25·3	32·2	79	..	4·1	..	1·7	0	0	16	1	1	1	3	2	4	3	1	14	0
Imphal (Tulihal)	0530	801	1005·7	920·1	..	21·7	21·3	21·0	24·9	95	..	7·2	..	1·4	0	0	13	3	4	2	0	2	0	2	0	17	0
	0830	"	1006·3	921·3	—1·7	24·2	22·1	21·3	25·3	84	+3	6·9	+0·8	2·1	0	0	19	2	5	1	0	4	3	2	2	11	0
	1130	"	1004·0	919·9	..	26·9	23·0	21·2	25·2	71	..	5·7	..	3·0	0	0	22	1	2	1	3	5	3	3	4	8	0
	1730	"	1001·9	917·7	..	25·5	22·8	21·5	25·6	79	..	6·3	..	3·6	0	0	22	2	2	1	8	1	1	4	3	8	0
	2330	"	1005·5	920·2	..	22·7	21·9	21·5	25·6	93	..	5·4	..	2·3	0	0	19	3	3	1	0	3	3	2	4	11	0
Kailashshar	0530	29	1004·6	1001·3	..	25·3	24·6	24·3	30·4	95	..	6·2	..	1·4	0	0	8	0	1	2	1	2	2	0	0	22	0
	0830	"	1006·0	1002·7	..	28·0	25·5	24·3	30·4	81	..	5·8	..	4·0	0	1	20	2	6	3	3	5	2	0	0	9	0
	1130	"	1004·3	1001·1	..	30·1	26·5	24.9	31·5	73	..	5·6	..	4·6	0	0	22	6	2	5	3	3	2	0	1	8	0
	1730	"	1002·3	999·0	..	28·4	26·2	25·2	30·4	84	..	6·7	..	3·3	0	1	9	1	0	1	2	4	0	2	0	20	0
Agartala	0230	16	1002·5	1000·7	..	25·3	24·5	24·1	30·0	93	..	5·7	..	7·2	0	0	28	0	3	4	20	1	0	0	0	2	0
	0530	"	1003·0	1001·2	..	24·8	24·1	23·8	29·5	95	..	6·3	..	6·2	0	0	29	0	2	10	15	1	1	0	0	1	0
	0830	"	1004·5	1002·7	—1·5	28·3	25·8	24·5	30·7	80	—5	6·2	—0·2	10·7	0	0	30	1	2	3	21	1	1	0	1	0	0
	1130	"	1003·3	1001·6	..	30·5	26·7	25·0	31·7	73	..	6·5	..	10·0	0	0	30	2	2	2	15	5	1	1	2	0	0
	1730	"	1001·1	999·3	..	28·0	26·1	25·3	32·2	85	..	6·4	..	7·5	0	0	27	1	1	2	13	7	0	2	1	3	0
	2330	"	1003·6	1001·8	..	25·8	25·0	24·6	30·9	93	..	5·8	..	7·2	0	0	24	1	0	1	19	3	0	0	0	6	0
Sub-Himalayan West Bengal.																											
Baghdogra	0230	131	1002·8	988·1	..	25.9	24.9	24.4	30.1	91	..	5·8	..	6·9	0	0	28	8	12	4	0	3	0	1	0	2	0
	0530	"	1003·3	988·5	..	24·6	24·1	23·7	29·3	96	..	5·9	..	5·6	0	0	27	9	10	3	3	0	1	0	1	3	0
	0830	"	1004·9	990·3	—1·3	28·0	25·5	24·4	30·5	81	0	6·5	+0·7	9·4	0	0	26	1	8	14	3	0	0	0	0	4	0
	1130	"	1003·8	989·2	..	30·3	26·6	25·1	31·9	74	..	5·7	..	11·4	0	0	29	1	4	13	8	0	2	0	1	1	0
	1730	"	1000·9	986·3	..	28·9	26·4	25·3	32·4	82	..	5·8	..	5·0	0	0	23	3	6	9	2	2	0	0	1	7	0
	2330	"	1003·9	989·2	..	26.9	25·4	24.7	31.1	88	..	5·6	..	8·6	0	1	26	8	9	4	0	2	1	2	1	3	0
Jalpaiguri	0830	83	1004·9	995·7	—1·9	26·8	25·3	24·7	31·1	89	+2	4·6	+0·2	6·0	0	0	28	5	11	6	3	0	0	0	3	2	0
	1730	"	1000·7	991·5	..	29·5	26·2	24·9	31·5	76	..	3·8	..	4·6	0	0	22	2	7	7	5	0	0	0	1	8	0
Cooch Behar	0830	43	1005·2	1000·4	..	28·3	25·9	24·9	31·5	82	..	6·0	..	5·1	0	0	19	0	6	10	3	0	0	0	0	11	0
	1130	"	1003·9	999·1	..	30·4	26·7	25·1	31·9	74	..	5·8	..	6·8	0	0	21	0	8	7	2	3	0	0	0	9	1
	1730	"	1001·2	996·3	..	29·3	26·8	25·8	33·2	82	..	5·8	..	2·1	0	0	7	0	2	3	1	1	0	0	0	23	0
Balurghat	0830	..	..	..	..	29·0	26·5	25·4	32·4	80	..	4·6	..	9·2	0	2	25	0	10	15	8	2	0	0	1	3	0
	1730	..	..	..	..	29·5	26·4	25·1	31·9	78	..	5·0	..	4·5	0	0	27	0	0	7	9	6	4	0	1	3	0
Malda	0830	31	1004·1	1000·6	—1·9	29·3	26·7	25·6	32·8	80	—1	6·0	+1·8	11·0	0	2	28	1	2	17	6	3	1	0	0	0	0
	1730	"	1000·5	997·0	..	29·0	26·6	25·6	32·8	82	..	5·3	..	6·4	0	0	25	1	2	12	5	2	1	1	1	5	0

(d) Mean of 27 days.

Division and station	Hour of observation I.S.T.	Station elevation in Meters	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal																											
Berhampore	0830	19	1003·3	1001·2	−2.9	28·6	26·3	26·7	35·0	82	0	6·7	+1·3	5·9	0	0	30	1	0	22	0	6	0	1	0	0	0
	1730	,,	999·8	997·7	..	28·5	26·3	26·9	35·4	84	..	6·5	..	5·3	0	0	27	0	1	18	1	6	0	0	1	3	0
Suri	0830	77	1003·8	995·2	..	28·4	26·3	25·4	32·4	84	..	6·3	..	7.2	0	0	30	1	5	9	6	5	0	2	2	0	0
	1730	,,	1000·2	991·6	..	28·8	26·4	25·4	32·4	82	..	5·7	..	6·0	0	0	30	5	3	11	3	8	0	0	0	0	0
Asansol	0230	126	1001·3	937·2	..	25·9	25·5	25·3	32·2	97	..	5·2	..	4.9	0	1	15	0	1	5	9	1	0	0	0	14	0
	0530	,,	1001·6	987.4	..	25·5	25·3	25·1	31·9	98	..	6·0	..	4·6	0	1	12	0	1	6	4	2	0	0	0	17	0
	0830	,,	1003·2	989·1	−2·3	27·9	26·2	25·4	32·4	87	+4	6·2	+1.0	7.6	0	1	23	0	4	7	7	2	0	1	3	6	0
	1130	,,	1002·2	988·2	..	29·9	27·0	25·9	33·4	79	..	5·9	..	8·9	0	1	22	1	2	9	8	2	0	0	1	7	0
	1730	,,	999·7	985·7	..	27·8	26·4	25·7	33·0	87	..	6·7	..	5.5	0	0	20	0	1	11	5	3	0	0	0	10	0
	2330	,,	1002·4	988·2	..	26·4	25·8	25·5	32·6	96	..	6·0	..	5·7	0	1	18	0	2	6	8	2	0	0	1	11	0
Shanti Niketan	0830	59	1003.7	997·1	..	28·2	26·4	25·7	33·0	87	..	6·1	..	9.7	0	3	26	1	6	4	9	5	2	1	1	1	0
	1130	,,	1002.7	996·1	..	29·9	27·0	25·8	33.2	79	..	5·7	..	7.8	0	2	27	2	5	13	6	1	1	0	1	1	0
	1730	,,	1000·0	993.3	..	28·3	26·7	25·9	33·4	87	..	6·1	..	9·5	0	2	26	2	4	6	8	7	1	0	0	2	0
Krishnanagar	0830	15	1003·3	1001·7	−2·5	28·7	26·6	25·8	33·2	83	+2	4·1	−1·3	2.4	0	0	21	0	1	6	3	11	0	0	0	9	0
	1730	,,	1000·0	998·4	..	28·6	26·4	25·5	32·6	84	..	4·5	..	1·9	0	0	10	0	1	1	2	15	0	0	0	11	0
Purulia	0830	255	1002·9	974·8	−2·3	27·1	25·0	24·0	29·8	84	+2	6·5	+1·1	7·0	0	0	30	0	7	0	13	0	0	0	10	0	0
	1730	,,	999·7	971·7	..	27·2	25·1	24·2	30·2	83	..	7·3	..	5·7	0	0	27	0	4	0	20	0	1	0	2	3	0
Burdwan	0830	32	1001·9	993·3	−4·6	28·8	26·1	25·1	31·9	80	−3	5·0	−0·4	2·0	0	0	21	0	1	8	4	3	2	1	2	9	0
	1730	,,	998·8	995·3	..	28·9	26·3	25·3	32·2	81	..	5·3	..	3·2	0	0	15	0	1	6	5	2	0	1	0	15	0
Barrackpore (Aerodrome)	0530	7	1001·7	1000·9	..	26·3	25·8	25·5	32·6	96	..	6·0	..	6·0	0	3	12	0	0	6	5	2	0	1	1	15	0
	0830	,,	1003·4	1002·6	−2·0	28·3	26·6	25·8	33·2	87	+1	6.6	+0·4	10·1	0	2	24	1	2	6	13	1	1	1	1	4	0
	1130	,,	1002·4	1001·7	..	30·2	27·2	26·0	33·6	78	..	6·8	..	10.4	0	2	25	2	0	5	5	9	2	2	1	3	1
	1730	,,	1000·1	999·3	..	28·3	26·7	26·0	33·6	88	..	6.6	..	7.1	0	1	21	0	0	3	3	7	5	3	1	8	0
	2330	,,	1002·6	1002.0	..	27·4	26·5	26·2	34·0	93	..	4.5	..	3·7	0	0	13	0	0	4	6	0	2	0	1	17	0
Calcutta (Dum Dum)	0230	6	1001·0	1000·3	..	26·5	25·8	25·4	32·4	94	..	4.6	..	5.4	0	1	21	2	2	5	6	3	1	0	1	8	0
	0530	,,	1001·3	1000·6	..	26·2	25·6	25·3	32·2	94	..	6·2	..	5·2	0	1	20	1	3	8	6	1	1	0	1	9	0
	0830	,,	1003·0	1002·3	−2.7	28·7	26·6	25·7	33·0	83	+2	6·7	+0.6	7.9	0	2	26	3	3	5	10	2	1	1	3	2	0
	1130	,,	1002·0	1001·3	..	30·2	26·7	25·2	32·1	75	..	6·8	..	8·5	0	1	26	2	2	4	11	4	2	0	2	3	0
	1730	,,	999·8	999·1	..	28·1	26·1	25·4	32·1	84	..	6·8	..	7·0	0	3	23	0	2	1	12	6	4	0	1	4	0
	2330	,,	1002·3	1001·6	..	26·9	25·9	25·5	32·6	92	..	4·8	..	5·5	0	0	24	1	2	4	13	3	1	0	0	6	0
Calcutta	0830	6	1002·6	1001·9	−3·4	28·5	26·4	25·4	32·4	83	0	6·5	+0·8	7·3	0	1	29	2	2	5	9	5	3	2	2	0	0
	1130	,,	1001·6	1000·9	..	30·2	26·8	25·4	32·4	75	..	7·0	..	6·9	0	0	29	1	2	8	6	7	1	2	2	1	0
	1730	,,	999·5	998·3	..	28·4	26·2	25·3	32·2	83	..	6·6	..	5·9	0	0	29	0	1	4	9	9	3	2	1	1	0
Midnapore	0830	45	1002·5	997·4	−3·3	29·0	26·0	25·2	32·1	85	+3	4·4	−0·1	5·3	0	3	22	4	3	4	1	8	2	0	3	5	0
	1730	,,	999·5	994·4	..	28·6	26·1	25·0	31·7	82	..	5·4	..	4·3	0	0	25	3	1	2	1	14	2	2	0	5	0
Contai	0830	11	1002·4	1001·2	−2·3	28·4	26·2	25·3	32·2	83	−1	4·8	−0·6	5·9	0	2	22	6	0	0	3	6	7	1	1	6	0
	1730	,,	999·5	993·3	..	28·2	26·0	25·1	31·9	83	..	4·3	..	6·2	0	0	28	0	0	2	5	11	7	1	2	2	0
Sagar Island	0830	3	1002·1	1001·8	−3·5	28·2	26·4	25·7	33·0	86	+5	6·0	−0·1	17·3	0	8	22	1	1	1	6	8	6	4	3	0	0
	1730	,,	999·2	993·9	..	28·3	26·4	25·6	32·8	86	..	6·3	..	21.2	0	13	17	0	0	1	6	11	7	3	2	0	0
Sandheads	0530	10	1000·2	999·1	..	27·7	26·1	25·5	32.6	87	..	6·0	..	19.0	0	9	19	1	0	0	2	6	10	7	2	2	0
	0830	,,	1002·4	1001·3	−3.5	28·2	26.3	25·5	32·6	85	+6	6·2	+1·2	18·0	0	7	22	3	0	1	1	2	11	9	2	1	0
	1130	,,	1002.0	1000·9	..	28·8	26·5	25·5	32·6	83	..	6·2	..	18·1	0	8	22	1	0	1	2	5	13	5	3	0	0
	1730	,,	999·2	998·1	..	28·3	26·1	25·2	32·1	83	..	5·9	..	20·2	0	9	21	0	0	0	2	7	17	2	2	0	0
	2330	,,	1001.8	1000·7	..	29·1	26·3	25·5	32·6	86	..	4·7	..	19.8	0	11	19	0	0	0	3	8	14	3	2	0	0
Orissa																											
Baripada	0830	54	1003·3	997·2	..	27·9	25·8	24·8	31·3	85	..	6·3	..	2·2	0	0	15	4	3	0	1	0	3	1	2	15	1
	1730	,,	1000·5	994·4	..	27·1	25·5	24·7	31·1	87	..	6·4	..	1·9	0	0	14	0	1	0	9	2	1	1	0	16	0
Jharsuguda	0230	230	1001·0	975·2	..	24·8	24·1	23·7	29·3	95	..	6·6	..	6·6	0	2	19	0	0	1	2	3	13	2	0	9	0
	0530	,,	1001·5	975·7	..	24·2	23·8	23.6	29·1	96	..	7·4	..	6.2	0	0	20	0	0	0	3	3	9	3	2	10	0
	0830	,,	1003·0	977·3	−1·9	25·9	24·5	23.9	29·7	89	+5	7·4	+1·3	7·1	0	0	21	0	0	1	2	5	7	5	1	9	0
	1130	,,	1002·2	976·7	..	27·9	25·3	24.0	29·8	80	..	7·3	..	8 3	0	0	26	0	0	0	2	5	8	10	1	4	0
	1730	,,	999·6	974·1	..	27·1	24·6	23·4	28·8	84	..	7·3	..	7·5	0	0	29	0	0	0	1	3	13	11	1	1	0
	2330	,,	1002·1	976·3	..	25·2	24·4	24·1	30·0	94	..	7·0	...	6·0	0	0	23	0	0	0	4	4	9	6	0	7	0
Keonjhargarh	0830	463	1000·3	919·4	..	25·5	23·1	21·9	26·3	81	..	6 0	..	5·0	0	0	26	2	1	0	1	3	0	11	8	4	0
	1730	,,	997.1	946.4	..	25·8	23·5	22·3	26·9	83	..	7·1	..	3·6	0	0	28	0	0	3	5	6	1	9	4	2	0
Balasore	0830	20	1002 1	999·9	−3·5	27·9	26·1	25·4	22.4	86	+3	7·2	+2·0	7·2	0	3	22	3	3	0	1	6	8	2	2	5	0
	1730	,,	999·5	997·3	..	27·6	25·9	25.2	32.1	87	..	6·9	..	6·6	0	2	25	3	2	0	1	11	9	0	1	3	0
Sambalpur	0830	148	1003·4	986·8	−2.5	26·5	24·6	23.8	29.5	86	+4	6·2	+1·2	2·2	0	0	15	0	0	0	1	2	9	2	1	15	0
	1730	,,	999.8	983·3	..	27·2	25·3	24·2	30.2	83	..	6·4	..	1.5	0	0	8	0	0	0	1	1	3	2	1	22	0

Division and station	Hour of observation I.S.T	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observation, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Angul	0830	139	1003·7	988·2	−1·9	26·9	24·7	23·7	29·3	83	+1	6·8	+1·4	7·2	0	1	26	1	1	0	1	4	0	3	17	3	0
	1730	,,	1000·2	984·9	..	28·1	25·2	23·9	29.7	78	..	7·2	..	5·7	0	0	26	0	0	0	0	5	2	6	13	4	0
Cuttack	0830	27	1003·3	1000·3	−2·7	27·7	26·1	25·4	32·4	87	+7	6·1	+1·1	0·4	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	,,	1000·5	997·5	..	28·8	26·4	25·4	32·4	82	..	6·6	..	0·7	0	1	0	0	0	0	0	0	0	0	1	29	0
Chanbali	0830	6	1003·0	1002·3	−2·4	27·8	26·2	25·5	32·6	88	+5	6·5	+1·1	7·2	0	0	27	0	0	0	3	4	3	10	7	3	0
	1730	,,	1000·2	999·5	..	28·1	26·1	25·2	32·1	84	..	6·9	..	8·4	0	2	27	0	0	0	5	9	5	6	4	1	0
Bolangir	0830	190	1003·2	981·9	..	26·5	24·2	23·2	28·4	81	..	6·8	..	7.3	0	0	30	0	0	0	3	13	11	1	1	0	1
	1730	,,	1000·3	997·0	..	27·7	25·0	23·7	29·3	79	..	7·2	..	7·1	0	0	30	3	1	0	3	11	8	1	3	0	0
Phulbani	0830	464	1001·1	950·1	..	25·0	23·1	22·1	26·6	84	..	6·4	..	1·0	0	0	5	0	0	0	0	0	4	1	0	25	0
	1730	,,	998·3	947·5	..	26·0	23·9	22·9	27·9	82	..	5·7	.	1·1	0	0	6	0	0	0	1	0	1	4	0	24	0
Titlagarh	0830	211	1001·7	978·3	..	26·6	24·9	24·3	30·4	87	..	5·5	..	3·0	0	0	30	0	18	0	4	2	5	0	1	0	0
	1730	,,	1000·3	977·0	..	27·6	24·5	23.2	28·4	78	..	3·3	..	3·0	0	0	30	0	5	0	4	1	20	0	0	0	0
Bhubaneswar	0230	46	1001·5	996·2	..	26·0	25·4	25·1	31·9	95	..	6·3	..	7·4	0	4	16	0	0	1	1	2	8	5	3	10	0
	0530	,,	1001·8	996·6	..	25·7	25·1	24·9	31·5	95	..	6·9	.	7·7	0	4	18	1	0	0	0	2	11	3	5	8	0
	0830	,,	1003·3	998·1	−1·6	27·8	25·8	24·9	31·5	85	0	6·5	+0·2	9·6	0	3	22	1	0	0	0	1	8	12	3		0
	1130	,,	1002·9	997·7	..	29.5	26·2	24·8	31·3	76	..	7·0	..	12.8	0	5	22	0	2	0	0	1	12	11	1	3	0
	1730	,,	1000·4	995·2	..	27·9	25·9	25·0	31.7	85	..	7·2	..	8·1	0	2	24	0	0	0	0	5	12	7	2	4	0
	2330	,,	1002·6	997·4	..	26·5	25·7	25·4	32·4	93	..	5·7	..	7·5	0	3	19	1	0	0	0	4	13	3	1	8	0
Puri	0830	6	1003·6	1002·9	−2·1	28·4	26·4	25·6	32·8	85	+5	6·8	+2.1	14·9	0	7	22	5	1	0	0	5	8	9	1	1	0
	1730	,,	1000·9	1000·2	..	28·5	26·5	25·5	32·6	84	..	7·5	..	19·8	0	11	19	1	0	0	0	0	3	15	11	0	0
Gopalpur	0530	17	1002·3	1000·4	..	26·4	25·2	24·7	31·1	90	..	6·9	..	6·5	0	2	22	2	0	0	0	2	14	2	4	6	0
	0830	,,	1004·0	1002·1	−1·8	28·0	25·8	24·9	31·5	84	+3	6·8	+2.6	11·4	0	3	24	2	0	0	1	7	15	0	2	3	0
	1130	,,	1003·4	1001·5	..	29·8	26·5	25·0	31·7	76	..	6·6	..	17·6	0	11	18	0	1	1	2	13	9	2	1	1	0
	1730	,,	1001·0	999·1	..	28·0	26·0	25·2	32·1	85	..	6·9	..	21.4	0	18	11	1	0	0	1	10	14	2	1	1	0
	2330	,,	1003·1	1001·2	..	27·0	25.6	25·0	31·7	89	..	5·8	..	11·6	0	7	19	3	1	0	0	4	12	4	2	4	0
Koraput	0830	913	1463·3	906·0	−0·9	21·4	20·6	20·2	23·7	93	+4	5·8	−0·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1439.9	903·5	..	21·8	20·7	20·3	23·8	91	..	3·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1003·5	986·9	−2·3	27·9	26·2	25·4	32·4	87	+6	5·7	+1·0	5·4	0	0	26	0	5	5	12	2	0	2	0	4	0
	1730	,,	999·8	983.3	..	28·3	26·5	25·7	33·0	85	..	5·4	..	4·1	0	0	18	0	7	4	6	0	0	1	0	12	0
Daltonganj	0830	221	1002 2	977·7	−3.2	28·4	25·7	24·5	30·7	80	+1	6·3	+2·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	999·1	974·6	..	28·7	26·5	25·6	32·8	83	..	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1002·9	936·0	−2·3	24·7	23·3	22·7	27·6	89	+8	6·3	+0·7	8·8	0	1	24	1	4	3	6	4	2	2	3	5	0
	1730	,,	999·5	932 9	..	25·3	23·8	23·2	28·4	88	..	6·5	..	9·6	0	3	23	0	5	6	6	5	2	0	2	4	0
Dhanbad	0830	257	1002·8	974·2	..	26·7	25·2	24·6	30·9	89	..	5·6	..	5·8	0	0	27	0	7	4	8	4	0	2	2	3	0
	1730	,,	999·6	971·1	..	27·0	25·5	24·7	31·1	88	..	6·9	..	6·2	0	0	21	1	1	10	3	5	0	0	1	9	0
Ranchi	0830	655	1002·6	930·8	−2·8	23·8	22·0	21·2	25·2	84	+3	5·9	+0·8	2·1	0	0	19	4	3	4	3	4	0	0	1	11	0
	1730	,,	1000·5	929·1	..	25·0	22·8	21·8	26 1	81	..	6·3	..	1·6	0	0	15	0	6	2	4	2	1	0	0	15	0
Ranchi (Aerodrome)	0530	652	1001.5	930.0	..	22.8	22.2	21.9	26.3	95	..	7.0	..	6.6	0	0	23	5	4	1	5	3	5	0	0	7	0
	0830	,,	1002·5	931.2	..	24.1	22.7	22.2	26.7	88	..	6.9	..	9.7	0	0	30	7	5	3	4	3	6	0	2	0	0
	1130	,,	1001.5	930.8	..	26.4	23.3	21.9	26.3	77	..	6.9	..	11.1	0	1	28	5	7	2	7	4	2	0	2	1	0
	1730	,,	998.9	928.0	..	25.1	22.8	21.8	26.1	80	..	(i) 7.2	..	(i) 11.2	0	0	22	3	2	4	7	1	5	0	0	0	0
Jamshedpur	0830	129	1002·5	988·2	−2·7	27·7	25·5	24·6	30·9	84	+3	6·2	+0·5	8.0	0	2	24	1	3	10	0	1	2	6	3	4	0
	1730	,,	999·1	984·8	..	28·1	25·8	24·8	31·3	82	..	6·7	..	4·9	0	0	24	3	1	11	3	0	0	6	0	6	0
Jamshedpur (P.E.C.)	0530	142	1001·2	985·2	..	25·4	24·7	24·3	30·4	93	..	6·3	..	6·0	0	1	22	2	10	3	0	2	1	2	3	7	0
	0830	,,	1002·6	986·8	..	27·3	25·2	24·2	30·2	84	..	6·7	..	7·6	0	0	28	4	5	5	1	1	4	8	0	2	0
	1130	,,	1001·7	985·9	..	29·4	25·8	24·1	30·0	74	..	6·5	..	9·5	0	3	25	3	4	4	3	2	6	3	3	2	0
	1730	,,	999·4	983·5	..	27·8	25·4	24·2	30 2	82	..	7·2	..	8·5	0	1	24	1	7	6	1	1	3	4	2	5	0
	2330	,,	1002·0	986·1	..	26·2	25·1	24·6	30·9	91	..	6·3	..	7·4	0	0	24	2	5	9	0	0	4	2	2	6	0
Chaibasa	0830	226	1002·2	977·0	−3·1	27·0	24·9	24·0	29·8		+2	6·9	+1·8	4·9	0	0	26	0	5	0	5	0	13	0	3	4	0
	1730	,,	999·0	974.0	..	27·5	25·3	24·2	30·2	83	..	7·4	..	4·3	0	0	21	0	4	0	6	0	8	1	2	9	0
Bihar Plains																											
Motihari (R)	0830	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Forbesganj	0830	61	1004·3	997·5	..	28·5	26·0	24·9	31·5	82	..	5·1	..	5·7	0	0	29	0	4	22	2	0	0	1	0	1	0
	1730	,,	1000.3	993.6	..	30.1	26.6	25.0	31.7	74	..	4.3	..	3.4	0	0	24	0	1	14	6	0	2	1	0	6	0
Darbhanga (R)	0830	49	1004.1	998.6	−1.7	30.2	26.8	25.4	32.4	77	0	4.0	+0.2	5.5	0	0	30	0	7	14	6	1	0	1	1	0	0
(R)	1730	,,	1000.5	995.1	..	30·0	26·8	25·5	32·6	78	..	4·2	..	3·5	0	0	29	1	6	16	2	0	2	1	1	1	0
Chapra	0830	..	..	..	..	29·4	26·8	25·7	33·0	81	..	4·9	..	4·5	0	0	19	2	6	8	1	0	1	0	1	11	0

(R) Register not received. (i) Mean of 22 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar plains—*Contd.*																											
Chapra *(contd.)*	1730	..	..	..	..	29·8	26·5	25·1	31·9	76	..	5·5	..	3·0	0	0	18	2	6	7	2	1	0	0	0	12	0
Purnea	0830	38	1004·4	1000·1	—1·9	28·5	26·4	25·6	32·8	85	0	5·4	+0·7	2·8	0	0	22	0	2	19	1	0	0	0	0	8	0
	1730	,,	1000·7	996·4	..	29·0	26·8	25·9	33·4	84	..	4·3	..	1·8	0	0	13	0	2	9	1	0	0	1	0	17	0
Patna	0830	53	1003.3	997·4	—2·3	28·8	26·8	26·1	33·8	85	+6	5·6	+0·7	8·5	0	0	29	1	13	8	5	0	0	0	2	1	0
	1730	,,	999·7	993·8	..	30·0	27·2	26·1	33·8	80	..	5·7	..	7·6	0	0	27	0	13	7	2	0	1	3	1	3	0
Patna (Aerodrome)	0530	60	1001.4	994·7	..	26·7	26·0	25·7	33·0	95	..	5·9	..	6·2	0	1	17	0	0	15	3	0	0	0	0	12	0
	0830	,,	1003·0	996·3	..	29·0	26·6	25·6	32·8	82	..	6·3	..	9·3	0	0	30	2	2	15	8	1	0	2	0	0	0
	1130	,,	1002·3	995·7	.	30·6	27·0	25·5	32·6	74	..	6·3	..	13·3	0	4	26	1	2	16	9	0	0	2	0	0	0
	1730	,,	999.2	992·5	.	29·7	26·4	25·0	31·7	76	..	5·9	..	9·8	0	1	26	0	1	15	7	1	0	1	2	3	0
	2330	52	1002·6	996·7	..	27·5	26·4	25·9	33·4	90	..	3·8	..	6·6	0	2	16	0	1	15	1	0	0	0	0	12	1
Bhagalpur	0530	49	1002·5	997·0	..	26·7	25·7	25·3	32·2	92	..	5·3	..	5·2	0	0	23	1	0	13	5	3	0	1	0	7	0
	0830	,,	1004·2	998.7	—1·3	28·9	26·7	25·9	33·4	83	+1	5·9	+0·4	8·1	0	0	27	0	0	14	12	0	0	0	1	3	0
	1130	,,	1003·5	998·1	..	30·3	26·9	25·5	32·6	75	..	5·8	..	9·8	0	1	28	2	0	17	6	2	0	1	1	1	0
	1730	,,	1000.4	994·9	..	29·3	26·6	25·4	32·4	81	..	5·5	..	7·3	0	0	25	0	1	15	5	2	0	0	2	5	0
	2330	,,	1003·2	997·7	..	27·5	26.2	25·6	32·8	89	..	3·4	..	7·2	0	0	23	0	0	11	10	2	0	0	0	7	0
Saharsa	0830	37	1003·7	999·5	—1·5	28·7	26·6	25·7	33·0	84	+1	6·1	+0·4	7·9	0	2	26	0	0	17	7	1	1	1	1	2	0
	1730	,,	1000·0	995·8	..	28·9	26·7	25.8	33·2	83	..	5·9	..	5·7	0	0	20	0	2	11	5	0	1	0	1	10	0
Jamui	0330	82	1002·1	992·7	..	28·5	26·6	25·9	33·4	86	..	5·3	..	4·3	0	0	27	0	2	14	8	0	0	0	3	3	0
	1730	,,	998.4	989·1	..	28·9	26·7	25·8	33·2	83	..	5·7	..	2·9	0	0	24	0	3	16	5	0	0	0	0	6	0
Deoli	0830	107	1002·6	990·7	..	28·6	26·5	25·7	33·0	84	..	5·1	..	3·2	0	0	30	1	4	8	10	2	2	2	1	0	0
	1730	,,	998·4	986·5	..	29·4	26·9	25·9	33·4	82	..	5·3	..	3·0	0	0	30	2	5	12	3	1	2	4	1	0	0
Gaya	0230	116	1001·4	988·4	..	26·6	25·6	25·2	32·1	92	..	4·0	..	6·6	0	1	24	2	3	8	6	2	4	0	0	5	0
	0530	,,	1001·5	988·5	..	26·3	25·4	25·0	31·7	93	..	5·4	..	7·7	0	2	23	1	3	9	4	2	5	0	1	5	0
	0830	,,	1003·1	990·1	—2·1	28·3	26·1	25·1	31·9	83	+8	6·0	+2·3	10·5	0	3	24	1	3	9	6	1	2	3	2	3	0
	1130	,,	1002·5	989·6	..	30·5	26·8	25·2	32·1	74	..	5·8	..	12·9	0	4	25	2	4	12	5	0	0	2	4	1	0
	1730	,,	999.4	986·5	..	29·4	26·5	25·2	32·1	79	..	6·2	..	12·2	0	6	22	2	7	13	3	0	0	0	3	2	0
	2330	,,	1002·2	989·2	..	27·3	26·0	25·4	32·4	89	..	4·6	..	8·0	0	2	24	0	3	11	8	0	2	1	1	4	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1003·6	989·7	—1.5	28·3	25·7	24·8	30·9	80	+2	5·1	+2·3	7·5	0	0	28	2	0	25	0	0	0	1	0	2	0
	1730	,,	1000.2	986·5	..	29·7	26·4	24·5	31·7	76	..	5·4	..	4·4	0	0	23	1	0	14	2	3	0	3	0	7	0
Nautanwa	0830	99	1002·7	991·5	..	27·0	25·6	24·9	31·7	89	..	..	..	4·8	0	0	23	1	5	10	3	1	0	1	2	7	0
	1730	,,	1000·1	989·1	..	31·7	27·5	25·9	33·2	72	..	..	..	6·8	0	0	29	0	5	10	6	2	0	1	5	1	0
Hardoi	0830	142	1003·0	987·1	—2·6	28·8	26.3	25 2	32·4	81	—1	3.6	+0·3	8·0	0	0	28	2	3	13	4	3	1	1	1	2	0
	1730	,,	999·2	983·5	..	30·7	27 0	25.5	32·4	74	..	3·3	..	6·1	0	0	26	5	4	12	3	2	0	0	0	4	0
Gonda	0830	110	1003·4	991·4	..	28·8	26·4	25·2	32·5	82	+1	4·8	+0·6	..	..	..	..	3	2	22	1	0	1	0	1	0	0
	1730	,,	999·7	987·6	..	29·7	26·5	25.3	32·4	82	..	3·8	..	..	..	..	..	2	4	13	1	3	2	1	2	2	0
Lucknow	0830	111	1003·2	990.9	—1.7	28·4	26·4	25·6	32·8	82	+3	3·8	+0·2	2·5	0	0	23	0	9	12	2	0	0	0	0	7	0
	1730	,,	999·6	987.3	..	30·4	26·9	25·5	32·4	76	..	4·1	..	1·7	0	0	15	0	1	13	1	0	0	0	0	15	0
Lucknow (Amausi)	0230	128	1001·1	986·8	..	26·3	25·6	25·3	32·2	94	..	4·1	..	5 0	0	1	15	0	9	4	0	1	1	1	0	14	0
	0530	,,	1001·2	986·8	..	26·1	25·5	25·2	31·9	96	..	5·1	..	5·8	0	1	15	0	9	5	1	0	0	1	0	14	0
	0830	,,	1002.8	988.5	—2·3	28·2	26·2	25·2	32·4	82	+7	5·3	+1·7	11·8	0	4	20	2	3	13	3	0	1	1	1	6	0
	1130	,,	1002.5	988·4	..	31·1	26·8	25·0	31·7	70	..	6·0	..	13·3	0	3	25	0	7	11	5	2	0	0	3	2	0
	1730	,,	999.1	985·0	..	30·1	26·6	25·1	31·9	76	..	5·1	..	9·7	0	0	26	2	5	11	3	2	0	2	1	4	0
	2330	,,	1002.0	987·7	..	26·9	26·0	25·7	33·2	92	..	4·0	..	7·0	0	1	18	2	6	5	3	2	0	1	0	11	0
Faizabad	0830	102	1003.0	991·7	..	28·4	26·2	25·5	32·2	84	..	5·6	..	4·9	0	0	27	0	4	7	13	1	0	1	1	3	0
	1730	,,	999.3	988·1	..	29·9	26.7	25·1	32·2	77	..	6·0	..	2·8	0	0	19	0	3	5	11	0	0	0	0	11	0
Gorakhpur	0830	77	1002·4	993·8	—3·0	29·3	26·4	25·1	31·9	77	—4	4·9	+1·5	..	0	0	30	0	3	20	2	0	2	1	0	0	2
	1730	,,	999.2	990·5	..	30·6	26·5	25·1	31·1	70	..	5·0	..	..	0	0	30	2	2	11	5	2	4	0	3	0	1
Gorakhpur (P.B.O.)	0230	78	1001·7	992·9	..	27·3	26·0	25·5	32·6	90	..	3·5	..	4·3	0	0	24	0	10	10	3	0	0	0	1	6	0
	0530	,,	1001·9	993·1	..	26·9	25.7	25·3	32·0	91	..	5·2	..	4·0	0	0	23	2	8	13	0	0	0	0	0	7	0
	1130	,,	1003·1	994·4	..	31·0	27·2	26·0	33·0	75	..	6·1	..	9·7	0	1	29	0	8	15	4	0	1	0	2	0	0
	2330	,,	1002·5	993·8	..	27·5	26·3	25·8	33.2	89	..	2·9	..	3·9	0	0	22	1	13	8	0	0	0	0	0	8	0

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Kanpur	0830	126	1003.6	989·5	−1.5	27·9	26·1	25·4	32·2	86	+4	5·1	+2·5	5·8	0	0	30	1	3	14	6	2	0	3	1	0	0
	1730	,,	999·9	985·9	..	29·9	26·7	25·4	32·4	77	..	4·7	..	6·0	0	0	30		3	15	2	3	0	1	1	0	0
Kanpur (Aerodrome)	0530	120	1001·3	987·0	..	26·1	25·4	25·2	32·1	94	..	4·4	..	9.1	0	1	22	0	7	8	4	1	0	3	0	7	0
	0830	,,	1002·9	988·6	..	28·5	26·2	25·2	32·2	83	..	5·1	..	14.7	0	3	24	2	4	11	5	1	1	2	1	3	0
	1130	,,	1002·7	988·5	..	31·3	26·6	24·6	30·9	68	..	5·2	.	16.6	0	7	22	1	4	11	6	3	0	2	2	1	0
	1730	97	999·3	985·1	..	30·4	26·4	24·7	31·1	72	..	4·7	..	13.4	0	6	21	2	3	11	5	1	0	2	3	3	0
	2330	,,	1002·0	987·6	..	27·2	25·9	25·3	32·2	87	..	3·4	..	9·1	0	0	21	1	2	15	2	0	0	1	0	9	0
Sultanpur	0830	97	1003·2	992·3	..	28·6	26·4	25·4	32·6	83	..	5·3	..	3·2	0	0	19	0	4	13	0	1	1	0	0	11	0
	1730	,,	999·1	988·4	.	29·9	26·5	25·3	32·2	77	..	4·6	..	3·6	0	0	16	1	3	10	0	1	1	0	0	14	0
Azamgarh	0830	78	1002·9	994·1	..	28·2	26·5	26·0	33·6	88	..	5·8	..	..	0	0	26	0	1	22	0	0	0	3	0	4	0
	1730	,,	999·5	990·7	..	29·0	27·0	26·0	34·0	83	..	4·9	..	..	0	0	24	1	0	18	1	1	0	3	0	6	0
Fatehpur	0830	114	1002·6	989·8	..	28·1	26·1	25·3	32·2	85	−4	4·8	+1·1	4·6	0	0	21	2	6	6	2	1	0	4	0	9	0
	1730	,,	999 0	986·3	..	30·2	27·0	25·7	33·0	77	..	4·4	..	3·8	0	0	19	1	7	4	3	2	0	1	1	11	0
Ballia	0830	64	1002·9	995·8	..	29·1	27·0	26·3	33·8	85	..	4·3	..	2·9	0	0	20	0	3	11	4	0	0	2	0	10	0
	1730	,,	999·9	992·8	..	30·3	27·9	27·0	35·4	82	..	5·0	..	2·9	0	0	24	0	9	12	0	0	1	1	1	6	0
Banda	0830	121	1001·2	987·6	..	27.4	26·1	25·3	33·0	85	..	3·7	..	4·3	0	0	30	0	9	1	4	1	11	0	4	0	0
	1730	,,	996·4	982·8	..	30·1	27·2	25·6	33·6	78	..	4·2	..	3·9	0	0	29	0	7	1	6	0	9	1	5	1	0
Allahabad (Bamhrauli)	0230	98	1001·0	990·0	..	26·8	25·7	25·1	31·9	91	..	5·2	..	3·9	0	0	18	1	4	7	0	2	1	3	0	12	0
	0530	,,	1001·2	990·2	..	26·3	25·3	24·8	31·5	92	..	6·1	..	4·5	0	0	19	1	4	7	1	2	0	3	1	11	0
	0830	,,	1002.8	991·8	−2·5	28·4	25·9	24·8	31·2	81	+2	5·9	+1·4	7·6	0	0	27	0	6	9	4	2	2	3	1	3	0
	1130	,,	1002·5	991·6	..	30·8	26·5	24·7	31·1	71	..	6·2	..	8·4	0	1	28	3	7	9	2	2	3	1	2	1	0
	1730	,,	999·1	988·2	..	30·4	26·5	24·7	31·1	73	..	5·6	..	5·9	0	0	25	4	5	11	1	1	0	1	2	5	0
	2330	,,	1001·7	990·8	..	27·4	25·9	25·2	32·2	88	..	5·1	..	3·7	0	0	15	1	6	6	1	0	1	0	0	15	0
Varanasi (Babatpur)	0530	85	1002·4	992·7	..	26·3	25·5	25·2	3·21	93	..	5 0	..	8·0	0	2	24	2	3	9	3	2	5	0	2	4	0
	0830	,,	1003·8	994·1	−1·4	28·0	26·1	25·3	32·2	85	+2	5·5	+0·6	11·5	0	1	27	1	3	8	7	1	4	2	2	2	0
	1130	,,	1003·4	993·8	..	30·2	26·6	25·0	31·9	75	..	6·0	..	12·8	0	5	24	1	4	7	6	1	6	1	2	1	1
	1730	,,	1000·2	990·6	..	29·9	26·7	25·4	32·6	77	..	5·3	..	11·1	0	3	27	5	4	9	6	3	1	0	2	0	0
	2330	,,	1002.8	993·2	..	27·3	26·1	25·7	33·0	91	..	3·6	..	7·7	0	1	24	0	6	8	5	3	1	0	1	5	1
Varanasi	0830	76	1002·5	993·9	−2·8	28·5	26·7	25·7	33·6	86	+6	5·1	+0·9	4.7	0	0	29	4	4	6	3	2	1	8	1	1	0
	1730	,,	999·2	990·7	..	30·1	27·2	25·9	33·6	79	..	5·2	..	2.8	0	0	27	0	11	2	5	1	1	5	2	3	0
Uttar Pradesh (West)																											
Dehra Dun	0530	682	1002·9	927·9	..	23·0	22·2	22·0	26·1	93	..	6.1	..	2.3	0	0	18	11	3	3	0	1	0	0	0	12	0
	0830	,,	1003·3	929·1	−1·4	25·1	23·1	22·3	26·9	85	+5	5·0	+1·2	2.3	0	0	22	4	0	1	5	4	4	3	1	8	0
	1130	,,	1003·1	929·4	..	27·7	24·2	22·6	27·6	72	..	5·4	..	4·1	0	0	30	0	2	1	3	9	6	4	5	0	0
	1730	,,	999·9	926·2	..	27·2	24·4	23·2	28·4	80	..	4·9	..	2·1	0	0	18	2	2	1	2	2	0	7	2	12	0
	2330	,,	1002·9	928·4	..	24·3	23·2	22·7	27·6	91	..	3·8	..	2·2	0	0	18	8	7	1	1	0	0	1	0	12	0
Roorkee	0830	274	1003·5	973·1	−1·6	27·7	25·3	24·2	30·2	82	+3	4·3	+1·4	1·2	0	0	12	0	0	0	8	0	0	0	4	18	0
	1730	,,	999·9	970·0	..	31·7	26·7	24·8	30·9	66	..	3·7	..	1·5	0	0	16	0	0	0	8	0	0	0	8	14	0
Najibabad	0830	270	1003·6	973·6	..	27·5	25·1	24·2	29·8	81	..	4·0	..	3·4	0	0	27	1	7	1	10	0	0	0	8	3	0
	1730	,,	999·9	970·4	..	31·7	26·5	24·3	30·4	66	..	3·6	..	3·4	0	0	26	0	5	0	8	0	0	0	13	4	0
Meerut	0830	222	1003·6	979·3	−1·1	27·6	26·7	25·2	32·2	88	+12	(b) 0·1	−2·3	3·6	0	0	23	1	2	9	3	2	0	6	0	7	0
Bareilly	0830	173	1002·9	983·7	−2·2	29·0	26·1	24·8	31 5	79	−1	4·7	+1·4	4·9	0	0	27	0	1	14	8	0	1	3	0	3	0
	1730	,,	999·2	980·1	..	30·4	26·5	24·8	31·5	73	..	4·6	..	1.3	0	0	11	0	1	9	1	0	0	0	0	19	0
Bereilly (P.B.O.)	0230	172	1001·4	982·2	..	27·1	25·5	24 9	31·3	88	..	3·1	..	5·1	0	0	23	0	0	16	5	1	0	1	0	7	0
	0530	,,	1001·7	982·5	..	26·7	25·3	24·7	31·1	89	..	4·9	..	5·3	0	0	22	0	5	11	4	0	0	1	1	8	0
	1130	,,	1002·9	983·8	..	30·5	26·5	25·2	31·3	73	..	5·5	..	7.6	0	0	29	0	1	9	11	2	2	1	3	1	0
	2330	,,	1002·1	982·9	..	27·8	26·0	25·2	32·0	87	..	2·2	..	5.1	0	0	23	0	3	9	7	1	1	1	1	7	0
Aligarh	0830	187	1003·0	982·1	..	28·1	26·1	25·1	32·2	85	+14	4·5	+1·9	4·5	0	1	23	2	1	13	1	1	0	6	0	6	0
	1730	,,	999·4	978·7	..	31·5	27·2	25·3	32·8	71	..	5·0	..	3.2	0	1	18	2	0	12	0	1	0	4	0	11	0
Mainpuri	0830	157	1003·0	985·4	−2·1	28·6	26·2	25·3	32.5	82	+6	2·3	−1·1	..	..	..	..	0	0	5	13	4	1	5	1	1	0
	1730	,,	999·3	982.3	..	30·7	27·1	25·5	32·6	76	..	2·6	..	..	..	..	..	0	2	2	9	6	6	1	3	1	0
Agra	0830	169	1003·4	984·3	−2·0	28·3	25·5	24·4	30·4	79	+4	2·2	−0·9	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
	1730	,,	999·1	980·5	..	30·8	26·1	24·1	30·0	68	..	4·4	..	3·3	0	0	14	1	1	3	3	3	1	0	2	16	0

(b) Mean of 29 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (k.m.p.h.): 62 or more	Wind speed (k.m.p.h.): 20 to 61	Wind speed (k.m.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(Contd.)																											
Agra (Aerodrome)	0530	169	1001·3	982·4	..	25·6	24·9	24·7	30.7	95	..	4·8	..	7·4	0	2	20	0	3	10	2	1	4	1	1	8	0
	0830	,,	1002·9	983·8	..	27·9	26.0	25·1	32·0	85	..	5·1	..	11·9	0	2	26	2	1	10	6	3	0	4	2	2	0
	1130	,,	1002·7	984·1	..	30·9	26·8	24·9	31·9	72	..	5·7	..	15·1	0	5	25	3	7	5	6	3	1	2	3	0	0
	1730	,,	999·5	980·6	..	30·5	26.5	24·7	31·3	71	..	5·1	..	9·8	0	3	25	3	3	9	6	1	1	2	3	2	0
	2330	,,	1001·9	982·8	..	27·1	25.8	25·1	32·1	89	..	3·0	..	6·4	0	2	16	0	1	7	2	4	1	2	1	12	0
Orai	0830	141	1003·4	987·6	..	28·0	26.2	25·2	32·4	86	.	5·3	..	3·6	0	0	29	0	5	1	2	1	3	1	16	1	0
	1730	,,	999·3	983·8	..	30·5	26.9	25·4	32·2	75	..	4·1	..	3.5	0	0	30	0	12	1	4	2	7	1	3	0	0
Jhansi	0830	251	1001·6	973·8	−3·9	26·7	25.0	24·4	30·2	87	+13	5·2	+2.3	1.1	0	0	12	4	0	1	0	0	0	7	0	18	0
	1730	,,	999·5	971·6	..	29·3	25.9	24·4	30·5	76	..	5·6	..	2.2	0	0	21	9	0	1	1	2	0	6	2	9	0
Punjab (India) Including Delhi																											
Pathankot	0830	312	1003·2	968.6	−1·5	26·7	24.4	23·4	28·8	83	+9	5·1	+1·6	4.0	0	0	28	0	8	9	9	1	0	0	1	2	0
	1130	,,	1003·7	969·2	..	28·8	25.4	23·9	29·7	76	..	5·2	..	5 2	0	0	27	3	2	1	6	4	9	1	1	3	0
	1730	,,	999·9	965·8	..	30·2	25·8	23·8	29·5	70	..	3·7	..	4·5	0	0	26	2	4	0	2	1	10	6	1	4	0
Amritsar (Rajasansi)	0530	234	1001·5	975·3	−3·0	25·9	25·1	24·7	30·9	93	..	2·6	..	3.6	0	0	16	0	0	7	7	1	1	0	0	14	0
	0830	,,	1002·9	976·8	..	28·1	25·8	24·8	31·5	83	+16	3·1	+0·6	8·1	0	1	27	1	3	9	8	3	3	1	0	2	0
	1130	,,	1003·2	977.4	..	31·1	26·5	24·6	30·7	70	..	3·4	..	9·1	0	3	22	0	1	9	7	5	2	1	0	5	0
	1730	,,	999·8	974 2	..	32·1	26·9	24·8	31·1	67	..	2·1	..	6·1	0	1	22	2	2	6	3	4	1	1	4	7	0
Adampur (Aerodrome) (R)	0530	238																									
(R)	0830	,,																									
(R)	1130	,,																									
(R)	1730	,,																									
(R)	2330	,,																									
Ludhiana	0830	247	1003·2	975·8	−1·7	27.6	25·4	24·4	30 5	80	+8	2·8	+1·0	4·2	0	0	23	1	1	3	12	1	2	2	1	7	0
	1730	,,	999.2	972·2	..	32·5	26·7	24·3	30·2	60	..	3·5	..	3·3	0	0	25	2	11	1	3	1	0	3	4	5	0
Ferozepur	0830	200	1002·6	980·3	..	28·4	25·8	24·5	31·1	77	..	1·3	..	1·1	0	0	11	0	4	0	2	1	2	2	0	19	0
	1730	,,	999·5	977·3	..	33·1	27·0	24.3	30·7	59	..	1·1	..	1·1	0	0	11	3	4	0	0	0	0	0	4	19	0
Halwara (Aerodrome)	0830	242	1003.6	976·7	..	28·2	25·3	24·0	30·2	79	..	3·4	..	11 4	0	4	26	1	1	3	15	5	2	3	0	0	0
	1730	,,	1001·1	974.6	..	32.4	25·4	22·0	26·8	57	..	3·5	..	11·2	0	1	28	5	3	4	5	1	0	3	8	1	0
Chandigarh	0830	347	1003·1	964·8	−0·9	28·0	25·2	23·8	29·7	80	+7	3·1	+0·4	(n) 6 9	0	1	17	0	1	0	9	0	1	0	7	12	0
	1730	,,	999·4	961·5	..	30·7	25.5	23·1	28·6	65	.	3·1	..	(n) 3·8	0	0	21	0	4	0	2	0	6	0	9	9	0
Ambala	0830	272	1002.6	972·5	−2·2	27·4	25·8	25·1	31·9	83	+9	0·9	−1·6	1.8	0	0	17	0	5	0	8	0	0	0	4	13	0
	1730	,,	998.9	969·7	..	31.5	27·9	26.3	34·4	75	..	1·0	..	1.1	0	0	11	0	4	0	7	0	0	0	0	19	0
Ambala (P.B.O.)	0230	278	1001·7	970·3	..	27·1	25·4	24·7	31·1	87	..	2·6	..	5·5	0	0	23	0	2	6	11	0	0	1	3	7	0
	0530	,,	1001·3	970·4	..	26·1	24·7	24·2	30·0	39	..	3·9	..	6·0	0	0	24	1	2	6	12	0	0	2	1	6	0
	1130	,,	1002.9	972·3	..	30·4	26·1	24·5	30·4	70	..	4·1	..	7·3	0	0	28	2	0	3	16	1	2	1	3	2	0
	2330	,,	1001·4	970·6	..	28·3	25·9	25·1	31·9	83	..	1·8	..	4·8	0	0	22	2	2	2	8	2	1	0	5	8	0
Ambala (Aerodrome)	0530	274	1001·6	970·8	..	24·9	24·3	24·0	29·8	95	..	3·9	..	8·5	0	0	25	0	2	14	5	0	0	1	3	5	0
	0830	,,	1002·9	972·4	..	27·2	25·1	24·2	30·0	84	..	4.4	..	10·4	0	3	23	0	3	13	6	0	0	2	2	4	0
	1130	,,	1002·8	972·6	..	30·6	26·4	24·5	30·9	70	..	4.6	..	12.5	0	7	18	0	1	9	8	0	0	4	3	5	0
	1730	,,	999·0	969·0	..	31·5	26·5	24·5	30·4	67	..	3·3	..	9.3	0	2	24	2	0	6	1	1	0	8	8	4	0
	2330	,,	1001·5	970·7	..	26·6	25.3	24·8	31·1	90	..	1·9	..	4.0	0	0	15	0	0	9	2	0	0	1	3	15	0
Patiala	0830	251	1002.7	974·9	..	27·8	25.4	24·1	30·4	80	..	3.4	..	4.9	0	0	23	0	0	0	20	0	0	0	3	7	0
	1730	,,	999·8	972·4	..	32·3	26·4	23·8	29·7	62	..	2·7	..	3·4	0	0	15	0	0	0	6	0	0	0	9	15	0
Bhatinda	0830	211	1002·2	978·9	..	30·2	27·2	26·0	33·6	79	..	1·6	..	5·0	0	0	26	0	1	1	14	2	4	2	2	4	0
	1730	,,	998.9	975.9	..	32·9	27·5	25·1	32·2	64	..	2·1	..	2·9	0	0	23	3	4	3	4	1	1	2	5	7	0
Karnal	0830	249	1003·5	973·5	..	28·6	25·5	24·1	30·0	75	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	997·1	970.2	..	31·6	26·5	24·7	30·4	67	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..
Hisar	0530	221	1001.7	976.9	..	25·8	24·8	24·3	30·5	92	..	2.0	..	4·7	0	0	27	0	2	7	5	6	3	4	0	3	0
	0830	,,	1002·9	978.3	−2·0	28·5	25.9	25·0	31.7	82	+17	2·3	+0·7	5·3	0	0	28	1	0	4	8	6	4	5	0	2	0
	1130	,,	1002·8	978·5	..	33.0	27·5	25·3	32.2	65	..	2·8	..	6·2	0	0	30	0	0	6	7	5	4	3	5	0	0
	1730	,,	999·1	975.0	..	33.0	27·2	24·8	31.3	63	..	2·6	..	4·4	0	0	27	2	3	5	7	3	3	2	2	3	0
	2330	,,	1001.7	977.1	..	28.0	25.6	24·6	30·9	82	..	0·5	..	4·6	0	0	26	0	1	2	6	10	5	1	1	4	0
New Delhi (Safdarjung)	0230	216	1001·3	977.1	..	26.9	25·2	24·4	30·5	87	..	1·8	..	4.6	0	0	18	0	1	6	3	0	0	6	2	12	0
	0530	,,	1001·6	977·3	..	26.3	24·9	24·3	30.4	89	..	3.1	..	6·8	0	0	19	1	1	6	2	1	1	5	2	11	0
	0830	,,	1003.1	979·0	−2·0	28.4	25·6	24·3	30·4	79	+5	3.8	+0·5	9.0	0	3	21	1	1	6	9	0	0	4	3	6	0
	1130	,,	1002·9	979·0	..	31.4	26·4	24.2	30.2	67	..	4·9	..	11.9	0	5	20	2	0	7	8	0	1	1	6	5	0
	1730	,,	999·1	975·4	..	31.9	26·3	23.8	29.5	63	..	3·7	..	7·9	0	1	23	2	3	4	5	3	0	0	7	6	0
	2330	,,	1001·8	977·7	..	28.0	25·8	24.8	31.3	83	..	1·2	..	3·5	0	0	15	0	1	4	5	1	2	2	0	15	0

(R) Register not received.

(n) Mean of 17 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from norma	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi) —(Contd.)																											
Palam (Aerodrome)	0230	233	1001·7	975·3	..	26·0	24·9	24·5	30.7	91	..	1·9	..	6·9	0	0	28	0	0	13	3	4	4	3	1	2	0
	0530	„	1001·6	975·4	..	25·4	24·5	24·3	30·0	93	..	3·2	..	7·9	0	1	27	0	0	12	3	4	5	4	0	2	0
	0830	„	1002·3	977·2	..	28·1	25·8	24·8	31·5	2	..	3·7	..	11·4	0	3	27	1	1	10	7	3	2	5	1	0	0
	1130	„	1002·9	977·2	..	31·2	26·9	25·1	32.1	71	..	4·9	..	14·4	0	6	24	1	2	11	5	2	0	4	5	0	0
	1430	„	1000·3	974·9	..	32·3	27·1	24·9	31·5	66	..	4·8	..	15·3	0	8	22	1	5	11	2	1	1	3	6	0	0
	1730	„	999·2	973·6	..	31·4	26·5	24·4	30·7	68	..	3·6	..	12·1	0	3	27	5	3	10	2	2	0	2	6	0	0
	2030	„	1001·3	975·1	..	27·7	25·8	24·3	31·5	83	..	2·2	..	7.2	0	0	29	2	1	12	6	2	3	1	2	1	0
	2330	„	1001·8	976·0	..	26·7	25·3	24·8	31·1	89	..	1·5	..	6·8	0	0	27	0	1	7	7	9	1	2	0	3	0
Himachal Pradesh																											
Mandi	0830	761	1003·4	920·5	−1·3	23·5	22·3	21·6	26·3	89	+3	5.5	+1·4	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	„	999·1	917·7	..	27·9	23·7	22·1	26·4	70	..	6·3	..	1·1	0	0	9	0	0	0	0	0	2	3	4	21	0
Bilaspur	0830	493	1004·1	949·9	..	25·6	23·6	23·2	28·3	87	..	4·7	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	„	1000·2	946·8	..	28·7	24·9	23·3	28·4	73	..	4·5	..	..	0	0	2	0	1	0	0	0	0	1	0	28	0
Jammu and Kashmir																											
Misgar (R)	0830	3106																									
(R)	1730	„																									
Gilgit (R)	0830	1491																									
(R)	1730	„																									
Skardu (R)	0830	2288																									
(R)	1730	„																									
Leh	0530	3514	3083·6	664·9	..	8·4	2·3	−6·3	3·6	35	..	1·8	..	8·6	0	0	27	15	12	0	0	0	0	0	0	3	0
	0830	„	3090·4	666·2	−1·0	14.7	6·0	−5·1	4·3	28	−22	1·7	−1·2	3·1	0	0	13	0	0	0	0	6	7	0	0	17	0
	1730	„	3024·0	662·1	..	22·6	11·6	2·7	7·5	27	..	2·3	..	10·1	0	0	29	0	1	0	1	6	9	11	1	1	0
Srinagar	0830	1587	1461·9	837·8	−2·1	18·8	16·7	15.5	17·7	81	−4	2·2	−0·1	1·6	0	0	15	0	1	2	10	0	0	2	0	15	0
	1130	„	1453·7	837·4	..	25·9	19·3	15·9	18 3	54	..	2·4	..	1·8	0	0	16	2	4	2	1	0	0	2	4	14	1
	1730	„	1421·0	834·3	..	26·0	18·7	14·8	17·0	51	..	2·8	..	2·2	0	0	16	2	1	1	2	0	2	5	3	14	0
Srinagar (Aeordrome)	0530	1666	1444·2	828.8	..	16·6	14·5	13·0	14·8	80	..	3·0	..	2·3	0	0	10	0	0	3	3	0	0	3	1	20	0
	0830	„	1452.8	829·9	..	20·1	16·4	14·2	16·1	70	..	2·7	..	4·2	0	0	21	1	2	3	3	3	1	1	7	9	0
	1130	„	1449·0	829·8	..	24·7	18·0	14·3	15·9	53	..	2·8	..	5·9	0	1	24	4	7	7	1	2	0	1	3	5	0
	1730	„	1413·9	826·7	..	26·6	17·4	11·7	13·3	41	..	3·6	..	7·0	0	0	25	7	4	0	1	5	2	4	2	5	0
	2330	„	1438·9	828·5	..	18·9	15·4	13 2	14·8	70	..	2·2	..	3·1	0	0	10	1	0	1	0	1	2	3	2	20	0
Gulmarg	0830	2655	3104·2	738·5	−1·4	14·1	11·7	9·7	12·3	76	−4	2·8	+0·6	0·9	0	0	7	0	2	3	0	0	1	1	0	23	0
	1730	„	3092·6	737·0	..	17·8	13·9	11·2	13·6	67		3·7	..	4·9	0	0	25	1	9	4	4	2	3	0	2	5	0
Jammu (R)	0830	..																									
Jammu (Aerodrome)	0530	292	1001·6	963·8	..	25·4	24·1	23·3	28·9	88	..	4 2	..	3·9	0	0	12	0	8	2	1	0	0	0	1	18	0
	0830	„	1002.9	970·3	..	27·0	24·7	23·7	29·1	82	..	4·4	..	4.9	0	0	20	2	10	2	5	0	0	0	1	10	0
	1130	„	1003·3	971·0	..	29·8	25·7	23·8	29·7	71	..	4·5	..	7·5	0	0	27	0	4	1	9	6	1	1	5	3	0
	1730	„	999·7	967·5	..	30·5	25·9	23·8	29·3	28	..	4·0	..	5·6	0	0	23	1	3	1	1	2	7	6	2	7	0
	2330	„	1001·6	968·9	..	27·0	24·4	23·3	28.4	80	..	2·2	..	4·0	0	0	16	2	8	2	3	0	0	1	0	14	0
Rajasthan (West)																											
Ganganagar	0530	177	1001·1	981·3	..	26·6	24·3	23·1	28.4	82	..	1·8	..	5·0	0	0	23	1	8	2	2	1	3	2	4	7	0
	0830	„	1002·3	982·3	−2·5	28·4	24·9	23·3	28·6	74	+14	1·0	+0·3	5·1	0	0	28	0	1	5	4	3	13	2	0	2	0
	1130	„	1002·4	983·0	..	33·8	26·1	22.5	27·6	53	..	2·8	..	8·5	0	1	28	1	5	5	5	1	5	3	4	1	0
	1730	„	998.6	979·4	..	34·9	25·9	21·8	26·0	49	..	2·3	..	4·8	0	0	27	2	3	6	3	0	4	7	2	3	0
	2330	„	1001·1	981·4	..	28·9	25·0	23·1	28·6	71	..	1·0	..	3·9	0	0	20	1	4	5	0	2	4	0	4	10	0
Churu	0830	291	1002·9	970·6	..	27·5	25·1	24·1	29·7	82	..	3·1	..	11·8	0	2	27	1	2	3	1	2	4	14	2	1	0
	1730	„	999·0	967·3	..	32·9	26·2	23·5	28·4	60	..	3·7	..	8·4	0	1	28	6	4	5	3	1	2	5	3	1	0
Bikaner	0830	224	1002·7	977·7	−2·5	27.6	24·9	23·6	29·1	77	+9	1·0	−0·5	7·2	0	0	30	3	4	0	3	0	4	10	6	0	0
	1730	„	998.7	974·3	..	33·7	25·7	21·6	26·4	51	..	1.7	..	6·6	0	0	30	3	3	1	3	2	10	5	3	0	0
Bikaner (P.B.O.)	0530	224	1001·2	976·1	..	26·3	24·6	23·8	29·7	87	..	2·3	.	3·1	0	0	21	2	2	0	0	3	6	7	1	9	0
	1130	„	1002·5	977·9	..	32·7	26·5	23·7	29·5	60	..	2·8	..	5·5	0	0	29	0	3	2	2	3	4	10	5	1	0
	2330	„	1001·2	976·3	..	28·9	25·1	23·3	28·8	73	..	2·2	..	3·8	0	0	23	1	2	0	2	5	8	4	1	7	0
Nagaur	0830	298	1001·8	968·8	..	28·5	25·1	23·6	29·1	75	..	3·8	..	7·2	0	0	30	4	1	3	1	3	7	9	2	0	0
	1730	„	998·1	965·8	..	33·1	25·8	22·5	27·5	57	..	4·2	..	7·5	0	0	30	3	2	2	3	6	5	7	2	0	0
Phalodi	0830	234	1003·1	976·9	..	27·0	25·1	24·1	29·8	84	..	3·4	..	13·8	0	4	25	2	4	1	1	0	10	10	1	1	0
	1730	„	1000·7	974·7	..	30·9	25·8	23·9	28·9	68	..	4·0	..	12·6	0	5	23	0	4	0	2	3	12	4	3	2	0
Jaisalmer	0830	242	1002·1	975·1	..	26·4	24·6	23·8	29·5	85	..	4·2	..	15·7	0	5	25	3	2	0	0	12	13	0	0	0	0
	1730	„	998·9	972·6	..	32·2	25·7	22·8	27·7	58	..	3·6	..	15·1	0	8	21	2	2	0	1	12	11	1	0	1	0
Jodhpur	0230	224	1001·6	976·5	..	26·0	74·3	23·5	28·9	87	..	4·1	..	7.6	0	2	22	1	1	1	1	1	10	9	0	6	0
	0530	„	1001 7	976·6	..	25·2	24·1	23.7	28·9	91	..	4·5	..	6·8	0	0	25	0	1	0	2	1	11	9	1	5	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —(*Contd.*)																											
Jodhpur—(*Contd.*)	0830	224	1003·2	978·1	−1·6	26·3	24·9	23·8	30·4	86	+13	5·4	+2·2	8·4	0	1	27	1	2	0	1	2	13	8	1	2	0
	1130	,,	1003·5	978·6	..	29·3	25·2	23·3	28·6	71	..	5·9	..	9·4	0	2	27	0	2	1	1	1	14	8	2	1	0
	1730	,,	999·8	975·1	..	30·9	25·5	23·0	28·1	65	..	5·3	..	9·4	0	1	28	0	2	1	1	3	11	9	2	1	0
	2330	,,	1002·3	977·3	..	27·2	24·7	23·5	28·9	81	..	3·8	..	7·8	0	0	30	2	0	0	1	4	11	12	0	0	0
Barmer	0530	194	1001·2	979·4	..	25·7	24·4	23·8	29·5	89	..	3·9	..	5·0	0	0	23	1	0	0	2	2	5	10	3	7	0
	0830	,,	1002·7	981·0	−2·6	26·6	24·8	24·0	29·8	86	+15	5·3	+2·7	5·3	0	0	24	1	0	0	1	7	5	7	3	6	0
	1130	,,	1002·8	981·3	..	30·2	25·6	23·5	29·1	68	..	6·0	..	5·1	0	0	28	2	1	0	2	4	11	6	2	2	0
	1730	,,	999·4	978·0	..	31·6	25·8	23·2	29·4	63	..	5·5	..	5·3	0	0	27	1	1	0	1	8	11	3	2	3	0
	2330	,,	1001·7	980·0	..	27·6	25·2	23·9	30·1	81	..	3·4	..	4·1	0	0	27	1	0	0	1	5	14	4	2	3	0
Munabao (R)	830	80																									
(R)	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1003·2	969·9	..	27·8	25·8	24·8	31·5	82	..	1·9	..	9·4	0	0	28	2	2	8	8	3	0	4	1	2	0
	1730	,,	999·7	967·0	..	31·5	27·0	25·1	31·8	70	..	1·6	..	9·7	0	0	29	1	4	8	4	1	2	6	3	1	0
Sikar	0830	433	1003·3	955·7	..	26·5	25·2	24·4	30·7	88	..	5·5	..	2·9	0	0	29	1	0	4	2	4	8	7	3	1	0
	1730	,,	998·8	952·0	..	31·9	26·9	24·3	31·1	71	..	4·2	..	2·4	0	0	24	2	4	1	8	1	5	3	0	6	0
Alwar	0830	271	1001·7	971·6	..	26·8	25·0	24·1	30·2	83	..	4·6	..	2·3	0	0	16	1	7	2	2	0	2	1	1	14	0
	1730	,,	999·1	969·3	..	30·5	25·7	24·1	29·5	69	..	5·0	..	2·4	0	0	17	1	7	4	1	2	1	1	0	13	0
Jaipur (Sanganer)	0230	390	1001·1	957·7	..	24·8	24·2	23·6	29·7	93	..	4·3	..	5·2	0	1	20	7	1	4	2	1	0	1	5	9	0
	0530	,,	1001·2	957·8	..	24·3	23·7	23·3	28·3	94	..	4·9	..	4·9	0	1	20	6	4	2	2	0	0	0	7	9	0
	0830	,,	1002·4	959·2	−3·8	26·4	24·6	23·8	29·5	86	+14	5·1	+2·3	8·0	0	2	21	4	1	4	1	0	1	1	11	7	0
	1130	,,	1002·1	959·4	..	29·3	25·6	24·0	29·7	73	..	5·3	..	9·6	0	2	26	3	2	6	2	1	2	3	9	2	0
	1730	,,	999·0	956·3	..	28·9	25·2	23·5	28·9	75	..	5·4	..	8·5	0	2	27	3	3	7	4	2	1	5	4	1	0
	2330	,,	1001·7	958·4	..	25·6	24·5	24·0	29·8	91	..	4·0	..	3·7	0	0	20	3	1	4	2	1	0	3	6	10	0
Dholpur	0830	176	1002·4	982·8	..	27·6	25·7	24·8	31·1	85	..	5·3	..	4·5	0	0	19	1	4	3	3	1	2	3	2	11	0
	1730	,,	998·9	979·3	..	29·8	26·2	24·7	31·1	75	..	5·7	..	3·6	0	0	20	1	7	1	3	1	2	4	1	10	0
Ajmer	0830	486	1002·8	949·2	−3·5	25·3	23·3	22·5	27·1	85	+18	5·2	+2·4	9·8	0	1	26	1	2	1	1	1	5	11	5	3	0
	1730	,,	998·7	946·0	..	28·9	24·5	22·7	27·4	70	..	5·2	..	7·0	0	0	25	3	3	0	1	1	5	8	4	5	0
Tonk	0830	272	1001·7	971·3	..	26·2	25·2	24·6	31·3	92	..	5·1	..	8·1	0	0	29	4	4	0	3	1	4	6	7	1	0
	1730	,,	998·1	968·3	..	29·1	26·2	24·9	31·7	76	..	5·0	.	6·7	0	0	29	4	5	2	2	1	6	4	5	1	0
Kota	0530	257																									
(R)	0830	,,	1002·7	974·1	−3·2	26·9	25·4	24·7	31·1	88	+19	5·6	+2·6	5·3	0	0	28	0	0	0	0	0	3	18	7	2	0
	1130	,,			..																						
(R)	1730	,,	1000·0	971·5	..	28·3	27·1	26·6	34·8	91	..	5·3	..	3·4	0	0	20	0	1	0	0	0	3	8	8	10	0
(R)	2330	,,			..																						
Erinpura (Jawai Dam)	0830	295	1004·1	971·1	..	25·1	24·0	23·0	28·9	91	..	6·6	..	10·1	0	1	27	1	0	0	6	12	7	2	0	2	0
	1730	,,	1000·7	968·1	..	28·6	25·5	24·1	30·0	77	..	6·9	..	7·2	0	1	26	2	1	0	2	3	7	10	2	3	0
Chambal (Rawat Bhatta Dam)	0830	351	1003·2	964·2	..	25·2	24·2	24·0	30·0	90	..	6·2	..	4·5	0	0	26	1	1	0	1	2	4	5	12	4	0
	1730	,,	999·9	961·4	..	27·7	25·3	24·2	30·1	82	..	6·3	..	5·5	0	0	29	7	3	1	1	0	7	3	7	1	0
Udaipur	0230	582	1002·7	938·4	..	23·2	22·3	21·9	26·3	93	..	5·9	..	0·4	0	0	3	0	0	0	0	1	2	0	0	27	0
	0530	,,	1002·5	938·3	..	22·7	21·9	21·5	25·6	93	..	5·9	..	0·4	0	0	3	0	1	1	0	0	0	1	0	27	0
	0830	,,	1003·6	939·6	−3·3	24·3	22·7	22·0	26·3	87	+12	5·9	+3·0	2·0	0	0	14	0	0	0	1	2	2	5	4	16	0
	1130	,,	1003·6	940·1	..	27·0	23·7	22·3	26·6	76	..	7·0	..	3·3	0	0	19	1	2	0	0	3	4	7	2	11	0
	1730	,,	1000·8	937·3	..	26·3	23·6	22·5	26·9	80	..	7·3	..	4·3	0	0	23	0	1	1	1	1	10	7	2	7	0
	2330	,,	1003·5	939·4	..	23·5	22·5	22·1	26·4	92	..	5·5	..	1·4	0	0	9	0	0	0	0	1	3	5	0	21	0
Jhalawar	0830	321	1002·7	967·0	−2·9	25·3	24·1	23·4	29·3	90	+9	5·1	+1·3	2·7	0	0	27	2	0	0	0	1	7	10	7	3	0
	1730	,,	999·7	964·3	..	27·7	25·0	23·6	29·3	79	..	5·0	..	4·5	0	0	30	2	2	0	0	1	7	11	7	0	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1000·9	977·5	..	25·8	24·7	24·1	30·4	91	..	4·3	..	3·9	0	1	15	1	2	2	2	3	2	3	1	14	0
	0530	,,	1000·9	977·7	..	25·5	24·6	24·1	30·2	92	..	5·1	..	5·1	0	2	17	1	4	1	2	3	1	5	2	11	0
	0830	,,	1002·5	979·4	−2·3	27·1	25·2	24·4	30·4	85	+9	5·8	+2·0	6·5	0	2	22	4	4	2	3	1	2	5	3	6	0
	1130	,,	1002·3	979·4	..	29·6	26·1	24·6	31·1	75	..	5·9	..	9·3	0	3	26	6	5	3	4	2	1	4	4	1	0
	1730	,,	999·1	976·3	..	29·5	25·8	24·2	30·0	74	..	5·8	..	7·7	0	3	24	5	4	2	2	4	2	4	4	3	0
	2330	,,	1001·7	978·6	..	26·3	25·2	24·6	31·1	91	..	4·4	..	4·2	0	1	13	2	1	1	1	3	3	3	0	16	0
Sheopur	0830	235	1002·4	976·5	−2·0	26·5	25·3	24·8	31·3	90	+9	6·1	+1·4	7·5	0	0	28	7	3	2	3	5	3	3	2	2	2
	1730	,,	999·0	973·1	..	28·7	26·1	25·3	32·2	82	..	5·6	..	7·6	0	0	30	5	3	3	3	2	3	4	7	0	0
Shivpuri	0830	464	1002·1	950·8	..	25·0	23·7	23·1	28·3	90	..	5·9	..	8·5	0	0	29	6	5	2	1	3	1	8	3	1	0
	1730	,,	999·1	948·3	..	27·1	24·5	23·5	28·8	81	..	6·2	..	9·0	0	2	27	2	6	0	1	5	5	3	6	1	1

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level, height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(*Contd.*)																											
Nowgong	0830	229	1002·7	977·1	−3·0	26·5	25·2	24·6	31·1	90	+9	5·5	+1·5	6·3	0	0	30	2	6	5	1	2	9	3	1	0	1
	1730	"	999·0	973·8	..	29·2	26·0	24.6	30·9	77	..	5.8	..	7·5	0	2	26	2	11	4	1	0	7	0	3	2	0
Guna	0530	478	1001·4	948·3	..	23·2	22·7	22·5	27·3	96	..	6·8	..	9·7	0	2	25	5	2	0	1	3	3	7	6	3	0
	0830	"	1002·9	949·9	−2·8	24·2	23·4	23·0	28·3	93	+10	7·5	+3.8	9·3	0	2	27	6	3	1	1	3	2	6	7	1	0
	1130	"	1002·5	949·9	..	26.6	24·4	23.5	28·9	84	..	7·0	..	12.1	0	5	24	5	2	2	0	2	3	6	6	1	3
	1730	"	999·5	947·1	..	26·4	24·3	23·4	28·9	84	..	6·4	..	13·8	0	5	24	4	2	2	2	2	3	6	8	1	0
	2330	"	1002·4	949·4	..	24·0	23·3	23·0	28·1	94	..	5·8	..	7·1	0	2	25	5	0	1	2	7	4	5	3	3	0
Nimach.	0830	496	1004.3	949·3	−2·7	23·8	22.3	22·4	27·1	92	+13	7·3	+3.7	12·8	0	4	26	1	1	0	0	0	13	13	2	0	0
	1730	"	1001.3	946·8	..	26·1	23·7	22·7	27·6	83	..	6·9	..	11·9	0	1	29	3	4	0	0	1	11	11	0	0	0
Rajgarh	0830	382	1002·6	960.0	..	24·4	23·2	22.6	27·4	90	..	6·6	..	4·8	0	0	29	0	0	0	0	0	0	25	4	1	0
	1730	"	999·7	957·6	..	26·9	24·4	23·2	28·6	81	..	6·2	..	5·2	0	0	30	1	0	0	0	0	0	26	3	0	0
Sagar	0830	551	1002.6	941·8	−3·2	23·7	22·7	22·3	26·9	92	+11	7·3	+3.1	7·5	0	1	29	1	2	2	2	0	6	10	7	0	0
	1730	"	999·2	938·9	..	25·3	23·5	22·7	27·6	86	..	6·4	..	6.2	0	0	29	0	1	2	1	0	4	12	9	1	0
Ratlam	0830	486	1004·7	950·5	−1·7	22·7	22·1	21·8	26·1	95	+7	7·8	+1·6	10·4	0	0	30	0	0	0	0	1	8	17	4	0	0
	1730	"	1001·7	948·1	..	25·3	23·5	22·7	25·9	86	..	7·2	..	11·2	0	1	28	0	1	1	0	0	12	13	2	1	0
Bhopal (Bairagarh)	0230	523	1001·9	943·8	..	22·9	22·3	22·0	26·4	95	..	6·4	..	17·3	0	13	16	3	1	0	0	2	4	8	11	1	0
	0530	"	1001·9	943·8	..	22.6	22·1	21·8	26.3	95	..	7·6	..	17·6	0	14	15	1	1	0	0	1	5	6	15	1	0
	0830	"	1003·7	945·7	−2·6	23·4	22·6	22.2	26·7	93	+10	7·8	+3·2	18·8	0	12	18	3	1	0	0	1	4	7	14	0	0
	1130	"	1003·3	945·6	..	25·7	23·5	22·5	27·7	83	..	7·5	..	19·7	0	15	15	4	2	0	0	0	5	8	11	0	0
	1730	"	1000.2	942·8	..	25·8	23·4	22·4	27·1	83	..	7·5	..	19·3	0	15	15	4	1	0	0	1	3	7	14	0	0
	2330	"	1002·9	945·0	..	23·4	22·7	22·4	26.9	94	..	6·6	..	16·3	0	11	18	1	1	0	0	2	4	13	8	1	0
Ujjain	0830	..	..	..	..	23·2	22·4	22·0	26·4	93	..	7·7	..	20·7	0	16	14	0	0	0	0	2	2	15	11	0	0
Hoshangabad	0830	302	1003·8	969·9	−3·2	24·3	23·4	23·1	28·3	94	+9	7·3	+2·3	6.4	0	1	29	1	0	0	1	3	17	8	0	0	0
	1730	"	1000·6	967·0	..	26·2	24·7	24·1	30·0	88	..	6·9	..	6·9	0	0	30	0	0	0	2	3	13	10	2	0	0
Indore	0530	567	1002·9	940.0	..	21·9	21·3	21·0	24·9	95	..	7·1	..	21.8	1	13	16	0	0	0	0	2	13	10	5	0	0
	0830	"	1004·6	941·7	−2·8	22·5	21·8	21·4	25·5	94	+11	7·6	+2·2	22.1	0	16	14	0	0	0	0	1	11	12	6	0	0
	1130	"	1004·5	941·9	..	24·2	22·5	21·7	25·9	86	..	7·5	..	23·0	0	17	13	2	0	0	0	1	11	10	6	0	0
	1730	"	1001·3	939.0	..	24·6	22·7	21·8	26·1	85	..	6·8	..	20·0	0	14	16	4	0	0	0	2	7	9	8	0	0
	2330	"	1004·0	941·1	..	22.4	21·8	21.6	25·8	95	..	6.1	..	22.0	0	16	14	0	0	0	0	2	17	10	1	0	0
Rajpur (Jhabua)	0830	293	1005·6	972·7	..	24·1	23·1	22·6	27·4	91	..	7·5	..	12.0	0	1	29	0	0	0	0	0	9	21	0	0	0
	1730	"	1002·3	969·8	..	26.5	24·0	22·9	27·9	81	..	7·1	..	13.8	0	4	26	0	0	0	0	2	12	15	1	0	0
Chhindwara	0830	685	1003·4	928·2	−2·0	23·1	21·8	21·2	25·2	89	+7	7·2	+2·1	10.5	0	2	27	1	0	0	0	0	5	8	15	1	0
	1730	"	1000·1	925·5	..	24·6	22·4	21·4	25.5	83	..	7·4	..	11·5	0	2	28	4	0	0	0	0	5	11	10	0	0
Seoni	0830	619	1002·1	934·5	−3.4	23·8	22·6	22·1	26·6	90	+11	7.2	+2·9	3·6	0	0	30	2	1	0	0	1	10	9	7	0	0
	1730	"	1000·0	932·6	..	25·3	23·2	22·4	27·1	84	..	7·0	..	3·5	0	0	30	3	3	0	2	1	11	3	7	0	0
Betul	0830	653	1004·6	932·5	−1.7	22·3	21·5	21·2	25.0	93	+7	7·8	+1·7	11·1	0	1	29	0	0	0	0	2	2	22	4	0	0
	1730	"	1001·1	929.6	..	23.9	22·2	21.4	25.6	87	..	7.5	..	10·3	0	0	30	1	0	0	0	1	6	17	5	0	0
Khandwa	0830	318	1005·1	969.3	−2·3	24·1	22·8	22·0	26·4	88	+7	7·5	+3·1	4·6	0	0	30	0	0	0	1	2	14	10	3	0	0
	1730	"	1001·6	966·4	..	26.5	23·8	22.5	27·2	80	..	7·2	..	5.1	0	0	30	0	0	0	0	2	11	12	5	0	0
Madhya Pradesh (East)																											
Sutna	0530	317	1001 0	965.6	..	24.7	23·9	23.5	28.8	93	..	5·8	..	3·5	0	0	23	4	4	4	3	2	4	2	0	7	0
	0830	"	1002·3	967·1	−2·7	26·2	24·5	23·7	29·3	86	+6	5·8	+1·7	2.1	0	0	24	1	0	9	3	2	3	4	2	6	0
	1130	"	1001 9	967·0	..	28·8	25·3	23·7	29·3	74	..	6·6	..	5.2	0	1	27	4	2	6	3	4	0	2	7	2	0
	1730	"	999.0	964·1	..	28.2	25·0	23·8	29.1	78	..	6·2	..	3·7	0	0	25	4	5	5	1	3	0	4	3	5	0
	2330	"	1001.7	966·4	..	25.6	24·3	23.8	29·3	90	..	4.7	..	3·1	0	1	18	3	2	3	3	1	3	3	1	11	0
Sidhi	0830	272	1002·0	971·8	..	26·9	24·8	23.8	29.6	84	..	5.1	..	0·5	0	0	8	0	1	0	2	1	4	0	0	22	0
	1730	"	998·0	968·2	..	28.5	25·5	24·2	30·2	78	..	5·0	..	0·4	0	0	6	1	1	1	0	0	1	1	1	24	0
Umaria	0830	459	1002·3	951.6	..	25.1	23·5	22·9	27·9	87	+7	6·9	+1·7	6·3	0	0	29	4	0	3	3	2	3	11	3	1	0
	1730	"	999·0	948.7	..	26·4	24·3	23·5	28 9	84	..	6·5	..	3·7	0	0	22	1	0	2	1	0	7	8	3	8	0
Jabalpur	0530	393	1001·2	957.5	..	23·7	23·2	22 9	27·9	95	..	7·2	..	5·2	0	0	28	0	1	1	5	3	7	8	3	2	0
	0830	"	1002·7	959·1	−2·9	24·9	23·8	23·3	28·6	91	+10	7·0	+2·5	5·6	0	0	28	1	2	0	2	4	5	12	2	2	0
	1130	"	1002·2	958.9	..	27·9	24.7	23·6	29·1	82	..	6·7	..	6·7	0	1	29	2	1	1	3	2	6	14	1	0	0
	1730	"	999·3	956·0	..	26·5	24·5	23·6	29 1	85	..	7·0	..	6.2	0	1	27	0	2	1	1	4	9	8	3	2	0
	2330	"	1002·1	958·4	..	24·4	23.6	23·2	28·4	93	..	6·3	..	5·3	0	0	23	0	1	2	2	3	9	3	3	7	0
Ambikapur	0830	611	1002·8	935·8	−2·2	24 2	22·8	22·1	26.7	88	+3	5 8	+1·4	5·9	0	1	28	7	2	0	3	6	8	2	1	1	0
	1730	"	999·1	932·6	..	25·5	23·5	22.6	27·4	85	..	5.1	..	4·9	0	0	30	6	2	1	1	4	7	3	6	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—*Contd.*																											
Pendra . . .	0530	625	1001·2	932·4	..	22·2	21·8	21·7	25·8	97	..	7·5	..	5·5	0	0	24	8	0	0	1	5	7	1	2	6	0
	0830	,,	1002·7	934·1	−3.2	23·5	22·5	22·1	26·6	92	+10	7·5	+3.2	6.1	0	1	28	8	1	0	3	6	5	2	4	1	0
	1130	,,	1002·0	934·0	..	25·9	23·6	22·6	27·3	83	..	7·4	..	7.8	0	0	29	7	1	1	3	5	5	0	7	1	0
	1730	,,	994·4	931·3	..	24·7	23·2	22·6	27·2	88	..	7·6	..	6·6	0	0	29	6	0	1	2	9	6	1	4	1	0
	2330	,,	1002·2	933·5	..	22·8	22·3	22·9	26·6	95	..	7 0	..	6·8	0	0	28	3	1	0	1	6	9	2	6	2	0
Mandla . . .	0830	443	1002·9	953·9	−2·4	24·4	23·2	22·7	27·4	90	+4	7·0	+1·6	6·0	0	0	23	5	1	0	2	7	2	1	5	7	0
	1730	,,	999.5	950·8	..	26·1	23·9	22·9	27·9	83	..	6·8	..	6.9	0	0	25	6	0	0	1	8	2	1	7	5	0
Champa . .	0830	245	1003·4	975 9	−1·9	25·6	24.4	23·8	29·6	90	+6	7.2	+1·2	6·3	0	0	28	1	0	1	3	2	3	15	3	2	0
	1730	,,	1000·0	972·8	..	27·3	24·9	23·9	29·5	82	..	7·1	..	6·1	0	0	27	0	0	0	2	2	7	10	6	3	0
Raigarh . . .	0830	220	1002·9	978·2	−2·1	25·8	24·4	23·8	29·5	89	+6	7.2	+1·0	2·7	0	0	24	0	0	0	3	1	10	9	1	6	0
	1730	,,	999·4	974·9	..	27·0	24 9	23·9	29·7	84	..	7·0	..	1·5	0	0	16	2	0	0	0	0	11	3	0	14	0
Raipur . . .	0530	298	1002·2	968·7	..	23·8	23·1	22.8	27·7	94	..	7·3	..	7.5	0	1	24	0	0	0	0	2	13	10	0	5	0
	0830	,,	1003·7	970·4	−2·2	25·2	23 7	23·0	27.9	88	+7	7·1	+2·5	8·5	0	1	27	0	0	0	0	4	12	10	2	2	0
	1130	,,	1003·3	970.2	..	27·7	24·4	23·2	28·4	80	..	7·5	..	9·8	0	2	27	0	0	0	0	2	13	14	0	1	0
	1730	,,	1000·6	967·5	..	26·5	24 3	23·3	28·6	83	..	7·2	..	11·0	0	3	27	0	1	0	1	0	19	9	0	0	0
	2330	,,	1002·9	969·5	..	24·7	23·7	23·2	28·4	91	..	6·5	..	10·8	0	2	28	0	0	0	0	4	16	10	0	0	0
Kanker . . .	0830	402	1004·0	959.5	−1·8	24·9	22·9	21·8	26·3	81	−1	6 7	+1·1	2·5	0	0	19	0	0	0	0	0	16	3	0	11	0
	1730	,,	1001 0	956·8	..	26.5	23·5	22.1	26·4	78	..	6·5	..	4·0	0	0	23	0	0	0	0	0	13	7	3	7	0
Jagdalpur . .	0530	553	1003·4	942·3	..	22·3	21 5	21·4	25·0	93	..	7·1	..	3·3	0	0	15	0	0	0	1	0	12	2	0	15	0
	0830	,,	1004·9	944·0	−1·5	24·1	22·2	21·4	25·3	85	+1	7·3	+2·3	5·5	0	0	25	0	0	0	0	3	14	6	2	5	0
	1130	,,	1004·0	943·5	..	26·0	22·9	21·5	25·3	77	..	7·5	..	8·5	0	0	28	0	0	0	0	2	13	6	7	2	0
	1730	,,	1001·6	941·1	..	25·1	22·7	21 6	25·8	81	..	7 3	..	4·3	0	0	24	0	0	0	0	3	9	10	2	6	0
	2330	,,	1004·4	943·4	..	23·0	21·9	21·4	25 3	91	..	6 3	..	2·7	0	0	12	0	0	0	0	3	5	4	0	18	0
Gujarat Region																											
Deesa . . .	0830	136	1004·0	988·7	−3·0	25·6	24·7	24.2	30·4	91	..	6 7	..	4·5	0	0	27	1	0	0	5	5	8	5	3	3	0
	1730	,,	1001·0	985 8	..	29 2	25·9	24·4	30·7	76	..	5 2	..	4·1	0	0	27	0	0	0	3	5	9	6	4	3	0
Radhanpur . .	0830	30	1003·9	1000·5	..	26·2	25·4	24·9	31·5	91	..	5 5	..	7·8	0	0	30	0	1	1	2	6	14	4	2	0	0
	1730	,,	1001·0	997.6	..	29 6	25·8	24·1	30·0	73	..	4 7	..	6 2	0	2	21	2	1	0	0	2	9	8	1	7	0
Idar . . .	0830	219	1004·5	979·8	..	24·8	24·0	23 6	29·1	93	..	7·2	..	6·3	0	0	30	1	0	0	2	1	18	7	1	0	0
	1730	,,	1001·1	976·8	..	27 6	24·9	23·7	29·3	80	..	6·4	..	4·3	0	0	28	1	0	0	0	4	10	10	3	2	0
Ahmadabad . .	0230	55	1003·3	997·0	..	25 2	24·3	23 9	29·7	93	..	5·9	..	12·0	0	2	26	0	0	0	0	6	14	8	0	2	0
	0530	,,	1003·2	996·9	..	24·7	24·0	23·7	29·3	94	..	6 2	..	10·1	0	3	24	0	0	0	1	2	14	9	1	3	0
	0830	,,	1004·7	998·4	−3·1	25·8	24·7	24 2	30·4	91	+15	6·6	+2·5	9.5	0	0	27	0	0	0	1	2	13	8	3	3	0
	1130	,,	1005.1	998·8	..	28 5	25·7	24·4	30·7	79	..	6·8	..	11·3	0	3	25	1	0	0	0	2	12	10	3	2	0
	1730	,,	1001·6	995·3	..	28 9	25·7	24·4	30·4	77	..	6·2	..	9 8	0	2	24	0	1	0	0	5	12	5	3	4	0
	2330	,,	1004·2	997·9	..	25 9	24·9	24·3	30·7	91	..	6·0	..	12·7	0	3	27	0	1	0	1	8	12	8	0	0	0
Dohad . . .	0830	333	1004·6	967·3	−2·5	23·9	22·9	22·4	27·1	91	+5	7·2	+1·7	18·7	0	15	15	0	0	0	0	1	12	16	1	0	0
	1730	,,	1001·5	964·7	..	26·7	24·0	22·8	27·7	80	..	6·0	..	16·0	0	8	22	0	0	0	0	0	14	15	1	0	0
Baroda (Aerodrome)	0830	38	1005·2	1000·9	.	25·8	24·8	24·4	30·5	92	..	7·0	..	10·4	0	1	28	0	0	0	1	3	20	5	0	1	0
	1130	,,	1005·4	1001·1	..	28·5	25·6	24·3	30·4	79	..	6·8	..	11·1	0	3	25	1	0	0	0	2	12	10	3	2	0
	1730	,,	1002·1	997·8	..	28·0	25 5	24·4	30·7	81	..	6·5	..	12 5	0	7	23	0	0	0	1	1	18	8	2	0	0
Baroda . .	0530	34	1003·9	999·9	..	25·0	24·5	24·1	30·3	96	..	6 4	..	..	..	..	..	0	0	0	0	0	7	5	0	18	0
	0830	,,	1005·5	1001·5	−1·9	25·9	25·0	24·6	30·9	93	+7	6·4	+1·6	..	..	..	..	0	0	0	0	0	9	4	0	17	0
	1130	,,	1005·7	1001·8	..	28·8	26·1	25·0	31·5	80	..	6·9	..	..	..	..	..	0	0	0	0	0	18	6	0	6	0
	1730	,,	1002·4	998·5	..	28·6	25·8	24·7	30·9	80	..	6 3	..	..	..	..	..	0	0	0	0	1	13	3	0	13	0
	2330	,,	1005·0	1001·0	..	25·8	25·0	24·7	30 9	94	..	5·3	..	..	..	..	..	0	0	0	0	1	13	3	0	13	0
Broach . . .	0830	17	1004·8	1002·8	−2·2	25·6	24·7	24 3	30·4	92	+6	6·7	+2.3	5 6	0	1	29	0	0	0	1	1	26	1	1	0	0
	1730	,,	1002·4	1000·4	..	28·4	25·2	23·8	29 3	77	..	6·3	..	9·7	0	1	29	0	0	0	0	5	22	3	0	0	0
Surat . . .	0530	12	1004·2	1002·9	..	25·2	24·6	24·3	30 4	94	..	7·1	..	5·3	0	1	25	0	0	0	3	6	16	1	0	4	0
	0830	,,	1005·7	1004·4	−2·3	25·9	24·9	24·5	30·7	92	+11	7·0	+1·8	5·5	0	0	25	0	0	0	1	5	15	4	0	5	0
	1130	,,	1006·2	1004·9	..	28·3	25·7	24·6	30·9	81	..	7·0	..	8·9	0	0	27	0	0	0	0	8	17	2	0	3	0
	1730	,,	1003·3	1002·0	..	28·2	25·7	24·6	31·1	81	..	6·1	..	9·1	0	0	30	0	0	0	0	4	25	1	0	0	0
	2330	,,	1005·5	1004·2	..	26·2	25·1	24·5	31·1	90	..	5·8	..	7·6	0	1	27	0	0	0	0	3	25	0	0	2	0
Saurashtra and Kutch																											
Bhutakia Bhimasar *	0830	47	1004·1	998·7	..	27·0	25·8	25·3	32·2	91	..	4·6	..	17·8	0	8	15	1	0	0	1	4	10	3	4	0	0
‡	1730	,,	1001·7	996·3	..	29·9	27·2	26·1	34·2	81	..	4·0	..	18·6	0	6	18	1	0	1	2	2	14	1	3	0	0
Naliya . . .	0830	21	1003·4	1001·0	..	26·7	25·7	25·3	32.2	93	..	5·2	..	8·9	0	1	26	1	0	1	3	3	14	1	4	3	0
	1730	,,	1001·4	999·0	..	28·4	26·2	25·3	32·2	84	..	5·8	..	16·8	0	11	19	0	1	0	4	2	20	2	1	0	0
Bhuj (Rudramata) .	0230	80	1002 5	993·4	..	24·9	24·3	24·0	29·8	95	..	4·3	..	13·1	0	4	23	0	0	0	0	2	11	14	0	3	0
	0530	,,	1002·2	993·1	..	24·6	24.1	23·8	29·7	95	..	4·8	..	11·7	0	3	24	0	0	0	0	1	15	10	1	3	0

* Observation for 23 days.

‡Observations for day.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —*Contd.*																											
Bhuj (Rudramata)—*Contd.*	0830	80	1003.8	994.7	—3·1	26.1	25.0	24·5	30·7	91	+18	5.4	+1·6	11.9	0	4	23	0	0	0	1	4	11	9	2	3	0
	1130	,,	1004.1	995.0	..	28.9	25.6	24·2	30.0	76	..	5.9	..	15.9	0	9	20	1	0	0	1	3	9	12	3	1	0
	1730	,,	1001 1	992·1	..	28·7	25 4	24·0	29·7	76	..	6·1	..	19 1	0	12	18	1	0	0	1	3	11	14	0	0	0
	2330	,,	1003·5	994·4	..	25·4	24·5	24 1	30·0	93	..	4·0	..	11 7	0	3	23	0	0	0	1	2	11	12	0	4	0
Kandla Aerodrome	0830	35	1004 0	1000.1	..	27.1	25·4	24·5	30 9	86	..	5.7	.	13 9	0	5	25	0	0	0	3	4	7	13	3	0	0
	1130	,,	1004·4	1000·5	..	29 6	26 0	24·4	30 7	74	.	6·2	..	18·1	0	17	12	0	0	2	4	2	6	12	3	1	0
	1730	,,	1001·3	997·4	..	29·5	25·4	23·6	29 0	72	..	5.6	..	20.0	0	13	17	0	0	1	0	4	13	9	3	0	0
New Kandla	0830	14	1004·6	1003·0	..	27·2	25·3	24·4	30·5	85	..	5·9	..	15·7	0	4	26	0	0	0	4	3	7	12	4	0	0
	1730	,,	1002·1	1000.5	..	29 9	25.8	23 9	30 0	71	..	6·0	..	26 6	0	20	10	0	1	0	0	2	15	11	1	0	0
Mandvi	0830	9	1004·1	1003.0	—2·1	27·4	26 3	25 8	33·4	91	+4	5·9	+1·2	21·3	0	15	15	0	2	0	1	0	23	1	3	0	0
	1730	,,	1002·1	1001·1	..	28 3	26 8	26 2	34 0	88	..	6·0	..	28·5	0	22	8	0	0	0	0	1	24	4	1	0	0
Surendranagar	0830	74	1004·4	996·9	—1·9	26 6	24 6	23 8	29 3	84	0	5·6	+1·3	24 0	0	3	27	0	0	0	3	6	12	8	1	0	0
	1730	,,	1001·2	993 0	..	30 2	25 3	22·9	28·3	66	..	6·6	..	16 9	0	8	22	0	1	2	5	4	8	8	2	0	0
Jamnagar Aerodrome	0530	23	1002·6	1000 0	..	24 6	24 3	24.1	30·1	96	..	4·0	..	11·9	0	4	26	0	0	0	1	5	16	7	1	0	0
	0830	,,	1004·1	1001·5	—3·3	26 1	25·3	24 9	31·7	93	+15	5·9	+2·3	16·3	0	8	22	0	0	0	1	6	15	7	1	0	0
	1130	,,	1004·6	1002·1	..	29·2	25 9	24·6	30 6	76	..	6 6	..	18·9	0	15	15	2	0	0	0	4	11	10	2	0	1
	1730	,,	1001·8	999 2	..	28·5	25 8	24.6	31 0	80	..	6·3	..	24·3	0	22	8	0	1	0	0	3	8	16	2	0	0
	2330	,,	1004·1	1001·5	..	25·5	24·8	24·6	30·6	95	..	4·1	..	13 8	0	6	24	0	0	0	0	6	13	11	0	0	0
Dwarka	0830	11	1003.0	1001·7	—4·6	27.1	25·3	24·5	30·7	86	+1	5·9	+1·7	19·2	0	15	15	0	0	1	1	3	8	15	2	0	0
	1730	,,	1002·4	1001·0	..	28·0	25·8	24·8	31·5	82	..	5·4	..	19·5	0	14	16	1	0	0	0	6	8	14	1	0	0
Rajkot	0830	138	1004·6	989·1	—2·2	25 4	24 5	24·1	30·0	93	+5	4·6	+0·8	15·1	0	7	23	0	0	0	1	2	20	7	0	0	0
	1130	,,	1004·8	989·4	..	28 7	25 2	23·7	29·3	75	..	5·6	..	17·9	0	12	18	0	1	0	2	0	14	11	2	0	0
	1730	,,	1001·9	986 5	..	27·9	25·1	23 8	29·5	79	..	6·7	..	19·0	0	14	14	0	1	0	0	0	10	14	3	2	0
Bhaunagar Aerodrome	0830	11	1005·1	1003·9	—2·6	26·8	24 6	23·6	29 1	83	+12	4·9	+0·3	15 6	0	10	18	0	0	0	0	3	13	12	0	2	0
	1130	,,	1005·4	1004·2	..	30 0	25·1	22·9	27 9	66	..	5·5	..	19·0	0	17	12	1	0	1	0	4	13	9	1	1	0
	1730	,,	1002·4	1001·2	..	28·9	25·4	23 9	29·7	76	..	6 0	..	21.9	0	20	10	0	1	0	1	10	14	4	0	0	0
Porbander Aerodrome	0830	7	1004·7	1003·9	..	26·9	25·3	24 6	30 9	87	..	6·6	..	16·4	0	11	19	2	2	1	2	4	10	6	3	0	0
	1130	,,	1005 4	1004·6	..	28·3	25·5	24·3	30 4	79	..	6.8	..	19·5	0	17	13	0	0	0	1	4	15	9	1	0	0
	1730	,,	1002·8	1002·0	..	23·0	25·4	24·3	30·4	81	..	5·5	..	21·7	0	18	12	0	0	0	0	3	17	10	0	0	0
Porbandar	0830	7	1004·6	1003·8	—2·3	26·6	25·1	24·4	30·7	88	—1	6.7	+2·1	13·1	0	5	25	2	1	2	2	3	19	7	3	0	0
	1730	,,	1002·9	1002·1	..	28·1	25·7	24·5	31·1	79	..	7.1	..	16·9	0	6	25	0	0	0	0	5	15	10	0	0	0
Keshod	0830	51	1005·3	999·5	..	25·8	24·7	24·2	30·4	91	..	5·1	..	13·3	0	9	20	0	0	0	2	7	10	4	1	1	5
	1130	,	1005·8	1000.0	..	28·4	25·2	23 8	29·5	77	..	5·7	..	23 3	0	18	12	2	0	0	0	3	16	7	1	0	1
	1730	,,	1003·3	997·5	..	27 5	24·9	23·6	29·3	78	..	5·2	..	26·5	0	26	4	0	0	0	0	4	17	9	0	0	0
Mahuva	0830	9	1004·6	1003·6	..	25·7	24·7	24·2	30·4	91	..	7.0	..	6·5	0	0	28	0	0	0	0	0	24	4	0	2	0
	1730	,,	1002 7	1001·7	..	29·1	25·3	24·0	30·0	79	..	6.6	..	13·8	0	6	24	0	0	0	0	2	28	0	0	0	0
Veraval	0230	8	1003·9	1003 0	..	26·4	24·7	24·0	29·7	87	..	6.2	..	26·5	0	24	4	1	0	0	0	2	10	13	2	2	0
	0530	,,	1003·5	1002 6	..	26·2	24·7	24·1	30·0	88	..	6.1	..	26 6	0	21	7	0	1	0	0	2	10	12	3	2	0
	0830	,,	1005·3	1004·4	—2·9	26·7	25·0	24·2	30·4	86	+2	6·2	+1·7	25·0	0	18	10	0	2	0	0	1	10	12	3	2	0
	1130	,,	1005·9	1005·0	..	28·0	25·4	24·3	30·4	80	..	6 2	..	26·3	0	21	9	0	0	0	0	2	15	11	2	0	0
	1730	,	1003 3	1002·4	..	27·6	25·1	24·1	29.7	81	..	6·2	..	29·1	0	25	5	0	0	0	0	2	13	14	1	0	0
	2330	,,	1005 1	1004·2	..	26·8	25·1	24.1	30 4	86	..	5·6	..	26·3	0	24	6	0	1	0	0	2	12	12	3	0	0
Konkan Dahanu	0830	5	1006·2	1005·7	—1·3	25·4	24·4	23·5	29·0	83	—4	7·7	+1·8	15·7	0	9	21	0	0	2	5	5	12	6	0	0	0
	1730	,,	1004·1	1003·6	..	27·9	25·0	23 7	29·3	78	..	7·7	..	24·6	0	17	13	0	0	0	0	1	16	13	0	0	0
Bombay (Santa Cruz)	0230	15	1005·7	1004·0	..	25·8	24·3	23·7	29·3	88	..	6·4	..	13·5	0	7	20	0	0	0	0	2	17	8	0	3	0
	0530	,,	1005·4	1003·7	..	25·7	24 3	23 7	29·3	89	..	5·5	..	13·9	0	9	19	0	0	3	1	1	14	9	0	2	0
	0830	,,	1006·9	1005·3	—2·0	26·8	25·0	24·1	30·2	85	0	6·3	+0·6	15·1	0	9	20	0	0	2	1	2	13	10	1	1	0
	1130	,,	1007·4	1005·7	..	28·6	25·6	24·3	30·4	78	..	6·3	..	22·3	0	19	11	0	0	0	0	0	17	13	0	0	0
	1730	,,	1004·9	1003·3	..	27·4	24·8	23·6	29·1	80	..	6·4	..	19.6	0	14	16	0	0	0	0	0	14	15	1	0	0
	2330	,,	1006·9	1005·3	..	25·9	24·4	23·7	29·3	88	..	6.0	..	13·8	0	7	21	0	0	1	0	1	18	7	1	2	0
Bombay	0830	11	1007·2	1006·0	—1·7	27·0	25·3	24·5	30·7	86	+1	6·0	+0·3	6·7	0	0	30	0	0	1	2	1	11	13	2	0	0
	1130	,,	1007·6	1006·4	..	29·0	26·2	25·0	31·7	79	..	5·9	..	7·1	0	0	30	0	0	0	0	5	12	13	0	0	0
	1730	,,	1005·1	1003·9	..	27·7	25·3	24·3	30·2	82	..	5·8	..	7·4	0	0	29	0	0	0	0	2	9	16	2	1	0
Alibag	0830	7	1007·2	1006·4	—1·8	26.8	25·0	24·2	30·2	86	+3	6·1	+0·3	24·0	0	15	15	0	0	4	1	2	17	6	0	0	0
Harnai	0830	20	1007·6	1005 3	..	26·6	24·8	24·0	29·8	86	0	7·3	+1·4	12·9	0	6	24	1	0	1	2	5	11	6	4	0	0
	1730	,,	1005.7	1003·4	—0·8	27·2	24·9	23·8	29·7	82	..	7·3	..	19·9	0	13	17	0	0	0	0	2	13	14	1	0	0
Ratnagiri	0830	34	1008·4	1004.5	—0·8	26·5	24·9	24·4	30·2	87	..	6·6	..	18·5	0	15	15	1	0	2	2	1	9	11	4	0	0
	1730	,,	1006·1	1002·3	..	27·7	25·2	24·2	30·0	81	..	6·2	..	22·3	0	18	12	0	0	0	0	0	8	18	4	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—*contd.*																											
Devgarh	0830	36	1008.5	1004.5	—0.4	26.5	25.3	24.8	31.3	91	+2	6.5	+0.3	19.1	0	14	15	0	1	1	1	0	5	17	4	1	0
	1730	"	1006.3	1002.3	..	27.5	25.9	25.2	32.1	87	..	6.0	..	22.8	0	19	11	0	0	0	0	0	3	20	7	0	0
Vengurla	0230	9	1007.7	1006.7	..	25.3	24.3	23.9	29.5	92	..	6.0	..	4.1	0	0	13	0	0	0	0	0	7	6	0	17	0
	0530	"	1007.5	1006.5	..	25.0	24.1	23.7	29.3	93	..	6.4	..	5.5	0	0	22	1	0	0	2	3	7	9	0	8	0
	0830	"	1009.3	1008.3	0	25.9	24.7	24.2	30.2	91	+2	6.6	+0.5	4.5	0	0	20	0	1	2	1	2	6	8	0	10	0
	1130	"	1009.5	1008.5	..	28.1	25.7	24.7	31.1	82	..	6.1	..	7.9	0	1	29	0	0	0	1	5	16	6	2	0	0
	1730	"	1007.0	1006.0	..	27.4	25.2	24.2	30.2	83	..	6.9	..	7.3	0	0	27	0	0	0	0	1	15	10	1	3	0
	2330	"	1009.2	1008.2	..	25.2	24.3	23.9	29.7	93	..	6.7	..	3.7	0	0	13	1	0	0	0	0	7	4	1	17	0
Madhya Maharashtra																											
Nandurbar	0830	206	1005.4	982.1	..	24.9	23.6	23.0	27.9	90	..	6.6	..	9.6	0	0	29	0	0	0	0	0	9	20	0	1	0
	1730	"	1002.7	979.6	..	26.6	24.0	22.8	27.7	81	..	6.0	..	11.3	0	0	30	0	0	0	0	0	12	17	1	0	0
Jalgaon	0830	201	1005.9	983.1	—1.3	24.5	23.3	22.7	27.6	90	+5	6.2	+1.2	11.7	0	3	26	0	0	0	0	0	7	20	2	1	0
	1730		1002.2	979.8	..	27.9	24.2	22.4	27.3	73	..	6.4	..	17.7	0	13	17	1	0	0	0	0	6	8	15	0	0
Malegaon	0830	437	1005.6	957.0	—2.3	24.6	21.5	19.9	23.1	75	—1	6.7	+2.4	10.3	0	3	25	0	0	0	0	1	9	16	2	2	0
	1730	"	1002.1	954.2	..	27.9	22.6	19.7	23.1	62	..	7.0	..	18.1	0	14	16	2	0	0	0	0	5	13	10	0	0
Deolali (Aerodrome)	0830	571	1007.3	943.7	.	22.3	21.6	21.2	25.0	93	..	7.0	..	15.3	0	2	28	0	0	0	0	0	13	17	0	0	0
	1730	"	1004.8	941.8	..	24.0	22.2	21.4	25.5	86	..	6.9	..	18.6	0	12	18	0	0	0	0	0	6	24	0	0	0
Ahmadnagar	0830	657	1006.4	934.2	—1.7	22.8	20.4	19.3	22.2	80	+2	4.7	+0.3	5.3	0	0	25	0	0	0	0	0	11	8	6	5	0
	1730	"	1002.8	931.5	.	27.4	21.3	18.2	20.8	58	..	6.0		7.1	0	0	23	0	0	0	0	0	7	9	7	7	0
Poona (Aerodrome)	0230	593	1006.3	940.2	..	21.3	20.3	19.8	23.1	93	..	5.4	..	9.5	0	2	24	0	0	0	0	0	6	19	1	4	0
	0530	"	1005.9	939.8	..	20.7	19.9	19.5	22.7	93	..	5.7	..	8.0	0	2	21	0	0	0	0	0	5	18	0	7	0
	0830	"	1007.0	941.3	..	22.9	21.0	20.1	23.2	84	..	6.5	..	10.3	0	2	27	0	0	0	0	0	7	22	0	1	0
	1130	"	1006.6	941.6	..	26.2	21.8	19.7	22.9	68	..	6.6	..	17.3	0	10	20	0	0	0	0	0	7	23	0	0	0
	1730	"	1004.2	939.0	..	24.7	21.5	19.8	23.2	75	..	6.3	..	22.0	0	14	16	0	0	0	0	0	7	23	0	0	0
	2330	"	1007.5	941.4	..	21.4	20.5	19.9	23.4	90	..	5.8	..	9.7	0	1	28	0	0	0	0	0	6	23	0	1	0
Poona	0530	559	1005.7	943.4	..	21.5	20.2	19.5	22.7	88	..	5.3	..	2.0	0	0	9	0	0	0	0	0	4	5	0	21	0
	0830	"	1006.9	945.0	—1.7	23.4	21.3	20.3	23.8	83	+2	6.4	+1.0	4.0	0	1	16	0	0	0	0	1	9	3	4	13	0
	1130		1006.3	945.1	..	26.7	22.4	20.4	24.0	69	..	6.3	..	6.4	0	1	26	0	0	0	0	1	12	11	3	3	0
	1730	"	1004.1	942.7	..	25.4	22.0	20.3	24.0	74	..	6.8	..	7.3	0	1	24	0	0	0	0	0	11	12	2	5	0
	2330	"	1007.2	944.9	..	22.1	20.6	19.8	23.2	87	..	5.3	..	2.3	0	0	15	0	0	0	0	0	7	7	1	15	0
Jeur	0830	521	1006.8	949.1	—0.7	24.0	21.1	19.6	22.9	76	—5	5.5	+1.0	12.3	0	2	28	0	0	0	0	1	9	16	4	0	0
	1730	"	1002.1	945.6	..	29.5	21.9	18.0	20.8	51	..	6.7	..	28.3	0	24	6	0	0	0	0	0	2	21	7	0	0
Baramati	0830	551	1006.9	945.9	—0.6	24.0	20.8	19.3	22.2	75	—6	4.6	—0.5	7.6	0	0	30	1	0	0	0	0	6	22	1	0	0
	1730	"	1003.0	943.1	..	27.8	21.5	18.1	21.0	57	..	5.5	..	23.7	0	21	9	1	0	0	0	0	6	21	2	0	0
Sholapur	0530	479	1006.5	952.9	..	22.0	20.5	19.8	22.9	87	..	5.8	..	5.1	0	0	27	0	0	0	0	2	12	12	1	3	0
	0830	"	1007.6	954.4	—0.8	24.4	21.6	20.2	23.8	78	+1	6.2	+1.2	9.6	0	0	30	0	0	0	0	0	17	9	4	0	0
	1130	"	1006.3	954.0	..	29.1	22.7	19.6	22.9	57	..	6.9	..	15.2	0	7	23	1	0	0	0	0	7	18	4	0	0
	1730	"	1002.6	950.6	..	29.8	22.2	18.5	21.1	52	..	6.9	..	16.5	0	11	19	1	0	0	0	0	9	19	1	0	0
	2330	"	1007.1	953.9	..	24.5	21.3	19.6	22.9	75	..	6.3	..	9.7	0	0	30	0	0	0	0	1	16	10	3	0	0
Miraj	0830	554	1008.3	946.8	—0.9	23.0	21.3	20.5	24.1	86	+3	5.4	—0.9	..	0	0	19	0	0	0	0	0	0	19	0	11	0
	1730	"	1004.9	944.8	..	26.5	21.8	19.5	22.7	66	..	5.3	..	..	0	0	30	0	0	0	0	0	2	26	2	0	0
Kolhapur	0530	570	1006.8	943.3	..	21.1	20.5	20.2	23.7	95	..	6.9	..	10.5	0	2	28	0	0	0	0	0	10	18	2	0	0
	0830	"	1008.2	945.0	—0.5	22.6	21.4	20.8	24.6	90	+2	6.6	+1.2	14.3	0	5	25	0	0	0	0	0	5	24	1	0	0
	1130	"	1007.5	944.9	..	25.5	22.3	20.8	24.6	76	..	6.8	..	21.5	0	21	9	0	0	0	0	0	3	25	2	0	0
	1730	"	1005.4	942.5	..	24.2	21.6	20.4	23.8	80	..	6.2	..	20.5	0	18	12	0	0	0	0	0	7	21	2	0	0
	2330	"	1008.3	944.8	..	21.6	20.7	20.3	23.8	92	.	5.6	..	11.2	0	2	28	0	0	0	0	0	7	23	0	0	0
Marathwada																											
Aurangabad	0830	581	1006.7	942.4	—1.8	23.3	21.1	20.0	23.4	82	+4	6.5	+1.2	14.2	0	8	22	0	0	0	0	0	8	18	4	0	0
	1730	"	1002.3	939.1	..	27.1	22.0	19.4	22.7	64	.	6.4	..	13.9	0	6	24	2	0	0	0	0	3	22	3	0	0
Aurangabad (Chikalthan)	0230	579	1005.1	940.6	..	21.3	20.2	19.6	22.9	90	..	6.5	..	8.9	0	1	20	0	0	0	0	0	2	17	2	9	0
	0530	"	1005.1	940.6	..	21.4	20.2	19.6	22.8	89	..	6.2	..	9.8	0	1	24	2	0	0	0	0	3	19	3	5	0
	0830	"	1006.1	942.0	..	23.3	21.1	20.1	23.4	82	.	6.2	..	12.5	0	3	27	0	0	0	0	0	1	23	6	0	0
	1130	"	1005.4	942.1	..	26.8	22.3	20.1	23.5	67	..	6.7	..	16.1	0	8	22	0	0	0	0	0	3	21	6	0	0
	1730	"	1001.9	938.8	..	27.2	22.0	19.4	22.7	64	..	7.0	..	17.1	0	11	19	0	0	0	0	0	3	17	10	0	0
	2330	"	1006.0	941.8	..	22.8	20.9	19.9	23.2	84	..	6.6	..	13.8	0	4	24	0	0	0	0	0	3	20	5	2	0
Parbhani	0830	423	1006.8	959.6	+0.1	23.9	21.7	20.6	24.1	82	+1	6.3	+1.1	12.1	0	3	27	0	0	0	0	0	7	17	6	0	0
	1730	"	1002.1	955.5	..	27.8	22.9	20.2	23.8	64	..	7.1	..	11.0	0	2	27	1	0	0	0	0	4	16	8	1	0
Nander	0830	358	1006.3	966.2	..	24.7	22.4	21.3	25.3	81	..	4.7	..	(l) 10.4	0	1	17	2	0	0	0	1	7	9	8	3	0
	1730	"	1003.2	963.7	..	28.5	23.7	21.3	25.3	66	..	4.3	..	(k) 8.7	0	0	20	0	1	0	0	0	12	6	11	0	0

(l) Mean of 19 days.

(k) Mean of 20 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathwada—*Contd.*																											
Bir . (R) .	0830	519	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Vidarbha																											
Gondia . . .	0830	313	1003·4	968·5	−2·2	24·5	23·3	23·1	28·3	90	+6	7·5	+2·2	8·3	0	0	28	2	0	1	0	4	17	2	0	2	2
	1730	"	1000·7	966·0	..	25·2	24·2	23·3	28·6	85	..	7·0	..	8·9	0	2	28	1	0	0	0	0	20	3	4	0	2
Nagpur (Sonegaon) .	0230	310	1002·4	967·6	..	23·4	22·7	22·4	28·6	93	..	6·7	..	8·9	0	2	28	1	0	0	0	2	13	8	6	0	0
	0530	"	1002·5	967·7	..	23·1	22·5	22·1	27·3	94	..	7·0	..	10.2	0	5	25	0	0	0	0	4	12	9	5	0	0
	0830	"	1004·2	969·5	−2·2	24·7	23·1	22·3	27·3	87	+6	7·0	+2·3	14·1	0	5	25	1	1	0	0	1	11	11	5	0	0
	1130	"	1003·8	969·0	..	26·8	24·0	22·6	27·6	77	..	7·3	..	16·7	0	10	20	1	0	0	0	0	7	14	8	0	0
	1730	"	1000·9	966·5	..	26·3	23·9	22·7	27·6	82	.	6·9	..	13·9	0	7	21	0	0	1	0	2	7	14	4	2	0
	2330	"	1003·3	968·8	..	24·0	23·2	22·7	27·7	92	..	6·7	..	8·0	0	2	27	1	0	0	0	2	10	13	3	1	0
Amraoti . . .	0830	370	1004·9	963·5	−2·1	24·1	22·6	21·9	26·3	88	+8	6·3	+1·4	11·4	0	2	28	0	0	0	0	0	22	8	0	0	0
	1730	"	1001·0	960·2	..	26·6	23·4	21·8	26·1	76	..	6·0	..	11·3	0	0	30	1	1	0	0	3	10	5	10	0	0
Akola Aerodrome .	0530	309	1003·3	968·5	..	23·2	21·8	21·1	25·0	87	..	6·6	.	11·1	0	6	24	0	0	0	0	0	4	25	1	0	0
	2330	"	1004·1	969·4	..	24·2	22·6	21·8	26·1	87	..	6·2	..	9·5	0	5	24	0	0	0	0	0	5	23	1	1	0
Akola . . .	0830	282	1005·3	973·6	−2·0	24·7	22·7	21·0	25·9	84	+6	6·3	+1·5	5·7	0	4	24	0	0	0	0	0	0	27	1	2	0
	1130	"	1004·8	973·5	..	27·2	23·8	22·0	26·4	74	..	7·0	..	12·7	0	9	21	0	0	0	0	0	1	27	2	0	0
	1730	"	1001·9	970·3	..	27·8	23·8	22·0	26·4	72	..	6·9	..	11.3	0	6	24	0	0	0	0	0	3	22	5	0	0
Bramhapuri . .	0830	229	1004·8	979·0	..	24·6	23·2	22·6	27·4	88	..	6·3	..	7·6	0	1	29	1	1	0	0	3	10	13	2	0	0
	1730	"	1001·5	976·0	..	26·5	24·2	23·1	28·3	82		6·4	..	6·8	0	1	27	1	0	0	0	0	6	19	2	2	0
Buldana . . .	0830	650	1005·3	933·4	−1·4	21·9	20·6	19·9	23·2	88	+2	6·5	+0·6	3·5	0	0	30	0	0	0	1	0	8	0	21	0	0
	1730	"	1001·6	930·7	..	25·1	23·2	22·3	26·9	85	..	7·2	..	2·6	0	0	30	0	0	0	0	0	6	0	24	0	0
Yeotmal . . .	0830	451	1004·8	954·6	−1·4	23·7	21·9	20·0	24·7	85	+1	7·3	+2·0	21·4	0	15	15	0	0	0	0	1	10	14	5	0	0
	1730	"	1001·5	951·8	..	26·5	23·2	21·5	25·6	75	..	6·8	..	13·5	0	7	23	0	0	1	0	3	6	12	8	0	0
Chanda . .	0830	193	1005·2	983·5	−1·6	25.7	23·7	22·7	27·6	84	+4	6.8	+2·2	10·3	0	2	27	0	0	0	1	4	5	11	8	1	0
	1730	"	1001·7	980·2	..	27·2	24.5	23·2	28·4	80	..	7·3	..	8·1	0	1	29	1	0	1	2	1	9	11	5	0	0
Pusad . . .	0830	334	1006·1	963·8	..	24·8	22·9	21·9	26·3	84	..	5·6	..	5·7	0	0	30	0	0	0	0	0	10	13	7	0	0
	1730	"	1002·3	965·6	..	28.8	24·7	22.7	27.7	71	..	6·0	..	5·4	0	0	30	0	1	1	0	0	9	6	13	0	0
Sironcha . .	0830	123	1006·0	992·1	−0·6	26·1	24·4	23·7	29·1	87	+2	6·3	+0·6	3·1	0	0	23	0	0	2	5	1	4	9	2	7	0
	1730	"	1002·5	988·7	..	28·0	25·0	23·7	29·3	78	..	6·7	..	2·5	0	0	22	1	1	3	2	1	3	7	4	8	0
Coastal Andhra Pradesh																											
Kalingapatam .	0830	6	1004·6	1003·9	−1·4	27·6	25.7	24·8	31.5	85	+2	3·7	−0·8	11·1	0	4	26	0	0	0	0	4	20	5	1	0	0
	1730	"	1001·3	1000·6	..	28·2	26·1	25·2	32·2	84	..	2·9	..	11·1	0	3	27	0	0	0	1	5	20	3	1	0	0
Vishakhapatnam .	0230	30	1002·9	1002·5	..	26·5	24·7	23·9	29·7	86		5·2	..	6·9	0	1	18	0	0	0	0	1	14	3	1	11	0
	0530	"	1003·4	1003·0	..	26·1	24·5	23·7	29·5	87	.	6·2	..	6·1	0	0	17	0	0	0	0	0	14	2	1	13	0
	0830	"	1005·1	1004·7	−1·2	27·3	24·9	23·7	29·5	80	−1	6·7	+0·9	11·7	0	3	26	0	0	0	0	1	19	9	0	1	0
	1130	"	1004·2	1003·8	..	30·4	25·8	23·7	29·5	68	..	6·6	..	14·3	0	7	21	0	0	0	0	3	19	6	0	2	0
	1730	"	1001·7	1001·3	..	29·0	25·5	23·9	29·7	75	.	6·7	..	11·9	0	3	25	0	0	1	0	8	15	2	2	2	0
	2330	"	1004·1	1003·7	..	27·0	25·0	24·1	30·0	84	..	5·2	..	7·4	0	1	19	0	0	0	0	0	18	2	0	10	0
Kakinada . .	0830	8	1006·2	1005·3	−0·5	27·7	25·4	24·3	30·4	82	+2	5·8	+0·4	11·6	0	0	30	0	0	0	0	0	30	0	0	0	0
	1730	"	1002·5	1001·6	..	29·6	26·1	24·5	31·1	75	..	5.5	..	11·8	0	0	30	0	0	0	0	0	30	0	0	0	0
Nidadavole . .	0830	12	1006·3	1004·9	..	26·7	25·2	24·6	30·7	89	..	7·1	..	8·0	0	0	29	0	0	0	0	0	11	15	3	1	0
	1730	"	1002·6	1001·2	..	29·0	26·5	25·5	32.6	82	..	7·1	..	7·0	0	0	28	0	0	0	0	1	11	13	3	2	0
Rentachintala. .	0830	106	1007·0	995·1	..	27·6	23·6	21·6	25·8	70	0	6·4	+0·6	4·4	0	0	30	0	0	0	0	1	4	25	0	0	0
	1730	"	1002·5	990·8	..	31·1	24·5	21·2	25·3	56	..	6·4	..	3·6	0	0	30	1	0	0	0	0	5	21	3	0	0
Gannavaram . .	0230	24	1004·5	1001·8	..	26·0	25·1	24·7	31·1	93	..	6·8	..	7·1	0	0	26	0	0	0	1	6	11	7	1	4	0
	0530	"	1004·9	1002·2	..	25·3	24·2	23·7	28·3	91	..	6·6	..	6·5	0	0	25	0	0	0	0	3	13	8	1	5	0
	0830	"	1006·7	1004·0	+0·3	27·0	24·7	23·6	29·3	82	+2	6·4	+0·8	11·3	0	3	26	0	0	0	0	2	9	17	1	1	0
	1130	"	1006·1	1003·4	..	29·5	25·4	23·6	28·9	71	..	6·7	..	16·6	0	15	14	0	0	0	0	0	7	19	3	1	0
	1730	"	1003·0	1000·3	..	30·1	25·6	23·6	29·3	69	..	6·6	..	9·5	0	2	27	1	0	0	0	1	5	16	6	1	0
	2330	"	1005·5	1002·8	..	26·7	25·4	24·9	31·5	90	..	5·8	..	7·3	0	0	26	1	2	0	0	6	11	6	0	4	0
Nagarjun konda .	0830	126	..	..	..	28·3	23·4	20·9	24·7	65	..	5·6	..	20·7	0	20	10	0	0	0	0	0	6	19	5	0	0
	1730	"	..	..	..	31·2	24·4	21·1	25·0	56	..	5·8	..	14·5	0	10	19	2	1	0	0	1	3	14	8	1	0
Masulipatam . .	0830	3	1006·8	1006·4	−0.5	27·0	25·4	24·6	31·1	87	+6	6·3	+0·9	3·8	0	0	27	0	0	0	0	0	14	13	0	3	0
	1730	"	1003·0	1002·7	..	29·8	26·0	24.4	29·8	74	..	6·5	..	4·3	0	0	26	3	0	0	0	5	3	9	6	4	0
Ongole . .	0830	12	1007·1	1005·8	..	28.8	24·1	21·8	26·3	67	..	5·4	..	4·9	0	0	30	0	0	1	0	1	5	17	6	0	0
	1730	"	1003.1	1001·6	..	32·6	24·8	20·9	24·9	51	..	6·2	..	4·7	0	0	30	3	0	0	2	0	2	17	6	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—*Contd.*																											
Nellore	0530	20	1005·6	1003·4	..	26·2	24·1	23·1	28.3	83	..	6·6	..	1·8	0	0	15	0	0	0	1	0	3	11	0	15	0
	0830	"	1007.6	1005.4	—0·1	28·3	24·4	22·5	27·3	72	+2	6·0	+0·6	4·3	0	0	29	0	0	2	1	0	1	23	2	1	0
	1130	"	1006·7	1004·5	..	31·7	25 0	21·9	26·3	57	..	5·3	..	5·7	0	0	30	0	0	0	2	0	3	23	2	0	0
	1730	"	1003·4	1001·2	..	31·8	25·9	23·3	28·6	61	..	6·1	..	2·4	0	0	27	1	0	6	5	0	2	11	2	3	0
	2330		1006·3	1004·1	..	27·4	25·2	24·2	30·2	83	..	4 7	..	2·9	0	0	24	0	0	2	2	2	8	10	0	6	0
Telangana																											
Ramgundam	0830	156	1005·6	988·0	—0·5	25·9	23·9	22·9	28·1	84	+4	5.7	0	3·6	0	0	20	0	0	0	0	4	5	9	2	10	0
	1730	"	1002·1	984·7	..	29·1	24·8	22·8	27·9	70	..	7·2	..	3·8	0	0	20	0	1	0	1	1	3	14	0	10	0
Nizamabad	0830	381	1006.5	963 9	—0·9	24·8	22·3	21·0	24·9	80	..	5·4	+0.8	2·0	0	0	25	1	0	0	0	1	18	5	0	5	0
	1730	"	1002.1	960·2	..	28·3	24·0	21·9	26·3	70	..	6·4	..	1·1	0	0	16	1	0	0	0	2	4	8	1	14	0
Hanamkonda	0830	269	1006·1	996·1	—1·1	25·8	23·2	21·9	26·3	80	+3	5·6	+0·6	3·0	0	0	30	0	0	0	1	0	5	17	7	0	0
	1730	"	1002·7	973·1	..	29·0	24·6	22·8	27·3	69	..	5·9	..	2·4	0	0	27	2	0	0	0	0	5	8	12	3	0
Hakimpet (Aerodrome)	0530	613	1005·6	937·7	..	21·6	20·2	19·5	22·7	87	..	6·9	..	17·3	0	9	21	1	0	0	0	0	7	19	3	0	0
	0830	"	1006·5	938·9	..	23·2	20·9	19·8	22·9	81	..	6.7	..	21·8	0	22	8	1	0	0	0	0	5	20	4	0	0
	1130	"	1005·7	938·8	..	26·1	22·0	20·0	23·4	69	..	6·7	..	26·4	0	25	5	1	0	0	0	0	2	16	11	0	0
	1730	"	1002·9	936·2	..	26·3	22·2	20·1	23·7	68	..	6·7	..	16·3	0	8	21	1	0	0	0	0	3	17	8	1	0
Bhadrachalam	0830	111	1006·2	993·8	—0·2	26·2	24·2	23·2	28·6	84	0	7·1	+0·9	4·1	0	0	30	1	0	13	1	2	4	7	2	0	0
	1730	"	1002·2	989·8	..	28·9	25·2	23·5	28·9	73	..	7.5	..	3·6	0	0	30	0	1	7	4	1	2	7	8	0	0
Hyderabad (Begampet)	0230	545	1005·1	944·8	..	23·0	21·1	20·1	23·5	84	..	6.2	..	12·4	0	9	16	0	0	0	0	0	2	19	4	5	0
	0530	"	1005·4	945·0	..	22.3	20·5	19·6	22.8	84	..	6·4	..	14·9	0	12	16	0	0	0	0	0	2	23	3	2	0
	0830	"	1007·0	946·7	—0·5	23·5	21·1	19·9	23·2	81	+1	6·8	+1·5	19.0	0	18	12	0	0	0	0	0	2	21	7	0	0
	1130	"	1006·0	946.4	..	26·8	22·2	19·9	23·4	67	..	7·0	..	21·4	0	20	10	0	0	0	0	0	0	21	9	0	0
	1730	"	1002·3	943·1	.	27·6	22·4	19.8	23·2	64	..	6·8	..	15·5	0	8	22	2	0	0	0	0	5	13	10	0	0
	2330	"	1006·1	945·9	..	24·0	21·5	20·3	23·8	80	..	6·6	..	10·8	0	6	16	0	0	0	0	0	4	13	5	8	0
Khammam	0830	112	1006.4	993.8	..	26·3	24·3	23·5	28·8	85	..	6·7	..	6·6	0	0	25	0	0	0	0	0	6	17	2	5	0
	1730	"	1002·1	989·7	..	29.3	25.1	23·3	23·6	72	..	6·6	..	6·7	0	0	26	3	0	0	0	0	2	19	2	4	0
Mahbubnagar	0830	505	1007·6	951·5	..	24·0	21·5	20·2	23.8	79	..	6·4	..	10·9	0	0	30	0	0	0	0	0	11	9	10	0	0
	1730	"	1002·9	947·5	..	27·9	23·1	20·8	24·7	67	..	7·2	..	5·5	0	0	27	3	0	0	0	1	4	8	11	3	0
Rayalaseema																											
Kurnool	0830	281	1008·5	977·0	+0·2	25·7	22.1	20.1	23·6	71	—1	5·8	+0·4	13·8	0	3	27	0	0	0	0	0	4	23	3	0	0
	1730	"	1002.9	972·1	..	31·6	23·1	18·2	21.3	46	..	5·1	..	17·8	0	14	15	0	0	0	0	0	0	22	7	1	0
Anantapur	0530	350	1007·0	967·8	..	24·0	20·8	19·1	22·0	74	..	5.8	..	12·3	0	4	26	0	0	0	0	0	2	27	1	0	0
	0830	"	1008·5	969·5	+0·5	26·0	21·4	18·8	21·7	65	—10	6.3	+0·7	18·1	0	14	16	0	0	0	0	0	2	26	2	0	0
	1130	"	1007·0	968·6	..	30·2	22 0	17·4	19·7	46	..	6 9	..	20·4	0	22	8	0	0	0	0	0	1	26	3	0	0
	1730	"	1002·9	964·8	..	31·8	21·9	15·9	18·2	39	.	6·7	..	22·4	0	22	8	0	0	0	0	0	1	22	7	0	0
	2330	"	1007·5	968·6	..	26·6	21·3	18·3	21·0	61	..	5·0	..	22·6	0	23	7	0	0	0	0	0	0	29	1	0	0
Cuddapah	0830	130	1008·8	994·1	0	27·5	23·6	21·7	25·9	71	0	4·7	—0·7	2·1	0	0	13	0	0	0	0	0	0	11	2	17	0
	1730	"	1003·2	988·9	..	32·5	25·1	21·6	25·8	53	..	4·6	..	4·7	0	0	25	0	2	0	1	0	0	14	8	5	0
Arogyavaram	0830	701	1008·5	931·9	..	23·7	20·2	18·4	21·0	72	..	6·2	.	10 3	0	0	29	1	1	0	0	0	2	20	5	1	0
	1730	"	1003·3	928·1	..	28·6	21·1	17·1	19·5	50	..	6·5	..	12·2	0	3	27	2	0	0	0	1	1	18	8	0	0
Madras State																											
Madras	0830	6	1008·5	1007·8	..	27·6	24·4	23·0	27·9	76	..	4.7	..	8·8	0	1	29	0	0	0	0	1	18	11	0	0	0
Madras (Minambakkam)	0230	16	1006·5	1004·7	..	25.9	24·3	23·6	29·1	88	..	6.0	..	10·7	0	1	28	1	0	0	0	14	9	4	1	1	0
	0530	"	1006·7	1004·9	..	25·3	23·9	23·2	28·4	88	..	5.7	..	9·2	0	2	24	0	0	0	1	6	10	8	1	4	0
	0830	"	1008·5	1006·7	+0·3	27.6	24·5	23·1	28·3	77	+5	6·2	+1·2	12·7	0	3	25	0	0	0	0	4	13	11	0	2	0
	1130	"	1007·7	1006·0	..	30·8	25·5	23·0	28·8	64	..	5·6	..	14.1	0	11	19	0	0	0	0	0	9	18	3	0	0
	1730	"	1004·6	1002·9	..	29.9	26·1	24·4	30·7	73	..	6·5	..	11·8	0	3	27	1	0	3	6	12	6	2	0	0	0
	2330	"	1007.7	1005.9	..	26·4	25·1	24·6	30·1	89	..	5·8	..	12·9	0	2	28	0	0	0	4	19	5	2	0	0	0
Vellore	0530	214	1007 3	983·1	..	24·4	22·4	21·3	25·5	83	..	7·0	..	1·3	0	0	13	0	0	0	0	0	0	13	0	17	0
	0830	"	1008.7	984·7	+0·4	26·7	23·2	21·4	25 6	74	+1	6.2	+2.2	3·2	0	0	26	0	0	0	0	0	12	14	0	4	0
	1130	"	1007.6	983·8	..	30·1	24.8	22·2	26 9	64	..	6·3	..	4·4	0	0	30	0	0	0	0	1	6	23	0	0	0
	1730	"	1003·7	980·0	..	30·0	25·0	22·7	27.6	66	..	6·8	..	3·1	0	0	19	0	1	0	1	4	7	5	1	11	0
	2330	"	1008·1	984·0	..	26·2	24·1	23·0	28.3	83	..	6·9	..	2·0	0	0	13	0	0	0	0	2	5	6	0	17	0
Tambaram (Aerodrome)	0830	29	1008.3	1005·0	..	27·6	24·3	22·8	27 6	76	..	5·6	..	15·0	0	3	26	0	0	0	0	1	9	15	4	1	0
	1730	"	1004·5	1001·3	..	30·5	25·7	23·5	29.1	67	..	5·7	..	17·3	0	11	19	1	1	0	7	12	5	3	1	0	0
Tiruppattu	0830	390	1009·0	965.6	..	25·5	22·4	20·7	24·4	76	..	5.5	..	3·7	0	0	27	13	1	2	1	2	4	2	2	3	0
	1730	"	1003·8	961.3	..	30·2	23·7	20·3	24·0	57	..	6·2	..	7·3	0	2	27	8	0	0	1	11	2	5	2	1	0
Cuddalore	0530	12	1006·9	1005·5	..	25·0	23·5	22·7	27·6	87	..	6·3	..	5·5	0	0	22	0	0	0	0	5	15	1	1	8	0
	0830	"	1008·8	1007·5	+0·1	27·0	24·3	22·7	27·6	75	0	6·4	+1·8	8·4	0	0	30	0	0	0	0	2	24	4	0	0	0
	1130	"	1008·0	1006·7	..	31·4	25·2	22·3	26·9	59	..	6·2	..	9·1	0	1	28	0	0	0		1	23	4	1	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.*																											
Cuddalore	1730	12	1004·9	1003·6	..	29·4	25·9	24·3	30·4	74	..	5·6	..	9·9	0	0	28	1	0	0	18	0	8	0	1	2	0
	2330	"	1008·0	1006·7	..	26·5	24·3	23·4	28·6	83	..	6·6	..	11·2	0	3	24	0	0	0	3	10	12	2	0	3	0
Kallakkurichchi	0830	127	1008·7	994.3	..	27·0	24·1	22·7	27·6	78	..	4·9	..	6·4	0	1	20	0	0	0	1	1	19	0	0	9	0
	1730	"	1004·0	990·3	..	30·7	25·1	22·5	27·3	63	..	5·6	..	6·5	0	0	25	0	2	0	7	1	13	0	2	5	0
Salem	0530	278	1008·0	976·7	..	23·4	21·7	20·8	24·6	86	..	6·9	..	2·2	0	0	20	0	0	0	0	8	9	3	0	10	0
	0830	"	1009·7	978·5	+0·2	25·2	22·4	21·0	24·9	78	0	6·7	+2.0	3·7	0	0	28	0	0	0	0	18	6	4	0	2	0
	1130	"	1008·3	977·5	..	29·3	23·6	20·7	24·4	60	..	6·3	..	5·4	0	0	28	0	0	0	0	9	6	10	3	2	0
	1730	"	1004·3	973·8	..	30·4	23·6	20·1	23·5	56	..	7·1	..	2·7	0	0	22	1	0	1	1	5	5	8	1	8	0
	2330	"	1009 0	977·7	..	25·0	22·4	21·0	25.0	79	..	5·6	..	3·3	0	0	17	0	0	0	0	5	11	0	1	13	0
Coimbatore (Pilamedu)	0530	399	1008·7	963·8	..	21·9	21·2	20·8	24.7	94	..	6·0	..	18.6	0	14	15	0	0	0	0	6	22	1	0	1	0
	0830	"	1010.1	965 4	..	24·4	22·3	21·2	25·3	82	..	5·8	..	22.7	0	21	9	0	0	0	0	3	26	1	0	0	0
	1130	"	1008·5	964·6	..	28.7	24·0	21.6	25·9	67	..	5·6	..	29·5	0	24	6	0	0	0	0	4	25	1	0	0	0
	1730	"	1006·0	961·9	..	26·6	23·0	21·1	25·2	73	..	6·1	..	36·1	0	29	1	1	0	0	0	1	23	4	1	0	0
	2330	"	1009·8	965·0	..	22·9	21·8	21·3	25·3	90	..	5·3	..	27.3	0	29	1	0	0	0	0	1	26	3	0	0	0
Coimbatore	0830	409	1010·0	964·4	+0.4	24.5	21·9	20·5	24·1	79	−2	6·9	+3·0	22·9	0	25	5	1	1	0	1	11	14	2	0	0	0
	1730	"	1008·1	961·0	..	26·9	22·4	20·0	23·5	67	..	7·0	..	20·5	0	18	12	0	1	0	0	10	14	5	0	0	0
Nagapattinam	0830	9	1009·5	1008·4	+0·4	28·1	24·3	22·5	27·3	72	0	5·6	+1·4	9·9	0	2	28	0	0	0	1	1	12	13	3	0	0
	1730	"	1005·5	1004·5	..	30·4	25·8	23·8	29·5	68	..	4·9	..	16·3	0	10	20	0	0	0	7		14	0	0	0	0
Tiruchchirapalli	0230	88	1007.7	997.7	..	25·4	22·5	21·0	24·9	77	..	4·0	..	14·0	0	10	17	0	0	0	0	0	4	20	3	3	0
	0530	"	1007·9	997·9	..	24·8	22·4	21·2	25·2	81	..	5 0	..	13·2	0	7	18	0	0	0	0	0	1	21	3	5	0
	0830	"	1009·6	999·6	+0·3	27·0	23·3	21·5	25.6	72	0	5·1	+0·9	19·1	0	13	17	0	0	0	0	0	3	25	2	0	0
	1130	"	1008·6	998·7	..	30·8	24·1	20·7	24·4	55	..	5·2	..	20·3	0	16	14	0	0	0	0	0	5	22	3	0	0
	1730	"	1005·1	995·3	..	30·8	24·1	20·7	24·4	57	..	5·5	..	16·4	0	11	18	0	0	0	5	8	7	9	0	1	0
	2330	"	1009·1	999.1	..	26·1	23·0	21·4	25·6	76	..	4·6	..	10·0	0	6	18	0	0	1	0	1	9	12	1	6	0
Vedaranniyam	0830	4	1009·9	1009·4	..	28·0	25.1	23·5	29·5	74	..	4·5	..	9.5	0	1	29	0	0	0	1	2	22	3	2	0	0
	1730	"	1005·9	1005.4	..	29·5	25·6	23·9	29·7	73	..	4·7	..	14·5	0	3	27	0	0	0	2	13	15	0	0	0	0
Atirampattinam	0830	6	1009·3	1008·7	..	28.5	24·5	22·6	27·4	71	..	4·7	..	8·7	0	0	30	2	0	0	0	0	10	11	7	0	0
	1730	"	1005·9	1005·2	..	29·7	25·7	23 9	29·7	72	..	5·1	..	25·2	0	25	5	0	0	0	0	17	12	1	0	0	0
Madurai	0830	133	1009·5	994.5	+0·9	27·4	22·8	20·5	24·1	66	0	6·1	+1·3	4·3	0	0	29	4	1	1	0	0	1	0	22	1	0
	1730	"	1005·3	990·6	..	31·4	23·9	20·1	23·5	53	..	6.5	..	7·1	0	0	28	6	4	1	4	2	5	2	4	2	0
Madurai Aerodrome	0530	131	1007·9	993·0	..	24·7	22.1	20.7	24·4	79	..	4·4	..	3·5	0	1	17	14	0	1	0	0	0	3	0	12	0
	0830	"	1009·3	994.6	..	27·9	22·8	20·1	23·5	63	..	4·7	..	7·9	0	1	24	12	1	0	1	0	4	6	1	5	0
	1130	"	1008·6	994·0	..	31·7	23·6	19·3	22·4	48	..	5·3	..	6·1	0	2	14	4	0	0	0	4	6	2	0	14	0
	1730	"	1005·1	990·0	..	30·7	23·3	19·3	22·5	53	..	6·6	..	17·7	0	14	13	0	2	2	3	5	3	11	0	3	1
Tondi	0830	5	1009·5	1008·9	..	28·9	24.5	22·4	27·3	69	..	5·2	..	4·3	0	0	12	0	0	0	0	3	9	0	0	18	0
	1730	"	1006·0	1005·4	..	29·4	25.6	23·8	29·7	73	..	5·3	..	35·5	0	27	3	0	0	0	9	15	4	1	1	0	0
Pamban	0830	11	1009·7	1008·3	+0·3	28·4	25·7	24·5	30·7	79	+2	3·0	+0·1	6·4	0	0	24	0	2	0	0	7	13	2	0	6	0
	1730	"	1006·5	1005·2	..	28·3	26·2	25·4	32·2	84	..	4·5	..	9·4	0	0	30	0	0	0	6	18	6	0	0	0	0
Tuticorin	0830	4	1010·0	1009·6	+1·0	29·5	23·9	21·0	25·0	61	+2	2·6	−0·6	12·1	0	2	28	1	2	2	0	2	12	10	1	0	0
	1730	"	1006·1	1005·7	..	31·9	24·1	20·0	23·2	51	..	5·1	..	21·8	0	17	13	0	0	0	3	3	6	18	0	0	0
Palayancottai	0830	51	1009·9	1004·1	+1.0	30·0	23·0	19·3	22·4	53	−5	4·6	+0·7	4·1	0	0	22	0	0	0	0	2	1	18	1	8	0
	1730	"	1006·1	1000·4	..	31·3	23·4	19·2	22·4	49	..	5·9	..	11.1	0	4	24	0	0	1	1	0	4	20	2	2	0
Kanniyakumari	0830	37	1010·5	1006·5	..	26·9	23·9	22·6	27·3	77	..	5·0	..	15·7	0	10	20	0	0	0	0	0	1	28	1	0	0
	1730	"	1007·9	1003·7	..	27·0	24·4	23·2	28·4	80	..	5·0	..	18·1	0	13	17	0	0	0	0	0	4	23	3	0	0
Coastal Mysore																											
Karwar	0830	4	1009·7	1009·3	+0·3	25·9	24·8	24·1	30·4	90	0	6·8	+0·8	8.2	0	3	22	1	2	0	1	0	6	4	5	5	6
	1730	"	1007·3	1006·9	..	27·1	25·2	24·1	30·4	84	..	6·4	..	14·9	0	10	16	0	0	0	0	1	8	12	4	4	1
Honavar	0830	26	1010·0	1007.1	−0.3	24.7	24.0	23.6	29·3	90	−1	7.6	+1·4	3·9	0	0	27	0	2	14	0	4	6	1	0	3	0
	1730	"	1007·6	1004.6	..	26.8	24·9	24·1	30·0	86	..	7·2	..	10·1	0	3	27	0	0	4	1	5	11	6	3	0	0
Mangalore (Bajpe)	0230	102	1009·0	997·4	..	23·3	22·9	22.8	27·6	97	..	7·0	..	4·0	0	0	16	0	0	4	8	1	2	0	1	14	0
	0530	"	1009·0	997·4	..	22·9	22·5	22·4	26·9	96	..	7·3	..	5·5	0	1	21	0	3	6	9	2	2	0	0	8	0
	0830	"	1010·7	999·1	..	24·0	23·4	23·2	28·3	95	..	7·1	..	6·5	0	0	28	0	0	5	21	2	0	0	0	2	0
	1130	"	1010·6	999·1	..	26·3	24·3	23·4	28·8	85	..	6·9	..	8·6	0	1	27	0	0	1	1	5	5	11	5	2	0
	1730	"	1008·0	996·5	..	25·5	23 9	23·1	28·3	87	..	7·4	..	7·7	0	0	25	0	0	0	1	0	9	9	6	5	0
	2330	"	1010·6	999.0	..	23·7	23·1	22·8	27·7	95	..	7·1	..	5·3	0	0	24	1	1	4	9	3	3	1	0	6	0
Mangalore	0830	22	1010.8	1008·3	+0·1	25·0	24·0	23·5	28·9	91	+3	7·2	+1·4	2 9	0	0	30	2	1	16	4	2	3	1	1	0	0
	1730	"	1008.1	1005·6	..	26·6	24·8	23·9	29·8	86	..	7·1	..	3·1	0	0	30	0	0	1	1	0	9	15	4	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest Standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Relative humidity %: Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (North)																											
Bidar	0830	664	1006·8	933·5	..	22·5	20·6	19·6	22·9	85	+2	6·6	+1·8	24·1	0	21	9	0	0	0	0	0	16	10	4	0	0
	1730	"	1001·8	930·1	..	37·5	21·6	18·6	21·6	60	..	6·8	..	19·1	0	14	16	0	0	0	0	0	9	15	6	0	0
Gulbarga	0830	458	1007·7	956·7	−0·6	24·8	21·5	19·9	23·2	75	−3	6·8	+1·9	9·2	0	0	30	0	0	0	0	0	6	9	15	0	0
	1730	"	1002·4	952·4	..	29·1	22·4	19·1	22·1	57	..	7·5	..	13·2	0	5	22	0	2	1	0	0	2	16	6	3	0
Bijapur	0830	594	1008·1	942·3	−0·7	23·2	21·1	20·0	23·5	83	+5	6·9	+2·1	5·5	0	0	28	0	0	0	0	0	4	22	2	2	0
	1730	"	1002·8	938·6	..	28·6	21·9	18·4	21·3	55	..	6·9	..	7·1	0	0	30	0	0	0	0	0	4	25	1	0	0
Raichur	0830	400	1007·8	963·3	−0·7	24·9	21·8	20·0	23·5	74	−2	5·4	+1·3	10·7	0	6	23	0	0	0	0	0	9	13	7	1	0
	1730	"	1002·6	959·2	..	30·6	22·7	18·2	21·1	49	..	7·1	..	9·4	0	1	29	0	2	0	0	0	19	0	9	0	0
Belgaum	0830	753	1009·3	926·1	−0·5	21·0	20·2	19·9	23·1	94	+7	7·6	+1·7	8·5	0	0	30	0	0	0	0	0	1	29	0	0	0
	1730	"	1005·7	923·5	..	23·1	20·8	19·6	22·9	82	..	7·3	..	10·9	0	1	29	0	0	0	0	0	0	24	6	0	0
Belgaum (Samra)	0530	747	1007·8	925·1	..	20·0	19·5	19·2	22·4	95	..	6·3	..	9·1	0	4	17	0	0	0	0	0	1	20	0	9	0
	0830	"	1008·9	926·6	..	21·5	20·3	19·8	22·9	90	..	7·1	..	13·1	0	1	28	0	0	0	0	0	6	23	0	1	0
	1130	"	1008·3	926·7	..	24·0	21·2	19·8	23·1	77	..	7·0	..	17·4	0	9	20	0	0	0	0	0	3	23	3	1	0
	1730	"	1006·3	924·5	..	22·9	20·7	19·7	22·8	82	..	6·3	..	18·9	0	9	21	0	0	0	0	0	3	25	2	0	0
Gadag	0530	650	1007·8	935·6	..	20·8	20·4	20·2	23·7	96	..	5·8	..	11·9	0	2	28	0	0	0	0	0	7	23	0	0	0
	0830	"	1008·9	937·1	−0·3	22·6	21·3	20·6	24·4	89	+7	7·0	+1·6	9·3	0	0	30	0	0	0	0	0	5	25	0	0	0
	1130	"	1007·8	937·0	..	26·7	22·5	20·5	24·1	70	..	7·0	..	12·7	0	1	29	0	0	0	0	0	6	23	1	0	0
	1730	"	1005·0	934·2	..	25·6	22·3	20·7	24·4	75	..	7·2	..	11·2	0	0	30	0	0	1	0	2	8	19	0	0	0
	2330	"	1009·1	937·0	..	21·6	21·0	20·7	24·4	95	..	5·2	..	14·6	0	4	26	0	0	0	0	0	9	21	0	0	0
Interior Mysore (South)																											
Bellary	0830	449	1008·3	958.5	−0·4	25·6	22·9	21·4	25·6	78	+8	5·3	+0·3	7·1	0	0	29	0	0	0	0	0	0	6	23	1	0
	1730	"	1003·4	954·7	..	30·1	24·6	21·8	26·3	62	..	5·5	..	9·6	0	0	30	0	0	8	0	0	0	5	25	0	0
Chitradurga	0830	733	1009·1	928·3	−0·3	21·9	20·0	19·0	22·1	84	+4	6·0	+0·2	9·7	0	0	30	0	0	0	0	1	17	12	0	0	0
	1730	"	1005·0	925·5	..	25·7	20·8	18·3	21·0	65	..	6·6	..	8·5	0	0	30	0	0	0	0	0	5	23	2	0	0
Shimoga	0830	571	1009·3	946·0	0	23·4	21·3	20·2	23·7	83	−2	7·5	+1·0	5·8	0	0	27	0	0	0	0	2	18	7	0	3	0
	1730	"	1005·9	943·1	..	24·7	21·5	19·9	23·2	75	..	7·8	..	6·7	0	0	27	0	0	0	0	3	17	7	0	3	0
Balehonnur	0830	890	..	..	..	19·5	19·0	18.7	21·6	95	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1499·3	905·4	..	20·4	19·3	18·8	21·6	91	+9	6·3	+0·5	3·7	0	0	30	0	0	0	0	0	5	25	0	0	0
	1730	"	1481·2	902·7	..	22·9	19·9	18·3	21·0	76	..	6·5	..	4·4	0	0	30	0	0	0	0	0	6	24	0	0	0
Bangalore	0230	921	1483·0	907·7	..	19·9	18·7	18·1	20·8	90	..	5·4	..	11·2	0	0	30	0	0	0	0	0	13	16	1	0	0
	0830	"	1500·8	909·4	+0·3	20·6	19·2	18·5	21·1	88	+4	7·1	+0·5	12·4	0	4	26	0	0	0	0	0	13	16	1	0	0
	1130	"	1503·7	908·9	..	24·8	20·3	17·8	20.1	65	..	6·9	..	14·7	0	5	25	0	0	0	0	1	7	19	3	0	0
	1730	"	1478·8	906·1	..	25·2	20·2	17·4	20·0	64	..	7·3	..	12·7	0	2	28	1	0	0	0	0	9	17	3	0	0
Bangalore Aerodrome	0530	897	1481·1	910·1	..	19·6	18·9	18·7	21·3	95	..	6·5	..	13·7	0	3	27	0	0	0	0	0	2	28	0	0	0
	0830	"	1499·7	911·9	..	21·4	19·8	19·0	22·0	86	..	7·1	..	18·6	0	7	23	0	0	0	0	0	6	24	0	0	0
	1130	"	1502·3	911·1	..	25·4	21·2	19·1	22.1	68	..	7·0	..	21·1	0	17	13	0	0	0	0	0	4	26	0	0	0
	1730	"	1476·2	908·4	..	25·2	21·4	19·4	22·7	71	..	7·2	..	16·0	0	7	22	0	0	0	0	0	5	22	2	1	0
	2330	"	1496.3	911·4	..	21·3	19·8	19·1	22·1	88	..	5·7	..	13.4	0	3	26	0	0	0	0	0	5	24	0	1	0
Mysore	0830	767	1010·5	926·1	+0·4	21·9	20·1	19·1	22·2	85	+6	5·7	−0·1	6·6	0	0	30	0	0	0	0	1	10	18	1	0	0
	1730	"	1006.1	923·4	..	27·7	21·2	17·8	20·5	56	..	6·0	..	7·5	0	0	30	0	2	0	0	1	3	24	0	0	0
Kerala																											
Calicut	0530	5	1009·9	1009·3	..	23·4	22·9	22·7	27·6	95	..	7·4	..	8·5	0	1	25	2	5	14	3	0	0	1	1	4	0
	0830	"	1011·6	1011·0	+0·8	24·9	23·8	23·2	28·6	90	+2	6·3	+0·9	5·5	0	0	22	2	3	7	0	0	0	4	6	8	0
	1130	"	1011.4	1010·8	..	27·3	24·8	23·7	29·3	81	..	5·7	..	10·1	0	1	27	0	0	0	1	2	9	10	6	2	0
	1730	"	1008·8	1008·2	..	26·8	24·6	23·5	29·1	83	..	6.3	..	9·7	0	0	26	1	0	0	0	0	2	14	9	4	0
	2330	"	1011.5	1010·9	..	24·3	23·4	23·0	28·1	92	..	7·0	..	5·9	0	1	27	2	9	5	1	0	4	4	3	2	0
Palghat	0830	97	1011.2	1000·1	..	24·9	23·4	22·7	27·6	87	..	6·6	..	11·3	0	0	30	0	0	0	0	0	5	23	2	0	0
	1730	"	1007·6	996.7	..	26·8	23·8	22·4	27·1	77	..	6·4	..	13·3	0	3	27	0	0	0	0	0	6	21	3	0	0
Fort Cochin	0830	3	1011·6	1011·3	+0·4	25·6	24·1	23·5	28·8	88	+4	7·0	+1·9	6.7	0	0	29	7	7	4	1	1	2	3	4	1	0
	1730	"	1008·4	1008·1	..	26·8	24·5	23·5	28·9	83	..	6·9	..	7·5	0	0	29	1	1	1	0	0	4	9	13	1	0
Cochin (Naval Air Station)	0230	3	1010·3	1010·0	..	24·5	23·7	23·3	28·6	93	..	6·6	..	4·3	0	1	14	3	2	5	0	0	1	4	0	15	0
	0530	"	1010·1	1009·8	..	23·9	23·2	22·8	27·9	94	..	6·8	..	3·4	0	0	15	4	5	5	0	0	0	0	1	15	0
	0830	"	1011·7	1011·4	..	25·9	23·9	23·1	28·3	86	..	6·9	..	3·5	0	0	19	5	3	6	2	2	0	1	0	11	0
	1130	"	1011·7	1011·4	..	27·9	24·5	23·0	28·1	75	..	6·7	..	11·6	0	1	26	2	0	1	0	0	6	5	13	3	0
	1730	"	1008·9	1008·6	..	27·1	24·3	23·0	28·1	79	..	6·9	..	10·6	0	0	26	3	1	0	0	0	5	12	5	4	0
	2330	"	1011·7	1011·4	..	25·0	23·9	23·5	28·6	91	..	6·7	..	2.8	0	0	11	1	0	2	2	1	2	1	2	19	0
Alleppey	0830	4	..	..	..	26·0	24·6	24·0	29·8	89	+2	6·4	+0·1	5·5	0	0	27	2	13	4	3	0	2	0	3	3	0
	1730	"	..	..	..	27·7	25·1	23·9	29·7	80	..	6·5	..	16·4	0	7	23	1	1	0	1	0	0	3	24	0	0

*Data not available.

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—*Contd.*																											
Punalur	0830	34	1011·1	1007·2	..	24·9	23·8	22·8	27·6	90	..	6·0	..	0·3	0	0	3	1	0	0	0	1	0	0	1	27	0
	1730	"	1008·1	1004·3	..	28·5	24·5	22·6	27·4	71	..	6·5	..	4·3	0	0	29	2	1	0	0	5	5	8	8	1	0
Trivandrum ¶	0230	64	1009·7	1002·3	..	24·0	23·3	22·9	27·9	93	..	5·0	..	6·9	0	1	28	16	3	0	0	0	0	0	10	1	0
	0530	"	1009·8	1002·5	..	23·5	22·9	22·6	27·6	94	..	5·3	..	5·9	0	0	30	16	3	1	0	0	0	0	10	0	0
	0830	"	1011·4	1004·1	+0·5	25·5	23·8	22·9	27·7	86	+3	4·7	−0·7	6·5	0	0	27	15	2	0	0	0	1	0	9	3	0
	1130	"	1010·8	1003·7	..	28·2	24·5	22·7	27·6	73	..	5·8	..	11·3	0	2	27	4	0	0	0	0	1	9	15	1	0
	1730	"	1008·5	1001·3	..	26·9	24·0	22·7	27·4	78	..	5·1	..	10·4	0	1	29	1	1	0	0	0	2	6	20	0	0
	2330	"	1011·4	1004·1	..	24·4	23·5	23·1	28·3	92	..	5·0	..	7·3	0	0	28	11	4	0	0	0	0	1	12	2	0
Trivandrum Aerodrome	0830	8	1011·4	1010·5	..	26·4	24·1	22·9	28·3	81	..	5·2	..	5·6	0	0	26	13	2	0	0	0	0	0	11	4	0
Arabian Sea Islands																											
Amini	0830	4																									
	1730	"																									
Minicoy*	0530	2																									
	0830	"																									
	1130	"																									
	1730	"																									
	2330	"																									
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1411·0	797·7	−0·5	17·1	16·1	15·5	17·7	91	+7	5·6	+3·1	1·4	0	0	15	1	8	0	4	1	0	0	1	15	0
	1730	"	1391·2	795·5	..	19·6	18·0	17·0	19·3	85	..	6·7	..	2·7	0	0	26	1	2	0	10	0	11	1	1	4	0
Dharmsala	0830	1211	..	..	..	21·6	19·8	18·9	21·8	85	+12	5·4	+1·9	3·3	0	0	22	7	9	2	3	1	0	0	0	8	0
	1730	"	..	..	..	22·9	21·0	20·0	23·5	84	..	6·4	..	3·2	0	0	28	3	4	0	1	2	17	0	1	2	0
Simla	0830	2202	1463·4	780·1	−0·9	16·3	15·4	14·7	16·7	92	+21	5·8	+2·2	2·7	0	0	27	4	5	4	2	6	4	1	1	3	0
	1730	"	1445·9	778·7	..	16·9	16·3	15·8	16·8	95	..	6·4	..	2·1	0	0	21	4	3	0	2	3	3	0	6	9	0
Lokpal	0830	..	..	..	..	4·9	4·4	3·9	8·1	93	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..
Badrinath (R)	0830	..																									
Joshimath	0830	..	..	..	..	19·0	17·4	16·6	19·0	86	..	6·1	..	3·4	0	0	25	2	8	6	2	1	1	2	3	5	0
	1730	..	..	..	..	20·9	17·9	16·4	18·3	75	..	6·1	..	3·6	0	0	24	0	2	3	3	2	8	6	0	6	0
Mussoorie	0830	2042	1456·3	794·2	−2·1	17·2	16·4	15·9	18·3	93	+5	6·7	+1·9	1·2	0	0	11	1	1	0	2	4	3	0	0	19	0
	1730	"	1435·6	792·5	..	17·8	17·7	17·2	19·6	96	..	7·1	..	1·6	0	0	16	1	0	0	7	7	1	0	0	14	0
Mukteswar (Kumaon)	0830	2311	3126·0	771·3	−0·8	16·0	14·9	14·3	16·1	91	+10	6·3	+2·0	5·8	0	1	24	0	7	8	1	1	3	3	2	5	0
	1730	"	3107·4	769·2	..	17·4	16·2	15·6	17·5	90	..	5·5	..	11·6	0	1	29	0	1	2	1	2	6	13	5	0	0
Nainital	0830	1953	1455·2	802·5	−0·8	17·9	16·2	15·2	17·0	85	+6	5·5	+0·8	6·8	0	0	25	0	0	11	11	1	0	1	1	5	0
	1730	"	1427·2	800·0	..	18·6	17·0	15·7	17·7	85	..	5·4	..	6·0	0	0	20	1	0	6	7	1	0	5	0	10	0
Kalimpong	0830	1209	1475·0	876·6	−1·2	21·8	20·0	19·1	22·1	85	−4	1·9	−3·8	3·0	0	0	30	1	0	1	2	0	0	0	26	0	0
	1730	"	1471·1	876·2	..	21·7	20·1	19·6	22·8	87	..	2·4	..	3·0	0	0	30	1	0	1	26	0	0	0	2	0	0
Darjeeling	0830	2128	1440·3	785·1	−3·7	16·9	16·1	15·8	17·8	92	+8	6·1	−0·3	0·1	0	0	2	0	1	0	0	0	0	0	0	28	1
	1730	"	1413·9	782·7	..	15·9	15·9	15·3	17·5	91	..	6·9	..	1·0	0	0	6	0	1	0	2	0	1	0	0	24	2
Kohima (R)	0830	1406																									
(R)	1730	"																									
Shillong	0830	1500	1486·4	848·9	+0·1	21·2	19·0	17·8	20·4	82	+3	7·6	+2·0	0·4	0	0	4	0	0	1	1	0	2	0	0	26	0
	1730	"	1448·9	845·1	..	20·5	19·0	18·1	20·8	87	..	6·9	..	0·5	0	0	4	0	0	0	2	1	1	0	0	26	0
Cherrapunji	†0830	1313	1444·2	863·1	−4·5	21·4	20·3	19·7	22·9	90	+6	4·4	−1·7	2·3	0	0	19	0	5	14	0	0	0	0	0	6	0
	†1730	"	1447·8	863·4		21·7	20·4	19·7	22·9	90	..	2·8	..	2·0	0	0	15	0	2	8	1	0	1	3	0	10	0
Abu	0830	1195	1430·7	873·8	−4·9	19·4	18·6	18·4	20·6	94	+14	3·4	−1·0	0·5	0	0	3	0	0	0	0	1	2	0	0	27	0
	1730	"	1438·0	874·7	..	20·9	20·1	19·6	22·7	92	..	3·9	..	2·7	0	0	16	1	0	0	0	2	5	5	0	14	3
Aijal	0830	..	..	..	..	22·1	21·1	20·3	23·8	90	..	7·0	..	2·7	0	0	27	0	0	17	5	3	0	2	0	3	0
	1730	..	..	..	..	22·1	21·5	20·9	24·7	92	..	7·6	..	3·1	0	0	30	5	0	4	0	1	5	11	4	0	0
Pachmarhi	0830	1075	1451·9	888·2	−2·8	20·2	20·0	19·8	23·1	97	+14	7·8	+2·6	7·3	0	0	29	1	2	0	0	0	3	14	9	1	0
	1730	"	1429·4	885·7	..	21·5	20·6	20·2	23·7	93	..	6·9	..	8·9	0	0	29	1	0	0	0	0	1	13	14	1	0
Mahabaleshwar	0830	1382	1474·0	859·5	−1·9	17·1	17·1	17·1	19·5	100	+3	8·0	+1·0	11·7	0	0	30	0	0	0	0	0	23	7	0	0	0
	1730	"	1462·9	858·2	..	17·4	17·4	17·4	19·9	100	..	8·0	..	11·7	0	0	30	0	0	0	0	0	25	5	0	0	0
Mercara	0830	1152	1501·2	885·6	+0·6	18·3	17·7	17·3	19·6	94	+2	5·7	−0·7	10·1	0	0	30	0	0	0	0	0	0	15	15	0	0
	1730	"	1483·0	883·6	..	19·4	18·5	18·0	20·6	92	..	6·6	..	10·7	0	0	30	0	0	0	0	0	2	18	9	0	1

*Data given as addenda in December 1961, issue.

(R) Registers not received.

†Observations for 25 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mb	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed per hour km.	Wind speed (Km. p.h.): 62 or more	20 to 61	1 to 19	No of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir (*contd.*)																											
Ootacamund	0830	2249	1503·0	779·1	+0·3	13·4	12·1	11·4	16·1	86	+3	5·2	−0·5	4·4	0	0	24	1	0	0	0	1	11	10	1	6	0
	1730	"	1479·1	777·3	..	14·7	12·9	11·7	16·6	82	..	6·5	..	5·7	0	0	25	1	1	0	0	0	7	15	1	5	0
Coonoor	0830	1747	1501·2	826·5	..	18·7	15·4	13·6	15·1	72	+6	5·7	+0·7	4·7	0	0	29	3	0	0	8	6	6	3	3	1	0
Kodaikanal	0830	2343	3148·7	771·0	+0·7	14·0	11·7	9·8	12·3	77	+1	5·5	+1.0	6·5	0	3	18	0	0	0	0	1	0	10	10	9	0
	1130	"	3158·0	771·1	..	17·3	14·1	12·1	14·0	72	..	6·6	..	7·0	0	1	21	2	0	1	2	1	0	6	10	8	0
	1730	"	3128·2	769·1	..	14·3	13·2	12·5	14·5	89	..	7·1	..	7.7	0	3	17	0	0	1	2	1	0	8	8	10	0
Nepal																											
Katmandu	0830	1324	1465·3	864·0	..	22·0	20·0	19·0	22·0	83	..	5·9	..	..	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	"	1457·4	863·2	..	25·5	21·3	19·1	22·2	68	..	6·2	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	"	1434·9	861·1	..	22·7	20·6	19·6	22·7	83	..	7·0	..	0·1	0	0	0	1	0	0	0	0	0	0	0	29	0
Sikkim																											
Lachen	0930	..	..	..	..	15·1	13·4	12·2	14·2	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	26·8	24·7	23·6	28·8	83	..	5·4	..	10·5	0	3	25	2	2	11	4	1	1	4	3	2	0
	1730	..	..	..	..	27·4	24·8	23·6	29·6	81	..	6·4	..	10·4	0	1	29	3	4	14	5	0	0	2	2	0	0
Hazaribagh	0830	615	1002·5	935·1	..	24·8	23·5	22·9	27·7	90	..	6·2	..	6·8	0	0	28	5	2	8	4	2	2	3	2	2	0
	1730	"	999·0	932·0	..	25·1	23·7	23·0	28·1	89	..	6·5	..	5·6	0	0	22	0	3	9	3	1	3	2	1	8	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	6·5	..	..	0	9	21	1	0	14	1	0	4	2	8	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·4	..	..	0	5	25	5	0	19	2	1	1	2	0	0	0
Bokaro	0830	242	1003·9	977·5	..	29·1	27·0	26·0	33·7	83	..	5·2	..	2·8	0	0	21	0	0	8	10	0	0	0	3	9	0
	1730	"	1003·2	975·9	..	28·3	27·2	25·9	34·8	84	..	4·9	..	2·5	0	0	19	0	0	12	5	1	0	0	1	11	0
Maithon†	0830	..	..	..	..	..	..	..	..	..	..	6·0	..	8·1	0	0	25	0	6	1	14	0	2	0	2	0	0
	1730	..	..	..	..	..	..	..	..	..	..	6·1	..	9·9	0	1	24	0	5	2	12	1	3	0	2	0	0
Ramgarh	0830	..	..	..	..	26·3	24·7	23·9	29·5	87	..	5·7	..	2·7	0	0	25	3	5	12	0	0	1	3	1	5	0
	1730	..	..	..	..	27·6	25·4	24·8	30·4	83	..	6·9	..	2·2	0	0	21	3	7	4	3	1	1	1	1	9	0
Panchet Hills	0830	..	..	..	..	27·9	26·1	25·2	33·4	85	..	7·5	..	7·8	0	0	29	1	2	15	4	1	3	3	0	1	0
	1730	..	..	..	..	27·7	25·9	25·2	32·5	86	..	7·3	...	5·3	0	0	23	0	3	12	6	1	0	1	0	7	0
Durgapur	0830	..	..	..	..	28·1	26·2	25·4	32·2	85	..	5·4	..	8·7	0	2	28	3	3	2	7	13	1	0	1	0	0
	1730	..	..	..	..	28·3	26·3	25·9	32·8	85	..	5·2	..	8·9	0	2	28	1	5	3	9	7	2	1	2	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	25·1	23·6	22·9	27·9	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1003·3	985·5	..	26·7	24·8	24·0	2·69	85	..	6·5	..	4·4	0	0	29	0	0	0	1	3	9	8	8	1	0
	1130	"	1002·6	984·9	..	28·3	25·5	24·3	30·4	79	..	6·9	..	4·3	0	0	29	0	1	0	0	1	15	7	4	1	1
	1730	..	999·9	982·2	..	27·8	25·4	24·3	30·2	82	..	6·7	..	3·8	0	0	24	1	0	0	1	0	2	11	7	6	2
Bhimkund	0830	..	..	..	..	26·0	24·1	23·3	28·6	85	..	6·4	..	4·5	0	1	20	4	6	0	1	0	4	0	6	9	0
	1730	..	..	..	..	26·3	24·2	23·1	28·2	84	..	6·9	..	3·4	0	0	22	0	0	0	2	0	11	3	6	8	0
Sonepur	0830	..	..	..	..	26.7	25·1	24·4	30·5	84	..	..	..	9·0	0	0	29	0	0	0	2	1	21	5	0	1	0
Khijrawan	0830	..	..	..	..	25·1	23·7	22·9	27·9	86	..	6·7	..	11·8	0	2	27	0	0	0	0	2	8	18	1	1	0
	1730	..	..	..	..	25·5	23·9	23·1	28·3	87	..	7·1	..	11·8	0	1	29	0	0	0	0	1	1	28	0	0	0
Narmada Catchment																											
Bagra Tawa	0830	..	..	..	..	24·3	23·3	22·8	27·7	92	..	6·9	..	10·6	0	0	30	0	0	0	0	2	20	7	1	0	0
	1730	..	..	..	..	25·5	23·9	23·1	28·3	87	..	6·3	..	8·8	0	0	25	0	0	0	0	1	13	8	3	5	0
Punasa	0830	..	..	..	..	24·4	23·3	22·4	27·1	91	..	..	..	8·1	0	0	27	0	0	0	0	2	10	15	0	3	0
	1730	..	..	..	..	26·5	24·2	23·5	28·9	85	..	..	..	4·7	0	0	21	0	0	0	0	1	7	13	0	9	0
Thikri	0830	..	..	..	..	24·8	23·9	23·5	28·9	93	..	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	25·7	24·7	24·2	30·4	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·2	25·6	24·5	30·7	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	18·9	17·6	17·0	19·4	89	..	5·7 (g)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·5	17·8	17·0	19·4	86	..	5·1 (g)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Tehri	0830	..	..	..	..	24·6	22·8	21·9	26.4	85	..	5·1	..	0·5	0	0	5	0	2	0	1	1	1	0	0	25	0
	1130	..	..	..	..	30·1	24·1	21·5	25·6	60	..	4·3	..	3·4	0	0	24	1	0	1	5	8	7	1	0	6	1
	1730	..	..	..	..	29·2	23·7	21.2	25·3	63	..	4·4	..	3·5	0	0	23	0	0	1	4	7	4	2	0	7	5
Gandak Catchment																											
Jomosom	0830	..	..	..	..	17·9	14.3	12·3	14·3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·2	13·1	10·6	12·8	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	24·7	22·6	21·8	26·1	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	25·4	23·2	22·4	27·1	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(g) Mean of 24 days. (a) Mean of 30 days. *Data not available. †Observations for 25 days.

Division and station	Hour of observation I.S.T.	Station Elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories *(contd.)* **Gandak Catchments** *(contd.)*																											
Timure	0830	..	..	..	..	19.3	17·8	17·1	19·5	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20.7	18·4	17·3	19·7	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	24·1	22·1	21·1	25·2	84	..	6·2	..	2·1	0	0	16	3	1	2	6	0	2	1	1	14	0
	1130	..	..	..	..	27.0	23·1	21·4	25·3	72	..	5·5	..	4·8	0	0	26	0	0	3	18	4	0	0	0	4	1
	1730	..	..	..	..	25·4	23·0	21·9	26·3	82	..	6·2	..	3·0	0	0	19	4	1	4	7	0	1	1	1	11	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	24·0	22·5	21·9	26·3	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	24·8	22·5	21·5	25·6	81	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment [*Trans Himalayan Region*]		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dailekh [R]	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[R]	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaghara Catchment Mansiari [R]	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
[R]	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	:	..	..	..	..
Dadeldhura	0830	..	..	..	..	18·9	17·7	17·1	19·5	89	..	6·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	18·3	17·7	20·2	89	..	5·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana**	0830	..	..	..	..	22·4	20·3	19·3	22·4	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·7	20·1	19·3	22·4	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	29·1	25·7	24·2	30·2	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	28·9	26·1	24·9	31·5	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment Kathmandu†	0830	1324	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment Chautara	0830	..	..	..	..	20·4	19·5	19·1	22·1	92	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·6	19·9	19·1	22·1	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	18·8	17·4	16·9	19·3	88	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	18·9	17·6	17·1	19·5	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Walungchung Gola	0830	..	..	..	..	13·8	11·7	10·3	12·5	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·5	10·9	10·5	12 7	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	22·1	20·0	18·9	21·8	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·1	19·7	19·0	22·0	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	21·0	19·4	18·6	21·4	86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·6	18·9	18·5	21·3	94	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	20·2	18·5	17·6	20·2	86	.	6·2	..	..	..	..	..	3	0	2	0	0	0	1	0	24	0
	1130	..	..	..	..	22·7	20·0	18·8	21·6	79	.	6·5	..	..	..	..	..	4	1	1	1	3	1	10	5	4	0
	1730	..	..	..	..	20·0	18·7	18·1	20·8	89	..	7·0	..	..	..	..	..	1	0	0	1	3	4	1	1	19	0
Okhaldhunga	0830	..	..	..	..	20·1	18·8	18·1	20·8	89	..	6·9	..	0·8	0	0	6	0	1	1	0	0	0	2	2	24	0
	1130	..	..	..	..	22·8	20·2	19·0	22·0	79	..	6·8	..	0·6	0	0	6	0	0	0	0	0	3	3	0	24	0
	1730	..	..	..	..	19·2	18·3	17·9	20·5	92	..	7.3	..	1·7	0	0	10	0	0	1	0	1	1	6	1	20	0
Chainpur	0830	..	..	..	..	22·7	21·3	20·6	24·3	88	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·9	21·4	20·7	24·4	87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	23·5	21·7	20.8	24·6	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730‡	..	..	..	..	24·1	21·1	19·6	22·3	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1004·9	988·5	..	26·7	24·9	24·2	30·0	86	..	5.5	..	2·9	0	0	26	0	7	1	3	0	10	2	3	4	0
	1130	,,	1003·9	987·7	..	29·5	26·2	24·9	31·3	76	..	5·9	..	4·8	0	0	29	0	1	0	0	0	25	1	2	1	0
	1730	,,	1001·0	984·8	..	27·9	26·2	25·5	32·6	87	..	6·4	..	2·6	0	0	21	0	3	4	7	0	3	1	3	9	0
Tista Catchment Gangtok	0830	1812	1474·1	817·5	..	18·1	17·3	17·0	19.3	93	..	6·4	..	0·7	0	0	7	2	1	1	1	0	1	0	1	23	0
	1130	,,	1465·0	816·9	..	20·0	18·6	17·9	20·5	88	..	6·9	..	2·4	0	0	22	0	1	0	0	2	17	0	2	8	0
	1730	,,	1446·5	815·0	..	18·5	17·6	17·1	19·5	92	..	7·3	..	1·2	0	0	11	1	1	1	4	1	3	0	0	19	0
Gezing	0830	..	..	..	..	20·7	19·6	19·1	22·1	91	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	20·1	19·3	18·7	21.6	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. *Data not available. †Data included under "Nepal" **Observations for 16 days. ‡Observations for 29 days.

MONTHLY MEANS OF UPPER WINDS

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

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PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (IST)			
1. Agartala	23°53′	91°15′	17	28th Nov. 1951	0530	1730	2330	
2. Ahmedabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
3. Amausi	26°45′	80°53′	133	20th Nov. 1950	0530	1730	2330	
4. Ambala	30°23′	76°46′	279	1st Apr. 1941	0530	1730	2330	
5. Anantapur	14°41′	77°37′	365	12th Feb. 1946	0530	1730	2330	
6. Asansol	23°41′	86°59′	135	29th May 1942	0530	1730	2330	
7. Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1730	2330	
8. Bairagarh	23°17′	77°21′	532	26th Feb. 1943	0530	1730	2330	
9. Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
10. Bamrauli	25°27′	81°44′	103	28th Feb. 1930	0530*	1730	1730*	2330
11. Bangalore	12°58′	77°35′	936	19th May 1915	0530	1730	2330	
12. Bareilly	28°22′	79°24′	181	12th Jan. 1943	0530	1730		
13. Begumpet	17°27	78°28′	543	1st Sep. 1929	0530	1730	2330	
14. Bhagalpur	25°14	86°57′	61	19th May 1950	0530	1730		
15. Bhubaneshwar	20°15′	85°50′	54	5th Dec. 1942	0530	1730	2330	
16. Bhuj	23°15′	69°48′	90	14th Sep. 1937	0530	1730	2330	
17. Bikaner	28°00′	73°18′	229	18th Oct. 1946	0530	1730	2330	
18. Chikalthana	19°51′	75°24′	583	7th Oct. 1951	0530	1730	2330	
19. Cochin†	09°56′	76°14′	13	16th Mar. 1942	0530	1730	2330	
20. Darjeeling	27°03′	88°16′	2115	21st May 1956	0530	1730		
21. Dehra Dun	30°19′	78°03′	692	1st Oct. 1958	0530	1730		
22. Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
23. Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
24. Gannavaram	16°32′	80°48′	32	8th Apr. 1942	0530	1730	2330	
25. Gauhati	26°05′	91°43′	55	12th Mar. 1955	0530*	1130	1730*	2330
26. Gaya	24°45′	84°57′	119	19th Mar. 1937	0530	1730	2330	
27. Gopalpur	19°16′	84°53′	24	15th Feb. 1946	0530	1730	2330	
28. Gorakhpur	26°45′	83°22	83	5th Jan. 1943	0530	1730		
29. Gwalior	26°14′	78°15′	208	7th May 1938	0530	1730	2330	
30. Imphal	24°51′	93°58′	805	8th Mar. 1952	0530	1730	2330	
31. Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
32. Jagdalpur	19°05′	82°02′	562	25th Mar. 1948	0530	1730	2330	
33. Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
34. Jamshedpur	22°49′	86°11′	144	23rd July 1942	0530	1730		
35. Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
36. Jodhpur	26°18′	73°01′	229	15th Oct. 1934	0530*	1130	1730*	2330
37. Madras	13°00′	80°11′	29	8th Apr. 1926	0530*	1130	1730*	2330
38. Minicoy	08°18′	73°00′	15	14th Apr. 1941	0530	1730	2330	
39. Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1730	2330	
40. Nagpur	21°06′	79°03′	316	23rd Apr. 1943	0530*	1130	1730*	2330
41. Nanpara	27°50′	81°30′	142	23rd Apr. 1957	0530	1730		
42. New Delhi	28°35′	77°12′	227	20th Oct. 1936	0530*	1130	1730*	2330
43. Poona	18°32′	73°51′	593	5th Jan. 1925	0530	1730	2330	
44. Port Blair	11°40′	92°43′	93	29th Oct. 1945	0530*	1130	1730*	2330
45. Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
46. Raxual	26°59′	84°51′	83	28th Oct. 1957	0530	1730		
47. Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
48. Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
49. Trivandrum	08°29′	76°57′	73	8th Dec. 1928	0530*	1130	1730*	2330
50. Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
51. Vengurla	15°52′	73°38′	8	22nd Nov. 1941	0530	1730	2330	
52. Veraval	20°54′	70°22′	17	13th Oct. 1941	0530	1730	2330	
53. Visakhapatnam	17°43′	83°14′	10	24th Sep. 1928	0530*	1130	1730*	2330

*Radiowind ascents.
†Naval Meteorological Office.

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2·0	1·7	117	30	2·2	1·6	156	30	2·6	2·1	137	26	2·3	1·5	245	30	3·1	2·5	235	30	3·4	2·7	225
0·15 a. g. .	29	5·7	4·9	130	29	4·2	3·2	168	29	6·2	5·6	157	26	7·1	6·1	252	29	4·1	3·3	248	29	5·8	4·7	227
0·3 a. m. s. l. .	29	7·5	6·4	146	29	5·0	3·9	170	29	7·1	6·6	164	26	7·0	6·1	252	29	4·5	3·7	249	29	5·3	4·1	235
0·6 ,, .	29	7·7	6·6	151	29	6·2	5·1	169	29	7·4	6·8	165	26	7·3	6·4	266	28	4·8	4·0	256	29	5·3	4·2	240
0·9 ,, .	28	6·9	5·9	151	27	6·4	5·4	165	29	6·8	6·2	164	26	7·2	5·3	261	20	5·0	4·1	253	28	5·2	4·4	251
1·5 ,, .	27	6·0	5·2	136	24	5·9	5·3	154	25	6·1	5·5	154	22	6·0	4·2	261	9	5·0	4·6	242	28	5·5	4·3	251
2·1 ,, .	24	6·0	5·2	133	20	6·0	5·3	146	22	5·9	5·0	149	22	5·2	2·6	257	3	5·8	5·8	250	26	5·3	3·2	262
3·0 ,, .	23	6·0	5·1	137	13	6·2	5·1	120	14	5·6	4·9	125	22	3·6	1·4	321					26	4·4	1·9	277
3·6 ,, .	17	5·7	4·4	133	9	4·7	3·8	120	7	5·2	4·4	110	21	4·1	1·8	346					25	4·2	1·2	302
4·5 ,, .	11	5·6	4·1	121	5	4·8	1·7	087	2	5·7	5.1	091	21	4·6	2·2	018					24	4·7	1·1	059
5·4 ,, .	8	6·0	5·1	105	3	6·5	4·3	067					21	5·7	3·6	038					24	5·6	1·7	042
6·0 ,, .	4	6·4	4·9	102	3	7·2	4·5	073					21	5.9	3·7	067					24	5·3	1·8	
7·2 ,, .	1	2·5	2·5	100	2	9.3	8·7	070					21	6·5	4·6	064					24	6·0	3·2	
9·0 ,, .													20	6·7	5·0	068					23	6·3	4·3	063

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	30	3·2	2·7	207	30	1·7	1·2	080	30	2·9	1·5	078	30	2·0	1·6	079	30	1·6	0·8	120	30	1·0	0·3	001
0·15 a. g. .	25	6·5	5·7	221	30	5·7	3·9	094	29	4·8	2·7	081	29	5·5	4·1	102	28	5·7	2·6	115	30	4·0	2·1	335
0·3 a. m. s. l. .	25	7·3	6·6	227	30	6·1	4·0	098	29	5·0	2·8	083	29	6·1	4·4	104	28	2·7	1·3	103	30	1·9	0·8	352
0·6 ,, .	24	7·5	6·6	241	30	7·2	4·3	106	29	5·3	3·1	091	29	7·5	4·7	106	28	6·0	1·7	139	30	4·1	1·9	338
0·9 ,, .	23	6·3	5·6	250	28	7·6	4·6	100	29	5·7	3·1	098	29	7·3	4·2	111	28	6·3	1.0	152	30	4·8	2·6	336
1·5 ,, .	19	4·6	3·1	258	24	6·1	3·2	090	27	6·5	2·9	113	30	7·5	4·0	107	28	6·4	1·1	008	29	5·9	3·0	318
2·1 ,, .	13	3·2	0·4	222	20	7·1	4·1	078	24	6·9	2·5	106	27	6·8	3·3	103	27	6·9	3·7	353	29	6·6	3·2	327
3·0 ,, .	10	3·4	2·2	079	15	6·7	4·0	100	21	6·3	1·4	074	20	5·3	2·6	090	24	6·3	3·4	356	26	5·8	2·7	351
3·6 ,, .	3	3·3	2·7	092	14	4·8	2·5	114	17	5·4	2·1	011	13	4·8	1·0	091	19	4·4	2·0	004	25	5·7	2·8	017
4·5 ,, .					8	3·6	2·7	106	14	6·4	3·2	338	4	4·5	2.1	014	12	4·6	3·6	330	19	7·3	4·1	345
5·4 ,, .					5	4·1	3·1	055	13	6·4	2·9	354	3	4·7	3·6	360	6	5·2	4·1	309	12	8·9	7·2	328
6·0 ,, .					4	5·1	3·9	028	8	5·2	2·9	357	3	5·3	4.2	351	4	5·7	4·6	327	10	9·5	5·5	333
7·2 ,, .					3	2·2	2·1	062	6	5·0	1·6	360	1	4·0	4·0	025	2	8·7	5·0	355	2	7·0	1·5	325
9·0 ,, .					1	3·5	3.5	025	2	5·0	1·2	185					2	8·0	3.1	261	1	7·0	7·0	140

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·3	0·4	113	30	4·0	3·9	264	30	6·3	5·9	277	30	6·2	6·2	271	30	1·1	0·9	100	30	1·6	1·0	112
0·15 a. g.	30	5·7	1·3	059	30	7·1	7·0	259	30	9·6	9·2	275	30	9·7	9·6	263	25	5·1	2·0	091	29	5·6	3·6	107
0·3 a. m. s. l.	30	2·4	0·4	071													25	5·3	1·9	103	29	5·7	3·6	110
0·6 „	30	5·6	0·9	061	30	8·1	8·1	261	30	9·3	9·0	271	30	10·1	10·1	263	23	6·8	2·7	115	29	6·8	4·7	113
0·9 „	30	5·8	0·7	013	30	11·3	11·1	266	30	10·0	9·7	271	30	11·8	11·7	264	20	6·9	2·8	101	27	7·4	4·8	115
1·5 „	30	6·6	1·6	309	28	11·7	11·4	277	30	9·5	9·3	275	30	9·2	8·9	276	17	4·8	2·4	079	21	5·8	4·0	118
2·1 „	29	6·9	2·8	331	26	9·7	9·3	280	28	9·4	9·2	276	30	7·5	6·7	279	13	4·6	1·9	045	18	5·4	3·7	113
3·0 „	24	4·6	1·7	345	21	7·6	7·3	280	21	9·0	8·7	279	25	7·1	6·7	280	10	4·7	2·3	068	14	5·0	3·6	117
3·6 „	9	5·2	2·6	343	18	7·3	6·9	290	18	8·6	8·3	279	21	6·5	6·2	279	10	3·6	2·1	045	11	5·0	2·8	090
4·5 „	1	2·0	2·0	355	14	6·9	6·6	280	11	7·2	6·8	278	13	5·8	5·2	272	9	5·4	3·0	069	10	5·9	3·3	082
5·4 „					13	5·5	4·8	267	7	4·9	4·4	286	9	3·2	2·6	269	6	4·7	3·4	077	4	3·9	2·4	022
6·0 „					11	3·9	3·1	258	6	4·8	3·3	316	6	2·6	0·8	265	6	4·5	3·0	077	2	4·3	2·5	070
7·2 „					5	4·6	1·6	185	3	3·2	1·8	045	4	5·6	2·3	110	4	3·7	3·1	074	2	6·0	3·9	089
9·0 „					2	7·0	6·3	095					1	5·0	5·0	110	3	2·7	2·3	052	1	16·0	16·0	060

Station	ASANSOL				BAGHDOGRA												BAIRAGARH							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·4	1·1	105	30	2·3	1·8	045	30	1·9	1·3	076	30	2·4	1·4	049	30	4·4	3·3	294	30	4·8	3·5	288
0·15 a. g.	30	5·5	3·5	111	25	4·3	4·0	069	29	3·1	2·2	074	26	4·7	4·1	082	18	7·5	6·0	280	24	6·7	4·5	287
0·3 a. m. s. l.	30	5·7	3·7	122	25	4·4	4·1	080	29	3·1	2·4	073	26	4·8	4·2	089								
0·6 „	28	6·4	4·1	134	25	5·0	4·7	096	29	3·7	3·1	085	26	5·1	4·5	092	18	6·7	5·3	277	24	5·7	3·9	285
0·9 „	25	6·2	4·0	134	24	5·3	4·9	093	29	4·3	3·6	096	24	5·1	4·7	096	11	10·2	8·2	279	23	7·6	5·6	296
1·5 „	22	4·7	2·8	130	21	5·3	4·9	088	25	5·5	4·3	107	19	4·4	4·0	097	3	7·3	5·4	331	15	6·6	4·7	292
2·1 „	19	4·6	2·9	114	16	7·3	6·2	095	21	6·1	5·1	108	18	5·5	4·8	103	3	6·0	4·6	005	11	5·2	4·3	336
3·0 „	15	4·3	2·4	113	13	8·1	6·9	099	15	5·9	3·7	083	14	5·7	4·8	105	2	7·3	7·2	035	7	5·6	4·6	344
3·6 „	12	3·7	2·1	101	12	8·2	3·9	106	10	4·9	2·2	125	5	3·0	1·8	176	2	7·3	6·7	055	4	5·6	4·2	353
4·5 „	8	3·6	2·5	084	7	5·3	2·8	084	6	5·2	1·7	140	2	1·5	1·3	230	1	3·5	3·5	015	1	6·0	6·0	060
5·4 „	6	3·7	3·5	074	5	3·5	1·0	283	3	7·5	1·3	203	2	3·0	3·0	268	1	5·5	5·4	045	1	7·5	7·5	055
6·0 „	3	5·0	4·8	089	5	2·6	0·5	288	2	9·0	8·9	096	2	3·7	3·7	272	1	6·0	6·0	040	1	8·0	8·0	060
7·2 „					2	3·0	1·6	339					1	7·0	3·5	260					1	8·0	8·0	120
9·0 „					2	6·5	6·3	074																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	BAIRAGARH				BAJPE												BAMRAULI							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·3	2·9	269	30	2·1	1·5	120	30	2·4	1·9	256	30	1·4	0·9	139	30	1·5	0·7	078	30	2·2	0·9	077
0·15 a. g.	20	8·0	6·2	267	22	3·3	2·3	148	30	4·5	4·0	252	26	3·9	2·7	225	29	5·2	1·4	091	30	4·7	2·5	079
0·3 a. m. s. l.					22	3.6	2·1	178	30	5·0	4·6	255	26	4·2	3·4	237	29	5·0	1·4	098	30	4·9	2·7	081
0·6 „	20	6·9	5·3	261	21	5·6	4·6	247	29	7·1	6·7	268	26	5·6	5·1	259	29	6·8	2·1	087	30	5·5	3·2	081
0·9 „	19	8·1	5·5	282	17	7·2	6·7	267	24	8·1	7·7	276	19	6·9	6 4	274	29	6·8	2·9	084	25	6·3	3·3	083
1·5 „	17	6·7	4·1	313	10	8·4	8·1	276	21	8·6	8·3	285	16	8·0	7·6	279	29	7·1	4·0	084	10	11·9	5 3	113
2·1 „	11	5·2	4·0	350	5	8·2	8·0	282	14	7·5	7·4	280	13	8·5	8·2	280	29	7·1	4·9	087	14	8·0	3·7	106
3·0 „	8	4·9	3·4	248	4	6·6	6·3	267	10	7·7	7·4	278	8	6·0	5·7	273	29	6·8	4·6	093	7	7·1	2·3	138
3·6 „	4	3·7	1·0	321	4	6·6	6·4	273	6	6.4	6.3	282	8	5·9	5·3	272	29	5·7	4·0	100	3	8·0	3·5	165
4·5 „					3	4·0	3·7	265	4	3.5	2·8	295	3	4·3	4·2	277	29	6·5	4 2	095	1	9·0	9·0	085
5·4 „									2	1.7	1·5	347	1	3·5	3·5	315	29	6·1	4·3	100	1	6·5	6·5	085
6·0 „																	29	6·5	4·4	096	1	5·5	5·5	090
7·2 „																	29	6·2	4·3	080	1	9.5	9.5	110
9·0 „																	29	6·2	5·1	080				

Station	BAMRAULI								BANGALORE												BAREILLY			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	29	1·8	1·7	079	30	1·2	0·7	081	30	2·8	2·5	262	30	3·5	3·0	280	30	3·5	3·1	266	30	1·6	1·3	081
0·15 a. g.	29	4·0	1·9	070	29	5·9	3·5	095	12	7·5	7·2	260	26	6·7	6·4	266	23	7·5	7·4	261	28	5·2	3·2	092
0·3 a. m. s. l.	29	4·0	1·9	070	29	6·3	4·0	098													28	4·8	3·2	088
0·6 „	29	5·0	2·8	079	28	6·4	4·4	099													27	5·9	2·9	116
0·9 „	29	5·5	2·9	089	27	6·7	4·2	103													26	6·1	3·0	108
1·5 „	29	6·3	2·9	111	22	6·1	3·1	103	12	11·0	10·8	275	26	8·0	7·7	265	23	11·0	10·9	271	26	6·4	3·5	059
2·1 „	29	7·3	3·6	103	16	5·8	2·1	118	10	11·0	10·8	280	26	8·5	8·3	273	22	8·6	8·3	277	25	7·0	2·6	086
3·0 „	29	6·6	3·4	101	8	4·9	2·4	043	10	8·1	7·8	283	20	7·3	7·0	280	20	6·6	6·1	279	23	5·9	2·9	096
3·6 „	29	6·2	3·7	104	2	3·0	3·0	050	10	6·9	6·6	279	18	5·5	5·3	284	16	5·8	5·3	287	18	4·2	2·2	099
4·5 „	29	6·1	3·4	100	1	2·0	2·0	010	10	5·7	5·0	274	15	5·2	4·8	283	12	4·9	4·6	278	12	4·1	2·6	090
5·4 „	29	5·8	3·0	083					8	4·3	3·3	240	11	4·3	3·8	285	6	3·7	2·4	283	11	4·7	0·5	085
6·0 „	29	6·0	3·0	085					8	3·7	2·5	258	9	3·0	1·8	275	3	2·7	1·7	325	11	4·9	0·1	350
7·2 „	29	5·5	3·2	065					5	2·3	1·6	048	10	4·9	2·0	120					5	5·1	2·3	302
9·0 „	29	5·8	4·2	076					4	7·3	6·7	097	8	7·0	6·8	107					1	6·0	6·0	270

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	BAREILLY				BEGUMPET												BHAGALPUR							
Time in I. S. T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·3	0·7	083	30	3·4	3·3	268	30	4·1	3·7	267	30	2·9	2·6	262	30	2·2	1·9	097	30	2·6	2·1	092
0·15 a. g.	30	3·2	1·3	090	26	8·9	8·8	265	30	7·9	7·1	271	30	7·8	7·3	268	28	5·0	4·0	104	30	5·4	4·4	099
0·3 a. m. s. l.	30	3·0	1·2	089													28	5·9	4·4	105	30	6·1	5·0	100
0·6 „	30	4.5	1.8	095	26	6·1	6·0	265	30	6·2	5·5	272	30	4·9	4·5	265	28	7·3	5·3	111	30	6·5	5·4	108
0·9 „	30	5.1	1·3	096	26	12.6	12·3	280	30	9·1	8·7	271	30	10·3	9·9	276	28	7·5	5·7	113	30	7·1	6·1	111
1·5 „	29	6·3	1·6	117	26	13·2	12·8	285	30	10·5	10·1	277	29	12·1	11·7	281	26	7·5	6·6	107	28	7·2	5·9	121
2·1 „	29	6·4	1·4	100	23	12·8	12·5	280	30	11·6	11·2	281	23	11·9	11·3	281	23	6·5	5·5	106	27	7·8	6·4	125
3·0 „	22	5·8	2·8	113	22	10·1	9·7	283	20	10·4	10·0	285	17	9·3	8·5	292	18	5·5	4·3	110	25	7·3	5·6	119
3·6 „	19	5·0	2·0	093	17	9·6	9·0	285	15	10·5	10·2	289	3	2·8	2·4	318	16	5·3	3·7	100	24	6·1	4·8	123
4·5 „	18	4·9	1·1	061	14	8·1	7·3	285	10	11·1	10·6	287					14	3·9	1·6	096	23	5·8	3·5	114
5·4 „	17	5·4	1·3	042	8	7·8	7·1	273	4	6·6	6·2	276					14	3·7	1·6	089	20	4·6	2·0	094
6·0 „	13	5·4	0·9	047	5	8·2	5·1	245	4	5·3	4·1	272					13	3·6	1·7	065	18	4·8	2·0	097
7·2 „	12	4.3	0.9	022					2	3·0	1·4	174					13	4.1	2·1	072	18	5·5	3·0	050
9·0 „	10	6·1	0·6	187					2	9·7	8·1	075					13	6·1	4·7	095	18	6·2	3·8	053

Station	BHUBANESHWAR												BHUJ											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·7	2·0	248	30	2·3	2·0	231	30	2·3	2·0	226	30	2·7	2·	233	30	5·1	4·4	236	30	2·9	2·7	234
0·15 a. g.	25	4·7	3·5	270	28	5·1	4.1	217	24	6·8	5·9	223	27	6·0	5·3	241	28	7·3	6·5	232	28	6·5	5·5	237
0·3 a. m. s. l.	25	6·4	4·8	273	28	5·5	4·1	227	24	7·2	6·4	233	27	6·9	6·0	243	28	7·6	6·5	235	28	6·8	5·8	241
0·6 „	25	7·2	6·0	279	28	5·7	4·2	246	24	7·0	6·0	241	27	7·6	6·4	247	28	7·4	6·1	243	28	7·3	5·8	246
0·9 „	25	7·2	6·1	282	27	6·3	5·0	262	24	7·0	5·9	253	27	7·1	5·4	243	26	6·8	5·3	236	28	6·0	3·9	244
1·5 „	19	6·7	5·3	281	24	5·5	4·6	286	22	6·5	5·7	271	22	5·5	2·7	230	19	4·8	3·0	230	26	4·7	1·9	226
2·1 „	17	6·6	5·4	273	19	5·0	3·6	283	18	5·4	0·4	267	17	4·7	1·3	156	15	4·7	2·7	175	24	4·4	0·6	132
3·0 „	11	5·5	3·9	267	16	5·2	3·6	277	11	4·7	2·2	264	11	4·5	2·7	096	7	5·3	4·1	221	19	4·4	1·9	087
3·6 „	5	4·9	1·3	350	3	3·7	3·5	200	5	2·6	1·1	215	2	3.5	2.1	068					7	5·4	4·9	065
4·5 „	1	3·5	3·5	165																	3	3·8	3·2	035
5·4 „	1	3·5	3·5	165																	1	4·0	4·0	005
6·0 „	1	2·0	2·0	095																				
7·2 „	1	6·0	6·0	115																				
9·0 „	1	7·5	7·5	095																				

TABLE IV.—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	BIKANER												CHIKALTHANA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·1	0·4	254	30	1·3	0·3	200	30	1.3	0·4	235	30	3·5	3·3	267	30	4·9	4·1	281	30	4·5	4·0	274
0·15 a.g.	30	6·7	3·5	259	30	4·3	1·2	236	30	7·3	4·3	231	27	7·5	7·2	264	27	8·4	7·4	277	29	7·7	6·8	272
0.3 a.m.s.l.	30	4·8	2·3	262	30	3·7	1·5	235	30	5·7	3·6	229												
0·6 "	30	8·7	4·6	275	30	4·7	0·3	237	30	7·0	3·2	235												
0·9 "	28	7·7	3·2	290	30	4·7	0·3	010	30	5·9	1·4	239	27	9·4	8·8	273	27	9·6	8·8	282	29	9·3	8·4	277
1·5 "	27	5·4	2.3	065	30	4·7	1.7	070	30	4·3	1·8	045	25	11·4	10·7	276	25	9·9	9·2	276	26	10·3	9·6	282
2·1 "	26	6·2	4·9	088	28	4·9	3·2	062	29	4·9	3·6	055	21	8·5	8·0	271	17	8·1	7·9	272	20	8·3	7·9	277
3·0 "	23	5·5	5·0	065	25	6·6	5·4	055	25	5·7	4·8	065	12	5·6	5·1	282	6	6·3	6·3	273	14	5·7	5·1	282
3·6 "	18	5·3	4·5	047	20	6.3	4·7	045	10	5·3	4·7	052	3	4·5	0·9	291	3	4·0	3·9	287	4	5·0	4·1	328
4·5 "	12	5.3	4.5	040	18	5·9	3·8	023	6	7·3	6.2	027					2	5·3	4·7	020				
5·4 "	5	3·9	2·7	032	15	5·8	3·7	019	3	7.3	6.6	043					1	6·5	6·5	020				
6·0 "	3	3·8	3·7	076	11	6·9	3·7	013	3	5.5	5.5	045												
7·2 "	2	6·3	6·3	093	1	4·5	4·5	355																
9·0 "	1	3·0	3·0	130																				

Station	COCHIN												DARJEELING								DEHRA DUN			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·8	0·6	047	30	2·7	2·1	292	30	0·8	0·2	293	30	0·0	0·0	000	30	0·2	0·1	138	30	0·7	0·6	027
0·15 a.g.	25	2·9	0·9	336	26	3·8	3·4	285	21	2·3	1·1	304	5	1·2	1·1	057	9	2·8	2·0	135	26	1·7	1·0	114
0·3 a.m.s.l.	25	3·4	1·9	309	26	4·6	4·1	290	21	2·6	2·0	301												
0·6 "	25	5·3	4·4	290	26	6·0	5·6	292	21	4·5	4·1	290												
0·9 "	25	6·2	5·4	285	26	7·2	6·8	292	21	5·4	5·1	291									26	1·7	1·2	131
1·5 "	21	6·6	6·2	289	24	6·9	6·6	294	20	5·9	5·6	240									23	2·2	0·8	163
2·1 "	18	7·1	6·8	283	22	6·8	6·4	292	19	6·0	5·7	285									15	2·2	0·8	110
3·0 "	14	7·0	6·3	278	19	7·3	6·8	280	15	6·9	6·3	280	5	4·9	4·2	091	8	3·3	2·8	094	9	3·1	0·8	021
3·6 "	8	5·9	5·4	272	12	5·3	4.8	271	12	6·2	5·5	282	4	5·1	4·9	107	7	5·7	5·4	100	6	2·7	2·4	308
4·5 "	3	7·0	6·7	290	7	3·7	3·3	295	4	3·3	2·0	310	4	3·7	3·4	117	5	4·9	2·6	085	4	4·9	3·9	320
5·4 "	1	2·5	2·5	255	4	4·3	0·9	057	2	1·7	1·7	129	3	2·2	0·5	241	3	4·3	2·5	076	1	1·5	1·5	340
6.0 "	1	2·5	2·5	095	2	3·5	2·7	101					3	3·5	1·2	086	2	3·3	0·5	277				
7.2 "					2	5·5	5·4	005					3	4·5	3·0	045	1	5·5	5·5	090				
9·0 "					1	3·5	3·5	075					2	5·7	5·2	052								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	DEHRA DUN				DUM DUM																GADAG			
Time in I.S.T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·0	0·3	298	30	1·8	1·2	113	30	2·9	1·7	118	30	1·9	1·1	180	30	1·9	1·5	125	30	4·2	3·9	247
0·15 a. g.	28	2·1	0.8	303	30	5.3	2·4	118	28	5·0	3·8	123	30	5·3	3·0	156	29	5·6	3·6	150	30	8·8	8·7	248
0·3 a. m. s. l.					30	5·9	2·6	120	28	5·1	3·1	122	30	5·8	3·8	155	29	6·3	4·9	163				
0·6 ,,					30	6·5	2·1	152	26	5·7	3·2	120	30	6·4	3·8	144	27	7·0	4·3	163				
0·9 ,,	28	2·2	1·0	297	30	6·3	2·8	138	23	5·9	3·5	128	30	6·3	4·3	144	24	6·1	3·5	165	30	10·7	10·4	259
1·5 ,,	26	2·8	1·8	274	30	6·3	3·3	128	13	6·3	2·0	106	30	6·1	3·8	133	24	6·1	3·6	152	20	12·3	12·1	273
2·1 ,,	21	2·9	1·4	261	30	6·7	4·0	126	7	4·3	1·7	128	30	6·4	4·7	130	18	6·0	3·9	140	10	10·7	10·3	279
3·0 ,,	17	2·6	0·3	264	30	7·2	4·7	132	5	4·5	2·4	135	30	6·9	4·5	127	10	6·8	4·2	118	7	7·6	7·2	293
3·6 ,,	13	2·7	0·5	084	30	7·1	4·9	134	5	5·3	3·2	141	30	6·4	4·0	125	4	7·9	6·9	086	6	7·5	7·3	290
4·5 ,,	10	3·4	0·6	351	29	7·4	5·0	124					30	6·9	4·6	111	1	19·0	19·0	085	3	4·3	4·2	319
5·4 ,,	4	4·6	1·8	194	29	6·9	5·3	116					30	6·9	4·5	098	1	18·0	18·0	105	1	3·5	3·5	360
6·0 ,,	4	3·6	0·5	212	29	6·9	5·3	106					30	6·5	4·3	090	1	23·5	23·5	100	1	1·5	1·5	330
7·2 ,,	3	6·2	2·8	292	29	7·5	5·4	097					29	6·6	4·2	086	1	24·5	24·5	100	1	3·5	3·5	055
9·0 ,,					28	6·4	5·6	101					29	7·3	3·5	097	1	25·0	25.0	085				

Station	GADAG								GANNAVARAM												GAUHATI			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	5·8	5·5	261	30	4·9	4·6	257	30	2·5	2·2	250	30	3·6	3·0	284	30	2·4	1·4	216	30	0·3	0·2	067
0·15 a. g.	28	9·9	9·7	258	30	9·7	9·6	253	28	7·0	6·4	254	30	5·8	5·4	281	28	6·6	4·8	225	28	2·4	0·7	080
0·3 a. m.s. l.									28	8·9	8·4	263	30	6·3	6·1	280	28	6·8	5·2	242	28	2·4	0·8	077
0·6 ,,									28	11·1	10·6	273	30	7·8	7·6	281	28	7·3	6·2	263	28	2·8	1·5	070
0·9 ,,	28	11·1	10·9	260	30	11·2	11·0	261	28	12·0	11·6	284	30	8·9	8·7	282	28	8·9	8·2	271	28	3·3	2·1	073
1·5 ,,	25	12·6	12·3	268	26	13·1	12·8	271	27	11·3	11·0	289	28	11·0	10·8	284	28	11·2	10·8	280	28	3·7	2·2	100
2·1 ,,	15	11·4	10·8	274	22	10·3	9·9	277	24	10·3	9·7	281	28	12·2	12·0	284	27	12·4	12·1	283	28	4·4	2·2	113
3·0 ,,	6	9·8	9·5	275	15	7·8	7·5	283	23	9.8	9.3	281	28	11·8	11·6	281	24	10·9	10·8	284	28	4·8	2·6	114
3·6 ,,	4	8·6	8·4	271	7	5·6	5·3	292	12	8.8	8.5	281	21	10·8	10·4	279	11	8·1	7·8	297	27	5·1	2·9	129
4·5 ,,	2	8·5	8·5	271	3	2·8	2·1	322	5	4.4	3.6	287	13	10·7	10·5	274	4	3·5	3·1	330	27	4·6	2·1	133
5·4 ,,	1	1·5	1·5	315	2	3.0	3·0	345	2	1.5	0.9	360	9	8·4	8·1	279	3	3·3	3·2	009	27	4·1	1·1	148
6·0 ,,	1	2·5	2·5	055	2	5.0	4.3	341	2	2.7	1.3	105	7	6·3	4·7	286	1	2·0	2·0	295	27	3·9	1·4	149
7·2 ,,	1	7.0	7.0	100					1	3.0	3.0	075	3	5·2	1·4	066					23	4·4	2·2	104
9·0 ,,													2	9·5	9·4	086					21	5.5	2.3	104

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	GAUHATI												GAYA											
Time in I.S.T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·1	1·4	023	30	0·7	0·3	089	30	0·7	0·1	118	30	2·2	1·3	102	30	3·7	3·0	084	30	2·7	1·8	097
0·15 a. g.	29	3·3	2·2	037	30	2·7	0·9	116	30	2·2	0·7	102	30	4·8	2·3	103	29	5·6	4·2	080	29	5·4	3·7	107
0·3 a. m. s. l.	29	3·3	2·4	047	30	2·8	0·9	118	30	2·3	0·5	074	30	5·2	2·5	107	29	5·8	4·3	080	29	5·6	3·8	107
0·6 ,,	28	4·0	2·9	066	30	3·5	1·2	096	29	3·0	1·2	066	30	6·0	3·0	112	29	6·7	4·8	089	28	5·8	4·1	115
0·9 ,,	28	4·1	3·3	081	30	3·4	1·5	090	29	2·8	1·3	078	27	6·4	3·7	113	29	6·7	4·6	098	26	6·1	3·9	120
1·5 ,,	25	4·2	3·9	106	30	3·6	1·3	114	29	3·2	1·5	120	25	6·2	3·9	096	27	6·6	3·9	113	19	5·5	2·8	116
2·1 ,,	24	5·0	3·7	116	30	3·8	2·4	146	27	3·4	1·8	145	19	6·5	3·7	093	18	5·6	2·5	125	13	4·3	1·9	141
3·0 ,,	21	4·8	3·5	116	28	3·8	2·4	121	19	4·6	3·3	126	14	4·6	2·1	103	8	4·3	1·7	118	10	3·3	1·4	155
3·[illegible] ,,	19	4·3	2·7	108	28	3·7	2·4	115	12	5·3	3·1	131	6	4·4	1·3	145	6	4·0	0·5	040	2	2·5	1·9	228
4·5 ,,	18	4·2	2·5	105	28	4·2	2·7	122	6	4·7	2·5	185	4	3·0	2·4	349	3	2·7	2·5	345				
5·4 ,,	13	4·2	1·6	145	27	4·3	1·7	117	3	3·3	2·4	242	3	3·3	2·7	325	3	3·3	3·0	341				
6·0 ,,	7	3·7	2·5	119	27	4·0	1·4	113	2	4·0	3·9	240	3	3·8	2·4	100	2	3·5	3·5	005				
7·2 ,,	6	4·8	4·2	085	27	5·0	1·9	077					1	1·5	1·5	075								
9·0 ,,	4	4·4	2·0	058	25	6·3	3·0	041																

Station	GOPALPUR												GORAKHPUR								GWALIOR			
Time in I.S.T.	0530				1730				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·0	1·7	231	30	5·7	5·5	208	30	3·3	2·3	227	30	1·6	1·4	068	30	1·3	0·7	083	30	1·2	0·1	273
0·15 a. g.	28	5·4	4·3	234	27	7·7	7·4	213	27	6·4	4·8	243	30	5·5	4·8	080	30	4·3	2·6	102	28	5·4	0·6	339
0·3 a. m. s. l.	28	5·5	4·8	246	27	7·0	6·3	219	27	6·3	5·2	240	30	6·2	5·5	093	30	4·7	3·3	104	28	4·2	0·4	340
0·6 ,,	28	5·5	4·8	263	27	5·2	4·1	247	27	5·9	5·0	257	29	7·2	6·8	108	30	5·2	4·3	104	27	7·0	0·8	043
0·9 ,,	28	6·6	6·1	277	26	5·3	4·8	275	26	5·5	4·9	267	27	7·3	6·5	110	29	5·9	4·6	104	26	6·8	1·6	040
1·5 ,,	24	8·7	7·9	286	26	7·9	7·6	283	25	6·8	6·5	283	25	8·0	6·9	102	29	7·1	5·0	110	21	5·8	2·9	039
2·1 ,,	19	6·5	5·9	272	18	6·7	6·2	288	24	6·0	5·5	277	25	7·8	6·2	102	27	7·1	5·4	111	17	5·9	3·7	040
3·0 ,,	13	7·4	6·4	266	15	7·1	6·7	266	13	5·8	5·2	272	19	6·9	6·1	095	27	6·5	4·5	110	14	4·7	3·1	057
3·[illegible] ,,	6	5·9	5·1	270	10	6·8	6·1	268	5	4·2	2·9	276	14	5·0	3·5	099	26	5·7	3·5	101	13	4·1	2·5	056
4.5 ,,	2	3·3	2·1	047	8	7·3	6·5	270					10	4·1	1·7	067	19	4·8	1·9	097	13	4·6	1·8	051
5·4 ,,					5	5·0	4·8	234					6	3·3	0·3	087	15	4·9	1·2	073	12	4·4	2·6	053
6·0 ,,					3	5·3	5·2	240					5	2·6	1·0	309	14	4·9	1·4	037	11	5·1	2·9	048
7·2 ,,					1	4·5	4·5	070					2	4·0	3·9	035	10	4·3	1·9	028	9	4·8	2·6	063
9·0 ,,					1	6·5	6·5	075					1	3·0	3·0	225	6	4·4	2·4	039	8	5·9	1·5	103

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

tation	GWALIOR								IMPHAL												JABALPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·8	0·4	258	30	1·1	0·5	185	30	0·7	0·4	070	30	1·2	0·3	149	30	0·8	0·4	038	30	1·9	1·0	248
0·15 a. g.	27	5·8	1·0	360	29	5·3	0·2	137	26	1·7	1·2	054	30	2·4	1·1	153	29	2·0	0·6	058	25	6·7	2·2	256
0·3 a. m. s. l.	27	4·8	0·9	332	29	4·3	0·3	217																
0·6 ,,	27	6·2	0·9	043	29	5·9	1·0	114													25	7·0	2·4	262
0·9 ,,	26	6·2	1·5	050	27	5·5	0·9	089	26	1·7	1·3	046	30	2·4	0·8	155	29	2·0	0·6	037	23	9·3	3·3	285
1·5 ,,	25	6.5	2·1	070	25	5·3	1·9	063	24	3·0	2·3	104	30	3.0	2·5	132	28	2·7	2·0	113	8	7·7	4·2	286
2·1 ,,	20	6·2	3·3	066	23	5·4	2·7	056	18	4·3	2·7	128	28	3·6	2·8	126	22	4·2	3·1	145	7	6·4	3·2	263
3·0 ,,	12	5·4	2·5	026	15	4·3	2·8	020	7	4·7	3·8	128	22	4·4	3·0	136	18	4·9	4·0	150	3	5·8	3·1	316
3·6 ,,	12	5·3	2·6	015	13	4·0	2·9	034	4	5·4	5·0	137	15	5·0	3·7	124	16	4·3	3·2	138	2	6·0	2·6	321
4·5 ,,	12	5·0	3·9	031	3	5·8	4·8	015	3	5·3	3·6	119	10	4·1	1·8	125	4	3·9	3·7	116	2	5·5	1·9	334
5·4 ,,	10	5·9	4·6	028					3	3·7	0·4	090	8	5·0	1·6	098	2	7·5	7·5	092	2	6·7	3·9	090
6·0 ,,	10	5·3	4·2	034					1	5·5	5·5	085	7	5·2	1·7	096	2	6·0	5·7	078	1	4·5	4·5	190
7·2 ,,	7	5·9	4·0	018					1	6·5	6·5	085	5	4·0	2·7	063								
9·0 ,,	6	6·6	1·6	044					1	14·0	14·0	065	5	6·0	4·2	030								

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·0	1·2	247	30	1·6	0·6	214	30	1·1	0·9	234	30	1·5	1·2	247	30	1·1	0·8	241	30	1·5	0·7	021
0·15 a. g.	29	5·8	3·3	257	29	6·1	2·7	242	28	6.4	5·7	240	27	6·6	6·0	250	27	5·7	5·1	246	28	5·6	3·2	327
0·3 a. m. s. l.																								
0·6 ,,	29	6·2	3·5	260	29	6·4	2·9	247	28	3·5	2·9	238	27	3·9	3·4	251	27	3·6	3·1	238	27	6·1	3·6	329
0·9 ,,	27	6·7	3·8	282	26	7·5	2·1	252	28	8·4	7·8	264	27	7·4	7·1	255	27	7·7	7·0	262	25	6·3	4·3	333
1·5 ,,	15	7·5	3·6	328	21	7·3	2·3	296	18	11·6	10·9	285	20	9·3	9·1	264	25	10·0	9·3	281	22	4·9	2·8	004
2·1 ,,	11	8·0	5·5	355	16	6·4	2·1	339	8	8·6	8·3	288	8	9·1	8·9	277	19	9·8	9·2	283	19	5·8	3·8	042
3·0 ,,	8	7·0	3·2	323	10	4·8	2·3	322	5	7·7	6·9	285	4	8·7	8·6	281	14	7·9	7·3	295	17	6·2	4·4	059
3·6 ,,	3	4·3	4·3	357	4	4·5	4·4	035	3	6·8	5·7	310	4	8·6	8·5	295	6	5.9	4·9	300	10	3·7	3·2	046
4·5 ,,	1	4·0	4·0	035	1	4·0	4·0	035	1	3·0	3·0	320	1	3·0	3·0	345	1	5·0	5·0	290	4	5·1	4·9	022
5·4 ,,									1	6·0	6·0	005	1	3·5	3·5	320					2	4·5	3·3	048
6·0 ,,									1	6·5	6·5	360	1	6·0	6·0	020					2	3·2	1·3	018
7·2 ,,																					1	2·0	2·0	035
9·0 ,,																					1	2·5	2·5	360

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	JAIPUR								JAMSHEDPUR								JHARSUGUDA							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·2	0·5	056	30	1·3	1·5	061	30	1·9	0·9	025	30	2·6	0·8	079	30	2·1	1·3	214	30	2·5	2·2	238
0·15 a. g.	25	4·0	0·8	018	29	5·0	2·2	085	27	3·4	0·3	292	28	4·6	2·3	093	21	5·2	3·4	226	22	4·7	4·1	237
0·3 a. m. s. l.									27	3·5	0·5	265	28	4·6	2·3	106	21	4·1	2·8	223	22	4·8	4·1	237
0·5 ,,	25	4·2	1·1	017	29	4·9	0·7	269	27	5·1	1·3	282	28	4·9	2·4	124	21	7·0	4·9	260	22	5·1	4·1	247
0·9 ,,	25	4·5	1·8	027	28	5·2	0·9	359	24	5·4	1·6	287	26	4·9	1·7	140	20	7·3	4·9	268	21	5·5	4·3	252
1·5 ,,	22	6·2	2·8	025	28	4·8	1·7	028	14	4·2	1·2	239	22	5·4	1.4	166	15	7·2	5·2	289	18	5·3	4·2	262
2·1 ,,	19	5·3	2·9	025	23	4·9	2·5	025	11	3·8	0·6	005	15	3·6	0·5	224	9	5·8	2·8	282	15	5·1	2·9	253
3·0 ,,	16	5·6	4·3	016	20	5·2	3·0	029	8	3·8	0·5	091	12	3·5	1·6	076	5	3·0	1·2	221	10	4·0	0·1	027
3·6 ,,	7	6·1	3·8	016	14	5·5	3·3	057	6	2·8	1·3	049	8	3·1	1·7	069	3	3·2	1·1	302	7	3·2	1·1	008
4·5 ,,	5	6·2	4·2	002	3	4·7	2·3	033	4	3·6	2·6	048	6	2·6	0·9	095	1	7·5	7·5	010	2	5.5	5.3	051
5·4 ,,	3	7.0	6.3	013	2	5·3	5·3	038	3	4·8	3·1	066	3	4·7	2·3	130								
6·0 ,,	2	9.5	7.6	005	1	6·0	6·0	035	2	5·5	5·0	108	2	3·0	2·9	050								
7·2 ,,	2	6.3	5.1	342	1	5.5	5.5	025	1	3·5	3·5	070	1	5·0	5·0	030								
9·0 ,,	1	10.5	10.5	325																				

Station	JHARSUGUDA				JODHPUR																MADRAS			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·1	1·5	222	26	1·7	0·8	260	30	2·7	1·4	241	26	2·4	1·0	240	30	2·9	2·2	242	30	3·3	2·8	248
0·15 a. g.	27	5·3	4·3	236	26	5·2	3·6	279	26	4·4	3·0	261	26	4·7	2·2	270	28	8·3	6·3	240	30	8·7	8·0	256
0·3 a. m. s. l.	27	4·5	3·6	223	26	4·8	3·9	270	26	4·0	2.6	267	26	4·0	2·1	257	28	6·6	5·2	245	30	9·1	8·3	261
0·6 ,,	26	6·8	5·9	249	25	6·0	4·2	272	26	4.0	2·3	259	26	3·7	2·1	250	28	8·2	5·7	243	30	9·9	9·3	269
0·9 ,,	21	6·6	5·9	256	24	4·9	2·5	275	26	4·4	1·9	272	26	3·3	1·6	256	27	6·9	4·4	257	30	10·3	9·9	279
1·5 ,,	18	5·8	4·7	265	24	4·7	1·4	293	15	3·7	0·1	037	26	4·3	1·0	285	26	4·5	0·5	289	30	8·9	8·6	285
2·1 ,,	12	4·9	2·0	288	23	5·2	2·9	076	8	4·4	2·8	084	26	4·7	1·5	035	23	4·2	1·8	063	30	7·0	6·3	284
3·0 ,,	7	2·8	1·7	358	23	6·0	4·2	047	5	4·9	1·0	076	24	4·5	2·7	042	21	5·1	3·9	059	30	7·1	6·5	278
3·6 ,,	6	3·2	1·8	010	23	5·3	4·5	034	4	4·6	3·5	062	24	4·5	3·0	051	11	6·1	3·6	046	30	6·9	6·5	278
4·5 ,,					22	5·5	4·3	060	3	4·8	4·7	048	24	5·6	4·1	045	2	5·7	4·5	053	30	6·3	5·0	275
5·4 ,,					22	5·7	5.3	049	3	7·7	7·6	059	24	5·6	3·8	053	2	8·3	7·9	055	30	5·2	3·5	279
6·0 ,,					22	6·0	4·4	045	2	7·3	7·1	040	24	5·5	3·7	050	2	9·7	9·1	061	30	4·0	1·5	259
7·2 ,,					22	7·1	4·1	048	1	5·5	5·5	040	23	4·8	3·0	050					30	4·0	1·7	097
9·0 ,,					19	6·3	3·0	043					22	6.1	3.6	047					29	8·4	7·5	095

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	MADRAS												MINICOY											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·0	3·7	268	30	3·3	2·2	161	30	3·7	3.5	183	30	2·3	2·1	269	30	3·0	2·6	272	30	2·6	2·3	269
0·15 a. g.	30	5·2	4·9	269	30	6·2	4·1	176	26	7·9	7 5	194	28	4·6	3·9	274	29	5·0	4·3	267	29	4·4	3·7	267
0·3 a. m.s. l.	30	5·7	5·5	268	30	5·5	4·1	203	26	9·0	8·7	201	28	4·8	4·1	274	29	5·1	4·5	271	29	4 5	3.9	268
0·6 ,,	30	7·0	6·7	275	30	4·3	3·5	236	27	9·0	8·4	213	28	5·9	5·1	274	29	6·3	5·8	275	29	5·7	5·1	274
0 9 ,,	30	8·5	8·2	282	30	5·3	4·5	257	27	8·1	7·3	228	28	6·6	5·8	281	29	7·5	6·9	280	28	6·3	5·7	278
1·5 ,,	30	9·7	9·2	278	30	8·3	8·0	279	27	7·8	6·9	260	27	7·0	6·4	283	28	7·9	7·4	284	28	6·6	5·9	282
2·1 ,,	30	8·4	7·8	273	30	9·1	8·7	283	26	7·5	6·9	281	27	7·3	6·7	285	25	8·2	7·7	283	27	6·8	6·3	283
3·0 ,,	28	7·9	7·5	273	30	9·0	8·6	283	21	7·1	6·6	286	25	7·2	6·7	276	23	7·2	6·9	278	21	5·8	5·6	275
3·6 ,,	27	8·1	7·8	273	30	7·3	6·9	283	12	6·6	6.0	278	24	6·5	5·7	269	20	6·2	5·6	274	13	4·6	3·7	258
4·5 ,,	22	5.8	5·0	266	30	6·2	5·4	278	5	5.7	5.4	276	22	4·7	3·4	275	18	4 7	3.7	287	5	3·1	1·0	091
5.4 ,,	17	4.6	3.3	255	29	5·2	4·0	274	3	6.8	4.8	271	13	4·3	0·3	117	16	4 6	1.9	314				
6·0 ,,	16	4.2	2.2	246	29	4·2	2·7	281	3	7.3	5.3	279	8	5·1	0·2	084	14	4.7	0.5	040				
7·2 ,,	12	5.9	2.8	107	28	4·6	1·2	275					4	10·4	10·3	089	12	7.8	3.0	087				
9·0 ,,	4	11 5	11.5	095	26	7.1	5.3	093					4	10·6	10·3	086	8	11.4	11.0	080				

Station	MOHANBARI												NAGPUR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·4	040	30	0·5	0 4	038	30	1·0	0·7	035	29	2·6	2·0	252	30	4·8	4 2	274	28	3·7	3·3	256
0·15 a. g.	24	4·4	2·0	044	30	1·9	0·4	080	29	2·7	1·1	008	29	8·0	6·7	264	26	6·7	6·0	268	28	7·0	6·3	263
0·3 a. m.s. l.	24	4.3	2·1	044	30	2.0	0·5	075	29	2.5	0·9	013												
0·6 ,,	24	4·3	2·5	051	30	2·3	1·1	065	29	2·4	1·2	046	29	9·4	8·0	270	26	7·1	6·3	271	28	7·2	6·6	263
0·9 ,,	24	3·9	2·4	053	30	2·5	1·2	069	29	2·5	1·2	070	29	10.8	9·0	281	23	8·0	6·9	283	28	8·0	7·4	273
1·5 ,,	18	2·6	1·5	083	29	2·1	0·9	172	29	2·2	0·7	104	29	9·8	8·5	287	5	5·9	5·2	315	28	9·1	8·5	284
2·1 ,,	17	2·6	0·9	106	29	2·9	2·3	188	26	2·3	1·2	205	29	9·0	7·4	287	1	5·5	5·5	300	28	8·9	8·0	284
3·0 ,,	13	3·4	1·7	179	28	2·7	1·5	188	23	3·2	2·2	200	29	7·2	4·9	291	1	2·0	2·0	330	28	7·5	5·9	287
3·6 ,,	9	3·4	1·7	192	22	2·8	0·9	182	16	3·8	2·9	189	29	6·7	4·3	299	1	7·5	7·6	050	28	7·2	4·9	293
4·5 ,,	5	2·7	1·6	253	22	3·8	0·8	155	1	5·5	5·5	110	29	5·7	2·6	306	1	9·5	9·5	040	28	5·9	3·4	310
5·4 ,,	1	2·0	1·9	230	19	4·2	0·3	166					29	5·9	1·6	342	1	11·6	11·6	025	28	5·6	2·3	330
6·0 ,,	1	3·5	3·4	210	19	4·2	0·3	037					29	5·9	1·6	025	1	8·0	8·0	045	28	5·4	1·8	336
7·2 ,,	1	7·0	6.9	235	10	4·5	0·7	353					29	6·2	2·7	061					28	5·4	1·3	045
9·0 ,,					1	6·0	6·0	260					28	6·5	4·2	084					28	6·1	4·2	076

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	NAGPUR				NANPARA								NEW DELHI											
Time in I. S. T.	2330				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	2·6	2·0	261	30	1·0	0·8	082	30	1·4	0·9	077	30	2·0	0·1	072	30	2·7	0·6	123	30	2·2	0·7	084
0·15 a. g.	26	7·2	5·7	267	30	5·7	4·1	108	30	3·6	2·3	112	30	5·9	0·7	165	29	4·9	1·2	117	30	4·7	1·6	069
0·3 a. m. s. l.					30	5·8	4·6	118	30	3·7	2·5	114	30	4·6	0·5	125	29	4·7	1·2	099	30	3·0	0·9	075
0·6 "	26	8·3	6·9	279	29	7·9	6·6	122	30	4·4	3·2	122	30	5·9	0·7	135	29	5·2	1·9	108	30	4·5	1·5	081
0·9 "	25	9·1	7·6	285	29	7·6	6·4	119	30	4·8	3·4	125	30	5·9	0·7	089	28	5·6	2·2	108	30	4·8	1·6	081
1·5 "	23	8·2	6·9	281	27	6·9	5·3	108	27	5·5	3·0	124	30	6·5	2·3	062	22	6·7	1·6	042	30	5·4	1·3	057
2·1 "	21	7·5	6·3	279	24	7·1	4·0	105	27	6·1	3·4	125	30	7·4	2·5	042	17	6·9	3·1	011	30	6·2	1·9	044
3·0 "	15	6·0	4·4	298	22	5·8	3·8	117	27	5·4	3·4	111	29	6·6	3·4	058	12	6·3	3·7	002	30	6·2	1·9	055
3·6 "	4	3·9	2·4	317	16	5·4	4·7	119	27	4·8	3·1	115	29	5·6	3·0	076	10	5·3	3·3	011	30	5·2	1·9	067
4·5 "	2	3·5	3·5	030	10	3·9	1·8	107	26	3·8	1·8	104	28	5·3	2·2	074	7	5·1	3·8	356	30	5·0	2·1	048
5·4 "	2	3·5	3·5	031	8	3·7	1·3	084	25	4·4	1·3	086	28	4·9	2·0	076	6	7·8	6·1	347	30	5·2	1·9	016
6·0 "					8	4·0	1·2	039	24	3·9	0·6	131	28	4·9	2·3	065	5	6·9	5·3	349	30	5·5	1·9	002
7·2 "					7	4·8	2·2	030	17	4·3	0·6	128	28	4·4	1·9	075	4	5·3	2·7	020	30	5·3	1·6	012
9·0 "					5	6·5	2·6	324	14	3·9	1·2	026	27	5·7	0·8	057	3	6·7	3·5	340	30	6·2	1·2	261

Station	NEW DELHI				POONA												PORT BLAIR							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface.	30	1·2	0·5	163	30	1·4	1·3	258	30	3·2	2·8	256	30	1·5	1·4	254	30	3·5	3·1	243	30	5·9	5·6	236
0·15 a. g.	30	5·6	2·7	138	30	5·7	5·6	254	29	8·0	7·7	255	30	6·1	6·0	254	29	9·2	8·2	242	26	9·4	9·2	248
0·3 a. m. s. l.	30	4·5	2·0	139													29	9·2	8·4	241	26	9·9	9·8	239
0·6 "	30	5·9	2·7	143	30	2·9	2·7	258	29	5·2	5·0	257	30	3·1	3·0	254	29	10·6	10·5	247	25	11·6	10·9	246
0·9 "	30	5·7	2·1	140	30	7·8	7·5	257	29	8·8	8·6	258	30	8·1	8·0	258	28	12·8	12·6	251	23	12·3	11·1	249
1·5 "	29	6·6	1·5	085	22	11·3	11·1	262	26	11·8	11·6	258	19	10·9	10·8	265	28	11·6	11·3	259	14	10·6	10·4	257
2·1 "	26	6·5	1·7	002	12	9·7	9·2	263	12	11·6	11·3	263	13	8·7	7·7	270	27	9·8	9·5	259	4	7·8	7·7	269
3·0 "	23	6·2	2·9	359	6	3·2	2·6	305	4	5·3	5·2	275	9	2·3	1·6	293	27	10·9	10·4	266				
3.6 "	3	3·8	1·0	326	5	3·5	3·0	310	2	7·5	7·5	280	7	2·9	1·7	303	24	9·9	9·2	274				
4·5 "					2	2·7	2·7	006	1	3·0	3·0	335	4	2·9	0·9	020	24	8·3	7·2	273				
5·4 "									1	1·0	1·0	080	2	2·0	1·9	020	23	7·8	5·2	272				
6·0 "									1	2·5	2·5	090	2	1·5	1·1	050	23	5·3	2·4	241				
7·2 "									1	5·0	5·0	110					22	6·6	2·7	110				
9·0 "									1	7·5	7·5	045					18	9·8	8·7	078				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	PORT BLAIR								RAIPUR												RAXAUL			
Time in I.S.T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·7	4·5	230	30	4·6	4·4	232	30	2·5	2·2	230	30	3·1	2·7	238	30	3·1	2·9	236	30	1·0	0·9	087
0·15 a. g.	30	9·5	9·4	241	26	8·5	8·3	237	22	7·5	6·5	236	22	7·0	6·6	240	24	8·5	8·1	238	29	6·2	5·9	093
0·3 a. m. s. l.	30	9·5	9·4	242	26	9·4	9·2	238													29	6·7	6·3	101
0·6 „	29	11·6	11·4	247	25	11·4	11·2	243	22	8·7	7·4	260	22	7·7	6·9	251	24	9·1	8·7	252	29	7·4	7·0	108
0·9 „	29	13·5	12·5	252	21	11·4	11·2	251	20	9·8	8·1	267	22	8·2	7·5	259	24	9·0	8·8	262	27	7·4	6·8	107
1·5 „	29	13·1	11·1	263	18	8·6	8·4	260	14	8·9	7·0	285	17	7·7	7·1	275	19	6·6	5·5	281	25	6·6	5·9	100
2·1 „	30	11·4	10·9	265	11	6·5	6·1	265	9	8·8	6·4	274	12	7·5	7·3	278	14	6·9	4·9	300	22	6·0	5·0	098
3·0 „	28	9·7	9·0	268	5	5·0	4·2	233	7	7·9	4·7	276	5	5·0	5·0	280	10	5·2	3·2	324	19	5·1	4·1	101
3·6 „	28	8·5	7·5	265	2	5·7	2·8	158	6	6·7	3·9	261	4	3·0	2·3	304	6	3·7	0·9	019	14	4·9	3·5	100
4·5 „	27	7·0	5·2	265	1	6·0	6·0	165	2	9·3	8·1	267	3	3·5	2·5	055	1	3·5	3·5	010	10	4·0	1·8	062
5·4 „	25	5·3	3·3	264	1	3·0	3·0	120					2	5·0	4·6	041					7	3·8	1·1	051
6·0 „	25	5·5	1·5	210	1	5·5	5·5	085					2	6·0	6·0	024					5	4·4	1·1	113
7·2 „	25	7·5	4·6	088									2	4·5	4·2	037					3	3·3	1·2	071
9·0 „	22	11·1	5·0	044									1	4·5	4·5	070					1	0·5	0·5	315

Station	RAXAUL				SANTA CRUZ																TIRUCHIRAPALLI			
Time in I. S.T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·9	0·7	089	30	4·0	3·5	241	30	4·5	4·0	234	30	5·3	5·0	247	30	3·7	3·2	229	30	3·7	3·6	269
0·15 a. g.	29	5·1	3·4	087	30	6·9	6·2	240	30	6·7	6·5	232	30	7·7	7·5	253	30	5·9	5·5	235	30	8·6	8·4	269
0·3 a. m. s. l.	29	5·0	3·5	095	30	6·8	6·4	240	30	7·7	7·4	234	30	7·5	7·1	252	30	6·4	6·1	239	30	10·1	10·0	271
0·6 „	29	5·2	4·3	105	30	7·5	7·2	240	30	8·8	8·5	236	30	7·8	7·4	247	28	7·0	6·8	242	30	13·6	13·5	275
0·9 „	29	6·0	5·3	104	30	7·8	7·5	245	26	9·6	9·3	239	30	8·8	8·5	251	24	7·5	7·3	245	30	12·1	11·9	275
1·5 „	27	7·3	6·1	111	30	8·1	7·9	245	8	10·3	9·9	244	30	8·3	6·5	247	15	8·4	8·3	244	30	9·2	8·8	268
2·1 „	25	6·8	5·5	112	30	8·3	8·1	250	6	8·8	8·2	245	29	8·0	7·8	252	7	7·8	7·7	246	30	6·9	6·5	267
3·0 „	21	6·9	5·1	111	30	10·2	6·4	256					29	8·6	7·9	257	1	1·5	1·5	055	30	7·0	6·2	272
3·6 „	15	4·9	2·0	130	29	6·4	5·4	264					29	7·5	7·1	261	1	1·5	1·5	035	26	6·9	6·3	273
4·5 „	11	4·1	0·4	328	29	4·9	3·2	282					28	5·7	4·6	258					19	5·0	4·1	267
5·4 „	5	4·6	1·0	340	29	5·4	1·7	287					28	5·2	2·8	243					16	3·7	1·6	259
6·0 „	4	5·6	1·2	097	29	4·5	0·8	296					28	5·2	1·4	268					13	3·5	0·4	033
7·2 „					29	5·3	1·5	056					28	5·2	0·6	101					11	5·7	4·7	089
9·0 „					28	6·8	5·0	078					28	6·1	4·4	078					4	9·9	9·8	095

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 km. above mean sea level

September 1961 (Bhadra 10 —Asvina 8, 1883 Saka)

Station	TIRUCHIRAPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	4·1	2·7	220	30	2·7	2·1	253	30	2·1	1·8	340	30	2·9	2·6	303	30	4·2	3·5	291	30	1·8	1·5	332
0·15 a. g.	30	6·1	4·1	223	29	6·8	5·5	247	30	6·2	6·0	332	29	5·6	5·1	297	30	7·6	7·0	295	28	5·3	4·9	316
0·3 a. m. s. l.	30	6·3	4·4	226	29	7·7	6·3	246	30	6·2	5·9	331	29	6·2	5·7	298	30	7·7	7·1	294	28	6·1	5·6	310
0·6 ,,	30	6·8	5·6	242	29	9·6	8·5	253	30	7·6	7·0	309	28	6·3	5·8	301	30	8·5	8·1	298	28	7·6	7·2	303
0·9 ,,	30	7·1	6·3	253	29	9·9	9·3	261	30	8·2	7·8	298	22	7·4	7·1	308	30	8·9	8·5	298	28	8·3	7·8	299
1·5 ,,	30	8·7	8·5	265	29	9·6	9·2	264	30	9·1	8·7	292	13	8·8	8·7	303	30	8·7	8·2	297	28	8·5	7·9	293
2·1 ,,	27	9·8	9·6	269	29	7·9	7·5	269	30	8·9	8·6	284	7	9·0	8·9	286	30	8·3	7·9	292	28	8·8	8·5	283
3·0 ,,	22	9·6	9·0	276	22	6·1	5·2	277	30	8·7	8·2	272	3	10·0	9·5	253	30	8·8	8·3	281	24	6·8	6·2	276
3·6 ,,	20	8·5	8·0	278	16	5·9	4·9	263	30	6·7	6·0	271	3	7·5	7·4	236	30	8·0	7·3	275	15	4·3	3·1	271
4·5 ,,	17	6·3	5·3	279	4	4·1	3·0	278	30	4·6	3·1	264	3	5·3	3·5	216	30	5·3	3·8	276	12	4·1	1·3	292
5·4 ,,	15	3·4	1·7	294	1	2·5	2·5	335	30	4.5	1.6	270					30	4·7	1·5	290	7	2·7	1·5	013
6·0 ,,	15	3·4	1·1	004					30	4·6	0·7	360					30	4·8	0·5	006	6	3·7	2·7	089
																	30	5·6	3·9	079	2	5·5	4·9	067
7·2 ,,	11	5·9	4·3	086					30	5·9	3·4	077					30	9.0	8·0	087				
9·0 ,,	9	10·7	10·3	094					29	10·5	8·1	090												

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·5	0·3	217	30	2·0	1·3	245	30	0·8	0·5	242	30	1·6	1·2	241	30	2·4	2·2	255	30	0·9	0·6	246
0·15 a. g.	26	3·8	2·6	264	27	4·2	2·6	260	27	3·0	2·3	263	26	4·8	4·1	243	29	6·7	6·3	259	28	5·1	4·7	254
0·3 a. m. s. l.													26	5·9	5·5	250	29	7·5	7·0	263	28	6·3	6·0	259
0·6 ,,													25	7·6	7·2	255	29	9·1	8·6	266	27	7·9	7·6	262
0·9 ,,	26	5·2	3·7	284	27	4·7	3·2	272	27	4·1	3·2	276	10	8·7	8·2	265	23	10·4	10·0	269	18	8·1	7·8	271
1·5 ,,	18	5·3	3·1	334	22	5·5	2·7	327	25	4·8	2·2	331	5	10·1	10·0	267	7	9·7	9·3	279	7	7·4	7·2	283
2.1 ,,	17	7.7	4·5	047	17	5·2	2·2	356	21	5·1	3·1	050	1	6·0	6·0	266	2	10·3	9·7	277	4	7·6	7·5	285
3·0 ,,	11	7·2	6·0	061	7	4·7	3·3	012	18	5·1	3·6	046									3	5·8	5·6	282
3·6 ,,	9	6·3	5·5	051	6	4·5	2·0	358	12	5·4	4·6	046												
4·5 ,,	9	7·9	7·2	060	2	6·0	5·8	065	3	3·8	3·1	037												
5·4 ,,	6	6·2	5·0	067	2	4·3	4·1	088																
6·0 ,,	6	8·1	7·6	054	2	4·5	2·9	032																
7.2 ,,	3	7·0	6·8	029	1	5·5	5·5	330																
9·0 ,,					1	4·0	4·0	025																

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	7·9	6·9	260	30	8·1	7·1	256	30	7·1	6·3	254	30	2·0	1·9	252	30	4·0	3·6	238	30	2·4	2·3	251
0·15 a. g. .	29	6·8	6·4	244	30	8·5	7·9	241	29	7·0	6·5	240	30	8·5	7·9	277	26	4·7	4·5	244	30	6·6	5·9	281
0·3 a. m. s. l. .	29	7·5	7·1	246	30	8·4	7·9	246	29	7·2	6·6	244	30	9·0	8·5	268	26	5·1	5·0	245	30	6·9	6·3	273
0·6 ,, .	29	7·6	7·2	248	30	8·7	8·2	250	29	7·8	7·1	247	30	9·5	8·9	254	26	6·1	5·9	257	30	6·6	6·4	259
0·9 ,, .	26	7·2	6·5	246	24	7·9	7·1	249	27	7·2	6·6	248	30	9·5	9·0	261	24	6·8	6·6	278	30	6·9	6·6	270
1·5 ,, .	19	6·6	5·7	238	16	5·1	4·3	236	20	5·5	4·9	232	29	9·7	9·1	268	24	9·0	8·6	287	30	7·8	7·4	283
2·1 ,, .	10	4·9	3·6	239	11	4·4	3·0	226	17	4·5	3·1	219	29	9·4	8·9	284	24	10·2	9·4	282	30	8·3	8·0	281
3·0 ,, .	8	3·3	2·1	265	11	3·4	2·1	192	11	3·0	1·5	174	29	8·1	7.7	284	19	8·9	8·2	279	30	8·7	8·1	278
3·6 ,, .	2	1·5	0·9	004	11	3·1	0·9	158	8	2·3	1·1	103	29	7·2	6 7	285	12	8·1	7·5	274	30	7·7	6·9	276
4·5 ,, .	1	5·5	5·5	020	8	3·1	1·7	075	4	3·0	2·3	066	29	7·3	6·3	279	6	7·3	5·5	286	30	7·3	6·2	268
5·4 ,, .					8	3·3	1·8	077	1	4·5	4·5	110	28	6·2	3·8	274	5	5·3	3·8	286	30	6·0	4·7	273
6·0 ,, .					8	3·7	2·1	065					28	4·9	2·3	270	5	4·0	1·07	307	29	5·1	2·7	283
7·2 ,, .					7	5·5	5·1	072					28	5·0	0·7	121	5	4·6	1.0	137	29	5·3	0·9	083
9·0 ,, .					7	6·2	6·1	082					28	5·7	4·0	093	3	9·5	6·9	126	30	7·0	4·8	096

Station	VISAKHAPATNAM			
Time in I. S. T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	30	2·4	2·4	277
0·15 a. g. .	29	5.3	5.2	237
0·3 a. m. s. l. .	29	6·3	6·2	250
0·6 ,, .	29	6·9	6.8	264
0·9 ,, .	29	7·7	7·4	277
1·5 ,, .	29	9·7	9.2	281
2·1 ,, .	29	9·6	9·3	280
3·0 ,, .	24	7·8	7·6	279
3·6 ,, .	18	6·9	6·6	278
4·5 ,, .	10	5·1	4.6	272
5·4 ,, .	4	3·7	2·4	267
6·0 ,, .	2	2·5	1·5	278
7·2 ,, .	1	4·0	4·0	310
9·0 ,, .				

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Ht. in Km.	n	V	v	D
		AHMEDABAD		
		0530 hr.*		
10·5	20	8·4	7·8	073
12·0	20	10·8	10·2	086
14·1	16	14·7	13·7	078
16·2	12	16·0	15·6	079
18·0	7	12·8	12·7	071
21·0	1	16·5	16·5	100
24·0	1	12·5	12·5	075
		1730 hr.*		
10·5	21	8·4	7·1	075
12·0	20	11·9	10·6	081
14·1	13	17·5	16·4	084
16·2	9	19·9	19·7	087
18·0	3	21·3	20·3	080
		AMAUSI		
		0530 hr.		
10·5	1	4·5	4·5	032
12·0	1	6·0	6·0	010
		1730 hr.		
10·5	1	6·5	6·3	260
12·0	1	13·0	13·0	255
		AMBALA		
		0530 hr.		
10·5	1	1·30	1·03	305
		ANANTAPUR		
		0530 hr.		
10·5	1	19·0	19·0	110
		ASANSOL		
		0530 hr.		
10·5	3	4·2	3·2	059
12·0	2	6·0	5·8	068
14·1	1	10·0	10·0	075
		BAGHDOGRA		
		0530 hr.		
10·5	1	9·0	9·0	060
12·0	1	9·0	9·0	090
14·1	1	10·5	10·5	080
16·2	1	15·0	15·0	060
		BAMRAULI		
		0530 hr.*		
10·5	28	7·5	5·9	075
12·0	27	7·9	4·7	073
14·1	11	8·9	8·3	067
16·2	1	22·0	22·0	055

Ht. in Km.	n	V	v	D
		1730 hr.*		
10·5	28	7·3	4·8	076
12·0	28	7·3	5·0	072
14·1	20	9·4	7·3	055
16·2	6	14·5	13·5	076
		BANGALORE		
		0530 hr.		
10·5	3	15·7	15·6	087
12·0	3	23·7	23·7	078
14·1	3	32·0	31·7	080
16·2	2	26·3	26·2	086
18·0	2	15·0	14·9	073
21·0	1	16·0	16·0	070
		1730 hr.		
10·5	7	18·6	18·1	095
12·0	6	20·7	20·6	091
14·1	2	32·5	32·5	087
16·2	1	25·0	25·0	085
18·0	1	14·5	14·5	085
21·0	1	6·5	6·5	135
		BAREILLY		
		1730 hr.		
10·5	6	8·7	2·7	175
12·0	4	9·1	5·2	186
14·1	2	7·3	6·7	103
16·2	1	10·0	10·0	095
		BEGUMPET		
		0530 hr.		
10·5	2	12·7	12·7	091
12·0	1	15·0	15·0	090
14·1	1	17·5	17·5	110
16·2	1	21·5	21·5	070
18·0	1	20·0	20·0	100
21·0	1	15·5	15·5	080
		BHAGALPUR		
		0530 hr.		
10·5	12	7·1	5·7	088
12·0	10	7·7	6·6	085
14·1	7	6·7	3·8	067
16·2	6	14·5	13·9	077
18·0	5	14·1	12·7	081
21·0	1	7·0	7·0	115
		1730 hr.		
10·5	16	7·1	4·6	076
12·0	16	7·5	5·0	074

Ht. in Km.	n	V	v	D
		1730—*Contd.*		
14·1	9	7·2	5·1	066
16·2	7	11·6	9·3	071
18·0	5	7·6	6·6	078
21·0	3	13·7	13·5	097
24·0	2	18·7	17·9	089
		BHUBANESHWAR		
		0530 hr.		
10·5	1	8·0	8·0	085
12·0	1	12·5	12·5	100
14·1	1	16·5	16·5	115
		BIKANER		
		0530 hr.		
10·5	1	3·0	3·0	185
12·0	1	5·0	5·0	210
		DARJEELING		
		0530 hr.		
10·5	2	7·7	7·7	062
		DUM DUM		
		0530 hr.*		
10·5	28	7·5	7·0	099
12·0	27	7·9	6·7	089
14·1	15	8·5	7·4	062
16·2	5	14·9	14·4	082
18·0	1	22·5	22·5	065
		1730 hr.*		
10·5	29	7·5	5·6	083
12·0	30	6·7	5·1	082
14·1	15	9·1	8·4	056
16·2	8	17·8	16·0	071
18·0	4	16·3	14·8	074
		2330 hr.		
10·5	1	28·5	28·5	090
		GANNAVARAM		
		1730 hr.		
10·5	1	16·0	16·0	115
12·0	1	19·0	19·0	070
14·1	1	23·0	23·0	060
16·2	1	27·5	27·5	085
		GAUHATI		
		0530 hr.*		
10·5	20	7·0	3·0	072
12·0	19	8·3	4·6	048
14·1	8	9·7	6·0	034

Ht. in Km.	n	V	v	D
		1130 hr.		
10·5	3	6·5	2.7	036
12·0	1	9.5	9·5	065
14·1	1	9.5	9·5	200
		1730 hr.*		
10·5	24	8·6	4·2	033
12·0	23	9·2	4·1	034
14·1	6	10·5	5·2	026
16·2	1	9.5	9.5	060
		GOPALPUR		
		1730 hr.		
10·5	1	15·0	15·0	120
12·0	1	15·0	15·0	100
		GORAKHPUR		
		1730 hr.		
10·5	4	2·9	0·5	356
12·0	1	2·5	2·5	100
14.1	1	8.5	8.5	025
16.2	1	3.5	3.5	080
		GWALIOR		
		0530 hr.		
10·5	6	6·3	1·4	227
12·0	2	5·3	5·1	045
		1730 hr.		
10·5	3	7·0	3·3	292
		IMPHAL		
		0530 hr.		
10·5	1	12·5	12·5	085
12·0	1	16·0	16·0	065
		1730 hr.		
10·5	5	8.5	6·3	055
12·0	3	8·0	5·6	075
14·1	1	10·5	10·5	060
		JAIPUR		
		0530 hr.		
10·5	1	3·0	3·0	290
12·0	1	5·0	5·0	225
14·1	1	1·0	1·0	080
		JODHPUR		
		0530 hr.*		
10·5	19	5·6	2·0	084
12·0	18	7·0	2·2	004
14·1	7	5·5	1·3	278
16·2	1	4·0	4.0	115
18.0	1	5.0	5.0	115

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9.0 km. above mean sea level

September 1961 (Bhadra 10—Asvina 8 1883 Saka)

Ht. in Km.	n	V	v	D
	JODHPUR—*Contd.*			
	1730 hr.*			
10·5	22	4·9	1·1	071
12·0	18	6·2	1·6	320
14·1	4	6·9	4·1	036
	MADRAS			
	0530 hr.*			
10·5	27	15·2	14.9	095
12·0	27	22.2	21·7	087
14·1	14	27·5	27·0	090
16·2	10	26·1	25·7	094
18·0	7	15·1	14·8	090
21·0	2	14·3	13.9	089
	1130 hr.			
10·5	3	21·0	20·7	086
12·0	3	26·0	26·0	081
14·1	3	26·5	26·3	088
16.2	3	28.8	28.1	082
18.0	2	32·0	31·5	086
	1730 hr.*			
10.5	25	14·4	13.2	092
12·0	24	21·6	21·2	088
14·1	21	27·7	26·9	085
16·2	17	22·6	22·5	089
18·0	10	13·2	12·8	096
	MINICOY			
	0530 hr.			
10·5	3	21·5	21·3	089
12·0	2	29·3	29·0	083
	1730 hr.			
10·5	5	20·5	20.2	100
12·0	3	34·0	33·3	085
14.1	1	45·5	45·5	095
	NAGPUR			
	0530 hr.*			
10·5	28	7·8	6·6	070
12·0	27	10·8	9·1	070
14·1	26	18·0	16·1	073
16·2	20	19·4	19·2	087
18·0	14	14·9	14·6	078
21·0	3	10.7	10·0	071

Ht. in Km.	n	V	v	D
	1730 hr.*			
10·5	28	7·9	6·6	074
12·0	28	11·6	10·2	077
14·1	27	14·9	14·1	077
16·2	23	21·2	21·1	081
18·0	21	15·6	15·5	092
21·0	12	14·2	13·4	100
	NANPARA			
	0530 hr.			
10·5	4	5·4	2·0	303
12·0	1	6·5	6·5	335
14·1	1	9·5	9·5	320
	1730 hr.			
10·5	12	5·6	1·0	058
12·0	11	7·1	3·5	028
14·1	8	7·3	5·3	057
16·2	6	8·6	7·9	075
18·0	5	12·0	11·4	069
21·0	1	9·5	9·5	070
	NEW DELHI			
	0530 hr.*			
10·5	27	6·4	0·3	324
12·0	26	7·4	0·5	226
14·1	25	7·8	1·9	326
16·2	22	7·2	3·5	030
18·0	17	8·1	6·4	071
21·0	6	9·1	8·8	096
24·0	1	5·5	5·5	030
	1730 hr.*			
10·5	30	6·9	1·0	245
12·0	30	7·3	1·7	293
14·1	29	8·7	2·8	015
16·2	25	8·1	4·0	082
18·0	17	7·2	5·9	081
21·0	9	9.5	7·3	074
24.0	1	13.5	13.5	310
24.0	1	11.5	11.5	330
	POONA			
	1730 hr.			
10.5	1	13.5	13.5	085
	PORT BLAIR			
	0530 hr.*			
10·5	14	18·3	17·6	073
12·0	13	23·8	23·0	070
14·1	8	30·0	29·0	081

Ht. in Km.	n	V	v	D
	0530 hr.*—*Contd.*			
16·2	6	26·1	26·0	097
18·0	4	13·7	9·9	082
21·0	1	16·5	16·5	075
	1730 hr.*			
10·5	19	17.9	17.0	068
12·0	17	23·5	22·7	072
14·1	12	29·8	29·0	083
16·2	2	30·5	30·5	090
18·0	1	9·0	9·0	085
	RAIPUR			
	1730 hr.			
10·5	1	8·0	8·0	085
12·0	1	7·0	7·0	080
	SANTA CRUZ			
	0530 hr.*			
10·5	28	10·3	9·3	089
12·0	27	13·2	12·6	090
14·1	11	18·0	15·3	080
16.2	3	22.2	21.3	080
18.0	2	26.5	26.5	075
	1750 hr.*			
10·5	27	9·9	9·3	083
12·0	26	14·3	13·5	082
14·1	14	21·8	21·1	084
16·2	3	30·7	29·3	110
18·0	1	20·0	19·9	085
21·0	1	12·5	12·5	075
	TIRUCHIRAPALLI			
	0530 hr.			
10·5	1	18·5	18·5	090
	1730 hr.			
10·5	5	16·5	16·1	091
12·0	3	23·3	23·2	095
14·1	1	37·0	37·0	085
	TRIVANDRUM			
	0530 hr.*			
10·5	29	15·4	14·7	093
12.0	27	25·5	25.2	083
14.1	15	29.2	28.3	078
16.2	4	21.4	20.7	070
	1730 hr.*			
10.5	29	19.3	18.7	090
12.0	27	27.4	27.0	084
14.1	14	30.4	30.1	090

Ht. in Km.	n	V	v	D
	1730—*Contd.*			
16·2	6	21·2	20·4	090
18·0	1	12·5	12·5	095
21·0	1	6·5	6·5	090
	VERAVAL			
	1730 hr.			
10·5	5	9·6	9·6	082
12·0	1	13·5	13·5	085
	VISAKHAPATNAM			
	0530 hr.*			
10·5	28	10·7	9·5	090
12·0	28	15·0	14·1	074
14·1	23	19·9	19·0	080
16·2	16	18·7	18·4	087
18·0	10	17·1	16·9	080
21·0	2	12·5	12·1	100
	1130 hr.			
10·5	3	13·0	12·8	089
12·0	1	13·0	13·0	070
	1730 hr.*			
10·5	29	9·5	7·2	074
12·0	26	13·7	12·9	072
14·1	22	21·4	19·9	073
16·2	12	17·3	16.6	085
18·0	2	20·0	20·0	083

RADIOSONDE DATA

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmedabad	Fan type	20th July 1961	00 and 12	
2	Allahabad	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay	Clock type	7th September 1954	00 and 12	
5	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras	Fan type	29th June 1946	00 and 12	
9	Nagpur	Fan type	1st October 1946	00 and 12	
10	New Delhi	Clock type	3rd December 1943	00 and 12	
11	Port Blair	Fan type	4th December 1946	00 and 12	
12	Trivandrum	Fan type	1st July 1947	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

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RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (997 mb.)						ALLAHABAD (990 mb.)						BANGALORE (908 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	22	055	299·1	301	298	297·0	29	098	295·5	302	298	297·9	28	921	293·0	294	291	291·2
1000	22	031	..	..	..	..	29	011	..	..	..	..	28	085	..	..	..	..
900	22	954	293·6	295	291	290·3	29	941	295·9	297	294	293·6	28	998	292·3	293	291	290·5
850	22	1447	291·5	294	289	288·4	29	1438	293·2	295	291	291·0	28	1480	289·3	291	287	287·3
800	22	1965	288·8	291	286	284·6	29	1960	290·2	292	289	288·2	28	2002	287·7	290	283	282·7
700	22	3089	283·7	287	279	277·9	29	3092	284·8	287	282	281·7	28	3121	282·5	286	277	276·1
600	21	4361	276·9	282	273	269·6	29	4371	278·9	285	276	274·7	28	4383	275·1	278	269	269·4
500	21	5821	268·9	274	264	..	29	5844	270·9	274	267	265·9	28	5832	267·1	270	262	262·4
400	21	7550	258·8	264	252	..	29	7587	261·1	264	258	..	27	7544	256·4	261	250	..
300	20	9680	244·4	252	236	..	28	9732	247·3	251	243	..	27	9641	240·4	248	231	..
250	19	10957	234·8	245	228	..	28	11030	238·0	242	233	..	27	10898	230·0	241	219	..
200	17	12422	221·5	228	215	..	28	12552	227·1	232	219	..	27	12361	219·2	233	211	..
175	15	13288	214·9	228	206	..	26	13425	220·9	225	211	..	25	13199	212·3	218	206	..
150	15	14250	208·5	220	201	..	16	14429	214·9	219	209	..	25	14144	205·6	212	201	..
125	14	15326	201·6	212	193	..	13	15567	208·3	213	200	..	25	15224	198·9	208	193	..
100	14	16631	199·4	206	187	..	8	16893	203·1	213	197	..	22	16549	199·4	206	192	..
80	11	17954	204·4	212	188	..	6	18211	202·7	208	198	..	21	17899	203·9	213	193	..
70	6	18763	207·6	219	191	..	6	19008	205·1	210	199	..	20	18700	208·1	217	197	..
60	..	..	..	..	..	..	5	20005	209·6	215	201	..	17	19637	210·1	218	200	..
50	..	..	..	..	..	..	..	..	..	..	..	..	14	20738	213·4	222	205	..
40	..	..	..	..	..	..	..	..	..	..	..	..	8	22139	214·4	219	208	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1004 mb.)						CALCUTTA (1001 mb.)						GAUHATI (999 mb.)					
Surface	30	013	298·6	300	296	296·7	30	006	299·5	301	298	298·6	30	049	299·3	301	298	298·2
1000	30	045	..	..	..	..	30	012	..	..	..	..	30	037	..	..	..	..
900	30	969	293·4	294	292	291·2	30	936	293·9	296	291	292·7	30	966	295·1	298	293	293·2
850	30	1459	290·2	293	289	288·0	30	1430	291·5	294	288	289·2	30	1460	292·8	295	291	290·3
800	30	1976	287·5	291	285	284·5	30	1950	289·0	291	286	286·0	30	1981	290·0	292	287	287·3
700	30	3099	283·0	287	280	277·2	30	3077	283·8	286	280	280·9	29	3109	283·8	287	279	280·7
600	30	4369	277 0	279	275	269·7	30	4351	277·4	280	274	273·8	28	4381	277·3	281	275	274·4
500	30	5833	269·5	272	267	..	30	5794	270·4	273	265	..	28	5845	269·5	273	265	..
400	30	7568	259·9	263	257	..	30	7542	261·1	269	255	..	27	7579	260·5	267	257	..
300	30	9704	246·2	251	242	..	29	9681	248·6	250	242	..	25	9723	247·3	252	244	..
250	30	11000	237·3	244	231	..	28	11005	238·6	243	232	..	25	11022	238·7	244	234	..
200	29	12517	226·1	234	219	..	28	12532	227·6	235	218	..	24	12551	227·3	237	221	..
175	22	13382	219·3	225	215	..	25	13413	221·4	229	211	..	14	13437	221·3	229	217	..
150	18	14361	212·1	217	205	..	18	14415	215·2	220	206	..	8	14417	215·0	224	210	..
125	9	15459	204·9	212	197	..	11	15535	207·2	211	201	..	5	15510	206·0	211	200	..
100	5	16795	200·4	206	195	..	9	16875	202·0	207	197	..	..	..	..	..	..	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (977 mb.)						MADRAS (1005 mb.)						NAGPUR (968 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A				No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	218	298·4	300	296	296·7	30	015	298·8	301	297	296·1	29	311	296·2	298	294	295.2
1000	30	013	..	..	..	..	30	058	..	..	..	..	29	023	..	..	..	..
900	30	943	296·2	300	293	292·1	30	981	294·7	297	293	288·8	29	946	294·4	297	289	290·9
850	30	1441	293·8	297	291	289·3	30	1475	291.8	295	288	286·4	29	1441	291·7	294	287	288.5
800	30	1964	291·2	294	289	286·1	30	1904	288·4	291	285	283·7	29	1961	289·0	292	284	286·2
700	30	3099	285·3	290	282	278·9	30	3113	281·2	285	278	277·1	29	3089	282·7	285	280	280·0
600	30	4380	278·9	281	273	270·9	30	4371	274·4	278	270	269·1	29	4359	276·9	279	273	273·0
500	30	5855	270·9	274	263	..	30	5817	266·0	271	261	..	29	5822	268·9	271	265	..
400	29	7600	261·2	264	251	..	30	7521	255·0	260	249	..	29	7549	258·6	263	252	..
300	27	9757	248·9	259	242	..	30	9610	240·2	247	234	..	28	9675	244 0	949	238	..
250	25	11063	239·8	245	233	..	28	10866	229·3	239	223	..	28	10953	234·0	241	227	..
200	24	12585	229·3	240	221	..	26	12327	216·9	228	208	..	28	12446	221·4	230	215	..
175	23	13470	221·9	228	215	..	19	13131	209·9	216	204	..	27	13289	214·8	223	208	..
150	20	14468	215·1	220	207	..	19	14070	203·6	210	196	..	27	14261	207·4	216	200	..
125	11	15627	207·7	216	203	..	17	15119	198·7	204	195	..	26	15348	201·9	211	194	..
100	6	16965	203·2	212	201	..	17	16437	199·9	211	190	..	22	16675	198·5	207	194	..
80	..	..	..	..	..	..	13	17807	204·0	218	191	..	16	18023	200·8	208	193	..
70	.	..	..	..	..	..	11	18595	204·2	213	195	..	11	18794	203·2	208	197	..
60	..	..	..	..	..	..	8	19512	207·1	213	199	..	10	19732	206·7	214	200	..
50	.	..	..	..	..	..	6	20617	211·2	219	206	..	8	20848	210·5	215	204	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI (978 mb.)						PORT BLAIR (1000 mb.)						TRIVANDRUM (1002 mb.)					
Surface	29	209	299·6	301	298	297·4	29	079	297·6	299	294	296·7	30	064	297·5	299	296	295·3
1000	29	012	..	..	..	..	29	075	..	..	..	..	30	083	..	..	..	..
900	29	942	297·1	301	295	292·7	29	995	293·2	297	289	290·4	30	1001	291·6	293	289	288·4
850	29	1442	294·0	297	291	289·5	29	1487	290·6	294	288	287·6	30	1491	289·1	291	286	285·3
800	29	1965	290 9	294	289	286·4	29	2007	287·9	293	283	284·5	30	2007	286·9	291	284	281·4
700	29	3096	284·8	287	282	278·6	29	3123	282·1	286	279	278·6	30	3124	280·6	283	277	274·9
600	29	4373	278·5	281	276	267·7	28	4387	275·0	279	271	272·5	30	4382	273·6	277	271	269·2
500	29	5844	271·0	273	268	264·0	27	5837	267·0	272	263	..	30	5823	264·8	268	261	..
400	29	7585	260·8	263	257	260·8	27	7550	256.7	266	250	..	30	7524	254.2	260	246	..
300	29	9727	246 6	250	243	..	26	9648	241·1	250	235	..	29	9603	238·3	245	226	..
250	29	11019	237·5	248	232	..	25	10909	230·7	242	221	..	28	10847	227·2	236	217	..
200	29	12533	225·9	232	222	..	24	12384	217·9	227	207	..	27	12283	215·3	223	208	..
175	28	13398	218·8	223	214	..	23	13215	210·9	219	199	..	18	13097	210·7	216	204	..
150	28	14371	211·6	217	207	..	18	14141	204·8	213	198	..	17	14051	204·8	211	197	..
125	28	15479	204·4	210	198	..	14	15216	199·0	209	192	..	12	15100	200·7	207	195	..
100	25	16754	198·1	205	191	..	13	16522	198·9	206	191	..	12	16443	200·7	206	193	..
80	19	18092	201·1	208	196	..	5	17849	198·6	201	195	..	8	17788	203·7	208	192	..
70	15	18875	208·2	212	198	..	5	18621	200·6	204	198	..	..	..	..	..	..	..
60	12	19837	209·7	215	202	..	..	..	..	..	..	..	..	..		..	..	..
50	10	20936	213·8	219	205	..	..	..	..	..	..	..	..	..	..	..	..	..
40	9	22360	219·8	225	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..		..		..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 0000 Hours G. M. T.

September 1961 (Bhadra 10 —Asvina 8, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (999 mb.)					
	No. of obs.	Ht. gpm.	Temperature° A			
			Mean	Max.	Min.	Dew Point
Surface	30	041	299·4	301	297	296·7
1000	30	034	..	..	..	..
900	30	956	295·0	298	293	290·5
850	30	1452	292·0	294	289	288·0
800	30	1972	288·9	292	286	285·0
700	30	3097	282.7	287	279	278·5
600	30	4362	275.2	279	271	271·9
500	29	5819	268·3	273	264	..
400	29	7542	257·9	264	253	..
300	29	9654	242.3	249	238	..
250	29	10921	231.8	243	224	..
200	28	12398	219.1	230	209	..
175	26	13232	211·6	223	202	..
150	26	14184	203·4	216	193	..
125	21	15297	197·6	207	188	..
100	19	16532	195·7	205	185	..
80	12	17821	201.3	214	191	..
70	11	18636	205.2	215	192	..
60	8	19552	206·7	217	195	..
50	7	20614	210·6	221	200	..
40						
30						
20						
10						

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (996 mb.)						ALLAHABAD (988 mb.)						BANGALORE (906 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	25	055	302·7	305	301	297·8	29	098	303·8	307	299	298·2	29	921	298·6	302	294	291·0
1000	25	017	..	..	..	..	29	−010	..	..	..	..	29	046	..	..	..	..
900	25	948	295·4	298	291	291·0	29	929	298·0	301	296	294·7	29	976	297·9	301	293	290·2
850	25	1443	291·9	295	287	288·2	29	1430	294·8	298	293	291.7	29	1473	293·3	296	290	288·0
800	25	1962	288·7	291	285	285·7	29	1956	291·7	295	289	288·2	29	1993	288·9	291	285	285·8
700	25	3084	282·5	285	278	278·1	29	3094	286·1	289	284	281·5	29	3114	282·0	286	277	278·2
600	25	4350	276·3	280	273	269·4	29	4379	279·9	283	278	274·7	29	4373	274·6	278	270	270·8
500	24	5808	268·7	272	263	..	29	5858	272·1	275	268	266·1	29	5821	267·2	270	263	264·7
400	24	7537	258·9	264	254	..	29	7606	261·8	266	259	..	29	7535	257·0	262	251	..
300	23	9664	244·7	252	240	..	28	9759	248·4	251	245	..	29	9639	242·0	250	233	..
250	20	10943	234·4	240	231	..	28	11063	239·3	243	236	..	28	10912	232·1	239	221	..
200	20	12442	221·5	228	215	..	28	12595	228·7	234	224	..	28	12392	219·8	231	210	..
175	15	13304	214·9	220	210	..	25	13472	222·0	229	217	..	25	13228	212·6	223	202	..
150	14	14266	208·0	214	202	..	21	14444	215·0	224	210	..	23	14171	205·1	216	194	..
125	13	15355	201·2	208	197	..	17	15565	207·5	214	203	..	23	15237	198·9	210	191	..
100	12	16664	197·5	202	193	..	8	16896	201·0	208	194	..	23	16535	198·7	207	192	..
80	6	17985	197·8	205	193	..	..	..	..	..	..	..	20	17850	202·6	212	193	..
70	5	18728	198·2	203	194	..	..	..	..	..	..	..	18	18670	203·6	212	190	..
60	..	..	..	..	..	..	..	..	..	..	..	..	15	19595	208·4	216	204	..
50		..	..	..	..	..	..	..	..	..	..	..	13	20751	212·2	222	205	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	22113	216·0	222	211	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1003 mb.)						CALCUTTA (999 mb.)						GAUHATI (996 mb.)					
Surface	29	013	300·4	302	297	296·9	30	006	301·7	305	299	298·7	30	049	301·6	305	298	299.5
1000	29	043	..	..	..	..	30	−004	..	..	..	..	30	012	..	..	..	..
900	29	967	294·0	296	292	291·2	30	926	296·1	301	293	293·0	30	943	296·7	300	293	294·1
850	29	1462	291·2	294	289	288·6	30	1423	293·3	297	290	289·7	30	1441	294·0	297	290	291·0
800	29	1980	288·5	291	286	285·7	30	1945	290·5	294	288	286·8	30	1965	291·1	294	287	288.2
700	29	3105	283·9	287	280	278·1	30	3077	284·9	288	281	280·7	30	3097	284·7	288	280	281·4
600	29	4379	278·2	282	272	271·1	30	4356	278·9	283	276	274.2	30	4374	278·3	281	275	274·2
500	28	5851	271·0	275	267	264·3	30	5830	271·2	274	268	264·3	29	5842	270·7	273	268	266·9
400	28	7602	261·6	264	257	..	30	7575	261·3	265	258	..	29	7583	261·3	266	257	..
300	28	9753	248·5	251	244	..	30	9716	247·1	251	243	..	28	9729	247·3	251	243	..
250	27	11057	239·9	243	235	..	30	11015	238·4	242	235	..	28	11031	238·6	244	234	..
200	27	12393	229·2	234	222	..	30	12541	227·3	233	222	..	28	12554	228·0	235	223	..
175	19	13464	222·9	227	214	..	26	13407	220·1	226	214	..	14	13448	221·8	226	218	..
150	16	14478	217·3	221	208	..	20	14384	213·1	221	205	..	7	14413	213·9	216	211	..
125	13	15627	210·2	215	203	..	18	15498	206·3	215	199	..	..	..	..	..	..	..
100	10	16988	204·2	212	197	..	15	16858	201·5	209	193	..	..	..	..	..	..	..
80	6	18284	202·5	212	199	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 1200 Hours G. M. T.

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (976 mb.)						MADRAS (1003 mb.)						NAGPUR (967 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	29	218	304.3	309	299	296·5	30	015	303·0	306	296	297·3	28	311	300·2	303	296	296·3
1000	29	−001	..	..	..	..	30	041	..	..		..	28	008	..	..	..	..
900	29	940	298·8	302	293	292·3	30	971	295·6	299	291	290·1	28	941	296·2	299	292	292·1
850	29	1442	295·2	298	291	289·8	30	1467	292·0	296	288	287·8	28	1439	292·7	296	290	289·4
800	29	1967	291·7	295	288	287·0	30	1986	288·4	291	285	284·3	28	1967	289·7	293	287	286·7
700	29	3104	285·8	290	282	279·1	30	3107	281·6	283	279	276·8	28	3091	284·3	288	280	280·3
600	29	4388	280·4	283	277	268·9	30	4367	274·4	277	269	268·4	28	4368	277·9	280	274	273.4
500	28	5867	272·7	278	266	263·0	29	5815	266·5	270	261	..	28	5837	270·0	273	266	..
400	27	7624	263·1	268	260	..	28	7526	255·6	260	253	..	28	7571	259·5	263	252	..
300	25	9793	249·7	255	246	..	27	9616	240·9	248	237	..	28	9701	244·4	249	237	..
250	22	11109	241·2	245	236	..	27	10873	229·9	239	224	..	28	10983	234·6	241	228	..
200	20	12651	230·4	237	225	..	26	12333	218·1	226	212	..	28	12477	222·0	232	215	..
175	13	13551	223·5	229	220	..	23	13153	212·0	221	203	..	27	13280	214·0	219	208	..
150	9	14499	217·9	223	213	..	22	14106	205·1	217	195	..	27	14277	206·3	213	200	..
125	6	15660	211·2	218	206	..	18	15170	199·5	210	191	..	26	15359	201·1	207	193	..
100	..	..	..	..	..	..	17	16462	198·2	207	190	..	25	16675	197·0	201	193	..
80	..	..	..	..	..	..	15	17775	203·2	214	192	..	23	18014	200·7	205	193	..
70	..	..	..	..	..	..	8	18576	203·1	214	190	..	22	18805	203·9	209	194	..
60	..	..	..	..	..	..	7	19507	208·8	217	199	..	18	19718	206.8	213	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	17	20787	210·6	217	201	..
40	..	..	..	..	..	..	..	..	..	..	..	..	8	22171	212·4	217	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI (976 mb.)						PORT BLAIR (999 mb.)						TRIVANDRUM (1001 mb.)					
Surface	30	209	305·0	308	300	297·8	30	079	298·4	301	296	296·8	30	064	300·3	302	297	295·8
1000	30	−008	..	..	..	..	30	067	..	..	..	..	30	071	..	..	..	..
900	30	935	299·4	302	297	293·2	30	986	293·4	295	291	290·5	30	994	293·1	295	290	288·4
850	30	1437	295·7	298	293	290·2	30	1478	290·7	293	288	286·9	30	1487	290·3	293	287	285·5
800	30	1963	292.8	295	289	286·6	30	1996	287·9	291	284	283·7	30	2004	287·4	292	285	281·9
700	30	3099	286·0	288	283	278·7	30	3116	281·9	285	278	277·1	30	3123	281·9	285	278	274·5
600	30	4381	279·6	282	277	270·8	30	4379	275·4	280	272	270·7	30	4386	274·6	278	271	269·5
500	30	5858	271·8	274	267	260.1	29	5833	267·4	272	264	..	30	5832	266·2	269	261	..
400	30	7605	261·8	265	258	..	29	7549	256·7	262	251	..	30	7540	255·0	259	249	..
300	30	9755	247·7	251	245	..	27	9659	242·0	249	236	..	30	9626	238·6	245	230	..
250	30	11053	238·3	244	235	..	26	10926	231·3	242	224	..	29	10874	228·4	235	220	..
200	30	12577	227·4	233	223	..	26	12400	218·1	229	212	..	27	12328	216·7	224	207	..
175	30	13453	220·7	227	216	..	23	13214	210·7	219	202	..	22	13170	210·8	219	200	..
150	30	14433	214·0	225	207	..	21	14170	204·5	218	196	..	16	14183	204·5	212	197	..
125	29	15547	206·4	213	199	..	14	15265	200·4	211	191	..	10	15263	201·2	207	193	..
100	23	16893	200·6	206	195	..	9	16600	199·6	204	191	..	7	16606	198·9	204	194	..
80	20	18217	201·0	210	192	..	..	..	..	..	..	..	5	17889	200.0	204	193	..
70	18	19009	204.7	216	193	..	..	..	..	..	..	..	5	18686	201.4	206	196	..
60	13	19940	209·1	218	203	..	..	..	..	..	..	..	..	..	..	..	..	..
50	11	21079	215·3	223	207	..	..	..	..	..	..	..	..	..	..	..	..	..
40	8	22512	217·9	226	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12000 Hours G. M. T.

September 1961 (Bhadra 10—Asvina 8, 1883 Saka)

Standard Pressure mb.	VISAKHAPATNAM Surf. Pr. (997 mb)					
	No. of Obs.	Ht. gpm.	Temperature A°.			
			Mean	Max.	Min.	Dew point
Surface	30	041	301·4	306	299	297·6
1000	30	015	..	..	..	..
900	30	945	295·8	299	293	291·3
850	30	1441	292·6	297	290	287·7
800	30	1962	289·4	293	285	284·6
700	30	3088	282.8	286	279	278·3
600	30	4357	275·5	280	272	272·1
500	30	5806	267·0	272	261	..
400	30	7522	256·7	263	251	..
300	30	9625	241·0	251	233	..
250	29	10891	231·1	243	224	..
200	27	12367	218·7	232	211	..
175	22	13178	211·3	220	203	..
150	22	14132	203·6	214	193	..
125	14	15206	197·9	207	187	..
100	14	16506	196·6	203	192	..
80	6	17770	201·8	206	197	..
70						
60						
50						
40						
30						
20						
10						

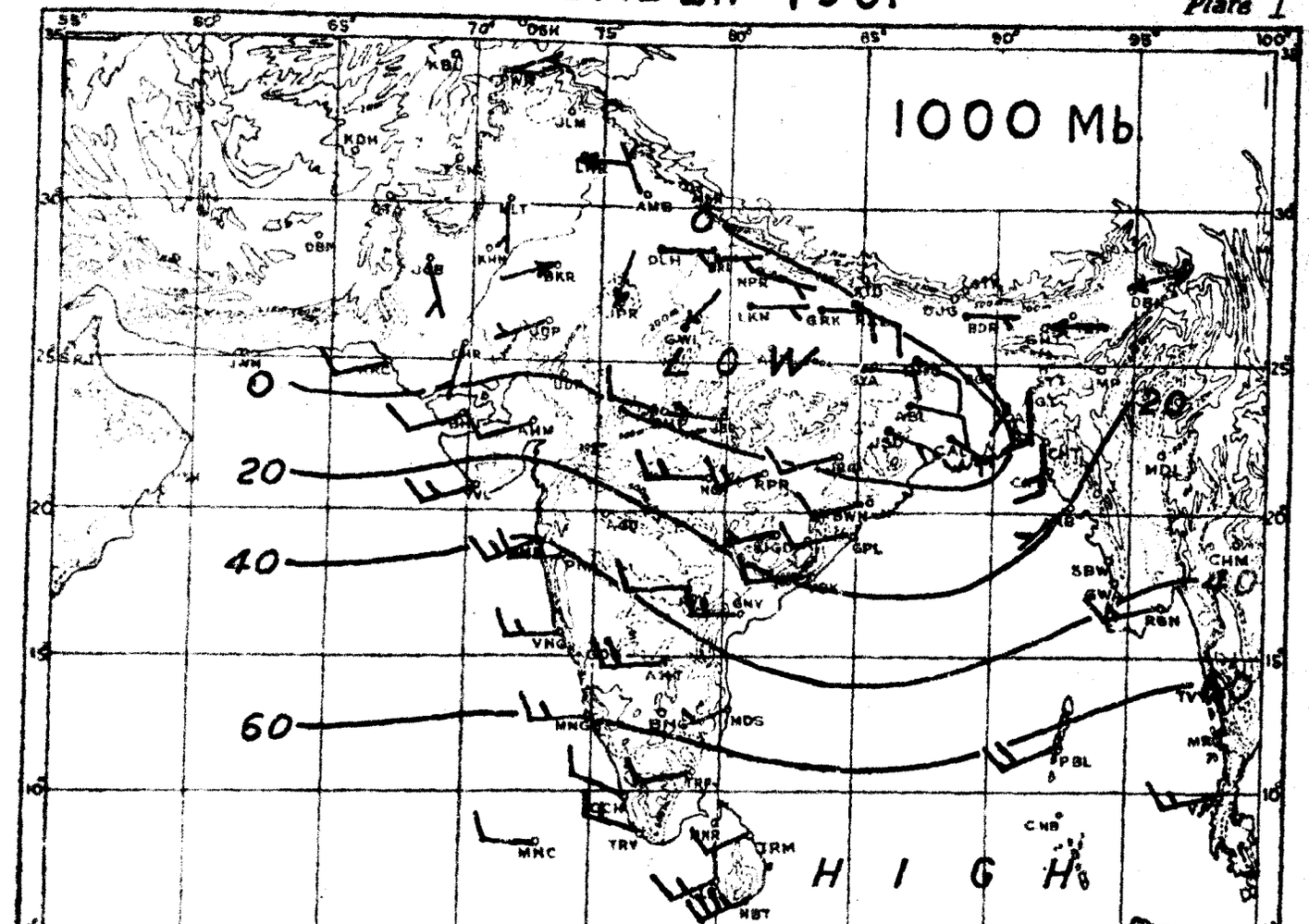
Note : Number of observation refer to those of dynamic height.
Means are not worked out for temperature and due point for the 1000 mb. surface and for dew point for standard pressure surfaces with temperature less than 273°A.
Means are not worked out for less than five observations at standard pressure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

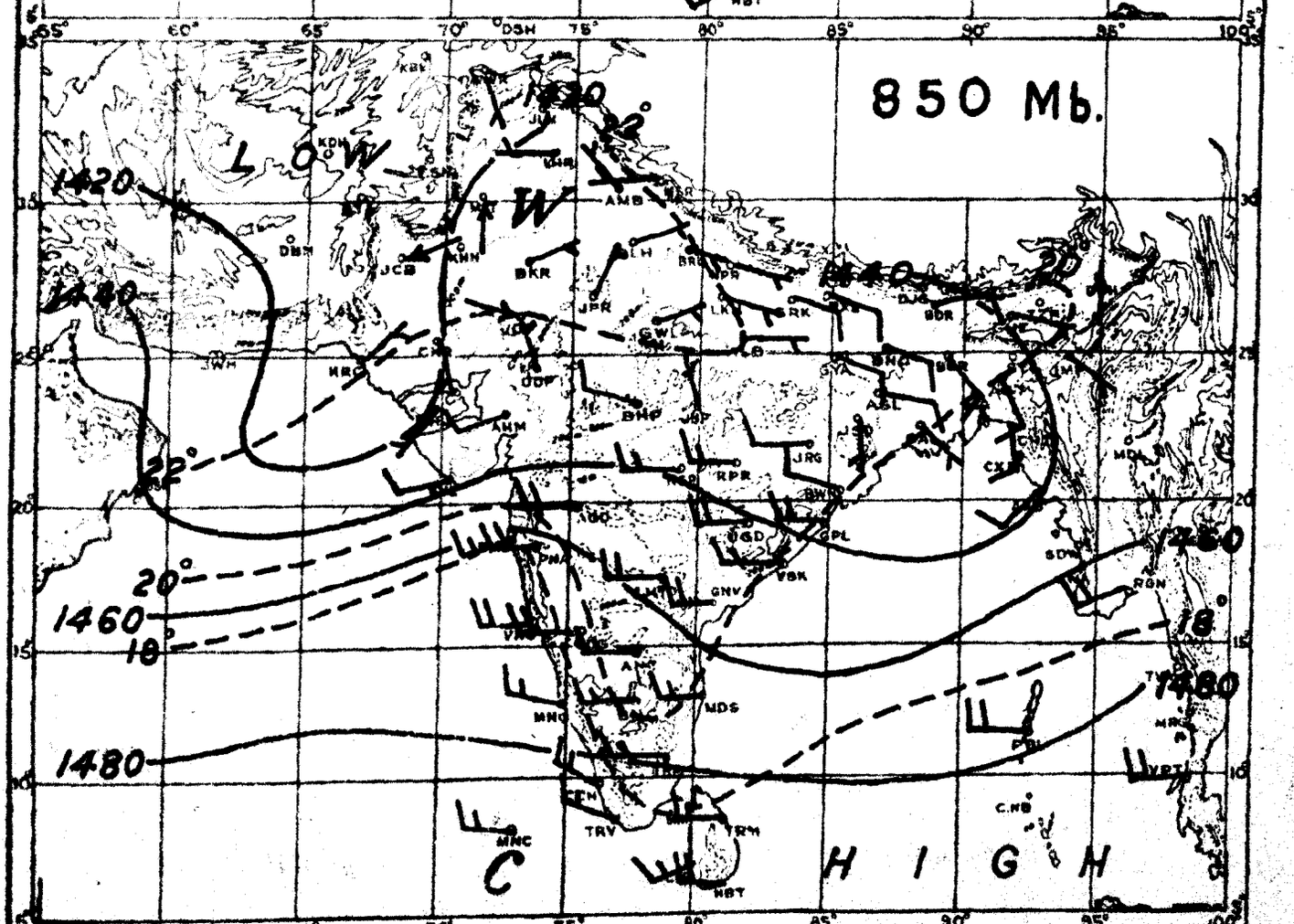
MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

SEPTEMBER–1961

Plate I





BDGC/2331(1):10-65

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

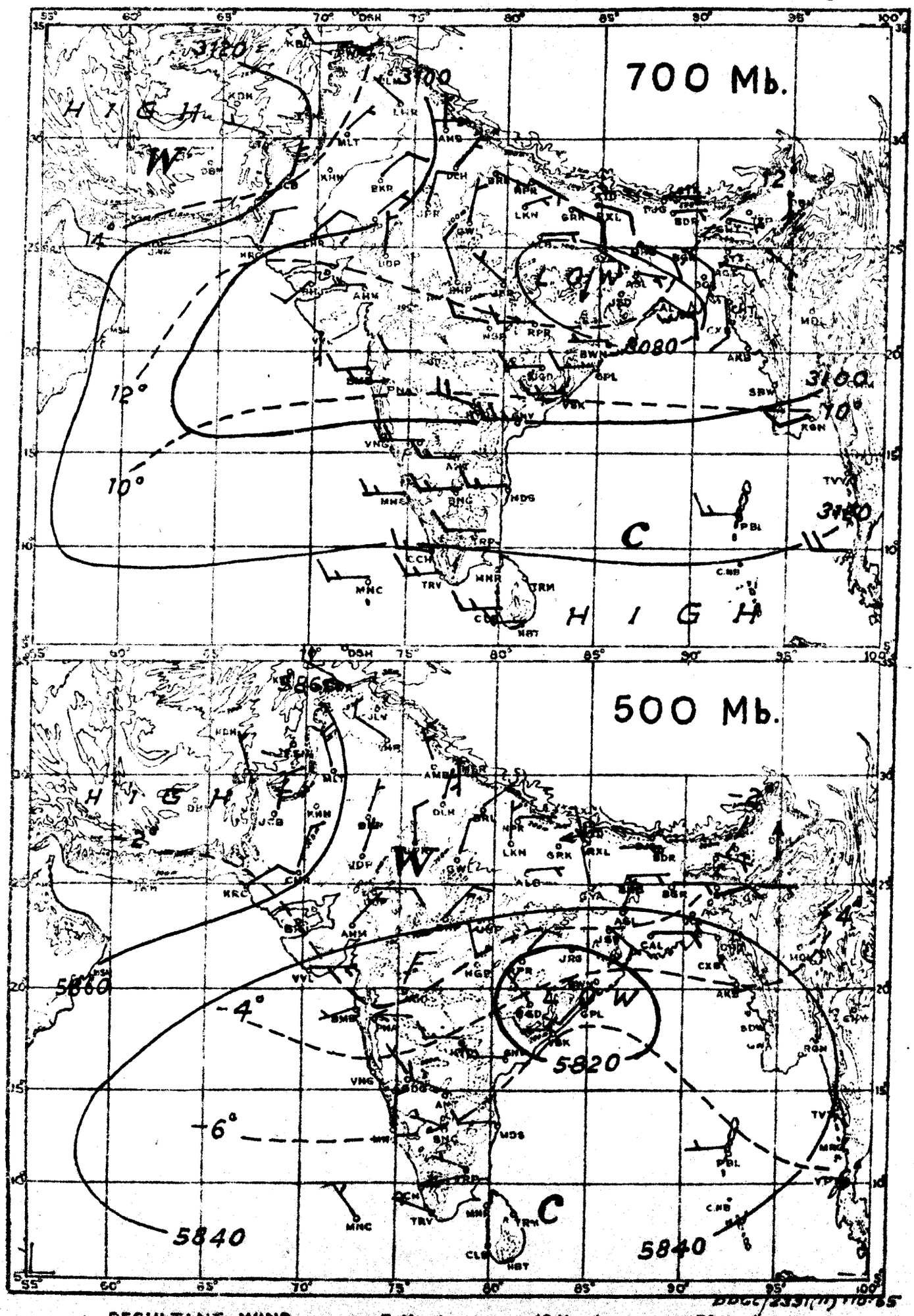
G.P.Z.P. POONA, 1965

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

MONTHLY MEAN CONSTANT PRESSURE CHARTS

SEPTEMBER—1961

I.Met.D. Plate II



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

Q.P.Z.P. POONA, 1965

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

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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

October

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Chief feature :

(i) Severe floods in Bihar during the beginning of the month and in Uttar Pradesh during the second week in association with the movement of two deep depressions;

(ii) Late withdrawal of monsoon from the country;

and (iii) Formation and movement of a depression in the Bay of Bengal during the last week of the month.

A deep depression which moved inland from the northwest Bay of Bengal lay over the extreme northeast Madhya Pradesh and adjoining Bihar State on 30th September. It recovered eastnortheastwards and lay as a depression over Bihar Plateau on 2nd October. It weakened into a low pressure area over Bihar Plains on 3rd. Moving westnorthwestwards, thereafter, it filled up over the central parts of Uttar Pradesh by 6th. The very heavy rains associated with the depression caused disastrous floods in Bihar which took a toll of nearly nine hundred human lives, besides dislocating railway traffic in Bihar state and West Bengal. Some of the noteworthy amounts of rainfall reported were : Ambikapur 21 cm on 1st, Sabour 19 cm and Kalimpong 13 cm on 2nd and Darbhanga 14 cm on 4th.

A law pressure area from the Bay of Bengal moved across the Circars coast into Vidarbha and Telangana. It concentrated into a depression on 9th with centre near Adilabad. It moved very slowly northwestwards and became a deep depression centered about 70 kms northwest of Amravati on 11th. Later, it recurved northeastwords and was centered near Kanpur on 13th morning. It weakened very rapidly and filled up the next day. In association with this depression the monsoon strengthened over most parts of the country outside northwest India. Very heavy rains occurred in the north Peninsula, the central parts of the country and in Uttar Pradesh, the chief amounts being Khandala 13 cm on 8th and 35 cm on 9th, Parbhani 13 cm and Aurangabad 12 cm on 10th; Buldhana 16 cm on 11th; Orai 22 cm and Lucknow 14 cm on 13th and Ballia 14 cm and Kheri Lakhimpur 12 cm on 14th. The heavy rains led to severe flooding of rivers in Uttar Pradesh. More than fifty people lost their lives due to floods and house collapses and parts of Lucknow city were inundated by the flood waters of the Gomati river.

The monsoon withdrew from practically the whole of northwest India between 1st and 3rd October. Its further withdrawal got temporarily arrested due to the low pressure system mentioned in the previous paragraph. After the filling up this low, the monsoon withdrew from Uttar Pradesh, Bihar Plains, northeast and west Madhya Pradesh, Gujrat State and Maharashtra State by 18th. During the next few days, it withdrew further and was confined to the south Peninsula by 22nd. The withdrawal of the monsoon was generally a fortnight later than usual over the different parts of the country outside the south Peninsula.

A low pressure area from the east entered the Andaman Sea on 14th and moving northwestwards, it lay over the west central Bay of Bengal off the Circars coast on 18th Thereafter, it weakened and moved away westwards across the Peninsula. In association with it, a few falls of heavy rain occurred in the Bay Islands between 12th and 15th and in coastal Andhra Pradesh and neighbourhood between 16th and 19th. Nan Cowrie reported 7 cm of rain on 12th and 14 cm on 14th; Kondul 11 cm on 14th and 8 cm on 15th; Kakinada 8 cm on 16th; Jagdalpur 10 cm on 17th and Visakhapatnam 18 cm on 19.

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1—563D.D.G. Obs. P/65

A low pressure wave from the east moved into the Andman Sea on 21st. It moved across the Comorin-Maldiv area on 24th and then into the southeast Arabian Sea. Under its influence, a low pressure area formed in the southeast Arabian Sea on 26th. Moving in a northeasterly direction, the low entered the Peninsula across north coastal Mysore and the south Konkan, moved into Bihar Plateau by 31st and filled up thereafter. Under its influence, maritime air from the south progressively penetrated into the area extending from Kerala and coastal Mysore to Gangetic West Bengal and gave a good spell of wet weather there. A few noteworthy amounts of rainfall reported were : Tondi 10 cm on 24th, Mangalore 12 cm on 25th, Hanamkonda 10 cm on 28th, Mangalore 11 cm on 29th, Contai 12 cm on 30th and Sandheads 10 cm on 31st.

A well marked low pressure area developed over the east central Bay of Bengal off the Arakan coast on 22nd. It moved northnorthwestwords and concentrated into a depression centred about 100 kms northwest of Akyab on 24th morning. Continuing to move in the same direction, it crossed coast close to Noakhali on the 25th night and weakened into a low pressure area over the southern divisions of East Pakistan on 26th morning. It recurved northeastwards, moved across lower Assam and became unimportant by 28th. The depression did not cause much weather over the Indian region; only scattered showers occurred in Assam between 24th and 28th.

The rainfall activity increased over the extreme south Peninsula towards the end of the month in association with the movement of an easterly wave across the south Peninsula on 30th. Punalur and Coonoor reported 8 cm of rain each on 29th and 30th respectively.

Two western disturbances moved across the country during the month. The first one lay over the Punjab (I) on 14th and moved away across the Punjab-Kumaon hills on 16th. It caused local showers in Himachal Pradesh and Jammu and Kashmir on 15th. The second one which was more active lay over the northern divisions of West Pakistan on 28th and over the Punjab on 29th. It moved away eastwards across the Western Himalayas on 2nd November. In association with it, local to fairly widespread rain or snow occurred in Jammu and Kashmir, Himachal Pradesh and the hills of the Punjab (I) and of west Uttar Pradesh on 30th and 31st. Bilaspur reported 6 cm of rain and Dharmsala, Dharampore and Roorkee 5 cm each on 30th.

The rainfall for the month was in moderate defect in Gujarat State, the Madras State and Kerala, in slight defect in Assam and Jammu and Kashmir and normal in the Bay Islands, West Bengal, the Punjab (I), west Rajasthan and the Arabian Sea Islands. It was in slight excess in south Interior Mysore, in moderate excess in Orissa, east Madhya Pradesh, the Konkan, coastal Andhra Pradesh, and Rayalaseema and in large excess over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was below normal in sub-Himalayan West Bengal, Orissa, Bihar Plateau, Uttar Pradesh, east Rajasthan, Madhya Pradesh,Gujrat Region, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and north Interior Mysore and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in Uttar Pradesh and normal elsewhere over the the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in Bihar Plateau, Uttar Pradesh, the Punjab (I), Rajasthan, Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha, Telangana and north Interior Mysore below normal in Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was below normal in west Rajasthan normal in the Bay Islands, Gangetic West Bengal, the Punjab (I), Jammu and Kashmir, Saurashtra and Kutch, the Konkan Rayalaseema, the Madras State, south Interior Mysore and Kerala and above normal over the rest of the country outside Himachal Pradesh.

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

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

POONA-5, R. ANANTHAKRISHNAN,

The 23rd January, 1961. for DIRECTOR GENERAL OF OBSERVATORIES.

Errata to M.W.R. for October 1961 (Asvina 9 - Kartika 9, 1883 Saka)

Page No	Station	Hour	Column	For	Read
Table I - Sub-Division					
517	9. Uttar Pradesh (West)		2	-75.4	+75.4
Table II					
518	(Page No.)		Heading	158	518
518	Port Blair		20(a)	1	0
518	Port Blair		28	2	0
518	Gauhati (Bhorjor)		28	2	0
518	Dhubri (Rupsi)		20(a)	1	0
518	Tura		11	189.9	289.9
518	Imphal (Tulihal)		3	(Not clear)	+0.4
518	Burdwan		11	59.0	59.5
519	Bahraich		18	4.6	4.6(a)
519	Nautanwa		18	3.5(a)	3 5
519	Lucknow (Amausi)		10	0	17.0
519	(Foot note)		-	(j)Mean of 21 days.	(delete)
520	Dehra Dun		3	+0.1	-0.1
520	Dehra Dun		12	-54.0	+54.0
520	Roorkee		12	-70.1	+70.1
520	Bareilly		3	+1.8	-1.8
520	Pathankot		13	10.9	13.9
520	Pathankot		16	+0.8	-0.8
520	Pathankot		19	+0.7	-0.7
520	Amritsar (Rajasansi)		17	3.5	8.5
520	Amritsar (Rajasansi)		19	+0.5	-0.5
520	Ferozepur		17	4.3	3.4
520	Ludhiana (Aerodrome)		13	19.9	11.9
520	Ambala		17	10 0	10.0(m)
520	New Delhi (Safdarjung)		1	New Delhi	New Delhi (Safdarjung)
520	Mandi		15	3	2
520	Leh		17	6.9(g)	6.9(b)
520	Leh		18	5.2(g)	5.2(b)
520	Anupgarh		1	Anupgarh	Anupgarh(R)
520	Jodhpur		3	+0.3	-0.3
520	Jodhpur		28	1	0
520	Barmer		3	+0.9	-0.9
520	(Foot note)		-	(g)Mean of 21 days.	(b) Mean of 29 days.
521	Jagdalpur		7	-1.3	+1.3
522	Mandvi		12	-1.4	-11.4
522	Deolali (Aerodrome)		24	0	1
522	Poona (Aerodrome)		25	1	0
522	Jeur		17	0.6	10.6
522	Sholapur		6	30.5	20.5
522	Parbhani		2	39.8	29.8
522	Amraoti		25	1	0
522	Nidadavole		14	6,9	6,19
523	Vellore		11	185.5	108.5
523	Cuddalore		6	23.6	23.9
523	Panruti		19	+0.6	-1.6
523	Palayankottai		13	29.4	79.4
523	Karwar		15	1	15
523	Honavar		14	22	26
523	Honavar		15	1	17
523	Mangalore (Bajpe)		15	1	17
523	Agumbe		1	Agumbe	Agumbe(R)
523	(Footnote)		-	Mean of 30 day	(a) Total or Mean of 30 days.
523	(Footnote)		-	(Not given)	(R) Register not received.

Contd.2

No.	Station	Hour	Column	For	Read
524	Balehonnur		2	25.2	25.9
524	Balehonnur		3	-0.9	-0.2
524	Bangalore		6	19.36	19.3
524	Mysore		12	120.9	+120.9
524	Dalhousie		6	11.7	11.7(i)
524	Dharmshala		6	15.0(i)	15.0
524	Dharmshala		12	+23.2	-23.2
524	Mussoorie		12	-63.6	+63.6
524	Darjeeling		12	-16.8	+16.3
524	Shillong		16	-3.0	+3.0
524	Shillong		18	12.7	2.7
524	Aijal		6	18.4	18.4(a)
524	Kodaikanal		13	0.1	10.1
524	Kodaikanal		19	+0.8	-0.8
524	Konar		10	..	54.9
525	Ginabahar		4	32.7	31.7
525	Bagra Tawa		4	31.7	32.7
525	Pusad		4	33.7	33.3
525	Khudi Bazar		15	40	10
525	Dadeldhura		6	11.6(e)	11.6(c)
525	Walungchung Gola		3	0.4	-0.4
525	Gangtok		18	.3	2.3
525	Gangtok		24	7	10
525	(Foot note)		-	(e)Mean of 28 days.	(c)Mean of 28 days.
Table III					
526	Golaghat	0830	2	0830	0830*
526	Golaghat	1730	2	1730	1730**
526	Chaparmukh	0830	16	Blank	0
526	Chaparmukh	1730	16	Blank	0
526	Foot note - Insert * - Observations for 30 days and ** Observations for 25 days.				
527	Goalpara	1730	2	1730	1730*
527	Tura	0830	25	3	0
527	Imphal (Tulihal)	0530	17	Blank	0
527	Jalpaiguri	1730	12	7	75
527	Foot note - Insert * Observations for 29 days.				
528	Purulia	1730	14	+0.5	+1.5
528	Calcutta (Dum Dum)	2330	11	98	92
528	Calcutta	0830	18	Not clear	31
528	Calcutta	1730	5	Not clear	1006.8
528	Sagar Island	0830	4	1000.4	1010.4
528	Baripada	0830	28	0	1
528	Jharsuguda	0830	14	..	+1.4
529	Jharsuguda	1130	14	+1.4	..
529	Angul	0830	2	0830	0830(R)
529	Angul	1730	2	1730	1730(R)
529	Ranchi	0830	17	1	0
530	Gaya	0230	25	Blank	1
530	Gonda	0830	16	..	0
530	Gonda	1730	15	1.4	1.4(f)
530	Gonda	1730	16	..	0
530	Lucknow	0830	14	0	..
531	Gorakhpur (P.B.O)	0530	23	1	0
531	Gorakhpur (P.B.O)	1130	17	0	2
531	Gorakhpur (P.B.O)	2330	17	2	0
531	Azamgarh	0830	3	,,	78
531	Aligarh	0830	18	2	29
531	Agra Aerodrome	1130	16	..	0
531	Agra Aerodrome	1130	24	..	3

Contd.3

Page No.	Station	Hour	Column	For	Read
532	Amritsar (Rajasansi)	0530	8	16.7	16.1
533	Palam Aerodrome	1430	26	14	10
533	Churu	0830	5	97.1	978.1
533	Bikaner	0830	14	+0.6	-0.6
534	Ajmer	0830	12	+1.8	+18
534	Ajmer	1730	8	18.7	18.9
534	Kota (Aerodrome)	0530	8	18.8	18.7
534	Gwalior	1130	15	8.6	8.7
535	Bhopal (Bairagarh)	1730	9	Not clear	15.9
535	Rajpur (Jhabna)	1730	9	Not clear	16.6
535	Chhindwara	0830	9	Not clear	16.9
535	Seoni	0830	9	Not clear	17.5
535	Sidhi	-	1	Not clear	Sidhi
535	Jabalpur	1130	8	20.0	22.0
537	New Kandla	1730	4	Not clear	1008.8
538	Vengurla	-	1	V gurla	Vengurla
538	Poona (Aerodrome)	0530	9	18.9	18.0
538	Baramati	-	1	Barama	Baramati
538	Miraj	-	1	Mira	Miraj
539	Kalingapatam	0830	12	..	+5
539	Nidadavole	1730	23	Blank	0
539	Montachintala	0830	14	.1	+1.1
540	Ongole	1730	3	112	12
540	Nellore	0530	8	24.9	24.0
540	Nizamabad	0830	12	Not clear	+10
540	Nizamabad	0830	18	21	11
540	Nizamabad	1730	9	12.5	22.5
541	Salem	1130	13	6.1	6.7
541	Coimbatore (Pilamedu)	1130	28	7	3
541	Madurai Aerodrome	0530	28	Blank	0
541	Mangalore (Bajpe)	1130	23	2	1
541	Mangalore (Bajpe)	1130	26	4	5
542	Agumbe	-	1	Agumbe	Agumbe*
542	Foot note - Insert * - Data not available.				
544	Ramgarh	1730	27	13	9
544	Tehri	1130	21	9	8
545	Timure	1730	9	12.6	12.5

Contd. 4

Page No.	Station	Time in I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
549	Asansol	0530	0.9	D	338	238
549	Bahraich	1730	Surface	V	0.9	9.4
549	Bahraich	1730	Surface	v	1.5	0.2
550	Bairagarh	1730	3.0	D	384	348
552	Cochin	1730	5.4	v	1.5	1.9
553	Darjeeling	1730	3.6	v	0.1	1.0
554	Gorakhpur	0530	5.4	V	3.5	8.5
555	Jagdalpur	1730	Surface	V,v,D.	0.9,0.0,090.	CALM
561	Visakhapatnam	1130	2.1	D	059	050
562	Amausi	1730	10.5	v	23.5	13.5
562	Bamrauli	1130	12.0	D	251	250
563	Raipur	0530	12.0	v	6.0	5.0
564	Tiruchirapalli	1730	12.0	D	018	088
564	Tiruchirapalli	1730	14.1	D	088	098
564	Trivandrum	0530	10.5 to 21.0	Ht. in Km.	Heights from 10.5 to 21.0 are slightly printed down.	

RADIOSONDE DATA

566	Allahabad	00 GMT	150 mb.	Mean	..	211.3
567	Jodhpur	00 GMT	Surface	Max.	289	299
569	Ahmedabad	12 GMT	300 mb.	Min.	223	233
569	Ahmedabad	12 GMT	250 mb.	Ht. gpm.	10885	10887
569	Ahmedabad	12 GMT	175 mb.	Max.	213	223

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SG.17-5

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur & Tripura)	111·0 −22·4	83	30·1 +0·5	22·1 +1·0	83 0	81	3·3 +0·6	2·9
2. West Bengal	132·1 +2·9	102	30·4 −0·8	22·8 0	78 0	77	3·8 +0·7	3·9
3. Orissa	198·4 +41·8	127	29·7 −1·1	22·7 +0·2	81 +3	78	4·9 +1·5	5·4
4. Bihar	186·1 +117·9	273	30·0 −1·0	21·7 +0·4	78 +6	74	3·8 +1·4	3·6
5. Uttar Pradesh	150·6 +112·1	391	30·8 −1·7	20·1 +1·2	78 +11	67	2·3 +1·3	2·6
6. Punjab (India) (Including Delhi)*	36·9 −0·5	99	32·2 −0·4	17·9 +0·8	68 +6	48	0·9 0	1·2
7. Jammu and Kashmir	13·0 −4·3	75	18·9 −0·1	2·2 +0·2	55 −11	37	1·9 −0·2	2·3
Sub-division								
1. Bay Islands	320·1 +2·4	101	28·9 +0·1	23·2 0	85 +4	91	6·1 +0·9	4·5
2. Assam (Including Manipur & Tripura)	111·0 −22·4	83	30·1 +0·5	22·1 +1·0	83 0	81	3·3 +0.6	2·9
3. Sub-Himalayan, West Bengal	142·9 −6·8	95	29·6 −1·1	21·5 +0·1	81 +3	81	3·8 +1·2	3·7
4. Gangetic West Bengal	128·2 +6·4	105	30·6 −0·8	23·2 −0·1	77 −1	76	3·9 +0·6	3·9
5. Orissa	198·4 +41·8	127	29·7 −1·1	22·7 +0·2	81 +3	78	4·9 +1·5	5·4
6. Bihar Plateau	147·5 +73·2	199	29·4 −1·1	21·0 +0·5	79 +7	75	4·4 +1·9	4·1
7. Bihar Plains	215·1 +151·4	338	30·5 −0·8	22·3 +0·3	77 +4	73	3·1 +0·9	3·1
8. Uttar Pradesh (East)	192·7 +141·5	376	30·9 −1·7	20·9 +1·2	81 +11	69	2·8 +1·4	2·8
9. Uttar Pradesh (West)	98·0 −75·4	434	30·6 −1·8	19·1 +1·3	75 +12	62	1·8 +1·2	2·2
10. Punjab (India) (Including Delhi)	36·9 −0·5	99	32·2 −0·4	17·9 +0·8	68 +6	48	0·9 0	1·2
11. Himachal Pradesh.	50·7 ..	..	29·7 ..	14·0 ..	80 ..	55 ..	0·9 ..	1·9
12. Jammu and Kashmir.	13·0 −4·3	75	18·9 −0·1	2·2 +0·2	55 −11	37	1·9 −0·2	2·3
13. Rajasthan (West)	3·8 −0·3	93	35·1 −0·5	18·8 +0·2	57 +6	30	0·3 −0·3	0·7
14. Rajasthan (East)	30·0 +16·7	226	31·6 −2·1	18·5 0	70 +18	47	1·7 +0·6	1·7
15. Madhya Pradesh (West)	111·3 +73·5	294	29·6 −2·2	18·1 +0 1	75 +13	60	2·9 +1·0	3·0
Division—(Contd.)								
8. Rajasthan	16·9 +8.2	194	33·2 −1·4	18·6 +0·1	64 +13	39	1·1 +0·2	1·3
9. Madhya Pradesh	106·4 +55·5	209	29·4 −1·7	18·9 +0·3	77 +10	63	3·4 +1·1	3·5
10. Gujarat State	17·9 −10·3	63	33.2 −1·0	21·0 −0·7	74 +3	49	1·9 +0·2	1·9
11. Maharashtra State	167·4 +86 4	207	30·5 −1·2	20·7 −0·3	77 +5	61	4·2 +1·0	4·5
12. Andhra Pradesh	215·4 +80·5	160	30·9 −1·1	23·2 +0·2	81 +5	71	5·2 +1·2	5·6
13. Madras State	150·1 −61·7	71	32·6 +0·7	23·9 +0·1	76 −1	69	5·1 +0·7	5·6
14. Mysore	199·2 +71·3	159	29·3 −0·6	20·5 −0·1	85 +7	67	5·6 +1·3	6·4
15. Kerala	189·7 −116·1	62	30·1 +0·3	23·7 −0·1	84 −1	78	5·1 −0·3	5·9
Sub-division—(Contd.)								
16. Madhya Pradesh (East).	100·2 +32·7	148	29·3 −1·2	19·9 +0·7	80 +6	67	4·0 +1·3	4·1
17. Gujarat Region	21·8 −14·0	61	33·5 −1·6	20·3 −0·7	75 +5	46	2·1 +0·4	2·0
18. Saurashtra and Kutch	15·8 −8·2	66	33·0 −0·7	21.5 −0·7	73 +3	50	1·8 +0·1	1·9
19. Konkan	130·5 +28·0	127	30·6 −0·5	23·1 −0·5	80 −1	74	4·3 +0·5	4·0
20. Madhya Maharashtra	182·6 +93·3	204	30·8 −1·2	19·2 −0·3	77 +7	53	4·1 +1·1	4·8
21. Marathwada	316·3 +265·3	620	30·1 −2·1	19·5 +0·1	70 +7	55	4·2 +1·1	4·9
22. Vidarbha	149·8 +92·2	260	30·3 −1·5	20·4 −0·1	77 +8	60	4·1 +1·3	4·4
23. Coastal Andhra Pradesh	259·9 +67·5	135	30·9 −1·0	24·0 −0·2	83 +5	78	5·5 +1·2	5·7
24. Telangana	196·6 +123·1	267	30·1 −1·7	22·0 +0·6	82 +8	72	5·2 +1.5	5·6
25. Rayalaseema	142·7 +40·0	139	32·4 −0·1	23·3 +0·6	74 +1	56	4·8 +0·7	5·4
26. Madras State	150·1 −61·7	71	32·6 +0·7	23·9 +0·1	76 −1	69	5·1 +0·7	5·6
27. Coastal Mysore	380·4 +226·8	248	30·0 −0·3	22·7 −0·7	88 +3	79	6·1 +1·1	6·1
28. Interior Mysore (North)	147·1 +65·2	180	30·0 −1·1	20·4 −0·1	81 +10	62	5·0 +1·8	6·2
29. Interior Mysore (South)	166·3 +16·8	111	28·5 −0·3	19·6 +0·2	86 +5	66	6·0 +0·9	6·7
30. Kerala	189·7 −116·1	62	30·1 +0·3	23·7 −0·1	84 −1	78	5·1 −0·3	5·9
31. Arabian Sea Islands	148·1 −17·3	90	30·3 +0·5	24·5 −0·2	79 +1	75	5·7 +1·1	5·5

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

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Bay Islands																														
Mayabandar	29·4	..	31·6	21	23.1	..	21·7	1	212·2	402·4	..	93.6	1	13	..	(c) 10·9	(c) 7·8	..	1	19	0	0	0	0	0	0	0	0	0
Long Island	30·0	..	31·7	23,24	23·2	..	22·1	8,13	207·6	343·9	..	83·9	2	16	..	4·1	2·8	..	0	17	0	0	0	0	0	0	0	0	0
Port Blair	28·9	+0·1	30·7	27	23·2	0	22·1	4	171·5	320·1	+2·4	78·4	5	13	−3·7	13·2	9.1	−3·1	1	21	0	0	2	4	0	0	0	2	0
Car Nicobar	28·8	..	30·2	20	22·6	..	21·1	12	147·4	432·0	..	89·3	6	19	..	3·1	1·6	..	0	23	0	0	3	0	0	0	0	0	0
Nancowry	29·3	..	32·2	25	23·6	..	21·8	5,12	139·4	581·3	..	144·2	14	18	..	4·2	3·2	..	0	21	0	0	3	0	0	0	0	0	0
Kondul	28·0	..	30·0	26	23·3	..	22·1	15	179·9	447·1	..	111·0	14	21	..	..	..	..	0	25	0	0	7	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																														
Pasighat	29·6	..	34·3	5,6	21·2	..	18·3	29	83.3	260·5	..	60·2	9	11	..	4·1	7.1	..	0	18	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	29 3	+0·8	33·2	6	20 9	+0·6	17·1	29	34.1	146·3	−5·8	23·3	12	11	+2·4	3·0	1·3	−1·9	1	16	0	0	8	1	0	0	0	0	0
Dibrugarh	29·9	+0·8	34·3	6	21·6	+0·8	25·2	31	50·9	213·1	+61·0	43·0	16	9	+0·4	1·7	1·2	+0·1	2	16	0	0	8	0	0	0	0	0	0
Digboi	..	..	..	..	..	..	..	.	·0	49·0	..	16·0	1	6	..	..	..	..	0	6	0	0	0	0	0	0	0	0	0
North Lakhimpur	29·7	+0·4	34·1	6	21·4	+0·8	18·1	29	48·1	235·3	+6·6	62·6	9	11	+0·1	3·5	(o) 1·9	..	1	13	0	0	4	0	0	0	0	0	0
Sibsagar	30·0	+0·9	34·4	6	22·6	+1·2	18·6	29	29·6	104·7	−26·6	27·7	19	6	−1·9	3·3	2·3	0	0	14	0	0	5	0	0	0	0	0	0
Gohpur	31·0	..	33·7	6	22·2	..	18·8	28	0	34·2	..	19·4	8	2	..	3·5	2·5	..	0	2	0	0	0	0	0	0	0	0	0
Majbat	..	..	..	..	..	..	..	..	43·7	111·5	..	42·2	1	5	..	2.2	1·0	..	0	5	0	0	1	0	0	0	0	0	0
Jorhat Aerodrome	30·6	..	34·9	6	22·1	..	18·9	29	21·1	58·1	..	15·2	9	8	..	..	..	..	0	11	0	0	10	7	0	0	0	0	0
Tangla	31·3	..	33·9	5	22·0	..	18·1	22	15·0	20·4	..	9·0	7	3	..	0·5	0·3	..	0	3	0	0	0	0	0	0	0	0	0
Tezpur	30·5	+0·3	34·4	6	23·3	+1.5	20·1	28	0·8	61·2	−42·9	32·0	12	3	−3·3	5·0	3·8	+1·4	0	5	0	0	0	0	0	0	0	0	0
Golaghat Rangia (R)	30·8	..	33·9	6	22·3	..	19·7	20	67·2	128·8	..	59·0	26	4	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Chaparmukh	32·0	..	35·0	6	23.1	..	18.8	28	6·6	166·0	..	83.2	12	6	..	3·8	3·4	..	0	7	0	0	0	0	0	0	0	0	0
Goalpara	31·9	..	34·8	5	21·9	..	17·2	28	33·0	88·4	..	23·8	2	7	..	3·2	2·3	..	0	10	0	0	0	0	0	0	0	0	0
Gauhati	31·0	+0·4	33·3	5,6,7	23·1	+1·4	18·7	28	7.5	50·5	−20·1	34·5	1	3	−1·2	0	0	−1.9	0	7	0	0	0	2	0	0	0	0	0
Gauhati (Bhorjor)	30·5	+0·4	33·0	7	22·5	+1·5	17·2	28	5·0	24·3	−46·3	14·3	1	2	−2·2	6·3	4·4	+2.5	1	8	0	0	10	6	0	0	0	2	0
Dhubri (Rupsi)	30·2	..	33·7	5	21·6	..	16·9	28	164.2	221.2	..	103·8	9	8	..	4·5	2·7	..	1	14	0	0	13	2	0	0	0	0	0
Dhubri	29·6	+0·5	32·9	11	23·8	+1·1	20·4	28	26·8	76·1	−48·4	39·3	3	6	+1·0	5·1	4·3	−0·8	0	7	0	0	2	0	0	0	0	0	0
Lumding	31·3	+1·9	34·6	6	21·8	+0·7	16·4	29	13·2	90·6	+0·7	60·4	7	4	−1·9	2·3	1·5	..	0	7	0	0	1	0	0	0	0	0	0
Umroi	26·5	..	29·4	6	16·5	..	11·4	22	123·4	188·9	..	38·4	14	15	.	5·6	2·9	..	0	20	0	0	17	9	0	0	0	0	0
Tura	29·2	..	32·3	23	19·1	..	16·1	27,28, 30	166·8	189·9	..	54·2	18	10	..	4·3	4·7	..	2	14	0	0	0	0	0	0	0	0	0
Hailong	27·0	..	30·4	6	20·1	..	15·8	29	22·1	55·6	..	13·6	18	6	..	..	..	..	0	9	0	0	4	0	0	0	0	0	0
Silchar (Kumbhigram)	31·4	..	35·9	5	22·1	..	17·4	29	4·7	247·3	..	88·2	7	7	..	4.3	4.7	..	0	11	0	0	6	1	0	0	0	0	0
Silchar	30·2	−1·1	32·7	7	23·3	+1·0	18·7	29	14·8	170·5	−13·6	85·2	10	6	−1·9	1·9	1.1	−0·5	1	12	0	0	9	0	0	0	0	0	0
Imphal (Tuliha)	23·0	0·1	30·5	7	18 4	+1·1	11·7	29	8·6	41·0	−75·5	16·8	1	4	−3·7	6·3	4·1	+0.2	2	8	0	0	4	10	0	0	0	0	0
Kailashahar	31·1	..	33·6	5	22·9	..	18·6	29	37·6	99·4	..	19.4	10	9	..	1·4	0·7	..	1	11	0	0	15	7	0	0	0	0	0
Agartala	31·0	+0 2	32·9	13	22·9	+0·7	18·7	29	104·1	119·5	−56.9	63·2	13	7	−1·0	6·9	4.3	−0.1	0	11	0	0	9	1	0	0	0	0	0
Sub-Himalayan West Bengal																														
Bagdogra	30·8	0 3	33·9	6	19·8	−0·7	13·5	23	38·6	138·1	−23·4	69·3	1	5	−1.7	8.4	6.3	+2·8	1	9	0	0	8	3	0	0	0	0	0
Jalpaiguri	27·5	2 9	31·1	5,6	21·7	+0·4	17·9	23	65·0	128·8	−12·4	44·6	7	5	−0·5	6·6	4·2	+2·3	0	8	0	0	2	2	0	0	0	0	0
Cooch Behar	30·6	..	33·2	5,6	20·7	..	17·2	27	84·9	185·7	0	50·8	15	7	+0·8	4·3	2·4	..	0	10	0	0	11	3	0	0	0	0	0
Balurghat	31·1	..	34·4	6	21·7	..	17.3	27	142·0	182·4	..	89·2	3	9	..	4.3	3·9	..	0	10	0	0	0	0	0	0	0	0	0
Malda	30·6	−0·6	32·8	5,6,7	23·1	+0·7	16·1	31	59·4	119·1	+8·6	24·6	2	7	+2·7	7·5	5·9	+1·4	0	9	0	0	8	0	0	0	0	0	0
Gangetic West Bengal.																														
Berhampore	31·7	+0 1	34·5	6	21·3	−2·0	16·9	31	65·3	160·9	+68·4	94·2	31	8	+3·5	3·8	2·7	+0·4	0	10	0	0	2	0	0	0	0	0	0
Suri	30·5	.	32·1	6,13	21·4	..	17·9	31	..	150·8	..	68·0	31	6	..	..	5·8	..	0	10	0	0	2	0	0	0	0	0	0
Asansol	30·3	−1·1	32·5	11	22·3	+0 7	18·1	23,30	22·3	101·5	−8·7	57·0	31	4	−1·5	8·1	6·4	+1·6	0	6	0	0	6	1	0	0	0	0	0
Shanti Niketan	30·4		32·5	6	22·5	..	17·8	23	65·2	130·3	..	38·7	31	6	..	7·2	6·3	..	1	12	0	0	8	0	0	0	0	0	0
Krishnanagar	32·1	+0·2	35·0	6	23·0	+0·2	18·9	23,24	46·6	122·3	+14·6	28·2	3	12	+7·0	2·7	1.7	−1.2	0	12	0	0	6	0	0	0	0	0	0
Purulia	30.2	−0·7	35·1	30	21·7	−0·4	17·1	23	110·4	202·6	+128·7	96·2	2	5	+0.6	6·8	5·0	+1·2	0	7	0	0	2	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	128.6	+49·3	33·4	2	9	+4.5	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Burdwan	28·2	−3·5	30·8	13	23·7	+0.3	19·4	30,31	19·0	59·0	−24·3	19·5	16	5	+0·6	(e) 4·8	(e) 4·5	+2·4	0	7	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	30·8	..	33·1	5	23·0	..	19·4	23	70.4	93·6	..	56·3	11	6	..	..	..	..	0	10	0	0	13	0	0	0	0	0	0
Calcutta Dum Dum	31·3	0	33·5	16	23·4	−0·4	19·3	23	65·4	119·6	−18·8	36·2	2	9	+2·1	7·8	5·2	+0.1	0	14	0	0	10	1	0	0	0	0	0
Calcutta	31·5	−0 3	33·4	6	24·2	+1·0	20·9	30	60·5	116·6	+2·8	79·6	2	5	−1·2	8·5	5·5	+2·1	2	7	0	0	10	0	0	0	0	0	0
Midnapore	30·7	−1·0	32·8	6	23·0	0	18·8	23	17·9	62·1	−34·4	28·4	17	6	+0·4	6·7	4·8	+2·5	1	7	0	0	0	0	0	0	0	0	0
Contai	30·3	−0·7	31·8	16,27	24·0	−0·6	20·4	23	32·1	210·5	−28·3	118·8	30	12	+3·3	8·8	6·8	+2.3	0	13	0	0	0	0	0	0	0	0	0
Sagar Island	29·6	−0·8	30·9	6	25·0	+0·4	20·5	23	38·1	125.8	−79·2	40·0	31	8	+0·5	17·1	15.3	+6·0	0	15	0	0	8	0	0	0	0	0	0
Sandheads	31·1	..	34·9	29	26·4	..	22·6	31	152·8	187·1	+69·5	96·8	31	9	+3·3	..	..	..	0	12	0	0	3	0	0	0	0	0	0
Orissa																														
Baripada	30·9	..	34·3	3	22·7	..	17·7	23	76·6	184·2	..	47.8	30	9	..	3·4	1·9	..	0	10	0	0	5	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Orissa—(*Contd.*)																														
Jharsuguda	29·5	−1·6	32·2	4	21·7	−0·1	17·1	23	79·1	181·5	+101·4	51·0	1	10	+1·6	8·5	6·5	+0·4	1	14	0	0	8	1	0	0	0	0	0
Keonjhargarh	28·2	..	30·7	12	20·3	..	16·7	23	101·3	181·6	..	27·9	13	9	..	5·3	3·8	..	0	11	0	0	0	1	0	0	0	0	0
Balasore	30·1	−0·9	32·8	3	23·5	+0·6	19·4	23	35·7	236·4	+73·1	62·3	30	10	+3·6	8·3	5·1	+2·2	0	12	0	0	10	0	0	0	0	0	0
Sambalpur	30·5	−1·1	33·1	13	22·0	+0·1	17·2	23	68·5	180·3	+125·9	46·9	30	10	+6·5	5·3	3·5	−0·2	0	12	0	0	1	0	0	0	0	0	0
Angul	30·2	−1·2	32·6	5	22·9	+0·9	18·3	23	96·7	177·9	+77·8	73·4	31	7	+1·3	8·3	6·5	+1·5	0	8	0	0	4	0	0	0	0	0	0
Cuttack (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chandbali	30·6	−0·5	33·1	2,3	23·0	−0·7	19·4	23	98·2	170·4	−23·4	39·6	18	9	+0·7	8·5	6·5	+0·5	0	11	0	0	0	0	0	0	0	0	0
Bolangir	30·2	..	34·2	13	22·4	..	18·0	24	12·2	176·4	..	70·6	17	6	..	7·2	6·3	..	0	7	0	0	0	0	0	0	0	0	0
Phulbani	28·5	..	30·8	13	19·9	..	13·7	23	82·1	110·8	..	26·5	13	7	..	5·5	3·2	..	0	15	0	0	0	1	0	0	0	0	0
Titlagarh	32·5	..	34·5	22,23	22·1	..	18·3	24	41·7	258·1	..	55·2	1	7	..	2·3	2·1	..	0	10	0	0	2	0	0	0	0	0	0
Bhubaneswar	30·6	−0·3	33·1	4	23·5	+0·1	19·0	23	87·3	142·4	−110·2	25·7	31	10	+0·3	11·2	8·4	−0·1	0	12	0	0	8	0	0	0	0	0	0
Puri	30·5	−0·9	33·6	4	25·1	+0·1	22·7	23, 24	68·0	189·0	−5·9	42·8	18	13	+5·7	14·5	15·3	+5·0	0	15	0	0	0	0	0	0	0	0	0
Gopalpur	30·2	−1·0	34·1	4	25·8	+0·1	21·1	24	130·5	387·0	+168·6	79·5	9	11	+4·1	13·9	11·5	+2·3	0	13	0	0	11	0	0	0	0	0	0
Koraput	24·6	−2·2	27·2	11	18·8	+0·3	16·1	24, 25, 26	42·0	120·5	−13·0	39·4	18	11	+3·0	..	..	..	0	12	0	0	0	0	0	0	0	0	0
Bihar Plateau																														
Dumka	30·2	−1·0	32·5	15	21·7	+0·2	16·6	23	61·8	166·4	+69·6	41·4	30	7	+2·4	7·6	5·6	+3·7	1	11	0	0	1	0	0	0	0	0	0
Daltonganj	31·3	−0·4	34·7	2	20·5	−1·3	15·8	23	25·0	71·0	+25·0	36·0	2	4	+0·8	..	..	..	0	6	0	0	0	0	0	0	0	0	0
Hazaribagh	26·6	−2·1	30·5	13	18·7	−0·5	12·6	22	43·0	167·1	+88·4	87·8	2	7	+2·1	9·3	7·6	+0·7	1	11	0	0	4	3	0	0	0	0	0
Dhanbad	29·3	..	31·6	6, 13	21·0	..	16·8	30	87·4	231·5	..	73·0	2	9	..	6·7	5·8	..	0	13	0	0	2	0	0	0	0	0	0
Ranchi	27·8	−0·6	30·6	13	..	..	..	..	120·1	271·9	+195·1	75·1	2	9	+4·2	3·7	2·8	−1·9	0	10	0	0	1	0	0	0	0	0	0
Ranchi Aerodrome	26·5	..	30·2	13	19·0	..	14·1	22	46·1	200·8	..	73·8	2	8	..	..	9·1	..	1	9	0	0	3	0	0	0	0	0	0
Jamshedpur	30·9	−1·2	33·3	4,12	22·5	+0·8	17·3	23	42·0	90·2	+22·6	19·2	30	7	+2·8	8·3	5·6	+2·2	1	9	0	0	3	0	0	0	0	0	0
Jamshedpur (P.B.O)	29·9	..	32·6	4,13	21·9	..	17·2	23	59·3	121·5	..	25·4	16	10	..	8·8	6·4	..	2	11	0	0	7	0	0	0	0	0	0
Chaibasa	29·8	−1·1	33·2	4	21·7	+0·5	16·6	23	64·2	112·6	−38·2	22·4	9	7	+2·6	4·5	2·5	+0·6	0	9	0	0	0	0	0	0	0	0	0
Bihar Plains																														
Motihari	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Forbesganj	32·8	..	34·7	6,24	21·9	..	17·2	23	70·0	157·0	..	110·0	3	5	..	7·9	5·2	..	0	6	0	0	6	1	0	0	0	0	0
Darbhanga	32·5	+1·3	36·7	16,25	23·0	+1·0	18·3	29	207·6	169·8	+111·4	214·0	3	9	+6·5	4·8	4·1	+2·0	0	9	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	(a) 251·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chapra	30·2	..	33·1	13,11	22·9	..	18·5	20	50·0	191·3	+137·7	86·0	4	5	+2·5	6·0	5·6	..	0	6	0	0	0	0	0	0	0	0	0
Purnea	30·8	−0·3	33·7	6	21·8	+0·2	17·2	23	82·8	205·0	+123·2	75·0	3	6	+2·6	5·1	3·0	+0·9	0	9	0	0	3	0	0	0	0	0	0
Patna	30·3	−1·1	33·3	7	22·8	+0·1	19·1	22	64·4	159·8	+101·4	54·6	3	5	+2·1	5·9	6·3	+3·1	2	6	0	0	1	0	0	0	0	0	0
Patna Aerodrome	29·7	..	32·2	6,9,13	21·6	..	17·1	25	54·6	163·3	..	51·3	4	5	..	9·2	6·1	..	0	6	0	0	2	2	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	(m) 168·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhagalpur	30·1	−1·7	32·6	10	22·7	−0·4	18·1	30	36·1	254·6	+175·8	169·9	2	7	+3·5	8·9	6·6	+2·0	0	7	0	0	5	0	0	0	0	0	0
Sabaur	30·0	−1·2	32·3	4	22·1	+0·4	16,7	23	40·4	248·0	+168·2	185·2	2	7	+4·1	7·9	5·9	+1·9	0	8	0	0	8	0	0	0	0	0	0
Jamui	29·7	..	32·2	7	22·0	..	16·6	23	214·2	448·3	..	205·8	3	8	..	7·2	4·4	..	0	9	0	0	7	0	0	0	0	0	0
Dehri	29·6	..	32·8	12	21·9	..	17·9	20	40·7	86·5	+37·0	23·3	15	7	+4·4	5·8	5·1	..	0	8	0	0	0	0	0	0	0	0	0
Gaya	29·4	−2·0	32·6	6	21·5	+0·4	16·8	23	36·6	105·4	+56·6	39·3	2	5	+2·1	9·3	8·3	+3·5	0	9	0	0	9	0	0	0	0	2	0
Uttar Pradesh (East)																														
Kheri (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bahraich	30·7	−1·6	34·6	4	21·0	+0·8	17·5	28	135·9	292·1	+252·0	103·6	14	8	+6·3	6·5	4·6	+2·3	0	9	0	0	5	0	0	0	0	0	0
Nautanwa	33·0	..	38·7	11	21·5	..	17·2	29	100·1	169·1	..	122·0	14	4	..	6·4	(a) 3·5	..	0	5	0	0	0	2	0	0	0	0	0
Hardoi	30·4	−1·9	35·6	1	20·4	+0·7	16·7	31	213·3	425·8	+313·8	148·8	3	8	+5·4	..	..	..	0	10	0	0	6	0	0	0	0	0	0
Gonda	30·5	−2·2	34·2	7	21·4	+1·7	17·2	21, 28	77·4	164·4	+118·9	93·4	14	4	+2·3	(f) 7·3	(g) 4·5	+1·3	0	5	0	0	1	0	0	0	0	0	0
Lucknow	30·7	−2·3	..	..	19·6	+0·4	..	..	..	..	..	..	..	..	..	(o) 5·3	(o) 4·5	+2·7	0	0	0	0	0	0	0	0	0	0	0
Lucknow (Amausi)	30·6	−2·4	34·0	4,7	20·1	+2·4	15·6	28	0	209·3	+176·8	141·8	13	8	+6·3	7·7	4·9	..	0	8	0	0	6	2	0	0	0	3	0
Faizabad	30·3	..	34·4	4	19·4	..	15·1	21	31·4	164·3	..	68·4	14	4	..	4·5	2·7	..	0	7	0	0	3	0	0	0	0	0	0
Gorakhpur	32·7	+1·0	35·2	6	20·7	−0·1	16·0	29	109·7	160·9	+85·5	56·4	14	7	+4·7	..	..	..	0	8	0	0	0	0	0	0	0	0	0
Kanpur	30·3	−2·6	34·1	4	20·4	+1·5	16·5	21	110·0	275·4	+242·4	102·6	9	5	+3·5	10·6	8·1	+2·5	0	5	0	0	3	0	0	0	0	0	0
Kanpur (Aerodrome)	30·4	..	34·6	4	20·7	..	16·7	22, 28	81·0	316·0	..	117·9	13	4	..	..	..	..	0	6	0	0	8	0	0	0	0	1	0
Sultanpur	30·7	..	33·4	4	22·0	..	17·5	28	83·0	353·2	..	237·4	10	7	..	4·0	2·8	..	0	7	0	0	3	0	0	0	0	0	0
Azamgarh	31·1	..	33·3	13	19·0	..	14·6	29	..	..	..	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	30·7	−2·9	34·0	3	21·2	+2·0	17·8	25	61·8	207·9	+185·3	69·0	10	8	+6·6	6·5	4.1	+1·5	0	10	0	0	4	0	0	0	0	0	0
Ballia	31·1	..	34·5	13	22·0	..	17·5	22	20·8	248·2	..	137·2	14	6	..	4·1	3·4	..	0	6	0	0	0	0	0	0	0	0	0
Banda	31·6	..	34·5	4	20·7	..	16·7	23	25·3	122·4	..	42·4	13	7	..	5·0	4·9	..	0	7	0	0	0	0	0	0	0	0	0
Allahabad (Bamrauli)	31·4	−1·0	33·8	4	21·1	+1·6	17·1	26	34·0	65·0	+5·6	28·5	13	5	+2·5	7·4	4·5	+0·8	0	9	0	0	7	1	0	0	0	0	0
Varanasi (Babatpur)	30·4	−1·6	32·8	13	21·3	+0·4	16·8	28	18·6	75.9	+40·8	36·0	11	5	+2·8	11·3	8·5	+2·2	0	7	0	0	2	0	0	0	0	0	0
Varanasi	31·7	−0·8	33·4	13,14	22·2	+2·2	17·1	19	10·2	50·4	−5·0	30·6	1	4	+1·8	6·2	4·5	+1·3	0	6	0	0	2	0	0	0	0	0	0

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830—1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation 0·1 and 0·2 mm	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)																														
Dehra Dun	28·2	+0.1	31·4	6	15·6	−0.1	9·3	31	20.8	86.0	−54.0	33.9	12	7	+5.4	3·0	3·5	+0.4	0	8	0	0	8	0	0	0	0	0	0
Roorkee	30.2	−1·0	35 0	2	18·5	+2·2	14·1	30,31	9·4	91.4	−70·1	49.5	30	7	+6·1	6·5	3·8	+1·9	0	7	0	0	1	0	0	0	0	0	0
Najibabad	30·3	..	34·4	7	19·8	..	14·5	31	45·6	64.4	..	31.8	31	6	..	4·4	2·8	..	0	7	0	0	6	0	0	0	0	0	0
Meerut	32 5	0	34·4	6, 11	19·8	+2·8	11.1	29	..	34.0	+13·4	25.0	30	2	+1·1	..	3·9	..	0	2	0	0	0	0	0	0	0	0	0
Bareilly	30·3	+1·8	34·6	2	19·9	+1.1	15·6	31	77·0	193·0	+160·7	49·6	13	8	+7·1	5·3	3·7	+2·1	0	10	0	0	4	0	0	0	0	0	0
Aligarh	31·4	−2.5	36·4	2,3	19·1	+0·3	14·5	31	20.8	53.2	+45.3	28.4	12	4	+3·7	15.0	11.3	+6.3	0	4	0	0	2	0	0	0	0	0	0
Mainpuri	30·4	−3·6	35·9	6	20·3	+2·0	17·0	28	78·3	136·0	+111·9	36.7	8	6	+5 0	..	..	..	0	6	0	0	1	1	0	0	0	0	0
Agra	31·1	−2·7	36·7	2	19·8	+1·4	15·9	31	27.4	37.6	+19.6	18.0	31	3	+2.2	4·8	3·3	−0.6	0	3	0	0	0	0	0	0	0	0	0
Agra (Aerodrome)	..	..	..	..	19·0	..	14·3	25	34·9	44·7	..	16·0	31	5	..	..	..	..	0	6	0	0	5	0	0	0	0	0	0
Orai	28·6	..	34·4	3	20·6	..	16.7	25	47.2	268.2	..	215.0	13	5	..	9·5	7.1	..	0	6	0	0	0	0	0	0	0	0	0
Jhansi	30·9	−3·0	34·0	5	19·6	+0.3	15·1	22	56.6	153.1	+128·0	80.2	13	7	+5·9	3.1	2·2	−1.7	0	8	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																														
Pathankot	30.7	−0·1	34·8	2	16·2	−0 7	12.1	31	3.2	25.2	−90·1	10.9	30	2	+0·8	6·8	5·0	+0·7	0	3	0	0	3	0	1	0	0	0	0
Amritsar	31.9	−0.1	37·1	1	17·0	+0·4	13·4	31	0.8	19.4	−22·4	10.4	31	2	+0·6	3·5	5·8	+0·5	0	2	0	0	3	0	1	0	0	2	0
Adampur Aerodrome (R)																														
Ludhiana	33·3	−0·2	37.8	2	17·0	−0.3	12.8	27,28	3·7	20.3	+9.4	16.3	30	2	+1.3	4 5	2.1	+0.5	0	3	0	0	1	0	2	0	0	0	0
Ferozepur	32·6	..	37·0	..	16·5	..	11·7	31	9·2	11.5	..	7.5	30	1	..	4·3	1.7	..	0	3	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	32·6	..	37·8	1	15·8	..	11·8	27	14·5	32.2	..	19.9	29	2	..	..	..	..	0	4	0	0	4	0	3	0	0	2	0
Chandigarh	32·2	+1·5	36·4	7	18·2	+1.6	13·2	29	2·6	66.5	−15.4	32.0	15	3	−0·6	8·1	5·8	..	0	3	0	0	0	0	0	0	0	0	0
Ambala	32·4	−0.8	36·4	7	19·4	+2.7	14·3	31	0	36.8	+14·7	17.4	30	3	+2·1	(f) 10 0	(m) 7·9	+4·8	0	3	0	0	1	0	0	0	0	0	0
Ambala (Aerodrome)	31·0	..	35·1	1	16·5	..	12.1	27	5·7	48·3	..	14.3	31	4	..	..	..	..	0	4	0	0	7	0	1	0	0	0	0
Patiala	32·5	..	36·7	2	17·9	..	13·3	19,20	2.2	21.6	+19.8	12.0	30	2	+1 7	6.4	7.1	..	0	3	0	0	2	0	0	0	0	0	0
Bhatinda	34·0	..	38·7	1	17.1	..	12·2	31	20·1	20.1	..	18.3	31	1	..	(a) 8.5	(a) 5.9	..	0	2	0	0	1	0	0	0	0	0	0
Karnal	31·0	..	35·5	2	17·9	..	13.0	28	10·5	33.3	..	17.5	30	3	..	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Hissar	33·5	−1.3	39·0	2	18·2	+0·9	13·3	27	1·0	19.8	+4.3	18.4	30	1	+0.4	(a) 6.4	(a) 5·1	0	0	2	0	0	1	0	0	0	0	0	0
New Delhi	31.6	−1.7	36·7	2	19·1	+0·6	13·8	31	58·3	86.0	+75.8	32·8	8	3	+2.4	4.1	2.7	−3·1	0	3	0	0	4	0	0	0	0	2	0
Palam (Aerodrome)	31·6	..	39 6	2	18·2	..	13·4	20	48·9	78.6	..	34.7	30	3	..	..	..	..	0	3	0	0	4	0	0	0	0	0	0
Himachal Pradesh																														
Mandi	28.9	+1.0	32.3	2,6	13.5	+0·3	10.0	29	3.8	30.4	−58.2	25.4	30	3	−3·0	2.8	1·5	−0.5	0	4	0	0	3	8	0	0	0	0	0
Bilaspur	30·5	..	33.4	6	14.5	..	10.4	28	21.5	71.0	..	62.4	30	2	..	..	..	..	0	2	0	1	7	20	0	0	0	0	0
Jammu and Kashmir																														
Misgar (R)																														
Gilgit (R)																														
Skardu (R)																														
Dras	..	..	..	..	..	..	..	..	..	6·5	−13.1	6.5	14	1	−0.9	..	..	..	0	..	0	0	0	0	0	0	0	0	0
Sonamarg (R)																														
Leh	16.3	+1.7	22.0	5	−0.8	0	−3·8	28	0	0	−2·5	0	..	0	−0.3	(g) 6.9	(g) 5.2	+2.1	0	0	2	0	0	0	0	0	0	0	0
Srinagar	21·4	−1.8	27.4	8	5.2	+0.4	2·2	17,21	21.9	32.4	+2·7	13.7	31	3	+0.2	5·1	4 0	+0.8	0	5	0	0	0	0	0	0	0	0	0
Srinagar (Aerodrome)	21·1	..	26.2	7	6.3	..	3.9	16, 17	21.1	25.1	..	11.7	31	2	..	..	.	..	0	4	0	0	0	0	0	0	0	0	0
Gulmarg	Closed during winter Months																													
Banihal	23.2	..	28·4	6	6·4	..	2·1	30	36·1	55.1	..	22.3	31	3	..	..	..	..	0	5	2	0	2	0	0	0	0	0	0
Jammu	33.3	..	36·2	6	..	..	..	..	..	0	..	..	..	0	..	..	(a) 7·2	..	0	0	0	0	0	0	0	0	0	0	0
Jammu (Aerodrom)	30·3	..	34·3	2	18·5		13.3	31	17·5	22·3	..	7.6	10	3	..	..	..	..	0	5	0	1	3	0	0	0	0	0	0
Rajasthan (West)																														
Ganganagar	34·5	−0·6	39·3	1	17·8	+2·4	12·3	31	8.2	8.2	+5.7	8.2	30	1	+0·7	5·7	3·3	−3.8	0	1	0	0	1	0	0	0	0	0	0
Mnupgarh (R)																														
Mahajan	35·7	..	40·0	1,2	17·9	..	11.7	21,27	0	4·0	..	4·0	30	1	..	(a) 7.6	4·9	..	0	1	0	0	0	0	0	0	0	0	0
Churu	33·9	..	38·6	1	17·4	..	12·7	24	4·0	15·0	..	15.0	30	1	..	9·6	6.3	..	0	1	0	0	1	0	0	0	0	0	0
Bikaner	35·8	−0.2	40·0	1	17·2	−1.9	10.9	21	0	0	−5·3	0	..	0	−0.4	5·4	3.3	−2·8	0	0	0	0	0	0	0	0	0	0	0
Nagaur	..	..	..	..	..	..	..	..	0	0	..	0	..	0	..	(d) 7·0	(d) 4·1	..	0	0	0	0	0	0	0	0	0	0	0
Phalodi	35.1	..	38·8	1	19·4	..	12.4	31	0	0	−1·8	0	..	0	−0·1	10.5	9.3	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	35·2	..	38·9	10	17·8	..	13·2	29	0	0	..	0	..	0	..	(a) 10·9	(a) 7·3	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	35·0	+0·3	37·8	8	19·6	+1·0	14.7	30	0	0	−8·1	0	..	0	−0.5	7·0	6.4	−1.3	0	0	0	0	0	0	0	0	0	1	0
Barmer	35·3	+0·9	37·7	7	20·5	−0·8	14·4	23	0	10.6	+8·1	10·6	1	1	+0·5	6·2	5·0	−2·6	0	1	0	0	0	0	0	0	0	0	0
Munabao (R)																														
Rajasthan (East)																														
Pilani	33·7	..	38·3	2	17.3	..	13.4	22	0	10·3	..	10·3	30	1	..	12·0	7.9	..	0	1	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, kms per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Rajasthan (East)—(Contd).																													
Sikar	33·5	..	37·0	1	15.6	..	10·1	22	0	0	..	0	..	0	..	7.5	6.3	..	0	0	0	0	0	0	0	0	0	0	0
Alwar	32·4	..	37·6	2	18.9	..	14·2	20, 28	17·8	19·6	..	16·4	8	1	..	(a) 4·0	(a) 2.0	..	0	3	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	32.2	−2·1	36·4	2	18·4	+0·5	13·8	22	23·6	23·6	+11·4	23·6	8	1	+0·3	..	..	..	0	1	0	0	4	1	0	0	0	0	0
Dholpur	31·2	..	36·5	2	19·5	..	15·2	25	52·5	71·6	..	62·6	13	3	..	5·2	3·1	..	2	3	0	0	2	2	0	0	0	0	0
Ajmer	32·7	−0·4	34·9	7	18.0	−0·1	13·3	20	2·1	2·1	−7·6	2·1	2	0	−0·7	8·0	5·2	+1·8	0	1	0	0	2	0	0	0	0	0	0
Tonk	32·3	..	34·9	1,2,5	19·1	..	12·9	23	0·4	4·6	..	4·2	7	1	..	8·3	5·6	..	0	2	0	0	3	0	0	0	0	0	0
Kota (Aerodrome)	31·7	..	34·4	5	19·8	..	14·7	23	7·1	14·4	..	7·1	13	2	..	10·1	7·5	..	0	4	0	0	2	0	0	0	0	0	0
Kota Erinpura (Jawai Dam).	31·8	−3.0	34·0	5,23	20·9	−0·4	13·0	30	4·0	9·6	−6·9	4·0	13	2	+1·0	6·4	4·1	+1·7	0	5	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	32·9	..	35.0	2,7,9	19·2	..	12·5	31	6·0	6·0	..	6·0	3	1	..	5·4	5·5	..	0	1	0	0	0	0	0	0	0	0	0
Udaipur	31·0	..	33.3	2	18·2	..	13·1	23	4·9	18·2	..	7·6	11	3	..	(a) 7·4	4·2	..	0	5	0	0	3	0	0	0	0	0	0
Jhalawar	30·8	−2·4	33·2	2	15·9	−1·7	10·1	30	15·0	18·9	+4·4	8·6	2	4	+2·9	3·8	1·9	..	0	4	0	0	2	0	0	0	0	0	0
Madhya Pradesh (West)	30·5	−2·8	33·4	2	19·4	+1·6	14.9	21, 22	50·8	96·0	+82·0	40.6	12	5	+3·5	5·7	3·7	+1·1	0	6	0	0	5	0	0	0	0	0	0
Gwalior	30·2	−3·3	34·8	2	19·2	+1·3	14·8	21, 26	156·3	188·0	+179·6	101·6	9	7	+6·4	7.0	4·3	..	0	10	0	0	6	0	0	0	0	0	0
Sheopur	30·7	−2·2	33·2	1	18·3	−0·1	13·7	28	40·8	67·8	+28·5	20·8	10	6	+4·6	8·1	6·5	+1·6	0	6	0	0	2	0	0	0	0	0	0
Shivpuri	29·3	..	33·0	2	17·5	..	12·1	24	44·9	100·7	..	34·0	12	4	..	8·3	5·6	..	0	6	0	0	0	0	0	0	0	0	0
Nowgong	31·2	−1·4	34·3	3	18·3	+0·1	13·8	18	83·2	137·2	+108·5	70·0	8	7	+5·5	5·9	3·8	+1·9	0	9	0	0	2	0	0	0	0	0	0
Guna	29·5	−2·5	32·4	2	17·5	+0·7	12·7	23	34·7	97·0	+70·3	29·6	7	6	+4·4	9·9	6·7	..	0	7	0	0	5	0	0	0	0	0	0
Nimach	30·2	−2·6	32·6	2	18·0	−0·1	13·3	21	4·0	19·1	+3·4	8·7	8	2	+1·1	8·5	6·5	+0·2	0	5	0	0	4	0	0	0	0	0	0
Rajgarh	30·3	..	32·1	1	17·3	..	11·7	23	37·8	110·4	..	52·8	12	5	..	5·4	4·5	..	1	7	0	0	2	0	0	0	0	0	0
Sagar	28·5	−2·7	31·0	2	18·1	−0·7	15·3	24	33·0	213·0	+185·3	63·0	13	7	+5·1	12·1	10·0	..	0	9	0	0	4	1	0	0	0	0	0
Ratlam	30·4	−1·9	32·8	6	17·9	−1·2	13·4	23	20·0	50·6	+2·5	31·4	12	3	+1·0	11·5	7·8	+1·9	0	4	0	0	1	0	0	0	0	0	0
Bhopal (Bairagarh)	29·3	−1·8	31·5	2,7	18·2	+0.4	14·2	22	25·8	121·3	+79·1	40·7	12	7	+4·6	11·7	9·2	+3·9	1	8	0	0	7	0	0	0	0	0	0
Ujjain	29·8	..	32·0	6	17·9	..	13·0	22	..	75·2	..	30·2	12	3	..	..	6·4	..	1	6	0	0	0	0	0	0	0	0	0
Hoshangabad	30·1	−2·0	32·9	27	19·1	−0·2	14·6	23	61·6	186·0	+153.5	49·2	13	10	+8·0	5·8	4·2	+2·1	0	10	0	0	0	0	0	0	0	0	0
Indore	29·0	−2·5	31·1	6	17·8	+1·0	13·4	19, 27	30·2	59·8	+29·1	20·5	12	6	+4·0	13·2	10·0	..	0	6	0	0	1	1	0	0	0	0	0
Rajpur (Jhabua)	30·8	..	33·4	6	17·9	..	13·0	19, 24	17·4	54·2	..	27·8	12	4	..	5·9	4·1	..	0	5	0	0	0	0	0	0	0	0	0
Chhindwara	28·5	−0·9	31·7	7	17.3	−0·3	12·0	22, 23	29·9	72·8	+3·7	29·3	10	7	+2·7	7·3	4·8	+0.5	0	7	0	0	2	0	0	0	0	0	0
Seoni	28·4	−1·8	31·7	3	18·6	+0.8	14·9	24	24·0	52·0	−5·7	12·0	8	7	+3.9	9.2	6·9	+3·0	0	10	0	0	3	0	0	0	0	0	0
Betul	27·6	−1·7	30·3	7	16·7	−0·5	11·2	19	85·8	166·0	+103·3	30·2	12	10	+6·0	8·3	5·0	+0·9	0	10	0	0	6	0	0	0	0	0	0
Khandwa	30·5	−3·1	32·6	6	18·9	0	13·6	25	23·7	127·5	+92·2	59·6	11	4	+2·0	9·4	7·0	+2·8	0	5	0	0	4	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	30·2	−1·1	33·0	3	19.7	+0.9	15·5	18, 22	3·2	27·8	−21·2	19·1	13	3	+0.8	5·6	3.7	+0·3	0	4	0	0	1	0	0	0	0	0	0
Sidhi	31·0	..	33·2	11	19·3	..	13.5	19	0	0·4	..	0·4	1	0	..	6·9	4·4	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	29·6	−0·8	32·0	3	18·1	+0·8	13·1	19	3·4	131·9	+69·2	85·5	10	4	+1·3	5·8	4·1	+1·2	0	6	0	0	1	0	0	0	0	0	0
Jabalpur	30·5	−0·5	33·2	3	19·4	+1·9	14·5	19	38·4	59·0	+11·3	30·0	8	5	+2·7	7·4	4·5	+2·2	1	8	0	0	2	0	0	0	0	0	0
Ambikapur	27·6	−1·4	31·0	7	18·2	+0·2	12·9	22	30·9	287·1	+239·9	206·0	1	5	+0·7	10·9	8·0	+1·3	0	8	0	0	3	2	0	0	0	0	0
Pendra	27.2	−1·2	30·0	4	18.7	+0·9	14·3	24	23·8	65·5	−10·4	18·6	14	6	+1·9	8·0	6·0	..	0	9	0	0	2	2	0	0	0	0	0
Mandla	29·4	−1·1	31·4	6	18·2	+0·6	12·8	26	19·4	48·4	−17·1	27·2	9	4	+0·3	6·5	3·6	+1·5	0	10	0	0	1	6	0	0	0	0	0
Champa	29·5	−1·8	32·7	4	21·2	−0·6	16·2	23	31·6	76·2	+16·7	20·6	13	8	+3·4	6·5	5·6	+0·6	0	10	0	0	4	0	0	0	0	0	0
Raigarh	30·5	−1·4	33·8	14	21·9	−0·4	17·2	23	56·6	87·4	+30·5	18·8	29	8	+3·7	4·9	4·4	0	0	11	0	0	1	0	0	0	0	0	0
Raipur	29·6	−1·8	33·7	4	21·2	+0.3	16·5	24	22·0	44.6	−10·5	9.6	15	7	+3·7	9·4	6·8	+1.3	0	9	0	0	6	1	0	0	0	0	0
Kanker	29·2	−1·1	31·9	13	21.1	+1·5	15·2	23	14·6	54·3	−58·5	33·9	8	4	−1·3	5·3	3·5	−0·2	0	7	0	0	1	0	0	0	0	0	0
Jagdalpur	28·7	−1·0	31·9	14	20·7	−1·3	15·8	23	50·4	220.2	+109·5	96·4	17	11	+5·3	6.2	4·0	..	0	15	0	0	7	2	0	0	0	0	0
Gujarat Region																													
Deesa	34.7	..	36.5	8	17·3	..	12·3	30	0	0	..	0	..	0	..	7·9	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	34·2	..	35·8	8	18·9	..	12·6	30	6·4	6·4	..	6·4	6	1	..	6·3	3·4	..	0	1	0	0	0	0	0	0	0	0	0
Idar	32·7	..	33·9	8	19·6	..	11·0	30	6·2	6·2	..	6·2	6	1	..	6·3	4·9	..	0	1	0	0	0	0	0	0	0	0	0
Ahmedabad	34·3	−1.9	36·3	7	19·8	−1·0	14·0	31	0	0	−8·9	0	..	0	−0·7	7·6	4·4	−0·4	0	0	0	0	0	1	0	0	0	0	0
Dohad	30·7	−2·8	33·0	7	18·7	−1.1	14·5	31	9·4	40·2	+9·1	22·4	8	2	+4·1	8·9	8·0	−0·6	0	3	0	0	2	0	0	0	0	0	0
Baroda (Aerodrome)	33·9	..	36·0	7	19·8	..	13.7	31	1·2	4·5	..	2·8	3	1	..	8·3	5·9	..	0	4	0	0	0	1	0	0	0	0	0
Baroda	34·0	−1·2	36·1	7	20.3	+0·5	14·5	31	5·1	5·6	−39·1	5·1	12	1	−0·3	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Broach	34·2	−1·7	36·4	7,16	21·1	−1·0	15·8	31	0·1	42·9	−12·8	34·2	1	2	−0.5	6·0	4·6	−0·6	0	3	0	0	0	0	0	0	0	0	0
Surat	34·2	−0·3	37·1	17,18	21.4	−0·9	16.8	31	12·2	20·1	−18·2	5·5	2	4	+2·0	(f) 3·9	(g) 3·0	−1·2	0	6	0	0	0	0	0	0	0	0	0
Saurashtra and Kutch																													
Bhutakia Bhimasar	34·4	..	36·8	13,16	22·2	..	17·8	30	0	0	..	0	..	0	..	14·9	13·1	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	32·8	..	35·0	24	18·7	..	11·2	30	3·2	3·2	..	3·2	3	1	..	10.7	7·0	..	0	1	0	0	0	7	0	0	0	0	0
Bhuj (Rudramata)	33.5	−2·1	36·1	14	18·6	−2·8	12·9	31	4·6	4·6	−3·8	4·6	2	1	+0·5	11·5	8·2	−1·5	0	1	0	0	1	0	0	0	0	0	0
Kandla	34·5	..	37.2	10	19·9	..	13.7	30	0·8	0·8	..	0·6	3	0	..	10·5	9·1	..	1	1	0	0	3	0	0	0	0	0	0
New Kandla	33.1	..	36·6	11	23·5	..	17·3	30	24·0	24·8	..	24·0	6	1	..	11·5	12·2	..	0	2	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days. (f) Mean of 25 days. (g) Mean of 24 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—(*Contd.*)																														
Mandvi	30·2	+0·1	36·1	9	21·9	−0·9	16·7	30,31	2·0	2·0	−1·4	2·0	6	0	−1·5	18·3	15·3	−1·6	0	1	0	0	0	3	0	0	0	0	0
Surendranagar	34·5	−0·3	36·6	14	22·0	−0·4	16.7	31	0	40·5	+16.2	24·4	3	2	+0·1	9·6	8·0	−0·1	0	2	0	0	2	0	0	0	0	0	0
Jamnagar (Aerodrome)	33.1	−1·5	35·4	13	20·8	−0·2	15.8	31	5·1	5·1	−2·8	5·1	3	1	+0·5	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Dwarka	31·1	+0·4	34.3	20,23	23·9	−0·3	20·2	31	0	0	−6·3	0	..	0	−0·3	17.9	14·6	+3·5	0	0	0	0	0	0	0	0	0	0	0
Rajkot	33·9	−0.6	35·9	14	19·7	−0·7	13.3	30	8·1	15·1	−52·1	5·8	2	3	+0·4	14 6	11·5	−0·6	0	4	0	0	1	4	0	0	0	0	0
Bhavnagar (Aerodrome)	34·2	−0·3	39·0	8	22·1	−0·1	17.4	30,31	0	0	−22·9	0	..	0	−0·9	18·3	13·9	+3·5	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	32·1	..	35·0	23	21 0	..	15·3	30	30·2	45·9	..	21·7	2	2	..	14·0	9·9	..	0	4	0	0	2	1	0	0	0	0	0
Porbander	31·6	−0·9	35·5	24	23·0	−0·2	18.7	30	36·4	52·4	+2·5	39·6	6	2	+0·1	13·4	11·3	−0·3	0	3	0	0	0	0	0	0	0	0	0
Keshod	33·6	..	35·4	24.28	19·7	.	15·0	25,31	0.2	0·2	..	0·2	6	0	..	14·8	12·1	..	1	0	0	0	1	1	0	0	0	0	0
Mahuva	33·8	..	37·4	8	20·8	..	15.8	30	0	3·4	..	3·4	7	1	..	10.7	(a) 7·9	..	0	1	0	0	0	0	0	0	0	0	0
Veraval	32.3	..	35·9	24	21.4	..	17.6	20	7·6	22·3	+6·6	12.6	1	3	+2·2	17·8	14·7	..	0	3	0	0	0	2	0	0	0	0	0
Konkan																														
Dahanu	30·9	−0·8	33·9	27	22·9	−0·1	18·6	19	53·3	106·8	+45·8	52·5	3	3	+0·2	(a) 16·5	(b) 12·7	+2·1	0	6	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	31·3	−0·5	34·6	23	22·2	+0·1	18·5	20	8·7	86·0	−12·8	27·0	9	7	+3 0	11·5	8.4	..	1	7	0	0	4	0	0	0	0	0	0
Bombay	31·8	+0·2	34·2	19	24·1	−0·1	20·7	11	27·5	101.2	+36 7	42·5	11	4	+0·9	7 9	6·4	−3·4	1	8	0	0	4	0	0	0	0	1	0
Alibag	30·3	−1·1	33·6	21	22 6	−1·0	19·5	20	..	89·8	−38·0	37·8	9	7	+1·9	..	11·2	+2·8	0	9	0	0	5	0	0	0	0	0	0
Harnai	29·2	−0·9	30·6	25,26	23 9	−0·6	21·7	12	18·0	182·0	+89·8	56·8	8	8	+3·9	11·6	11·2	+0·9	0	10	0	0	4	0	0	0	0	0	0
Ratnagiri	30 6	..	33·9	25	22 5	..	19·5	21	102·0	229·8	+119·8	111·2	8	10	4·6	10.1	8·2	..	0	13	0	0	5	0	0	0	0	0	0
Devgarh	30·6	0	33·0	24	23 6	−0·9	22·0	24	37.6	144·0	+16 6	51·8	8	8	+1·5	14.7	13·0	+2·5	0	10	0	0	4	0	0	0	0	0	0
Vengurla	30·3	−0·7	33·9	25	22·5	−0·8	19·8	20,21	48 0	104·7	−33·9	24.5	28	8	−0·3	9·0	5·1	..	1	14	0	0	9	0	0	0	0	0	0
Madhya																														
Nandurbar	31.6	..	34.8	8	..	..	..	..	10·8	110·4	..	34·4	12	6	..	(a) 7·8	(a) 5 6	..	0	6	0	0	0	0	0	0	0	0	0
Jalgaon	31·8	−2·3	34·3	6	19·0	0·3	11·7	19	13·6	176·4	+138·9	87·6	12	5	+3·2	11·3	8.8	+2·2	0	6	0	0	4	0	0	0	0	0	0
Malegaon	31·5	−1·7	35·6	7	18·2	−0·6	12.6	19	17·3	130.4	+87 0	37•2	11	6	+3·3	10·4	7·6	+1·3	0	6	0	0	1	0	0	0	0	0	0
Deolali (Aerodrome)	29·9	..	33·3	7	19·9	..	11·6	19	15·0	67·8	..	29.3	9,22	5	..	10·0	6·7	..	0	6	0	0	3	0	0	0	0	0	0
Ahmednagar	30·9	−0.5	36·8	5	19·0	+0·3	13·9	24	26.4	126.3	+71.2	52·2	8	5	+1·6	9·3	7·0	−0·7	0	6	0	0	6	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	533.2	+353·1	250·0	10	8	+1·7	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	30·2	..	32·8	6,23	18.6	..	13·9	20	7.2	75·7	..	29 7	6	4	..	..	..	..	0	6	0	0	3	0	1	0	0	0	0
Poona	30·7	−1.2	33·3	23	18 8	0·3	13·4	20	10·1	07·3	+17·4	36·9	9	4	−1·1	4·9	3·2	−3·2	2	6	0	0	3	0	0	0	0	0	0
Jeur	31·1	0·7	34·8	8	19·3	−0·3	14·4	19	26·0	119 6	+36·6	29·3	8	7	+2·4	0·6	8·1	+1·1	0	10	0	0	2	0	0	0	0	0	0
Baramati (R)																														
Sholapur	30·8	−1·8	31·0	7	30·5	+0·1	16·1	24	22·1	206•3	+129·1	60·4	9	8	+3·7	10·6	8·4	−1·1	0	10	0	0	0	0	0	0	0	0	0
Miraj	30·3	−0·2	33·2	23	19·6	−0·6	15·5	20	13·4	89·9	−14·8	33·4	29	7	+0·6	..	..	..	0	8	0	0	4	0	0	0	0	0	0
Kolhapur	29.6	−0·9	32·6	23	19·5	−0·4	16·4	21	22·4	153·5	+20·9	17·4	28	8	+0·1	12·5	9·8	+0·9	1	12	0	0	6	0	0	0	0	0	0
Marathwada																														
Aurangabad	30·4	−1·7	33·8	3	19·0	−0·4	14·6	19	78·6	256•3	+210.8	124·6	10	5	+2·2	11.0	9·4	+1·5	0	6	0	0	1	0	0	0	0	0	0
Aurangabad (Chikalthana)	29·9	..	33·3	8	18·1	..	12·4	19,24	71·0	204·3	..	94·5	10	7	..	13·6	9·8	..	0	10	0	0	3	0	3	0	0	0	0
Parbhani	39·8	−2·4	32·8	7	19·9	+0·5	15·6	24	235·0	376·2	+319·9	130.8	10	9	+5.6	10·4	7·8	+1·1	0	9	0	0	6	0	0	0	0	0	0
Nanded	30·5	..	33·3	7	20·7	..	14·2	24	(f) 140·0	(g) 278·1	..	..	..	..	..	(e) 5·8	(f) 5·0	..	..	..	0	0	0	0	0	0	0	0	0
Bir	29·8	..	33·0	8	19·3	..	13·0	19	74·4	261·7	..	85.3	10	9	..	8·3	(a) 5·1	..	0	14	0	0	9	0	0	0	0	0	0
Vidarbha																														
Gondia	30·7	−0·5	32·5	4	20·8	−0·2	16·9	23,26	13·8	34·8	−33·7	13·2	19	4	+0·1	6·6	4·1	+0·9	0	5	0	0	1	0	0	0	0	0	0
Nagpur (sonegaon)	30·9	−1·2	34·1	1	19·5	−0 2	14·5	23	60.2	124·8	+69·7	27·7	1	7	+3·9	12·5	9·7	..	0	9	0	0	4	0	0	0	0	3	0
Amravati	30·7	−2·0	33·9	7	20·2	−0·2	14·5	19	28·0	98·4	+49·9	21.4	1	6	+3.4	11·7	9·3	+4·2	0	8	0	0	1	0	1	0	0	0	0
Akola	31·2	−2·5	35·1	6	19·6	+0·2	14·7	19	102 2	165·5	+119·3	77·3	9	5	+2·5	7·7	5·3	+1·0	0	8	0	0	0	0	0	0	0	0	0
Bramhapuri	30·6	..	32·8	3	21·8	..	17·3	25	22·6	63.4	..	19·5	9	8	..	7·7	5·1	..	0	9	0	0	3	0	0	0	0	0	0
Buldhana	27·7	−2·1	31·5	6	18·8	−1·5	15·0	19,25	128·7	357·4	+314·6	161·5	11	4	+1·3	9·8	7.4	+1·0	1	4	0	0	0	0	0	0	0	0	0
Yeotmal	29·6	−1·3	32·3	6	..	..	..	..	32·4	154·8	+101·2	38·6	10	7	+3·5	11.7	9·2	+1·9	0	9	0	0	4	0	0	0	0	0	0
Chanda	30·5	−1·6	32·8	3	21·5	+1·4	16·2	24,25	46.8	101·8	+50·0	39·0	8	5	+2·1	7·5	4.7	+2·0	0	8	0	0	6	0	0	0	0	0	0
Pusad	..	..	..	..	..	..	..	..	63·1	350·5	..	95·4	11	8	..	(g) 9·3	(g) 6·9	..	0	9	0	0	0	0	0	0	0	0	0
Sironcha	31.1	−1·0	33·6	9	22·7	−0·2	18·8	24	46·8	161·1	+66·8	65·8	2	8	+2·1	6·6	4·3	+0·3	0	10	0	0	5	0	0	0	0	0	0
Coastal Andhra Pradesh																														
Kalingapatam	30·5	−0·7	35·6	5	22·5	−1·8	20·8	23	76·0	255.0	+55·1	37·4	9	14	+6·7	11.5	8·6	+1·0	0	16	0	0	9	0	0	0	0	0	0
Vishakapatnam	30·6	−1·7	34·0	3	24·0	−0·4	22·2	19	262·8	459·7	+260·8	183·8	19	15	+6 7	12.4	7·3	+0·5	1	17	0	0	14	0	0	0	0	3	0
Kakinada	29·8	−1·3	36·0	5	24·0	−0·4	22·3	29	89·6	337·8	+121·4	94·6	17	11	+2·4	13·0	9·3	+1·4	1	13	0	0	0	0	0	0	0	0	0
Nidadavole	30·2	..	34·7	5	23·9	..	22·5	25	91·2	307·6	..	48·0	6,9	16	..	7·5	5·3	..	0	17	0	0	7	0	0	0	0	0	0

(a) Mean of 30 days (g) Total for 24 days. (b) Mean for 29 days f) Mean of 25 day.

(R) Register not received.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—*Contd.*																													
Rentachintala	31·5	−1·6	34·8	2	23·4	+0·2	21·1	28	46·0	221·0	+94·3	86·0	29	9	+1·4	6·7	4·3	−2·5	0	11	0	0	1	0	0	0	0	0	0
Gannavaram	30·5	−1·0	34·1	5	24·3	+0·1	21·9	28	44·5	217·1	+73·1	74·2	2	9	+1·2	12·9	9·2	+0·2	2	14	0	0	10	0	0	0	0	0	0
Nagarjunakonda	32·2	..	35·9	2	23·8	..	20·6	18	52·4	267·9	..	135·0	29	8	..	11·6	9·1	..	0	10	0	0	1	0	0	0	0	0	0
Masulipatam	30·4	−1·0	33·5	2	24·7	+0·3	22·5	29	9·2	207·8	−10·6	49·5	8	12	+3·5	5·9	4·1	−1·7	0	14	0	0	3	0	0	0	0	0	0
Ongole	32·1	..	36·5	2	24·4	..	21·1	29	10·8	236·1	..	69·8	7	11	..	8·4	5·9	..	0	14	0	0	0	0	0	0	0	0	0
Nellore	33·0	+0·4	36·3	5	24·8	+0·4	23·0	31	9·8	121·0	−121·8	61·3	25	9	+0·1	7·7	5·1	+0·4	0	13	0	0	3	0	0	0	0	0	0
Telangana																													
Ramagundam	31·1	−1·5	34·6	14	22·8	−0·2	18·7	24	25·0	219·4	+141·3	62·2	2	10	+5·6	8·7	5·9	+1·5	0	13	0	0	4	0	0	0	0	0	0
Nizamabad	29·4	−2·4	32·5	6	21·0	+1·0	16·0	24	22·0	139·0	+88·2	50·0	9	6	+3·0	7·1	5·5	+1·8	0	7	0	0	3	0	0	0	0	0	0
Hanamkonda	30·2	−1·7	32·7	15	22·5	+0·9	19·2	24	114·8	286·6	+220·3	94·6	28	10	+5·9	10·0	7·3	+2·5	0	13	0	0	2	0	0	0	0	0	0
Hakimpet* (Aerodrome)	27·9	..	30·3	6	20·3	..	18·1	24	56.6	189·8	..	56·7	8	8	..	..	..	..	0	9	0	0	6	1	0	0	0	0	0
Bhadrachalam	31·0	−1·0	34·0	13	23·5	+0·5	21·4	24	44·0	131·0	+20·9	30·5	8	10	+2·6	6·1	4·2	−0·2	0	12	0	0	1	0	0	0	0	0	0
Hyderabad (Begumpet)	28·6	−2·0	31·6	5,14	20·2	+0·9	15.9	23	119·7	206·8	+144·6	78·8	28	7	+2·7	14·0	9·6	+1·4	0	10	0	0	4	3	0	0	0	0	0
Khammam	31·1	..	35·4	11	23·5	..	21·4	28	58·4	138·4	..	30·6	7	8	..	5·5	3·6	..	0	11	0	0	0	0	0	0	0	0	0
Mahbubnagar	29·3	..	32·2	14,15	20·9	..	19·3	28	57·8	211·4	..	50·4	6	11	..	9·8	7·9	..	0	14	0	0	2	1	0	0	0	0	0
Rayalseema																													
Kurnool	32·1	−0·5	35·6	5	22·8	+0·7	19·5	19	41·8	193·2	+111·9	43·0	29	6	+1·1	9·5	8·6	+3·6	0	10	0	0	7	0	0	0	0	0	0
Anantapur	32·5	+0·9	35·2	2	23·1	+0·6	20·7	19	29·9	102·7	−0·6	24·8	8	7	+1·5	12·3	11·1	+3·5	0	11	0	0	6	0	0	0	0	0	0
Cuddapah	32·6	+0·7	35·9	2	24·0	+0·4	21·5	28,29	47·0	132·2	+8·8	36·2	29	8	+1·2	7·1	5·3	+0·7	0	10	0	0	0	0	0	0	0	0	0
Aroyavaram	29·8	..	30·0	16	20·6	..	18·5	19	17·3	109·7	..	37·0	27	8	..	10·0	7·5	..	1	9	0	0	0	0	0	0	0	0	0
Madras State																													
Madras (Nungambakkam)	31·7	..	33·5	4	24·1	..	21·7	29	..	204·9	..	55·3	8	11	..	..	5·7	..	2	12	0	0	10	0	0	0	0	0	0
Madras (Ninambakkam)	31·9	−0·4	33·6	10,18	24·3	+0·4	22·2	29,30	79·6	267·7	−38·1	71·4	29	12	+1·3	11·3	8·5	−2·3	0	16	0	0	12	0	0	0	0	2	0
Vellore	32·6	+1·0	37·1	2	23·0	+0·3	21·1	16,23	26·2	185·5	−64·2	24·2	23	9	−0·2	5·9	5·9	+2·7	0	12	0	0	12	0	0	0	0	0	0
Tambaram (Aerodrome)	32·7	..	35·3	5	..	..	..	..	62·6	336·6	..	77·0	29	12	..	..	..	..	0	13	0	0	11	0	0	0	0	0	0
Tiruppattur	31·5	..	33·5	1	20·8	..	19·0	28	48·0	179·3	..	34·8	7	14	..	6·1	4.2	..	0	14	0	0	4	0	0	0	0	0	0
Cuddalore	32·0	+0·6	34·4	1	23·6	−0·1	22·2	6	1·5	108·1	−184·8	32·9	17	6	−4·8	9·5	7·7	+2·7	0	11	0	0	7	0	0	0	0	0	0
Kallakurichchi	32·9	..	35·1	11	23·7	..	21·4	27	1·0	75·9	..	28·0	27	5	..	6·7	5·2	..	1	8	0	0	5	0	0	0	0	0	0
Salem	32·3	+0·2	34·7	11	23·0	+0·8	21·3	19	44·8	227·0	+63·4	66·0	16	11	+1·3	7·4	6·2	+2·3	0	18	0	0	18	0	0	0	0	0	0
Coimbatore (Pilamedu)	31·0	..	33·3	15	21·4	..	18·7	11	36·8	77·3	..	25·6	18	8	..	19.7	17·7	..	1	10	0	0	10	0	0	0	0	0	0
Coimbatore	31.6	+0·7	33·5	15	21·5	0	18·9	12	18·3	94·8	−65·5	40·2	26	4	−5·7	11·8	9·0	+4·7	2	8	0	0	8	0	0	0	0	0	0
Nagapattiam	32·1	+0·6	36·5	21	25·1	+0·4	23·3	3	11·0	113·3	−155·4	34·1	24	6	−4·2	11·0	9·2	+2·3	0	9	0	0	6	0	0	0	0	0	0
Tiruchchirappalli	32·8	+0·4	35·1	16	23·6	+0·3	21·6	16	22·2	209·4	+26·3	51·2	24	12	+2·5	11·2	9·6	+0·4	0	15	0	0	16	0	0	0	0	0	0
Vedaranniyam	32·0	..	34·0	11	23.0	..	20·7	2	37·2	246·7	..	64·2	2	10	..	7·8	6·2	..	0	10	0	0	5	0	0	0	0	0	0
Adirampattinam	32·4	..	35·4	11	24·1	..	21·8	16	52·4	239·8	..	39·4	17	9	..	11·0	9·6	..	0	12	0	0	9	0	0	0	0	0	0
Madurai	34·3	+2·0	36·9	10	24·1	+0·4	22·1	23	19·5	95·1	−93·4	33·8	23	8	−2·2	6·1	4·9	+0·6	0	8	0	0	0	0	0	0	0	0	0
Madurai (Arodrome)	33·3	..	36·6	10	23·6	..	21·0	5	35·2	91·6	..	26·8	23	7	..	10·5	8·5	..	0	7	0	0	10	0	0	0	0	0	0
Tondi	31·2	..	33·3	19	24·7	..	22·0	19	16·2	202·2	..	99·4	24	6	..	15·9	13·2	..	0	7	0	0	4	0	0	0	2	0	0
Pamban	31·8	+0·7	32·8	12	25·5	+0·1	22·9	31	10·8	106·2	−110·5	41·1	23	3	−6·4	11·4	11·7	+0·1	0	4	0	0	3	0	0	0	0	0	0
Tuticorin	32·3	+0·4	36·4	1,10	24·5	−0·6	21·6	20	5·0	63·1	..	..	..	.	..	16·5	12·1	−0·2	0	5	0	0	7	0	0	0	0	0	0
Palayancottai	34·9	+1·0	37·8	16	24·0	−1·1	21·2	19	95·0	171·4	+4·8	29.4	19	6	−2·6	7·9	6·0	−2·5	1	7	0	0	4	0	0	0	0	0	0
Kanjakumari	30·5	..	31·9	30	24·3	..	23·1	20	21·4	37·2	..	16·6	24	3	..	16·4	13·7	..	0	4	0	0	1	0	0	0	0	0	0
Coastal Mysore																													
Karwar	29·6	−0·1	33·8	24	23·0	−0.6	20·6	20	121·2	303·0	+155·7	60.2	28	1	+7·7	10·5	6·3	..	0	16	0	0	2	0	0	0	0	0	0
Honavar	30·3	−0·8	33·1	20	22·5	−0·6	21·0	20	59·7	379·0	+272·6	73·1	22	1	+10·9	8·3	7·4	+3·9	0	20	0	0	11	0	0	0	0	0	0
Mangalore (Bajre)	29·5	..	32·3	24	22·7	..	21·8	11	71·8	282·3	..	50·6	29	1	..	7·1	5·0	..	1	22	0	0	13	2	0	0	0	0	0
Mangalore	30·0	+0·1	32·1	22	22·7	−1·0	19·6	25	80·9	459·1	+252·1	117.6	25	18	+7·6	8·5	7·1	+0·5	0	23	0	0	11	0	0	0	0	0	0
Interior Mysore North																													
Bidar	28·1	−1·7	31·0	6	20·1	−0·8	18·0	24	49·9	208·4	+152·3	78·8	9	7	+3·3	12·7	10·0	+1·1	0	10	0	0	3	0	0	0	0	0	0
Gulbarga	30·6	−1·9	34·0	6	20·6	0	18·4	20	16·4	203·0	+134·7	60.4	8	7	+3·0	13·1	11·5	+2·5	0	7	0	0	0	0	0	0	0	0	0
Bijapur	30·8	−0·7	34·0	6	20·9	+0·5	16·5	24	34·4	119·4	+46·0	38·8	9	8	+3·9	6·5	5·4	+0·1	1	9	0	0	1	0	0	0	0	0	0
Raichur	31·2	−1·0	34·6	2	21·5	−0·8	18·6	19	13.8	133·7	+56·2	30·5	29	8	+3·7	11·5	10.9	+1·7	0	11	0	0	0	0	0	0	0	0	0
Belgaum	28·9	−1·4	33·1	22	18·9	+0·6	15·3	20	28·0	44·4	−74·7	11·8	8	6	−1·5	8·1	6·7	−1·1	0	13	0	0	1	0	0	0	0	0	0
Belgaum (Samra)	28·1	..	30·7	23	19·0	..	16·3	21	25·3	78·9	..	22·0	6	5	..	..	..	..	0	12	0	0	7	2	0	0	0	0	0
Gadag	30·3	−0·1	33·1	22	20·2	−0·4	18·3	19	86·4	173·5	+76·7	40·8	15	7	−0·3	11·0	9·2	+1·0	1	11	0	0	6	1	0	0	0	0	0
Interior Mysore (South)																													
Bellary	31·7	−0·4	34·2	15,22	22·7	+0·9	21·3	27	64.0	118·6	+12·9	60·0	27	7	+1·1	10·3	8·6	+3·6	0	8	0	0	0	0	0	0	0	0	0
Chitradurga	28·4	−1·2	30·9	22	20·5	+0·4	18·9	19	37·8	193·8	+72·9	47·4	26	11	+4·6	8·3	7·3	+1·3	1	15	0	0	7	0	0	0	0	0	0
Shimoga	29·2	0	31·3	16,22	19·6	−0.5	16·1	20	35·4	79·6	−89·0	24·4	23	7	−2·2	6·0	3·8	−0·2	0	13	0	0	0	0	0	0	0	0	0
Agumbe																													

* Mean of 30 days.

Division and station	Air temperature in °C.								Rain fall millimeters						No. of days (2.5 mm. or more)		Wind speed, kms. per hour.			Weather phenomena—No. of days with									
	Mean maximum	Departure from normal.	Height	Date	Mean minimum	Departure from normal.	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal.	Heaviest fall 24 in hours	Date	Total in the month	Departure from normal	Mean between 0830.1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—*Contd.*																													
Balehannu	25·2	—0·9	28·9	20	17·7	—0·3	16·0	21	..	108·7	—90·2	21·3	26	11	—0·4	..	..	..	0	17	0	0	0	0	0	0	0	0	0
Hassan	27·2	—0·7	29·5	5, 6	17·7	—0·5	..	..	44·6	212·0	+57·8	41·2	25	15	+5·9	8·6	6·4	+1·1	0	17	0	0	3	2	0	0	0	0	0
Bangalore	27·2	—0·4	29·1	14	19·36	+1·0	17·4	3	67·0	181·5	+32·4	38·5	8	11	+2.5	10·0	8·4	+1·8	1	18	0	0	10	2	0	0	0	1	0
Bangalore (Aerodrome)	27·8	..	30·1	15	18·7	..	17·0	3,10	55·2	226·9	..	73·4	22	15	..	..	..	..	0	16	0	0	11	2	0	0	0	2	0
Mysore	30·0	+1·0	31·6	11	19·8	+0.4	17·3	16	22·4	270·2	120.9	71·5	25	11	+2·4	11·4	10·3	+2·9	0	12	0	0	5	0	0	0	0	0	0
Kerala																													
Calicut	30·2	0	32·8	31	23·7	—0·1	22·5	11	39·6	206·8	—54·1	57.4	2	11	—0·2	10·8	8·9	+1·8	0	13	0	0	5	2	0	0	0	0	0
Palghat	30·6	..	34·3	21	22·8	..	21.8	4days	146·4	296·2	..	48·6	2	14	..	11·5	8·4	..	0	19	0	0	9	0	0	0	0	0	0
Fort Cochin	29·4	+0·3	31·9	21	23·9	—0·2	22·4	2	29·0	209·0	-130·6	67·5	2	11	—3·2	11·6	8·7	+2·7	0	17	0	0	10	0	0	0	0	0	0
Cochin (Naval Air-station)	30·3	..	31·7	21	23·8	..	22·6	10	34·3	196·5	..	65·2	2	11	..	9·0	7·3	..	0	17	0	0	14	0	0	0	0	2	0
Alleppey	30·6	+0·7	31·6	21,22, 23	23·7	—0·3	22·6	1	27·6	210·2	—139·7	68·2	2	11	—4·5	13·9	10·6	+0·9	0	19	0	0	9	0	0	0	0	0	0
Punalur	32·3	..	34·1	23	22·3	..	20·4	12	152·6	316·0	..	80·0	23	11	..	5·3	3·3	..	0	12	0	0	1	0	0	0	0	0	0
Trivandrum	30·4	+0·4	32·5	29	23·4	0	22·2	24	29·7	132·6	—139·9	27·8	24	10	—2·2	11·5	7·9	+1·9	0	13	0	0	15	0	0	0	0	0	0
Trivandrum Aerodrome	30·5	..	31·1	22	23·3	..	22·0	24	..	106·7	..	44·2	26	6	..	..	6·7	..	0	11	0	0	8	0	0	0	0	0	0
Arabian Sea Islands																													
Amini*																													
Minicoy*																													
Hill Stations excluding Kashmir																													
Dalhousie	23·3	+1·7	27·9	6	11·7	0	..	..	24·0	139·0	+68·1	55·0	30	6	+3·6	2·8	2·7	—0·4	0	6	0	0	6	0	0	0	0	0	0
Dharmsala	24·2	0	27·8	6	15·0 (i)	—1·0	8·9	30	2·4	104·4	+23·2	51·2	30	6	+2·5	5·5	4·0 (a)	—0·2	0	6	0	0	5	0	0	0	0	0	0
Simla	13·5	+0·6	22·5	7	10·4	—0·4	0·2	30	7·8	71·1	+41·1	42·4	30	3	+1·1	4.4	3·5	+1·6	0	6	1	0	3	1	0	0	0	0	0
Dharmpur	..	..	..	..	..	..	..	..	..	67·9	+41·5	51·2	30	3	+1·7	..	..	..	0	..	..	..	..	..	..	..	..	..	..
Lokpol	2·8	..	5·6	2,5,7	—1·7	..	—5·4	31	..	239·0	..	45·2	31	12	..	..	..	..	0	13	13	5	0	0	0	0	0	0	0
Badrinath (R)																													
Joshimath	20·1	..	24·8	4,7	10·1	..	1·8	31	78·8	152·5	..	40·4	15	10	..	5·2	5·7	..	0	14	0	0	8	3	0	0	0	0	0
Mussoorie	13·9	+1·1	24·6	6	10·5	—0·2	2·6	31	55·4	92·6	—63·6	27·4	9	6	+3·7	8·6	6·8	—0·1	0	7	0	0	6	0	0	0	0	0	0
Mukteswar	17·4	—0·9	22·0	4	9·5	—0·3	2·1	30,31	87·0	126·2	+78·5	50·2	13	6	+3·7	10·5	11·0	+3·4	0	10	1	0	6	8	0	0	0	0	0
Nainital	17·8	—0·7	22·3	6	9·8	0	4.4	31	129·0	214·0	—91·2	48·0	31	9	+3·5	9.9	6·9	—0·4	0	13	0	0	0	1	0	0	0	0	0
Kalimpong	25·3	+3·1	28.9	1,3	17·0	+1·3	13·4	30	68·6	195·6	+68·3	127·0	2	3	—1·8	5·2	4·3	—6·0	0	3	0	0	0	0	0	0	0	0	0
Darjeeling	18·1	+0·3	21.5	26	11·6	+0·5	8.2	31	67·8	154·2	—16·8	46·2	1	6	+1·2	2·5	2·0	+0·1	0	8	0	0	0	7	0	0	0	0	0
Kohima (R)																													
Shillong	21·8	+0·1	25.1	5	13.5	+0·8	8·2	28	116·4	177·6	+6·9	35·4	1	13	—3·0	3·4	12·7	+0·8	0	17	0	0	0	0	0	0	0	0	0
Cherrapunji	22·6	+0·4	25 4	23	18·5	+2·7	14·3	29	91·5	299·9	-193·4	85·4	1	12	+2·7	5·7	6 7	+1·7	0	15	0	0	0	2	0	0	0	0	0
Abu	26·8	+0·6	28·2	24	15·4	—2·6	12·0	31	2·2	33·6	+14·3	21·6	3	2	+1·1	5·9 (b)	5·5	0	0	3	0	0	0	0	0	0	0	0	0
Aijal	25·0 (a)	..	27·7	5	18·4	..	15·8	29	44·4	93·6 (a)	..	..	..	7	..	4·9 (a)	6·2 (b)	..	0	11	0	0	4	1	0	0	0	0	0
Pachmarhi	24·9	—1·4	27·2	7	13·7	—1·2	8 6	18	43·1	149·3	+90·9	33·0	13	10	+7·0	6.4	4·9	+1·2	1	11	0	0	4	1	0	0	0	0	0
Mahabaleshwar	22·4	—1·0	26·0	22	15·0	—1·3	10·7	29	63 0	468·7	+ 307·4	277·5	9	14	+6·1	11·0	11·2	—1·0	0	15	0	0	5	16	0	0	0	0	0
Mercara	23·3	—0·8	25·8	17	16·3	—0·6	13·0	10	131·0	294·4	+83·8	29·0	25	18	+5·1	..	..	..	0	19	0	0	3	0	0	0	0	0	0
Ootacamund	18·7	+0·6	21·6	21	9·9	—0·4	7·3	15	57·2	172·8	—29·9	28·6	31	12	—1·8	6·0	4·3	—0·2	3	16	0	0	3	0	0	0	0	0	0
Coonoor	20·8	—0·1	22·3	11	13·6	+0·2	11·3	11	..	348·3	+91·0	68·2	26	12	—2·1	..	6·1	+1·6	0	18	0	0	2	0	0	0	0	0	0
Kodaikanal	17·7	+1·0	19·9	11	10·4	—0·3	8·9	26	146·8	233·1	—27·0	48·2	25	15	—0·3	9·6	0·1	+0·8	1	21	0	0	13	1	0	0	0	0	0
Nepal																													
Katmandu	25·5	..	29·3	6	13.6	..	8·9	27	11.6	190·7	..	74·9	14	7	..	1·4	0·8	..	1	9	0	0	8	13	0	0	0	0	0
Sikkem																													
Lachen	15·7	..	19·4	5,7	6·0	..	2·5	31	..	195·6	..	25·6	2	14	..	..	..	..	2	18	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories Damodar Catchment																													
Tilaiya	28·0	..	30·6	13	20·8	..	15·6	23	132·4	344.1	..	190·6	2	7	..	10·0	7·3	..	0	11	..	..	..	..	..	..	..	..	..
Hazaribagh	26·5	..	30·4	13	18·5	..	12·8	22	38·4	177·1	..	99·7	2	7	..	7·9	5·3	..	1	11	0	0	2	5	0	0	0	0	0
Bokaro	30·0	..	32·8	13	21·4	..	15·6	26	41.2	169·4	..	68·0	2	6	..	..	..	..	0	9	..	..	..	..	..	..	..	..	..
Konar	..	..	..	..	..	..	..	..	..	188·7	..	77·2	2	6	..	..	..	..	2	10	0	0	0	0	0	0	0	0	0

*Data given as addenda in December 1961 issue. (R) Register not received. (a) Mean of 30 days. (b) Total for 29 days. (i) Mean of 22 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1and 0·2mm.)	Precipitation (0·3mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground rost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories.—(Contd.)																													
Damodar Catchment.—(Contd.)																													
Maithon	30·2	..	36·8	4	22·9	..	18·3	30,31	40·9	136·1	..	38·4	15	6	..	..	..	..	2	6	0	0	0	5	0	0	0	0	0
Ramgarh	29·2	..	34·5	13	20·3	..	14·0	23	58·4	123·3	..	60·0	2	4	..	3·0	1.9	..	1	8	0	0	0	0	0	0	0	0	0
Panchet Hills	30·4	..	32·2	4 days	22·4	..	17·9	30	36.1	127·2	..	38·6	31	7	..	6·4	5·1	..	2	9	0	0	3	0	0	0	0	0	0
Durgapur	32·1	..	34·9	13	21·8	..	17·2	23,30	47·1	81·1	..	21·2	10	6	..	10.3	8·4	..	0	8	..	..	..	..	..	..	..	..	..
Mahanadi Catchment.																													
Ginabahar	28·7	..	32·7	4,5	19·4	..	13·9	22,23	..	169·6	..	90·7	1	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Hirakud	30·3	..	33·2	6,13	22·8	..	18·5	24	76·6	191·1	..	86·4	30	11	..	7·5	5·0	..	0	11	0	0	5	0	0	0	0	0	0
Bhimkund	29·9	..	31·1	5 days	20·9	..	16·7	23	64·7	123·7	..	46·5	31	13	..	4·8	1·8	..	1	11	0	0	13	3	0	0	0	0	0
Sonepur	30·4	..	33·3	13	21 6	..	18 3	23	..	116·0	..	41·0	30	13	..	..	4·7	..	0	13	..	..	..	..	..	..	..	..	..
Khijrawan	29·3	..	31·4	14	20·7	..	16·1	25	23·9	49·8	..	24·0	29	3	..	7·7	5·0	..	0	7	0	0	0	0	0	0	0	0	0
Narmada Catchment.																													
Bagra Tawa	29·9	..	31·7	5	18·2	..	12·7	19	79·2	152·3	..	43·2	3	7	..	4·1	3 0	..	0	10	0	0	0	0	0	0	0	0	0
Punasa	30·8	..	33·7	7	19·2	..	14 4	25	56·8	150·0	..	46·2	9	6	..	3·6	2·2	..	0	6	0	0	0	0	0	0	0	0	0
Thikri	31·5	..	35·9	16	19·0	..	13·1	19	..	123·6	..	83·0	9	5	..	..	..	..	0	7	0	0		0	0	0	0	0	0
Sabarmati Catchment.																													
Dhaior	33·5	..	34·8	16	17·4	..	12·2	31	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment.																													
Mukhim	21·1	..	25·1	6	11·4	..	2.7	31	55·7	99·2	..	37·3	8	6	..	..	..	..	0	7	0	0	7	0	0	0	0	0	0
Tehri	30·1	..	34·4	7	15·8	..	12·1	17,29	35·4	57·4	..	18·9	15	4	..	3·9	2·4	..	0	6	0	0	1	0	0	0	0	0	0
Gandak Catchment																													
Jomosom	18·9	..	24·7	6	6·6	..	2·1	17	34·2	52·6		41·4	14	2	..	..	..	..	2	6	..	..	..	..	..	..	..	..	..
Khudi Bazar	..	..	..	..	..	..	..	..	26·6	154·6	..	38·6	14	40	..	..	..	..	0	11	..	..	..	..	..	..	..	..	..
Timure	23·6	..	27·3	6	11·5	..	5·2	27	10·7	94·1	..	22·9	1	8	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Pokhara	26·6	..	29·3	6	16·7	..	13·0	26	58·2	224·8	..	59·4	1	10	..	4·3	3·5	..	0	11	0	0	12	0	0	0	0	0	0
Gorkha*																													
Nuwakot	26·9	..	30·6	6	15·9	..	13·4	27,30	12·8	149·2	..	51·8	1	8	..	..	..	..	0	12	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghara Catchment.																													
Mansiari (R)																													
Dadeldhura	19 0	..	24·4	6	(e) 11·6	..	5·1	31	155·3	334·7	.	162·1	13	8	..	..	..	..	6	10	0	0	4	9	0	0	0	0	0
Sallayana	(f) 22·7	..	27·0	9	..	..	..	..	78·4	123·4	..	41·0	14	6	..	..	..	..	9	7	..	..	.	..	..	..	..	..	..
Butwal	30·6	..	33·4	7	21·5	..	18·6	26	14·9	20·9	.	33·0	14	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Bagmati Catchment.																													
Katmandu†																													
Kosi Catchment.																													
Chautara	24.0	..	27·5	6	14 1	..	10·7	30	4·5	118·2	..	37·5	13	6	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	47·6	153·4	..	32·0	9	10	..	..	..	..	0	16	..	..	..	..	..	..	..	..	..
Walungchung Gola	14 3	..	19·4	6	3·8	..	0·4	31	54·7	128·6	..	36·2	2	10	..	..	..	..	2	13	.	..	..	..	..	..	..	..	..
Taplethok	25·1	..	27·3	7	14·8	..	10·7	31	34·2	84·6	..	20·6	2	8	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..
Bhujpur	22·3	..	25·1	6	14·6	..	11·3	30	30·0	81·3	..	42·0	1	5	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Taplejung	22·1	..	25·3	6	(f) 12·8	..	9·8	23	31·2	69·4	..	20.0	14	7	..	..	..	..	0	9	0	0	2	5	0	0	0	0	0
Okhaldunga	21·6	..	25·1	5	13·0	..	9·7	31	59·2	96·5	..	20·8	7	9	..	2·5	2·0	..	1	10	0	0	6	4	0	0	0	0	0
Chainpur	25·2	..	28·0	8	16·9	..	14·0	31	12·0	63·4	..	26·0	2	4	..	..	..	..	0	4	..	..	..	..	..	..	..	..	..
Angbung	25·8	..	28·4	6	16·2	..	12·8	31	22.0	55·0	..	15·0	14	5	..	..	..	..	0	5	.	..	..	..	..	..	..	..	..
Barahakshetra	29·7	..	32·9	6	19·3	..	15·4	29	140·1	212·8	..	48.7	7	9	..	6·6	5·1	..	1	10	0	0	9	0	0	0	0	0	0
Tista Catchment.																													
Gangtok	21·6	..	25·6	5	12·8	..	9·3	31	36·0	88·3	..	31·8	2	6	..	3·0	·3	..	0	11	0	0	1	7	0	0	0	0	0
Gezing	24·7	..	28·0	6	13·8	..	10·3	31	47·5	140·2	..	27·8	1	9	..	..	..	..	0	10	..	..	..	..	..	..	..	..	..

* Data not reliable. (b) Mean of 29days †Data included under 'Nepal'. (R) Register not received. (e) Mean of 28 days (f) Mean of 25 daks.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1011·2	1008·2		27·2	24·7	23·5	28·9	82	..	5·3	..	2·9	0	0	23	4	9	0	0	0	9	0	1	8	0
	1730	,,	1008·5	1005·4	..	25·8	24·5	23·9	29·6	88	..	4·7	..	2·4	0	0	19	1	7	0	0	0	11	0	0	12	0
Long Island	0830	25	1011·7	1008·9	..	27·8	25·8	24·9	31·5	85	..	5·3	..	1·2	0	0	10	0	3	2	0	0	4	1	0	21	0
	1730	,,	1009·0	1006·2	..	25·4	24·3	23·7	29·3	91	..	5·2	..	1·0	0	0	10	0	2	1	0	0	7	0	0	21	0
Port Blair	0530	79	1010·0	1001·0	..	23·7	23·4	23·2	28·4	98	..	5·8	..	3·4	0	0	12	1	0	1	0	0	7	2	1	19	0
	0830	,,	1011·7	1002·9	+0·8	27·0	25·0	24·2	30·2	85	+4	6·4	+0·9	5·1	0	4	16	0	1	5	0	0	7	5	2	11	0
	1130	,,	1010·2	1001·3	..	27·6	25·1	24·0	29·8	81	..	6·2	..	12·0	0	5	23	1	2	6	1	0	9	9	0	3	0
	1730	,,	1009·2	1000·2	..	25·1	24·1	23·5	28·9	91	..	4·5	..	4·4	0	0	18	0	2	2	0	0	5	7	2	15	0
	2330	,,	1019·6	1001·6	..	24·1	23·7	23·5	28·9	96	..	4·6	..	1·8	0	0	7	0	0	3	0	0	0	4	0	21	0
Car Nicobar	0830	10	1011·9	1010·7	..	26·6	24·8	24·0	29·8	86	..	6·5	..	3·4	0	0	24	0	4	0	0	2	12	6	0	7	0
	1730	,,	1009·2	1008·0	..	25·3	24·1	23·7	29·3	90	..	5·9	..	0·9	0	0	8	0	0	1	0	0	3	3	1	23	0
Nancowry	0830	26	1012·3	1009·4	..	26·8	24·7	23·9	29·7	84	..	5·3	..	2·6	0	0	13	0	0	0	0	2	7	3	1	18	0
	1730	,,	1009·7	1006·7	..	25·3	23·8	23·1	28·3	88	..	5·1	..	2·5	0	0	12	0	0	0	0	0	5	3	4	19	0
Kondul	0830	8	1012·3	1011·3	..	26·3	24·4	23·6	29·1	85	..	6·1	..	0·8	0	0	7	0	0	0	7	0	0	0	0	24	0
	1730	,,	1009·6	1008·7	..	25·4	24·0	23·8	29·5	89	..	6·2	..	1·6	0	0	11	1	0	2	8	0	0	0	0	20	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1012.6	994·7	..	24·2	21·5	20·4	23·5	79	..	6·2	..	9·9	0	5	21	10	7	0	0	1	0	2	6	5	0
	1730	,,	1008·7	990·9	..	24·0	22·5	21·8	25·9	87	..	3·5	..	2·0	0	0	13	3	1	0	0	0	0	2	7	18	0
Dibrugarh (Mohanbari)	0230	111	1008·4	995.8	..	21·9	21·3	20·9	24·7	95	..	4.3	..	1·0	0	0	4	0	4	0	0	0	0	0	0	27	0
	0530	,,	1009.3	996.6	..	21·6	21·2	20·9	24·7	96	..	5.5	..	1·0	0	0	8	1	3	2	1	0	1	0	0	23	0
	0830	,,	1011·2	998·6	−1·8	24·5	22·9	20·0	26·4	85	+1	5·4	+1·2	3·8	0	0	23	3	11	8	0	0	0	0	1	8	0
	1130	,,	1009·4	996·9	..	27·5	23·8	21·9	26·3	73	..	5·0	..	3·1	0	0	21	1	12	5	0	1	0	0	2	10	0
	1730	,,	1007·2	994·7	..	25·1	23·7	23·0	28·1	86	..	4·4	..	0·7	0	0	1	0	2	0	0	1	1	0	0	27	0
	2330	,,	1009·2	996·4	..	22·4	21·7	21·4	25·5	94	..	3·7	..	0·4	0	0	2	0	2	0	0	0	0	0	0	29	0
Dibrugarh	0830	106	1011·6	999·6	−1.3	25·8	22·7	21·1	25·0	76	−6	5·3	+1.1	1·8	0	0	18	5	6	2	2	0	1	0	2	13	0
	1730	,,	1008·1	996·2	..	25·9	23·5	22·2	26.9	79	..	3·4	..	0·5	0	0	4	0	2	0	0	1	1	0	0	27	0
Digboi *	0830	..	..	..	..	25·7	24.2	23·4	28.8	88	..	..	..	..	..	..	..	6	1	5	4	1	1	0	2	0	0
	1730	..	..	..	..	31·2	29·5	28·9	39·8	89	..	..	..	..	..	..	..	5	1	4	4	2	1	2	0	0	0
North Lakhimpur	0830	..	..	..	..	25·6	23·1	21·7	25·9	80	−3	4·7	−0·5	3·0	0	0	21	5	5	5	2	1	2	0	1	10	0
	1130	,,	..	..	..	28·1	24·2	22·3	26·9	71	..	4·2	..	3.9	0	0	25	2	5	4	8	6	0	0	0	6	0
	1730	,,	..	..	..	25·8	24·0	23·2	28·4	86	..	3·8	..	0·8	0	0	6	3	0	0	0	2	0	0	1	25	0
Sibsagar	0830	97	1012·3	1001·4	−0·3	26·2	24·1	23·1	28·3	83	−5	5·8	−0·1	2·2	0	0	16	4	5	1	2	2	2	0	0	15	0
	1730	,,	1008·5	997·7	..	26·9	24 8	23·9	29·7	84	..	4·7	..	1·2	0	0	8	2	3	1	1	0	1	0	0	23	0
Golpur (†)	0830	..	..	..	..	25·8	23·9	23·1	28·3	85	..	1·5	..	2·9	0	0	27	0	0	25	1	1	0	0	0	1	0
(†)	1730	..	..	..	..	26·7	24·6	23·6	28·9	83	..	1·6	..	2·0	0	0	16	0	0	16	0	0	0	0	0	8	0
Majbat	0830	77	..	..	..	..	..	..	..	..	..	3·7	..	2·3	0	0	18	0	1	9	4	0	3	0	1	13	0
	1730	,,	..	..	..	..	..	..	..	..	..	2·7	..	0·4	0	0	3	0	0	0	1	0	2	0	0	28	0
Jorhat (Aerodrome)	0530	90	1009·8	999·5	..	22·4	22·2	22·0	26·6	98	.	6·3	..	1·5	0	0	7	1	2	0	0	0	3	1	0	24	0
	0830	,,	1011.7	1001·5	..	26·3	24·1	23·0	28·3	83	.	5·5	..	5·9	0	0	22	0	10	4	0	0	7	0	1	9	0
	1130	,,	1009·9	999·8	..	29.1	25·1	23·3	23·6	72	..	5·8	..	7·6	0	1	23	6	10	2	0	0	5	2	1	5	0
	1730	,,	1007·5	997·4	..	25·9	24·4	23·6	29·3	88	..	4·3	..	4·6	0	1	18	2	11	1	0	1	3	0	1	12	0
	2330	,,	1009·9	999·6	..	24·5	23·1	22·8	27·9	97	..	3·9	..	2·3	0	0	10	0	5	0	0	1	1	1	2	21	0
Mohanbari	0830	78	1011.2	1002.3	..	26.9	24·6	23·8	29·5	82	..	2·6	..	1·0	0	0	6	0	1	2	1	0	1	1	0	25	0
	1730	,,	1007.6	998.6	..	26.5	24·5	23·7	29·0	83	..	2·0	..	0.5	0	0	2	0	0	0	0	1	1	0	0	29	0
Tezpur	0830	79	1012 2	1003·3	−0.9	25 2	23·7	23·1	27·9	87	+5	3·3	−0·4	2·0	0	0	20	0	13	1	2	0	4	0	0	11	0
	1730	,,	1007·7	998·9	..	27·4	24·6	23·6	28·6	78	..	2·4	..	1·0	0	0	10	0	4	0	3	0	2	0	0	21	1
Golaghat	0830	..	..	..	..	26.2	23.8	22.7	27.6	82	..	6·3	..	0.4	0	0	2	0	0	0	1	0	0	0	1	28	0
	1730	..	..	..	..	27.4	24.7	23.5	28.9	81	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Rangiya (R)	0830	..																									
(R)	1730	..																									
Chaparmukh	0830	66	1012·2	1004·8	..	27·0	24·7	23·4	28·8	83	..	3·9	..	3·2		0	31	1	0	15	2	9	4	0	0	0	0
	1730	,,	1007·9	1000·5	..	29·3	25·5	23·9	29·7	73	..	4·0	..	3·0		0	31	3	1	15	0	6	0	5	1	0	0

(†) Observations for 28 days. * Observations for 20 days. (R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura)—*Contd.*																											
Goalpara	0830	38	1009·9	1005·6	..	25·7	23·7	22·5	27·3	85	..	2·9	..	2·8	0	0	26	2	7	3	5	2	3	2	2	5	0
	1730	"	1007·1	1002·8	..	29·4	26·2	24·7	31·1	76	..	3·3	..	2·3	0	0	22	0	6	0	2	4	6	1	3	7	0
Gauhati	0830	55	1012·1	1005·7	−0·4	24·8	23·6	22·6	27·4	85	+2	4·4	+0·2	0·9	0	0	9	0	4	0	1	0	0	0	4	22	0
	1730	"	1008·3	1002·0	..	28·0	24·7	23·2	28·4	75	..	4·1	..	0·2	0	0	2	0	1	1	0	0	0	0	0	29	0
Gauhati (Bhorjor)	0230	54	1009·1	1002·9	..	23·2	22·6	22·2	26·7	94	..	2·9	..	1·5	0	0	11	0	2	0	0	3	5	0	1	20	0
	0530	"	1010·0	1003·8	..	22·6	22·1	21·8	26·1	95	..	5·5	..	1·2	0	0	9	0	5	1	0	2	1	0	0	22	0
	0830	"	1011·8	1005·6	−0·6	26·4	24·1	23·0	28·1	81	+3	5·2	+1·0	4·4	0	0	22	0	11	3	2	1	4	1	0	9	0
	113	"	1010·1	1003·9	..	29·1	25·1	23·2	28·4	72	..	4·6	..	7·1	0	0	28	8	9	1	0	0	3	3	4	3	0
	1730	"	1008·0	1001·9	..	26·4	24·5	23·6	29·1	84	..	5·1	..	2·8	0	0	17	1	3	1	0	2	4	3	3	14	0
	2330	"	1010·2	1004·0	..	23·7	23·0	22·6	27·4	94	..	3·1	..	2·6	0	0	16	0	0	0	3	4	8	0	1	15	0
Dhubri (Rupsi)	0530	36	1009·3	1005·1	..	22·3	21·7	21·3	25·3	94	..	4·1	..	1·3	0	0	8	0	6	2	0	0	0	0	0	23	0
	0830	"	1011·2	1007·1	..	26·2	23·9	22·7	27·6	81	..	4·5	..	5·8	0	0	25	2	9	3	3	0	8	0	0	6	0
	1130	"	1009·6	1005·6	..	28·6	24·7	22·9	27·9	72	..	4·9	..	8·4	0	0	29	1	6	6	4	3	4	3	1	2	1
	1730	"	1007·7	1003·6	..	25·7	24·4	23·6	29·1	87	..	4·1	..	1·5	0	0	9	2	2	0	0	1	2	1	1	22	0
Dhubri	0830	35	1012·3	1008·3	0	26·3	24·2	23·1	28·3	84	+2	4·0	+1·0	3·3	0	0	21	2	4	7	1	5	1	0	1	10	0
	1730	"	1008·7	1004·7	..	27·0	24·7	23·5	28·9	82	..	3·8	..	2·2	0	0	16	2	2	4	1	2	0	1	4	15	0
Lumding	0830	149	1011·3	994·5	..	25·7	23·9	23·1	28·3	86	−1	5·0	..	0·3	0	0	3	0	0	1	2	0	0	0	0	28	0
	1730	"	1007·4	990·6	..	27·6	25·3	24·4	30·5	82	..	4·3	..	0·1	0	0	1	0	0	0	1	0	0	0	0	30	0
Cherrapunji	0830	899	..	..	..	21·9	20·1	19·1	22·2	84	..	3·6	..	2·3	0	0	16	0	1	4	7	2	0	1	1	15	0
	1130	..	..	..	..	24·8	20·6	18·4	21·1	68	..	4·8	..	6·0	0	0	30	5	5	6	8	0	0	1	5	1	0
	1730	..	..	..	..	20·8	19·5	18·9	21·8	89	..	5·4	..	1·7	0	0	11	3	3	0	0	0	0	3	2	20	0
Tura	0830	370	1012·5	970·8	..	24·1	22·1	20·9	24·7	83	..	4·3	..	2·5	0	0	19	1	4	3	1	2	7	3	1	12	0
	1730	"	1009·1	967·6	..	26·0	23·3	21·9	26·3	79	..	5·9	..	1·6	0	0	16	0	2	5	1	2	1	3	2	15	0
Haflong	0830	682	1011·1	935·4	..	22·7	20·9	20·0	23·4	85	..	4·9	..	8·3	0	0	31	2	2	0	2	7	17	0	1	0	0
	1730	"	1007·6	932·5	..	23·6	21·5	20·5	24·1	83	..	3·7	..	8·9	0	0	31	1	1	0	0	3	23	3	0	0	0
Silchar (Kumbhigram)	0530	97	1008·9	997·8	..	22·6	22·0	21·7	25·9	95	..	4·5	..	4·2	0	0	29	0	1	25	1	1	0	0	1	2	0
	0830	"	1010·5	999·5	..	25·7	23·6	22·5	27·3	83	..	4·4	..	5·4	0	0	29	0	1	20	5	1	2	0	0	2	0
	1130	"	1008·6	997·8	..	29·3	24·9	22·8	27·9	69	..	3·6	..	3·9	0	0	24	0	1	6	3	2	5	8	1	6	0
	1730	"	1006·7	995·8	..	27·9	24·8	23·4	28·6	77	..	3·5	..	2·7	0	0	22	1	1	2	0	0	5	13	0	9	0
Silchar	0830	29	1011·8	1008·5	−0·6	27·3	24·5	23·2	28·4	81	−1	4·8	+0·8	1·5	0	0	16	1	6	3	2	2	1	1	0	15	0
	1730	"	1008·1	1004·8	..	28·4	25·4	24·1	30·0	78	..	3·0	..	0·4	0	0	4	1	0	0	0	0	1	1	1	27	0
Imphal (Tulihal)	0530	801	1012·0	925·0	..	18·9	18·6	18·4	21·1	97	..	6·8	..	1·6	0		15	3	1	3	3	0	0	1	2	16	0
	0830	"	1012·8	926·7	−0·2	22·1	20·3	19·2	22·2	84	+4	6·5	+1·2	2·3	0	0	22	6	3	4	2	3	4	0	0	9	0
	1130	"	1009·7	925·0	..	25·9	21·3	19·0	22·0	63	..	5·1	..	4·8	0	1	27	2	1	1	5	6	7	3	3	3	0
	1730	"	1008·1	922·9	..	23·7	21·0	19·6	22·8	78	..	5·6	..	4·2	0	0	28	1	2	1	5	6	2	4	7	3	0
	2330	"	1011·4	924·8	..	20·1	19·5	19·1	22·1	94	..	4·5	..	1·8	0	0	18	2	4	3	1	2	1	1	4	13	0
Kailashahar	0530	29	1010·5	1007·2	..	23·4	23·0	22·7	27·7	96	..	5·4	..	0·3	0	0	2	0	0	0	0	1	1	0	0	29	0
	0830	"	1012·1	1008·9	..	26·6	24·7	23·8	29·7	85	..	4·9	..	2·0	0	0	15	2	3	1	1	1	1	1	2	16	0
	1130	"	1010·6	1007·3	..	29·1	25·5	23·8	29·7	74	..	5·3	..	2·6	0	0	21	3	5	1	0	5	2	2	3	10	0
	1730	"	1008·5	1005·3	..	27·5	25·6	24·7	31·1	85	..	4·5	..	0·6	0	0	4	1	1	0	0	1	1	0	0	27	0
Agartala	0230	16	1008·3	1006·5	..	23·8	23·3	22·9	27·9	96	..	3·5	..	3·5	0	0	21	3	1	1	10	5	0	0	1	10	0
	0530	"	1009·4	1007·3	..	23·5	23·1	23·0	28·1	96	..	5·0	..	3·1	0	0	15	1	2	0	7	1	0	1	3	16	0
	0830	"	1010·7	1008·9	−0·3	27·3	25·0	24·0	29·8	82	+1	5·2	+0·6	5·7	0	0	25	2	2	3	5	4	0	2	7	6	0
	1130	"	1009·5	1007·7	..	29·5	25·4	23·6	29·1	71	..	5·9	..	9·1	0	1	29	4	2	1	4	4	2	4	9	1	0
	1730	"	1007·5	1005·7	..	27·1	25·0	24·1	30·0	83	..	4·6	..	4·6	0	0	24	7	2	3	1	4	4	1	2	7	0
	2330	"	1009·4	1007·6	..	24·3	23·6	23·4	28·8	95	..	3·5	..	3·5	0	0	15	3	0	3	8	1	0	0	0	16	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1008·9	993·9	..	22·3	21·6	21·2	25·2	91	..	2·5	..	4·0	0	0	21	10	3	1	2	0	0	3	2	10	0
	0530	"	1009·8	994·7	..	20·5	20·3	20·1	23·5	98	..	4·0	..	2·8	0	0	17	9	5	0	0	1	0	0	2	14	0
	0830	"	1011·5	996·7	+0·1	26·3	23·7	22·6	27·4	80	+3	3·2	−0·5	4·2	0	0	19	1	6	8	2	1	1	0	0	12	0
	1130	"	1010·2	995·5	..	29·2	25·3	23·7	29·3	73	..	4·1	..	7·1	0	1	26	1	0	5	6	7	5	3	0	4	0
	1730	"	1007·8	993·0	..	25·9	24·6	24·1	30·0	90	..	3·9	..	3·5	0	0	18	2	1	2	1	0	8	2	2	13	0
	2330	"	1009·7	995·0	..	23·1	21·9	21·5	25·6	90	..	2·5	..	3·9	0	0	22	12	3	2	0	0	1	2	2	9	0
Jalpaiguri	0830	83	1011·6	1002·2	−0·4	23·9	22·2	21·3	25·3	85	+2	2·9	+0·6	3·7	0	0	24	7	5	2	0	2	0	1	7	7	0
	1730	"	1007·9	998·5	..	27·1	23·9	22·2	26·7	7	..	2·8	..	4·7	0	0	23	0	3	4	2	2	7	4	1	6	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sub-Himalayan (West Bengal)—*Contd.*																											
Cooch Behar	0830	43	1011·7	1005·9	..	26·4	23·5	22·2	26·7	78	..	3·6	..	4·3	0	0	22	0	7	10	1	2	1	0	0	9	1
	1130	,,	1010·2	1005·4	..	28·5	24·4	22·5	27·3	71	..	4·0	..	5·8	0	0	26	0	3	11	4	3	3	1	0	5	1
	1730	,,	1008·[illegible]	1003·5	..	26·1	23·9	22·8	27·7	83	..	3·6	..	0·7	0	0	3	0	0	2	0	0	1	0	0	28	0
Balurghat	0830	..	..	..	..	26·8	24·1	22·9	27·9	79	..	3·3	..	4·4	0	0	27	3	5	3	6	4	3	1	2	4	0
	1730	..	..	..	..	27·9	24·5	22·8	27·7	75	..	3·5	..	2·9	0	0	23	4	1	5	3	2	4	4	0	8	0
Malda	0830	31	1011·6	1008·1	0	27·0	24·1	22·7	27·6	73	+3	5·2	+3·4	6·7	0	0	30	5	0	3	4	7	4	1	6	1	0
	1730	,,	1008·1	1004·5	..	27·5	24·4	22·9	27·9	77	..	4·3	..	5·2	0	0	27	2	1	3	1	5	2	3	10	4	0
Gangetic West Bengal																											
Berhampore	0830	19	1011·1	1008·9	−0·6	26·7	23·8	22·5	27·3	78	0	6·4	+1·7	4·2	0	0	23	5	0	3	1	13	0	0	1	8	0
	1730	,,	1007·7	1005·5	..	27·1	24·0	22·6	27·4	77	..	4·5	..	2·2	0	0	14	1	0	3	2	7	0	1	0	17	0
Suri	0830	77	—	—	..	26·1	23·2	21·7	25·9	77	..	4·5	..	5·5	0	1	27	4	2	3	4	4	2	4	5	3	0
Asansol	0230	126	1008·7	994·3	..	23·3	22·7	22·4	27·1	95	..	3·9	..	3·5	0	1	10	1	0	0	6	1	1	0	2	20	0
	0530	,,	1009·3	994·9	.	22·6	22·1	21·9	26·3	96	..	4·5	..	2·5	0	0	9	0	0	0	5	0	1	1	2	22	0
	0830	,,	1011·2	996·9	−0·4	26·0	23·6	22·4	27·1	80	+4	4·2	+1·3	5·5	0	0	23	2	1	3	7	3	1	0	6	8	0
	1130	,,	1010·1	996·0	..	28·7	24·7	22·9	27·9	71	..	4·6	..	6·1	0	1	20	2	0	5	8	0	1	0	5	10	0
	1730	,,	1007·9	993·7	.	26·8	24·2	23·0	28·1	80	..	4·4	..	2·8	0	0	13	0	0	2	7	1	1	1	1	18	0
	2330	,,	1010·0	995·6	..	23·9	22·9	22·5	27·3	91	..	3·2	..	2·9	0	0	12	1	0	1	4	1	1	1	3	19	0
Shanti Niketan	0830	59	1011·5	1004·8	..	26·3	23·5	22·0	26·4	78	..	4·3	..	6·8	0	1	26	5	6	2	5	5	2	0	2	4	0
	1130	,,	1010·6	1003·9	..	28·6	24·2	22·1	26·6	68	..	3·8	..	6·6	0	1	28	6	6	5	2	7	0	1	2	2	0
	1730	,,	1008·3	1001·7	..	26·5	24·1	22·9	27·9	81	..	4·5	..	4·9	0	0	23	4	2	2	6	3	1	2	3	8	0
Krishnanagar	0830	15	1011·4	1009·8	−0·1	27·3	24·0	22·5	27·3	75	+2	2·7	−0·2	1·2	0	0	12	3	0	0	0	9	0	0	0	19	0
	1730	,,	1007·9	1006·4	..	27·6	24·4	22·9	29·7	76	..	2·7	..	1·0	0	0	10	0	0	0	0	10	0	0	0	21	0
Purulia	0830	255	1011·3	982·7	+0·1	25·0	21·9	20·1	23·5	76	+2	4·7	+0·5	4·5	0	0	30	2	5	0	14	1	0	3	5	1	0
	1730	,,	1008·1	979·8	..	26·3	22·6	20·7	24·4	72	..	5·5	..	3·1	0	0	22	1	5	0	13	0	0	0	3	9	0
Burdwan	0830	32	1010·6	1007·0	−0·9	27·0	23·6	21·9	26·3	74	−3	3·0	0	4·0	0	0	22	1	2	6	4	2	1	3	3	9	0
	1730	,,	1007·3	1003·7	..	27·4	24·2	22·7	27·6	74	..	3·1	..	1·6	0	0	10	0	1	3	3	0	0	3	0	21	0
Barrackpore (Aerodrome)	0530	7	1009·4	1008·6	..	23·9	23·0	22·5	27·3	91	..	3·9	..	3·7	0	0	13	5	3	1	0	1	0	0	3	18	0
	0830	,,	1011·3	1010·5	−0·1	26·8	24·0	22·7	27·6	78	−2	4·6	+0·4	7·8	0	0	27	6	5	0	5	4	3	0	3	4	1
	1130	,,	1010·3	1009·6	..	29·0	24·7	22·8	27·7	69	..	5·3	..	8·6	0	0	26	4	4	4	3	3	2	2	4	5	0
	1730		1008·1	1007·3	..	27·3	24·6	23·3	28·6	79	..	4·2	..	3·5	0	0	16	6	2	1	0	1	2	3	1	15	0
	2330	,,	1010·1	1009·3	..	25·2	24·0	23·4	28·8	89	..	2·7	..	0·7	0	0	3	1	0	1	0	0	0	0	1	28	0
Calcutta (Dum Dum)	0230	6	1008·3	1007·6	..	24·4	23·5	23·0	28·1	92	..	3·1	..	2·3	0	0	17	5	2	1	4	2	0	2	1	14	0
	0530	,,	1009·0	1008·3	..	24·0	23·1	22·7	27·6	92	..	4·3	..	2·2	0	0	18	4	4	0	6	2	0	0	2	13	0
	0830	,,	1011·0	1010·3	−0·2	27·2	24·3	22·8	27·7	77	0	4·6	+0·7	5·5	0	0	30	6	3	2	8	4	0	1	6	1	0
	1130	,,	1010·0	1009·3	..	29·7	24·9	22·7	27·6	67	..	5·1	..	6·6	0	0	31	7	2	2	8	5	2	2	3	0	0
	1730	,,	1007·7	1007·0	..	27·5	24·6	23·3	28·6	79	..	4·8	..	2·5	0	0	18	5	2	0	3	5	1	1	1	13	0
	2330	,,	1009·7	1003·9	..	24·9	23·9	23·3	28·6	98	..	3·1	..	2·3	0	0	15	5	3	0	4	3	0	0	0	16	0
Calcutta	0830	6	1010·6	1009·9	−0·8	27·1	24·0	22·5	27·3	76	−6	4·2	+1·2	6·0	0	0	31	3	2	2	5	6	5	1	7	0	0
	1130	.	1009·4	1003·7	..	29·8	24·8	22·5	27·3	66	..	5·0	..	6·0	0	0	31	4	3	1	4	5	5	3	6	0	0
	1730	.	1007·5	1009·3	..	28·2	24·4	22·6	27·4	71	..	4·9	..	4·6	0	0	28	2	1	3	2	6	5	2	7	3	0
Midnapore	0830	45	1010·9	1005·8	−0·4	26·8	23·6	22·0	26·4	75	0	2·9	+0·3	5·4	0	0	27	9	6	3	1	4	2	1	1	4	0
	1730	,,	1007·6	1002·5	..	27·9	24·2	22·4	27·1	73	..	3·1	.	1·7	0	0	20	5	3	1	1	9	1	0	0	11	0
Contai	0830	11	1010·8	1005·6	+0·6	27·4	24·4	23·0	28·1	77	−5	2·9	−0·7	4·0	0	0	29	10	2	3	6	0	5	0	3	2	0
	1730	,,	1007·7	1006·5	..	27·6	24·6	23·2	28·4	78	..	1·9	..	3·9	0	0	23	2	2	1	4	5	7	0	2	8	0
Sagar Island	0830	3	1000·4	1010·1	−0·7	27·4	24·8	23·6	29·1	80	+2	4·1	0	16·6	0	8	23	4	6	4	4	3	4	3	3	0	0
	1730	,,	1007·6	1007·3	.	27·6	24·9	23·6	29·1	79	..	4·0	..	13·5	0	4	27	5	3	3	6	7	3	1	3	0	0
Sandheads	0530	10	1008·5	1007·4	..	27·3	24·6	23·3	28·6	79	..	4·5	..	12·6	0	6	25	6	1	3	6	3	8	0	4	0	0
	0830	,,	1010·7	1009·6	−0·8	28·1	24·9	23·6	29·1	76	+4	3·9	+0·4	11·6	0	5	25	6	2	4	4	3	7	1	3	1	0
	1130	,,	1010·0	1008·9	..	28·9	25·1	23·6	29·1	73	..	4·1	..	10·3	0	4	23	5	2	4	6	3	3	1	3	4	0
	1730	,,	1007·6	1006·5	..	28·6	25·1	23·4	28·8	74	..	5·0	..	10·4	0	4	23	4	2	4	5	3	2	2	5	4	0
	2330	,,	1009·2	1008·1	..	27·9	24·9	23·3	28·6	76	..	0·3	..	10·8	0	3	25	4	1	1	5	6	6	0	5	3	0
Orissa																											
Baripada	0830	54	1011·9	1005·7	..	26·7	23·4	21·7	25·9	74	..	4·3	..	2·6	0	0	24	10	3	0	2	2	2	2	2	7	0
	1730	,,	1008·9	1002·7	..	26·7	23·8	22·4	27·1	77	..	3·7	..	1·2	0	0	11	2	1	0	7	0	0	0	1	20	0
Jharsuguda	0230	230	1008·3	982·2	..	22·6	22·0	21·7	25·9	94	..	4·5		3·5	0	0	21	3	8	3	5	0	0	1	1	10	0
	0530	230	1008·8	982·7	..	21·9	21·4	21·1	25·0	96	..	5·2	..	3·9	0	0	20	3	12	3	0	1	0	0	1	11	0
	0830	,,	1010·8	984·9	+0·1	24·7	22·5	21·5	25·6	83	+6	5·3	..	7·4	0	1	27	6	7	9	3	1	0	2	0	3	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of standard isobaric level nearest	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Kms per hour	Wind speeds (Km. p.h.): 62 or more	Wind speeds (Km. p.h.): 20 to 61	Wind speeds (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—*Contd.*																											
Jharsuguda—contd.	1130	"	1009·8	984·0	..	27·4	23·1	20·9	24·7	68	..	5·5	+1·4	7·7	0	0	28	5	7	6	4	2	1	2	1	3	0
	1730	"	1007·4	981·6	..	25·8	23·0	21·6	25·8	79	..	5·8	..	5·9	0	0	23	3	4	4	4	2	2	2	2	8	0
	2330	"	1009·6	983·6	..	23·2	22·3	21·9	26·3	92	..	4·7	..	5·2	0	0	23	4	10	3	3	0	0	1	2	8	0
	0830	463	1008·3	956·8	..	23·9	21·2	19·9	23·2	79	..	4·0	..	3·2	0	0	27	5	4	2	4	4	0	1	7	4	0
	1730	"	1004·9	953·7	..	25·0	21·6	19·9	23·2	74	..	5·6	..	3·0	0	0	30	4	5	5	6	2	2	3	3	1	0
Keonjhargarh	0830	20	1010·7	1008·5	−0·5	26·4	24·0	22·9	27·9	81	+3	4·8	+1·7	6·6	0	0	31	13	5	0	3	3	5	1	1	0	0
	1730	"	1007·7	1005·4	..	27·5	24·7	23·5	28·9	78	..	5·3	..	3·4	0	0	26	4	6	0	7	8	1	0	0	5	0
Balasore	0830	148	1010·7	993·9	−1·0	26·0	23·1	21·8	26·1	77	+1	4·1	+1·4	0·9	0	0	7	1	4	0	1	0	1	0	0	24	0
	1730	"	1007·2	990·5	..	26·8	23·3	21·7	25·9	73	..	4·0	..	0·7	0	0	6	1	2	2	1	0	0	0	0	25	0
Sambalpur	0830	139	1011·2	995·5	0	25·6	23·3	22·0	26·4	81	+4	5·2	+1·7	5·4	0	0	24	3	2	3	8	2	0	4	2	7	0
	1730	"	1007·8	992·1	..	27·4	23·7	22·1	26·6	73	..	5·3	..	6·2	0	0	30	0	3	1	14	4	0	4	4	1	0
Angul	0830	27	..	..																							
	1730	"	..	..																							
Cuttack (R)	0830	6	1010·9	1010·2	−0·3	27·2	24·8	23·7	29·3	81	0	4·3	+0·9	5·2	0	0	29	11	3	1	3	2	3	3	3	2	0
(R)	1730	"	1007·9	1007·2	..	27·9	24·9	23·7	29·3	78	..	4·9	..	4·9	0	0	27	4	2	4	12	2	1	1	1	4	0
Chandbali	0830	190	1010·4	989·0	..	25·9	23·1	21·8	26·1	78	..	4·9	..	6·2	0	0	31	8	6	4	2	3	2	1	4	0	1
	1730	"	1007·0	985·6	..	27·6	23·7	21·6	25·8	70	..	5·3	..	6·3	0	0	31	8	7	3	3	3	2	0	5	0	0
Bolangir	0830	464	1008·1	956·6	..	23·7	21·8	20·8	24·6	84	..	4·8	..	0·4	0	0	2	0	0	0	0	0	1	1	0	29	0
	1730	"	1005·4	954·1	..	24·7	22·6	21·5	25·6	82	..	4·8	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0
Phulbani	0830	211	1007·0	983·4	..	26·2	23·8	22·7	27·6	82	..	3·0	..	3·0	0	0	31	0	5	0	3	0	3	0	0	0	0
	1730	"	1007·1	983·5	..	27·2	23·9	22·2	26·7	74	..	2·5	..	3·0	0	0	31	0	18	0	6	1	6	0	0	0	0
Titlagarh	0230	46	1008·2	1003·0	..	24·3	23·6	23·2	28·4	94	..	2·9	..	4·1	0	1	18	6	1	3	1	2	4	0	2	12	0
	0530	"	1008·8	1003·5	..	23·7	23·0	22·6	27·4	93	..	4·2	..	3·9	0	0	24	8	5	1	0	1	2	5	2	7	0
Bhubaneswar	0830	"	1010·7	1005·4	0	26·9	24·4	23·2	28·4	81	+1	4·2	−0·5	6·7	0	0	24	4	6	2	3	1	4	1	3	7	0
	1130	"	1010·0	1004·8	..	29·0	24·3	22·2	26·7	67	..	4·9	..	7·8	0	1	26	3	3	5	6	0	7	2	1	4	0
	1730	"	1007·8	1002·6	..	27·1	24·4	23·2	28·4	80	..	5·2	..	6·3	0	0	25	4	2	5	2	4	5	1	2	6	0
	2330	"	1009·6	1004·4	..	24·8	23·8	23·3	28·6	91	..	2·7	..	6·2	0	0	24	3	7	1	3	2	5	0	3	7	0
	0830	6	1010·5	1009·8	+0·5	27·4	24·7	23·4	28·8	79	+2	5·1	+2·1	11·1	0	3	28	12	9	1	0	2	7	0	0	0	0
	1730	"	1007·8	1007·1	..	28·1	25·1	23·7	29·3	77	..	6·5	..	10·8	0	4	26	3	8	1	8	2	8	0	0	1	0
Puri	0530	17	1008·7	1006·8	..	24·3	23·9	23·5	28·9	94	.	5·0	..	9·0	0	2	26	5	2	0	0	2	4	1	14	3	0
	0830	"	1010·7	1008·8	−0·3	26·7	24·6	23·7	29·3	84	+6	5·1	+2·3	11·6	0	2	28	13	2	1	1	3	3	0	7	1	0
Gopalpur	1130	"	1009·9	1008·1	..	28·7	25·4	23·9	29·7	74	..	5·3	..	13·6	0	4	26	6	2	8	5	5	2	0	2	1	0
	1730	"	1007·7	1005·8	..	27·7	24·8	23·4	28·8	78	..	5·8	..	14·5	0	6	24	1	6	8	6	5	4	0	0	1	0
	2330	"	1009·6	1007·7	..	25·8	24·3	23·8	29·5	88	..	4·2	..	11·4	0	4	27	5	1	2	1	2	5	5	10	0	0
	0830	913	1506·6	910·5	−0·2	21·9	20·1	19·3	22·4	85	+4	(b) 5·9	+2·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Koraput	1730	"	1481·2	907·8	..	22·0	20·3	19·4	22·5	85	..	(c) 5·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1011·3	994·5	−0·4	25·5	23·0	21·7	25·9	80	+8	4·2	+2·1	2·2	0	0	15	0	0	1	4	0	1	8	1	16	0
	1730	"	1007·9	991·0	..	26·3	23·5	22·0	26·4	77	..	3·5	..	1·5	0	0	9	1	1	1	4	0	1	0	1	22	0
Daltonganj	0830	221	1009·7	984·7	−2·1	25·2	22·4	21·0	24·9	78	+2	3·5	+1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	"	1006·5	981·7	..	26·9	23·4	21·6	25·8	72	..	3·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hazaribagh	0830	611	1011·0	943·0	−1·0	22·7	20·2	18·9	21·8	79	+14	4·3	+1·8	8·0	0	1	22	5	3	1	6	4	1	0	3	8	0
	1730	"	1008·1	940·5	..	23·1	20·4	19·0	22·0	79	..	3·6	..	5·3	0	1	21	3	1	2	7	1	1	1	6	9	0
Dhanbad	0830	257	1011·0	981·9	..	24·6	21·9	20·5	24·1	79	..	4·5	..	4·1	0	1	26	5	0	3	5	3	3	5	3	4	0
	1730	"	1007·8	979·0	..	25·6	22·3	20·6	24·3	75	..	4·1	..	4·6	0	1	23	2	1	2	3	4	2	5	2	7	2
Ranchi	0830	655	1009·3	937·0	−1·7	23·2	20·6	19·3	22·4	81	+15	4·6	+1·8	1·5	0	1	14	3	0	4	4	2	1	0	0	17	0
	1730	"	1007·5	935·6	..	24·6	21·6	20·1	23·5	76	..	4·1	..	1·2	0	0	11	0	1	1	5	0	1	0	3	20	0
Ranchi Aerodrome	0530	652	1009·9	936·9	..	19·3	18·3	17·8	20·4	90	..	5·2	..	6·2	0	0	25	4	2	3	4	4	0	0	8	6	0
	0830	"	1010·6	938·3	..	22·3	19·7	18·4	21·1	79	..	5·5	..	7·9	0	0	28	6	5	2	5	6	1	0	3	3	0
	1130	"	1009·5	937·9	..	24·7	20·2	17·8	20·2	66	..	5·5	..	9·9	0	0	30	4	4	3	7	5	3	2	2	1	0
*	1730	"	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jamshedpur	0830	129	1011·2	996·5	−0·5	25·4	22·8	21·5	25·6	78	+3	4·5	+1·4	6·7	0	0	26	1	3	7	2	0	3	7	3	5	0
	1730	"	1007·7	993·2	..	27·0	23·4	21·6	25·8	73	..	4·2	..	3·0	0	0	20	0	0	6	2	3	1	5	3	11	0
Jamshedpur (P.B.O.)	0530	142	1009·3	993·1	..	22·3	21·5	21·0	24·9	92	..	4·4	..	3·7	0	0	15	0	6	4	0	0	2	2	1	16	0
	0830	"	1011·2	995·1	..	25·0	22·3	21·0	24·9	79	..	4·8	..	6·8	0	0	28	1	5	5	0	1	3	7	6	3	0
	1130	"	1010·2	994·1	..	27·8	23·1	20·7	24·4	65	..	4·7	..	9·1	0	0	29	4	6	2	1	4	4	4	4	2	0
	1730	"	1007·6	991·6	..	27·1	23·2	21·2	25·2	71	..	5·0	..	5·5	0	1	19	0	3	4	5	0	1	4	3	11	0
	2330	"	1009·9	993·7	..	23·4	22·2	21·6	25·8	89	..	3·2	..	6·1	0	0	24	1	7	4	0	2	1	2	7	7	0

(c) Mean of 26 days. (b) Mean of 29 days. (R) Register not received. * Data not available.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity in Kms. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plateau—*Contd.*																											
Chaibasa	0830	226	1010·7	985·1	−0·7	25·0	22·4	21·1	25·0	79	+3	5·3	+2·5	2·9	0	0	20	0	9	0	3	0	6	0	2	11	[illegible]
	1730	,,	1007·4	982·1	..	26·3	23·2	21·6	25·8	73	..	5·2	..	1·2	0	0	10	0	4	0	4	1	1	0	0	21	0
Bihar Plains																											
Motihari (R)	0830	66	..	..																							
(R)	1730	,,	..	..																							
Forbesganj	0830	61	1011·2	1004·3	..	26·2	23·6	22·3	26·9	80	..	3·2	..	3·5	0	0	26	0	4	10	1	0	1	5	5	5	0
	1730	,,	1007·8	1000·9	..	27·3	24·1	22·5	27·3	75	..	2·9	..	2·5	0	0	19	0	1	4	1	0	2	10	1	12	0
Darbhanga	0830	49	1011·1	1005·5	−0.5	27·4	23·7	21·9	26·3	72	+1	3·0	+1·1	3·9	0	0	29	2	4	7	1	3	1	3	8	2	0
	1730	,,	1007·3	101·7	..	27·3	23·9	22·1	26·6	75	..	2·4	..	2·5	0	0	19	3	5	5	2	1	0	0	3	12	0
Chapra	0830	..	..	..	..	26·0	23·1	21·8	26·1	77	..	3·5	..	4.1	0	0	30	3	5	5	3	2	5	4	3	1	0
	1730	..	..	..	..	27·3	23·3	21·3	25·3	69	..	3.2	..	1·8	0	0	14	2	4	3	0	0	2	1	2	17	0
Purnea	0830	38	1011·6	1007·3	−0·2	26·8	24·0	22 1	27·7	79	−1	2·8	+0·6	2·4	0	0	15	0	1	5	0	1	5	1	2	16	0
	1730	,,	1008·1	1003.8	..	27·2	24·2	22·8	27·7	77	..	2·4	..	1·2	0	0	6	0	2	2	0	0	1	1	0	25	0
Patna	0830	53	1011·0	1004·9	−0.7	25·9	22·9	21·3	25·3	76	+7	2·9	+1.0	6·4	0	1	28	2	4	3	5	3	3	7	2	2	0
	1730	,,	1007·9	1001·9	..	27·5	22·8	20·3	23·8	65	..	2·9	..	4·6	0	0	22	0	5	4	0	1	1	10	1	9	0
Patna Aerodrome	0530	60	1008·4	1001·6	..	22·3	21·7	21·3	25·3	95	..	3·3	..	5·8	0	2	11	0	3	5	2	1	0	0	2	18	0
	0830	,,	1010·5	1003·8	..	25·8	23·4	22·2	26·7	82	..	3·0	..	10·4	0	2	25	1	1	6	7	2	2	6	2	4	0
	1130	,,	1009·8	1003·1	..	28·3	23·5	21 1	25·0	65	..	.	..	12·8	0	2	29	1	2	2	11	3	1	2	9	0	0
	1730	,,	1007·5	1000·8	..	27·0	23·2	21·3	25·3	72	..	3·5	..	6·1	0	2	15	0	1	5	6	1	0	0	4	14	0
	2330	52	1009.8	1003·8	-	24·2	22·6	21·9	26·3	88	..	1·9	..	3·2	0	1	11	0	5	5	1	0	0	1	0	19	0
Bhagalpur	0530	49	1009·7	1004·1	..	23·3	22·2	21·6	25·8	90	..	3·1	..	5·1	0	2	16	0	0	3	4	0	7	3	1	13	0
	0830	,,	1011·6	1006·0	+0·3	26 5	23·6	22·1	26·6	77	+2	3·5	+0.5	5·7	0	2	23	0	1	2	6	2	1	9	4	6	0
	1130	,,	1010 8	1005·3	..	28·3	24·1	22·3	26·9	70	..	4·2	..	6·3	0	0	28	2	1	3	5	3	0	10	4	3	0
	1730	,,	1008·2	1002·7	..	26·9	23·9	22·6	27·4	76	..	3·5	..	5·8	0	1	23	0	0	7	3	1	0	12	1	7	0
	2330	,,	1010·2	1004·6	..	24·5	23 0	22·2	26·8	87	..	2·0	..	4·9	0	2	22	0	0	4	5	3	7	5	0	7	0
Sabaur	0830	37	1011·1	1006·9	−0 6	25 9	23·7	22·4	27·1	80	+4	3·7	+1.1	5·9	0	2	24	0	0	2	9	2	4	0	9	5	0
	1730	,,	1007·6	1003·4	..	26·5	23·7	22·1	26 6	77	..	3·7	..	4·6	0	1	19	0	2	3	5	1	1	6	2	11	0
Jamui	0830	82	1010·8	1001·3	..	25·3	23 0	21 6	25·8	83	..	2·8	..	3·7	0	0	28	0	0	6	11	1	0	5	5	3	0
	1730	,,	1007·3	996·0	..	26·7	23·8	22·4	27·1	77	..	3·6	..	2·3	0	0	22	1	1	7	4	1	0	3	5	2	0
Dehri	0830	107	1010·9	998·7	..	25·8	23·3	22·0	26·4	80	..	2·9	..	3·3	0	0	31	0	1	2	12	5	7	2	2	0	0
	1730	,,	1007·1	994·9	..	26.8	23·3	21·5	25·6	74	..	2·4	..	3·2	0	0	30	3	4	12	2	1	1	4	3	1	0
Gaya	0230	116	1008·9	995·6	..	22·8	21·8	21·3	25·3	91	..	2.3	..	5.6	0	1	15	1	0	6	5	2	0		1	15	0
	0530	,,	1009·3	995·9	..	21.9	21·2	20·8	24·6	93	..	2·9	..	6·8	0	1	24	1	0	6	6	8	2	1	1	6	0
	0830	,,	1011·3	998·1	−0 1	25·1	22·7	21·5	25·6	80	+12	2.9	+1·0	8·7	0	3	22	2	0	3	7	6	4	2	1	6	0
	1130	,,	1010·7	997·5	..	28·0	22·7	19·9	23·2	62	..	3.7	..	12.1	0	3	26	3	1	6	6	2	0	4	7	2	0
	1730	,,	1008·1	994 9	..	26·5	22·6	20·5	24·1	71	..	3·8	..	7·0	0	3	19	2	6	4	3	0	0	1	6	9	0
	2330	,,	1010·1	996·7	..	23·4	22·0	21·3	25·3	88	..	2·4	..	6·0	0	1	20	1	1	5	4	5	2	2	1	10	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1010·9	996·8	−0.2	25·0	22·3	20·9	24·9	78	+5	2·5	+1·5	4.1	0	0	20	1	0	15	0	0	0	1	3	11	0
	1730	,,	1008·6	994·5	..	26·0	22·5	20.5	24·3	72	..	3·0	..	2.3	0	0	15	1	0	8	1	0	1	4	0	16	0
Nautanwa	0830	99	1010·3	999·0	..	23·3	22·1	21·5	25·6	90	..	..	..	2·9	0	0	18	2	5	3	5	0	0	3	0	13	0
	1730	,,	1008·1	997·0	..	27·3	24·1	22·1	26·6	71	..	..	..	4·3	0	0	26	0	5	4	4	0	3	8	2	5	0
Hardoi	0830	142	1010·6	994·3	0	23·2	21·5	20·5	24·3	85	+9	2·8	+1·4	5.5	0	0	29	3	4	5	2	2	2	9	2	2	0
	1730	,,	1007·6	991·6	..	27·3	23·3	21·4	25·3	72	..	2·6	..	3·7	0	0	19	4	4	2	2	1	3	1	2	12	0
Gonda	0830	110	1011·0	998·5	..	24·3	22·6	21·5	25·9	83	+7	2·5	+1.1	2·9 (f)	..	0	21	1	2	14	2	0	1	2	5	4	0
	1730	,,	1007·8	995·6	..	26·1	22·8	20·9	25·0	73	..	2·5	..	1·4	..	0	11	1	1	9	1	0	0	1	4	14	0
Lucknow	0830	111	1010·9	998·7	+0.1	24·6	22·2	21·0	24·9	80	+11	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1008·3	995·8	..	26·9	23·0	21·0	24·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lucknow (Amausi)	0230	128	1008·4	993·7	..	21·5	20·8	20·4	24·1	94	..	2·2	..	5·4	0	2	14	0	7	3	1	1	2	2	0	15	0
	0530	,,	1008·6	993·9	..	20·9	20·4	20·1	23·5	95	..	2·4	..	5·6	0	2	15	0	7	3	1	2	3	1	0	14	0
	0830	,,	1010·6	996·0	−0.8	24·5	22·0	20·7	24·4	80	+23	3·0	+2·0	10·9	0	4	25	1	1	10	4	1	6	4	2	2	0
	1130	,,	1010·3	995·9	..	28·0	22·6	19·6	22·9	62	..	3·6	..	15·5	0	7	23	2	2	5	6	2	2	6	5	1	0
	1730	,,	1007·6	993·2	..	26·8	22·7	20·6	24·1	70	..	3·2	..	7·6	0	3	20	3	4	4	1	2	0	5	4	8	0
	2330	,,	1009·6	995·0	..	22·1	21·1	20·6	24·1	91	..	2·4	..	4·7	0	1	17	1	7	3	2	1	2	1	1	13	0
Faizabad	0830	102	1010·3	998·7	..	24·6	22·1	20·9	24·6	80	..	3·2	..	3·8	0	0	18	1	2	3	5	1	3	3	0	13	0
	1730	,,	1007·7	996·2	..	26·2	23·4	21·9	26·4	77	..	2·5		1·3	0	0	10	1	3	2	4	0	0	0	0	21	0
Gorakhpur	0830	77	1009.7	1000·8	−1.8	25·7	22·8	21.1	25.3	76	+1	2·5	+1.3	4·8	0	0	26	0	1	11	1	0	3	7	2	5	1
	1730		1006·8	998.1	..	28.0	23·5	21·0	25·3	67	..	2.7		3·1	0	0	24	0	6	2	1	1	6	5	2	7	1
Gorakhpur (PBO)	0230	78	1008.6	999·7	..	23.7	22.3	21.7	25.8	89	..	2.1	..	4.5	0	1	22	3	8	5	0	1	3	3	0	8	0

(R) Register not received.

(f) Mean of 25 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East) —(*Contd.*)																											
Gorakhpur (P.B.O.) —(*Contd.*)	0530	78	1009·0	1000·1	..	23·1	21·9	21·4	25·3	89	..	2·6	..	3·3	0	0	15	0	6	7	0	1	1	0	1	16	0
	1130	,,	1010·8	1001·9	..	27·9	24·1	22·5	27·7	73	..	3·6	..	8·0	0	0	29	1	1	9	3	2	6	6	3	0	0
	2330	,,	1009·9	1000·9	..	24·4	22·8	22·1	26·4	87	..	1·9	..	3·2	0	2	18	4	4	4	0	1	2	3	0	13	0
Kanpur	0830	126	1010·9	996·4	—0·6	23·5	21·8	21·2	24·9	83	+15	3·3	+2·6	4·4	0	0	31	2	2	11	2	2	3	9	0	0	0
	1730	,,	1008·2	994·0	..	27·1	22·6	20·4	23·8	67	..	3·2	..	4·0	0	0	31	7	2	11	0	0	2	5	4	0	0
Kanpur Aerodrome	0530	126	1008·6	994·0	..	21·9	20·7	20·3	23·5	94	..	2·7	..	7·1	0	2	16	1	4	5	2	1	2	3	0	13	0
	0830	,,	1010·4	996·0	..	24·3	22·1	21·0	24·9	82	..	2·9	..	12·4	0	2	27	3	3	5	5	2	6	3	2	2	0
	1130	,,	1010·3	996·1	..	28·1	23·7	21·3	25·8	65	..	3·3	..	15·4	0	4	27	2	5	8	0	3	5	5	3	0	0
	1730	,,	1007·7	993·4	..	27·3	23·4	21·3	25·5	71	..	3·0	..	9·8	0	3	18	5	3	5	2	0	1	1	4	10	0
	2330	,,	1009·6	995·1	..	22·8	21·7	21·2	25·0	90	..	2·2	..	6·5	0	2	12	2	4	4	2	0	1	1	0	17	0
Sultanpur	0830	97	1010·3	999·3	..	25·6	22·9	21·5	25·6	79	..	3·2	..	2·5	0	0	18	0	1	5	6	1	1	4	0	13	0
	1730	,,	1007·2	996·3	..	28·3	23·4	20·7	24·7	66	..	2·6	..	1·9	0	0	14	0	1	9	1	0	1	2	0	17	0
Azamgarh	0830	,,	1010·5	1001·6	..	24·6	22·9	22·0	26·4	85	..	3·0	..	3·7	0	0	29	0	1	19	0	0	0	9	0	2	0
	1730	,,	1007·5	996·8	..	26·7	23·9	22·6	27·1	80	..	1·5	..	1·7	0	0	14	0	2	11	0	0	0	1	0	17	0
Fatehpur	0830	114	1010·6	997·6	..	24·4	22·4	21·3	25·5	83	+15	2·6	+1·3	5·0	0	1	28	1	4	8	2	2	1	8	3	2	0
	1730	,,	1007·5	994.6	..	27·0	23·6	21·8	26·3	74	..	2·3	..	2·6	0	0	16	2	3	6	0	0	1	0	4	15	0
Ballia	0830	64	1010·5	1003·2	..	26·2	23·8	22·6	27·6	80	..	2·5	..	2·0	0	0	17	1	3	7	5	1	0	0	0	14	0
	1730	,,	1007·6	1000·4	..	27·9	24·8	23·6	28·8	78	..	2·4	..	1·7	0	0	16	0	3	5	3	1	0	3	1	15	0
Banda	0830	121	1010·4	996·9	..	24·9	22·4	21·3	25·0	83	..	2·1	..	2·5	0	0	31	0	8	0	5	0	15	0	3	0	0
	1730	,,	1005·1	991·6	.	28·3	24.2	22·4	26·0	72	..	2·4	..	2·1	0	0	30	0	8	0	8	0	8	0	6	1	0
Allahabad (Bamrauli)	0230	98	1008·5	997·3	..	22·4	21·1	20·3	23·8	88	..	1·8	..	2·6	0	0	13	1	3	2	1	1	2	2	1	18	0
	0530	,,	1008·9	997·6	..	21·6	20·7	20·3	23·8	93	..	2·7	..	2·9	0	1	14	1	3	3	1	2	4	1	0	16	0
	0830	,,	1010·7	999·6	—0·7	25·5	22·5	20·8	24·6	76	+9	2·8	+1·1	6·1	0	2	26	2	2	5	5	3	5	6	0	3	0
	1130	,,	1010·4	999·4	..	29·5	22·9	19.0	22·0	55	..	3·2	..	9·0	0	1	28	4	4	3	5	3	2	6	2	2	0
	1730	,,	1007·7	996·7	..	27·6	22·8	20·1	23·5	65	.	2·8	..	3·5	0	1	18	3	3	3	1	1	0	3	5	12	0
	2330	,,	1009·8	998·5	..	23·1	21·4	20·3	24·1	85	..	1·8	..	2·2	0	0	12	0	2	4	2	1	2	1	0	19	0
Varanasi (Babatpur)	0530	85	1010·0	1000·1	..	22·2	21·3	20·7	24·7	91	..	2·7	..	5·9	0	0	28	1	2	6	5	1	8	2	3	3	0
	0830	,,	1011·8	1002·0	+0·1	25·1	22·7	21·5	25·6	81	+10	2·8	+0·7	8·4	0	1	29	1	1	2	8	2	8	5	3	1	0
	1130	,,	1011·3	1 01·6	..	28·6	23·1	19·9	23·8	61	..	3.7	..	10·9	0	1	29	0	4	2	8	3	4	1	7	1	1
	1730	,,	1008·7	998·9	..	27·4	23·0	20·7	24·6	68	..	2·5	..	8·3	0	0	30	3	3	4	5	1	3	5	6	1	0
	2330	,,	1010·9	1001·0	..	24·2	22·8	22·3	26·6	87	..	0·8	..	5·1	0	0	24	1	4	6	3	1	1	8	0	7	0
Varanasi.	0830	76	1010·2	1001·5	—1·3	25·0	23·1	21·7	26·6	81	+12	2·8	+1·1	4·5	0	0	29	1	2	6	4	2	1	11	2	2	0
	1730	,,	1007.8	999·2	..	28·0	23·7	21·3	25·8	68	..	3·1	..	2·6	0	0	28	1	8	3	3	1	2	4	6	3	0
Uttar Pradesh (West) Dehra Dun	0530	682	1010·7	933·7	..	17·1	15·6	14·6	16·5	85	..	1·4	..	1·8	0	0	17	9	6	0	0	0	0	1	1	14	0
	0830	,,	1011·1	935·2	—0·4	21·8	17·9	15·4	17·4	68	0	1·4	+0·4	0·3	0	0	3	0	0	0	0	2	0	1	0	28	0
	1130	,,	1010·7	935·7	..	25·0	19·3	16·0	17·7	59	..	2·0	..	3·8	0	0	29	0	0	1	2	9	13	2	2	2	0
	1730	,,	1008·1	933·1	..	24·4	20·1	17·8	20·0	67	..	1·9	..	1·6	0	0	10	3	0	2	1	1	2	0	1	21	0
	2330	,,	1011·3	934·7	..	18·6	16·8	15·5	17·7	81	..	0·2	..	2.7	0	0	19	13	4	0	0	0	0	2	0	12	0
Roorkee	0830	274	1011·2	980·0	—0·4	22·7	19·7	17·9	20·5	75	+3	2·7	+2·1	0·5	0	0	5	0	0	0	4	0	0	0	1	26	0
	1730	,,	1008·4	977·8	..	27·3	21·2	17·8	20·2	56	..	3·1	..	0·5	0	0	5	0	2	0	1	0	0	0	2	26	0
Najibabad	0830	270	1011·3	980·5	..	22·0	19·5	17·8	20·6	79	..	1·8	..	2.6	0	0	25	1	11	1	1	0	1	0	10	6	0
	1730	,,	1008·8	978·7	..	27·7	22·1	19·0	22·1	61	..	1·8	..	2·7	0	0	27	4	8	0	5	0	0	0	10	4	0
Meerut	0830	222	1007·0	982·0	—3·9	24·5	21·1	19·1	22·0	73	+6	0·3	—0·2	2·5	0	0	20	2	0	8	0	0	0	10	0	11	0
Bareilly	0830	173	1010·7	990·9	—0·6	23·8	21·2	19·7	23·1	78	+5	2·5	+1·6	3·2	0	0	28	1	3	11	4	1	2	4	2	3	0
	1730	,,	1007·5	988·0	..	26·3	22·1	19·7	23·2	68	..	2·6	..	1·4	0	0	7	3	0	1	1	1	0	0	1	24	0
Bareilly (P.B.O.)	0230	172	1008·5	988·8	..	22·2	20·5	19·7	22·7	86	..	1.9	..	5·0	0	4	9	0	2	8	1	1	0	1	0	18	0
	0530	,,	1009·0	989·2	..	21·5	19·9	19·1	22·1	86	..	2·8	..	5·1	0	0	19	1	6	10	0	0	0	2	0	12	0
	1130	,,	1010·7	991·2	..	26·2	21·6	19·4	22·1	68	..	3·2	..	6·0	0	0	27	0	3	9	3	0	1	5	6	4	0
	2330	,,	1009·7	990·0	..	22·7	20·7	19·8	22·8	85	..	1·7	..	3·8	0	2	11	1	2	4	2	1	1	1	1	18	0
Aligarh	0830	187	1011·1	989·6	..	23·0	20·1	18·2	21·1	75	+24	2·2	+1·7	4·9	0	1	2	3	1	10	0	1	1	12	2	1	0
	1730	,,	1008·1	987·1	..	28·5	22·0	18·1	21·0	56	..	2·4	..	3·3	0	0	25	7	0	12	2	0	0	3	1	6	0
Mainpuri	0830	157	1010·9	992·9	—0·3	23·6	21·3	20·1	23·5	81	+19	0·8	—0·2	..	..	..	..	1	2	5	5	1	4	5	4	4	0
	1730	,,	1007·6	989·7	..	26·8	23·1	21·3	25·3	74	..	0·7	..	..	..	..	..	0	4	3	6	0	0	2	1	15	0
Agra	0830	169	1010·9	991·7	—0·5	23·5	20·2	18·0	20·6	75	+23	1·6	+0·8	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1008·1	989·1	..	27·6	21·5	17·8	20·4	58	..	1·9	..	2·1	0	0	6	1	4	1	0	0	0	0	0	25	0
Agra Aerodrome	0530	169	1009·1	990·3	..	19·5	18·7	18·2	20·9	93	..	(a)	..	4·1	0	0	16	2	4	3	0	0	0	7	0	15	0
	0830	,,	1010·7	991·7	..	23·4	20·7	19·1	22·1	78	..	2·3 2·4	..	7·7	0	1	28	5	4	3	1	0	2	7	7	2	0
	1130	,,	1010·5	991·9	..	28·7	22.4	18·6	21·8	58	..	2·6	..	12·2		4	25	3	3	5	2	2		3	8	2	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind velocity in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (West)—(*Contd.*)																											
Agra Aerodrome—(*Contd.*)	1730	169	1007·7	989·1	..	27·1	21·4	17·9	20·5	60	..	2·4	..	8·5	0	0	28	10	5	8	1	0	0	1	3	3	0
	2330	,,	1009·7	990·8	..	21·3	19·6	18·5	21·4	85	..	1·1	..	5·6	0	0	21	3	7	5	0	1	3	1	1	10	0
Orai	0830	141	1011·6	995·8	..	25·7	23·0	21·3	25·8	78	..	2·5	..	3·1	0	0	29	0	2	0	2	0	13	1	11	2	0
	1730	,,	1008·0	992·2	..	28·0	22·8	19·9	23·7	65	..	2·3	..	3·8	0	0	31	4	11	1	2	2	3	1	7	0	0
Jhansi	0830	251	1008·8	980·4	−3·1	24·2	20·9	19·1	22·0	74	+19	2·9	+1.9	1·1	0	0	11	4	0	4	0	0	0	3	0	20	0
Punjab (India) including Delhi																											
Pathankot	1730	,,	1007·3	979·2	..	28·0	22·0	18·4	21·6	58	..	3·1	..	1·7	0	0	18	2	1	4	0	0	0	10	1	13	0
	0830	312	1011·4	976·0	+0·5	22·1	17·8	14·8	16·9	64	−1	1.4	+0·2	5.1	0	0	25	6	9	8	1	0	1	0	0	6	0
	1130	,,	1011·1	976·2	..	27·3	19·8	14 9	16·9	47	..	1·7	..	6·0	0	1	28	1	5	2	5	6	6	3	1	2	0
	1730	,,	1008·1	973·4	..	28·0	19·8	14·4	16·4	44	..	1·3	..	4·8	0	1	22	3	0	0	0	2	2	10	6	8	0
Amritsar (Rajasansi)	0530	234	1010·0	982·9	..	17·5	16·7	16·0	18·3	91	..	0·6	..	3·9	0	2	12	3	2	6	2	0	0	0	1	17	0
	0830	,,	1011·3	984·5	+0·2	21·7	19·2	17·7	20·2	78	+4	0·6	−0·1	4·7	0	2	14	0	3	8	2	1	0	0	2	15	0
	1130	,,	1011·4	985·1	..	28·2	20·7	15·9	18·3	48	..	0·8	..	8·7	0	4	21	3	2	5	3	2	3	3	4	6	0
	1730	,,	1008·2	982·0	..	28·2	20·7	16·8	18·3	49	..	0·8	..	7·2	0	3	23	7	1	3	0	0	1	4	10	5	0
Adampur (Aerodrome)	0530	238	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	0830	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1130	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	2330	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ludhiana	0830	247	1011·6	983·3	+1.0	21.8	18·6	16 6	18·9	71	+10	0·5	−0·1	1·9	0	0	11	1	3	2	2	0	1	1	1	20	0
	1730	,,	1007·8	980·3	..	30·1	20·5	14·9	16·5	43	..	1·4	..	2·4	0	0	15	4	2	0	0	2	1	1	5	16	0
Ferozepur	0830	200	1011·0	988·0	..	22·4	19·0	16.9	19·3	70	..	0·4	..	0·8	0	0	10	4	2	0	2	0	0	0	2	21	0
	1730	,,	1007·8	985·4	..	29·2	22·0	17·6	20·5	52	..	0·9	..	0·8	0	0	9	1	2	1	1	0	0	0	4	22	0
Halwara (Aerodrome)	0830	242	1011·5	983·9	..	22·1	18·4	16·0	18·1	69	..	0·8	..	6·8	0	24	2	3	3	3	5	2	2	3	5	5	0
	1730	,,	1009·3	982·1	..	28.3	19·3	12·4	14·7	39	..	1·3	..	12·9	0	26	4	5	3	1	2	0	0	2	17	1	0
Chandigarh	0830	347	1010·5	971·4	−0.1	24.4	19·4	16·1	18·3	60	−2	0·7	−0·3	3.8	0	0	27	0	3	1	11	1	3	0	8	4	0
	1730	,,	1007·8	969·2	..	27·6	20·0	15.1	17·1	48	..	1·4	..	2·8	0	0	31	0	1	1	7	1	9	2	10	0	0
Ambala	0830	272	1011·4	980·0	−0·3	24·3	19·9	17·1	19·7	68	+6	0·5	−0.2	2·8	0	0	26	0	8	0	11	0	0	0	7	5	0
	1730	,,	1007·9	977.2	..	28·2	21·1	16.2	18·9	51	..	0.3	..	1·0	0	0	10	0	3	0	3	0	0	0	4	21	0
Ambala (P.B.O.)	0230	278	1009.2	977·4	..	21·2	18.7	17·3	19.5	78	..	0.7	..	4·0	0	0	21	3	2	4	4	1	2	2	3	10	0
	0530	,,	1009·4	977·5	..	20·2	18.0	16.7	18.9	81	..	1·2	..	3.6	0	0	19	3	4	3	5	0	0	3	1	12	0
	1130	,,	1010·6	979·5		27.5	21·0	17·7	19·5	56	..	0·8	..	6·5	0	1	26	2	4	8	4	0	0	0	9	4	0
	2330	,,	1009·9	978·3	..	22.7	18·7	17.1	18·3	72	..	0·8	..	6·0	0	0	24	7	3	1	3	0	1	1	8	7	0
Ambala (Aerodrome)	0530	274	1009 6	977·8	..	17·4	16·7	15·2	18·6	94	..	1·1	..	2·0	0	0	7	1	0	3	1	0	0	0	2	24	0
	0830	,,	1010·8	979·4	..	21·4	19.2	17·7	20·6	78	.	1·0	..	6·9	0	2	17	1	2	6	4	0	1	1	4	12	0
	1130	,,	1010·5	979.8	..	27·9	21·3	17·1	19·9	53	..	1·1	..	11·1	0	6	21	0	0	5	6	1	1	5	8	4	1
	1730	,,	1007·6	976·8	..	27·5	20·6	16·3	18·6	51	..	1·4	..	7·9	0	0	23	1	0	2	3	1	0	5	11	8	0
	2330	,,	1010·1	978·6	..	19·5	17·7	16·5	19·0	80	..	0·8	..	4.3	0	0	13	1	0	3	0	0	0	3	6	18	0
Patiala	0830	251	1010·9	982.4	..	23.1	19·4	16·9	19·5	68	..	1·1	..	3.7	0	0	18	0	0	0	7	0	0	0	11	13	0
	1730	,,	1008.1	980.2	..	27·4	20·0	15.3	17·4	49	..	2·1	..	3.0	0	0	14	1	0	0	4	0	0	0	9	17	0
Bhatinda	0830	211	1011·1	987.1	..	25·1	20·8	18.4	21.1	64	.	0.5	..	5·2	0	0	30	1	4	2	4	0	3	7	9	1	0
	1730	,,	1007·5	984.1	..	30·3	22·7	18.6	21.3	51	.	0.9	..	4·5	0	0	30	6	5	1	0	3	0	2	13	1	0
Karnal	0830	249	1008·9	980·6	.	23.6	19.5	16.9	19.3	67	..	0·7	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
	1730	,,	1005.9	977·9	..	27.8	21.1	17·0	19·5	56	..	0.3	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1009 8	984·2	..	18·6	16.7	15·3	17·5	81	..	0·8	..	5·5	0	1	25	1	2	8	2	2	6	4	1	5	0
	0830	,,	1011·2	986·1	−0·2	23.0	19.1	16·5	19·0	68	+14	0·8	+0·2	4.2	0	1	24	2	0	2	4	6	7	3	1	6	0
	1130	,,	1010.6	986·0	..	30·7	22.4	17·6	20·0	47	..	0.5	..	5.8	0	0	31	2	3	5	6	2	4	4	5	0	0
	1730	,,	1007·9	983·3	..	30.1	21·5	16·6	18.5	48	..	1.1	..	5.4	0	0	28	9	3	2	4	1	1	4	4	3	0
	2330	,,	1010·4	985·1	..	21.4	18.1	16.1	18.1	73	..	0·7	..	3.6	0	0	25	4	3	4	3	5	1	3	2	6	0
New Delhi (Safdarjang)	0230	216	1009·3	984·5	..	21.2	18.9	17.3	20.0	78	..	1 0	..	3.8	0	0	20	1	2	1	4	0	1	6	5	11	0
	0530	,,	1009·6	984·7	..	20·2	18·1	16·6	19·0	80	..	1·4	..	4·9	0	0	20	0	3	2	2	0	2	9	2	11	0
	0830	,,	1011.2	986.5	−0 2	23.3	19·4	16·9	19·4	68	+10	1·5	+0.6	8.9	0	1	27	2	2	4	3	0	3	10	4	3	0
	1130	,,	1010.9	986·6	..	28·5	21·5	17·2	20·0	52	..	2·1	..	10.3	0	2	26	3	1	6	6	0	0	3	9	3	0
	1730	,,	1007.8	983·7	..	28·7	21·3	16·7	19·4	50	..	1·9	..	5·8	0	0	24	4	2	6	2	1	1	0	8	7	0
	2330	,,	1010.2	985·5	..	22.2	19·5	17·9	20·5	77	..	1·0	..	3·6	0	0	13	2	0	3	4	1	0	1	2	18	0
Palam Aerodrome.	0230	233	1009·6	982·8	..	20.1	18·2	16·8	19·4	82	..	1·0	..	6·2	0	0	25	3	2	4	2	8	4	0	2	6	0
	0530	,,	1009·9	982·7	..	18·7	17·2	16·2	18·4	87	..	1·3	..	6.5	0	1	25	1	4	5	3	10	2	1	0	5	0
	0830	,,	1011·2	985·0	..	22·9	19·9	17.9	20·8	72	..	1·6	..	9·3	0	1	30	3	2	5	1	3	8	8	1	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. or nearest isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal.	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind velocity Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) Including Delhi—*Contd.*																											
Palam Aerodrome *Contd.*	1130	233	1010·9	984·7	..	28·5	21·8	18·1	20·6	54	..	1·7	..	14·4	0	7	24	3	3	6	3	2	0	7	7	0	0
	1430	,,	1008·3	982.4	..	30·2	21·9	16.3	19·5	46	..	2·3	..	14·6	0	6	25	5	3	8	2	0	1	2	14	0	0
	1730	,,	1007·8	981·7	..	28·0	21·1	16·8	19·5	54	..	1·8	..	10·6	0	2	29	7	4	8	0	3	0	1	8	0	0
	2030	,,	1009·7	983·5	..	23.2	19·6	17.6	19.9	70	..	1.0	..	5.8	0	0	25	5	1	10	1	0	1	2	5	6	0
	2330	,,	1010·5	983·9	..	21.0	18.6	17·1	19.5	78	..	0·8	..	6.2	0	0	26	1	4	8	5	3	2	2	1	5	0
Himachal Pradesh Mandi	0830	761	1012·1	926·5	−1.0	16·8	15·1	13·9	15·8	84	−5	(a) 1.0	−0.9	0·3	0	0	3	0	0	0	0	0	0	1	2	28	0
	1730	,,	1006.5	923·7	..	25·2	19·2	15·8	17·4	56	..	1·9	..	0·5	0	0	5	0	0	0	1	1	0	0	3	26	0
Bilaspur	0830	493	1012·9	957·2	..	20·3	17·8	15·9	18·5	76	..	0·8	..	1·0	0	0	2	0	1	1	0	0	0	0	0	29	0
	1730	,,	1008.3	953·9	..	26·5	20·2	16·3	19·0	54	..	1·8	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Jammu and Kashmir Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										
Skardu (R)	0830																										
(R)	1730																										
Leh	0530	3514	3112·4	666·5	..	1·6	−3·3	−12·5	1·7	35	..	(a) 0·9	..	(a) 4·3	0	0	21	4	14	1	1	0	1	0	0	9	0
	0830	,,	3118·7	667·5	−1.6	6·4	0·3	−9·5	2·6	33	−13	1·5	−0·7	3·4	0	0	22	0	0	1	2	13	6	0	0	9	0
	1730	,,	3070.3	664.5	..	11.8	3.5	−9.3	3.3	23	..	2.1	..	8.5	0	1	27	1	1	0	1	6	12	4	3	3	0
Srinagar	0830	1587	1529.0	844.2	−0.4	9.2	7.4	5.5	9.1	77	−9	2.2	+0·3	1.1	0	0	8	1	0	0	4	0	0	1	2	23	0
	1130	,,	1524.3	843.9	..	17.1	10.9	5.5	9.0	49	..	2.2	..	1.8	0	0	14	5	0	1	2	0	2	2	2	17	0
	1730	,,	1493.9	841.2	..	16.8	11.1	6.4	9.8	51	..	2.4	..	1.8	0	0	14	1	1	0	0	0	0	7	5	17	0
Srinagar (Aerodrome)	0530	1666	1507.4	834.5	..	7.5	4.8	1.5	6.8	67	..	1.5	..	1.6	0	0	7	0	0	3	0	2	0	2	0	24	0
	0830	,,	1520.8	836.0	..	11.2	7.1	2.8	7.5	58	..	2.1	..	3.7	0	0	19	2	1	0	3	3	0	2	8	12	0
	1130	,,	1519.2	836.1	..	16.8	9.8	3·2	7·7	43	..	2.5	..	5.7	0		25	5	7	4	1	1	0	1	7	5	0
	1730	,,	1488.4	833.1	..	18.2	9.8	1.3	6.7	36	..	2.4	..	5 4	0	0	23	6	1	0	0	0	1	0	15	8	0
	2330	,,	1508·3	834.7	..	10·3	6·4	2·1	7·2	58	..	1·2	..	5 1	0	0	6	1	0	0	1	0	0	2	2	25	0
Gulmarg	0830	2655	..	..	..				Closed during winter month																		
	1730	..	..	..																							
Banihal	830	..	..	..	..	11·9	8·5	5·2	8·7	65	..	1·7	..	0·3	0	0	1	0	0	0	0	0	0	1	0	30	0
	1730	..	..	..	..	17·3	10·8	5·2	8·7	47	..	1·5	..	1·1	0	0	5	1	0	0	1	0	0	1	2	26	0
Jammu*	0830	..																									
Jammu (Aerodrome)	0530	292	1010·0	976 2	..	19·5	16·5	14·3	16·3	72	..	1·1	..	5 1	0	1	17	0	15	2	0	0	0	1	0	13	0
	0830	,,	1011·6	978·0	..	21·5	17.1	13 9	15·8	62	..	1·5	..	9 2	0	2	27	0	23	4	0	0	0	1	1	2	0
	1130	,,	1011·3	978·4	..	27·1	19·4	14 2	16.3	46	..	1·4	..	6·3	0	2	20	0	7	2	4	1	2	3	3	9	0
	1730	,,	1008·4	975·5		27·3	19·7	14·8	16·7	47	.	1·3	..	3·9	0	0	18	3	2	1	0	1	1	4	6	13	0
	2330	,,	1010·4	976 9	..	21·4	17·9	15·5	17·6	69	.	0.7	..	6·0	0	1	18	3	13	1	2	0	0	0	0	12	0
Rajasthan (West) Ganganagar	0530	177	1009·6	989·1	..	19·0	16·0	13·9	15·8	73	..	0·5	..	3·2	0	0	23	1	6	1	1	1	3	1	9	8	0
	0830	,,	1010·9	990·6	+0·1	21·3	17·0	13·7	15·9	63	+13	0·4	+0·2	2·6	0	0	19	0	3	3	3	2	6	1	1	12	0
	1130	,,	1010·7	990 9	..	31·1	20·3	12·7	15·1	34	..	0·5	..	5·7	0	0	29	3	8	3	4	2	3	4	2	2	0
	1730	,,	1007·6	988·0	..	31·4	21·0	14·2	16·4	37	..	0·4	..	1·5	0	0	9	2	2	1	0	0	1	2	1	22	0
	2330	,,	1010·0	989·7	..	21·7	17·6	14·7	16·7	64	..	0·4	..	2 1	0	0	13	0	0	1	2	3	2	2	3	18	0
Anupgarh (R)	0830																										
(R)	1730																										
Mahajan	0830	187	1009·2	988 0	.	26·0	20·5	17 1	19 6	59	..	0 7	..	3·5	0	0	31	1	6	2	7	8	4	3	0	0	0
	1730	,,	1006·1	985·3	.	31·9	23·1	18·7	21·0	48	..	(a) 0.9	..	(a) 5·9	0	0	30	15	2	1	2	0	3	4	3	0	0
Bikaner	0830	291	1011·3	97 •1	..	22·0	18·2	15·4	17 4	67	..	0·5	..	4.7	0	0	20	0	2	4	3	1	3	6	1	11	0
	1730	,,	1007.5	975·3	..	31 4	21·5	15·0	17·6	40	..	1·2	..	7·4	0	1	26	8	4	4	0	1	1	6	3	4	0
Bikaner	0830	224	1010·9	935 4	−0·4	22·7	16·0	9 7	12·8	47	0	0	+0·6	3.3	0	0	24	2	1	2	9	2	2	5	1	7	0
	1730	,,	1007·1	932·4	..	32·9	19.2	7·9	11.1	22	..	0·1	..	4.7	0	0	24	5	5	1	0	0	2	5	6	7	0
Bikaner (P.E.O.)	0530	224	1009·3	983·4	..	18·6	15·7	13·2	15·5	72	..	0·6	..	1·0	0	0	6	0	0	0	2	1	3	0	0	25	0
	1130	,,	1010.2	985·4	..	32.4	22·4	16·2	18·9	39	..	0·2	..	3·7	0	0	21	3	5	0	0	2	3	7	1	10	0
	2330	,,	1009·8	984·2	..	22.7	18·0	14·6	16·8	61	..	0.3	..	1·8	0	0	10	1	4	1	0	0	3	0	1	21	0
Nagaur	0830	298	1009.4	976·1		27·7	15·9	11.7	14·7	40	..	0.6	..	4·8	0	0	30	3	3	4	4	4	9	2	1	1	0
	1730	,,	1008·6	972·9	..	32·7	20·5	10·9	14·2	27	..	1·0		6·2	0	0	30	7	4	1	1	2	6	5	4	1	0
Phalodi	0830	234	1011·0	984.3	..	23·3	18·2	14 0	16·7	59	..	0·3	..	9·0	0	2	19	1	2	1	2	3	7	2	3	10	0
	1730	,,	1008·3	982·2	..	33·0	21·3	12 7	15·8	33	..	0·7	..	8·5	0	3	22	6	1	0	0	1	8	4	5	6	0
Jaisalmer	0830	242	1010·6	983·1	..	23·7	17.8	13·2	15·6	57	..	0 1	..	8·7	0	5	14	1	2	1	1	7	7	0	0	12	0
	1730	,,	1006·7	980·2	..	33·1	18·5	7·2	10·3	21	..	0.1	..	9·3	0	3	24	7	5	2	1	5	5	1	1	4	0

(R) Regisher not received. *Data not reliable (a) mean of 30 days

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—OCTOBER, 1961 (ASVINA 9—KARTIKA 9, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (West) —(*Contd.*)																											
Jodhpur—(*Contd.*)	0230	224	1009·2	983·7	..	23·0	16·2	10.1	13·0	46	..	0·5	..	6·0	0	0	27	4	10	3	0	0	4	5	1	4	0
	0530	,,	1009·5	983·7	..	20·9	15·7	10·9	13·6	55	..	0·3	..	4·0	0	0	24	3	11	0	0	0	7	3	0	7	0
	0830	,,	1011.2	985·6	+0·7	23·0	17·3	12·5	15·0	54	+3	0·7	−0·3	3.7	0	0	19	3	9	1	1	1	3	1	0	12	0
	1130	,,	1010.9	985·9	..	30·2	19·6	11·4	14·2	34	..	0·9	..	6.2	0	0	21	2	5	2	0	1	8	3	0	10	0
	1730	,,	1007·3	982.6	..	32·7	19·6	9·6	12.2	25	..	1·1	..	7·4	0	1	23	3	7	1	3	2	5	3	0	7	0
	2330	,,	1010·0	984.5	..	24·7	16 8	9·7	12·7	41	..	0·3	..	6·3	0	1	25	4	4	1	1	0	6	8	2	5	0
Barmer	0530	194	1008·8	986·6	..	22·4	17·8	14·4	16.6	62	..	0	..	6·9	0	1	22	3	0	0	2	0	2	5	11	8	0
	0830	,,	1010·8	988·6	−0·6	23·0	18·7	15·8	18·1	65	+9	0·3	−0·4	4·1	0	0	17	1	0	1	1	0	1	1	12	14	0
	1130	,,	1010·4	988·9	..	31·7	22·1	16·3	18·9	40	..	0·8	..	5·4	0	0	28	4	4	4	1	3	4	3	5	3	0
	1730	,,	1006·7	985·6	..	32·9	21·9	14·8	17·1	35	..	1·2	..	3·3	0	0	17	3	1	1	1	2	4	0	5	14	0
	2330	,,	1009·3	987·4	..	26·1	19·2	14·3	16.5	49	..	0·2	..	4·6	0	0	21	2	0	0	0	0	4	8	7	10	0
Munabao (R)	0830	80																									
	1730	,,																									
Rajasthan (East)																											
Pilani	0830	301	1010·3	976·3	..	24·5	18·7	14·1	16·7	55	..	0·4	..	10·2	0	1	30	2	1	14	8	1	0	5	0	0	0
	1730	,,	1007·2	973·9	..	30·2	19·6	11·1	14·2	35	..	0·5	..	8·4	0	1	26	7	5	6	0	0	1	5	3	4	0
Sikar	0830	433	1010·9	962·7	..	25·8	20·8	17.6	20·5	62	..	1·1	..	2·7	0	0	28	1	1	3	4	4	7	8	0	3	0
	1730	,,	1006·9	959·6	..	30·6	22·0	16·9	19·4	46	..	1·7	..	1·6	0	0	17	2	1	0	2	1	4	5	2	14	0
Alwar	0830	271	1009·7	978·8	..	22 7	19·4	17.3	19·9	73	..	2·5	..	1·2	0	0	13	3	3	3	0	1	1	0	2	18	0
	1730	,,	1007·4	977·1	..	28·8	21·2	16·4	19·0	50	..	2·1	..	1·1	0	0	12	1	5	1	0	1	0	2	2	19	0
Jaipur (Sanganer)	0230	390	1009·1	964·8	..	20·2	17·7	15·8	18·3	76		1·0	..	4·7	0	1	24	3	9	4	1	0	2	2	4	6	0
	0530	,,	1009·4	964·9	..	19.4	17·2	15·8	17·8	78	..	1·5	..	5·6	0	1	27	3	6	8	1	0	0	0	10	3	0
	0830	,,	1010·7	966·9	−1·4	23·5	19·3	16·5	19·0	66	+19	1·5	+0·5	7·1	0	1	23	1	3	7	1	1	1	1	9	7	0
	1130	,,	1009·9	966·7	..	29·2	20·2	14·4	16·3	44	..	1·6	..	11·0	0	1	30	1	5	8	1	0	5	4	7	0	0
	1730	,,	1006·8	963·9	..	29·1	20·1	13·4	16·2	41	..	1·6	..	7·7	0		26	0	3	8	1	1	3	3	8	4	0
	2330	,,	1009 9	965·7	..	21·6	17·9	15·5	17·5	69	..	1·3	..	4·7	0	0	24	3	5	7	1	0	1	2	5	7	0
Dholpur	0830	176	1010·4	990·4	..	24·0	21·3	19·8	23·2	78	..	2·8	.	2·2	0	0	13	3	1	1	0	1	0	5	2	18	0
	1730	,,	1007·3	987·5	..	27·0	22·1	19·2	22·7	64	..	2·6	..	2·4	0	0	15	3	6	2	0	0	2	0	2	16	0
Ajmer	0830	486	1011·3	956·7	−1·2	22·2	17·9	15·1	17·4	65	+1·8	1·3	+0·4	3·9	0	0	24	2	5	1	6	2	5	2	1	7	0
	1730	,,	1006·6	953·6		29·7	18·7	11·0	13·2	34	..	1.1	..	5·4	0	0	27	0	7	3	1	2	5	7	2	4	0
Tonk	0830	272	1010·0	979·1	..	22·7	20·1	18·5	21·3	75	..	2·3	..	5·0	0	0	26	1	6	1	3	1	4	2	8	5	0
	1730	,,	1006·3	975·8	..	29·0	21·9	17·8	20·5	53	..	1·7	..	4·4	0	0	21	2	6	4	1	1	2	3	2	10	0
Kota (Aerodrome)	0530	257	1009·7	978·4	..	20·5	18·8	17·5	20·1	84	..	2·2	..	5·8	0	0	24	2	8	2	0	0	2	8	2	7	0
	0830	,,	1011·1	980·0	..	23·9	20·1	17·6	20·4	69	..	2·6	..	7·8	0	0	26	4	3	3	0	1	3	8	4	5	0
	1130	,,	1010·7	980·2	..	28·8	21·1	15·9	18·8	49	..	2·6	..	8·9	0	0	28	6	9	1	1	0	2	3	6	3	0
	1730	,,	1007·8	977·4	..	29·1	20·6	14·6	17·4	45	..	2·5	..	7·1	0	0	28	4	13	3	0	1	2	1	4	3	0
	2330	,,	1010·4	979·2	..	22·3	19·4	17·5	20·2	75	..	1·8	..	5·5	0	0	26	1	3	0	1	3	14	3	1	5	0
Kota	0830	257	1010·8	981·7	−1·1	24·8	21·2	18·9	22·2	71	+22	2·2	+0·9	2·7	0	0	16	0	1	1	0	0	0	9	5	15	0
	1730	,,	1007·9	979·2	..	28·2	21·9	17·7	21·1	57	..	1·3	..	1·9	0	0	13	0	3	2	1	1	1	1	4	18	0
Erinpura (Jawai Dam)	0830	295	1011·7	978·1	..	21·5	18·8	16·7	19·5	77	..	1·5	..	6·9	0	0	22	1	0	0	9	8	3	1	0	9	0
	1730	,,	1007·7	974·8	..	28·9	21·7	17·5	20·1	46	..	1·4	..	2·7	0	0	19	11	2	0	0	0	2	3	1	12	0
Chambal (Rawat Bhatta Dam)	0830	351	1011·4	971·6	..	21·9	19·9	18·6	21·6	81	..	2·7	..	1.6	0	0	13	2	4	0	1	0	3	1	2	18	0
	1730	,,	1007.7	968·8	..	28·3	21·0	16·3	18·9	51	..	2·4	..	3·4	0	0	29	6	15	1	2	0	2	0	3	2	0
Udaipur	0230	582	1010.8	944·8	..	17·5	15·9	15·2	16.7	86	..	0·5	..	0·4	0	0	1	0	1	0	0	0	0	0	0	30	0
	0530	,,	1011·3	945·1	..	16·4	15·3	14·5	16·5	88	..	1·0	..	0·4	0	0	3	1	0	1	0	0	1	0	0	28	0
	0830	,,	1011·7	946·5	−1·1	21·1	17·8	15·6	17·7	71	+14	1·3	+0·5	0 6	0	0	4	1	1	0	0	0	0	0	2	27	0
	1130	,,	1010·1	946·7	..	28·5	20·1	14·7	16·7	45	..	1·7	..	3·1	0	0	15	1	4	3	1	1	1	3	1	16	0
	1730	,,	1007·6	943·9	..	27·2	19·8	15·2	17·0	50	..	2·2	..	2·5	0	0	10	1	2	1	0	2	1	1	2	21	0
	2330	,,	1011 3	946·0	..	19·1	16·7	15·0	17·0	78	..	0·7	..	0·3	0	0	2	0	2	0	0	0	0	0	0	29	0
Jhalawar	0830	321	1010·9	974·5	−1·2	22·8	20·1	18.4	21·3	77	+16	2·1	+0·7	1·5	0	0	14	2	3	1	1	1	1	4	1	17	0
	1730	,,	1007·3	971·8	..	28·3	21·4	17·0	19·9	52	..	2·3	..	2·7	0	0	22	5	9	1	1	0	2	2	2	9	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1008·7	985·0	..	20·6	19·4	18·7	21·4	89	..	2·0	..	2·5	0	1	11	1	5	0	2	0	1	2	1	19	0
	0530	,,	1008·9	985·2	..	20·1	18·9	18·2	20·9	89	..	2·5	..	4·0	0	1	12	1	2	2	2	1	2	1	2	18	0
	0830	,,	1010·5	987·0	−1·3	24·3	21·0	19 0	22·1	73	+14	2·2	+1·4	5·2	0	2	17	1	3	4	0	1	3	4	3	12	0
	1130	,,	1010·5	987·2	..	27·8	22·0	18·4	20·4	60	..	2·5	..	8·6	0	2	26	3	4	2	3	0	2	8	6	3	0
	1730	,,	1007·7	984·5	..	27.1	22·3	19·6	22·9	65	..	2·6	..	4·1	0	0	17	3	7	2	1	0	0	0	4	14	0
	2330	,,	1009·9	986·2	..	21·2	19·8	18·9	22·0	87	..	2·4	..	3·0	0	1	12	1	3	2	0	2	3	1	1	18	0
Sheopur	0830	235	1011·2	984·4	−0·1	23·0	20·7	19·4	22 3	81	+14	2·5	+0·5	5·7	0	0	29	4	6	2	3	6	3	2	1	2	0
	1730	,,	1007·6	981·3	..	27.5	23·3	21·0	25.2	69	..	2·5	..	6·5	0	0	30	7	8	5	2	2	1	2	3	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—Contd.																											
Shivpuri	0830	464	1010·7	958·7	..	23·1	19·9	18·0	20·9	74	..	2·5	..	7·7	0	0	29	2	6	3	1	1	8	5	3	2	0
	1730	"	1007·4	956·0	..	26·4	20·4	16·7	19·6	59	..	2·7	..	8·2	0	0	31	6	10	1	2	2	3	1	6	0	0
Nowgong	0830	229	1010·8	984·8	−1·0	22·9	21·4	20·5	24·3	86	+17	2·7	+1·0	5·4	0	0	30	1	4	4	0	5	11	3	2	1	0
	1730	"	1007·5	981·9	..	27·7	22·8	20·0	23·5	65	..	2·9	..	5·2	0	0	27	2	16	0	1	1	2	0	5	4	0
Guna	0530	478	1009·8	955·3	..	18·1	17·3	16·8	19·3	92	..	2·0	..	4·4	0	0	26	0	5	3	10	1	2	4	1	5	0
	0830	"	1010·9	957·2	−1·3	22·8	19·9	18·2	20·9	76	+14	2·5	+1·3	4·0	0	1	22	0	5	4	3	4	1	4	2	8	0
	1130	"	1009·9	957·1	..	27·4	21·4	17·8	21·0	59	..	2·6	..	11·2	0	2	29	4	4	6	2	0	2	4	9	0	0
	1730	"	1007·5	954·5	..	25·7	21·2	18·7	21·6	67	..	2·6	..	8·0	0	0	29	15	4	2	0	0	1	1	6	2	0
	2330	"	1010·5	956·4	..	20·0	18·8	18·2	21·3	89	..	2·3	..	3·4	0	0	20	0	3	4	6	2	1	1	3	11	0
Nimach	0830	496	1011·6	956·0	−0·9	22·8	18·5	15·6	17·7	66	+11	2·5	+1·3	6·2	0	0	22	2	9	0	0	0	5	4	1	9	1
	1730	"	1008·2	953·7	..	27·8	19·1	13·0	15·0	44	..	2·0	..	8·5	0	1	29	5	16	0	0	0	3	4	2	1	0
Rajgarh	0830	382	1010·2	967·0	..	21·8	19·4	17·9	20·6	79	..	2·7	..	4·1	0	0	28	13	1	0	0	0	0	12	2	3	0
	1730	"	1006·8	964·4	..	27·2	21·0	16·9	20·2	56	..	2·9	..	4·0	0	0	25	11	1	0	0	0	0	12	1	6	0
Sagar	0830	551	1010·6	949·1	−1·2	22·7	19·6	17·6	20·5	75	+20	2·2	+0·4	3·0	0	0	23	0	2	5	3	0	3	7	3	8	0
	1730	"	1006·8	946·2	..	26·0	19·6	15·8	18·2	56	..	2·5	..	4·6	0	1	29	0	8	7	0	0	2	7	6	1	0
Ratlam	0830	486	1011·2	956·5	−0·4	21·8	18·5	16.4	18·6	72	+9	3·0	+0·4	6·9	0	0	28	4	8	7	1	2	1	3	2	3	0
	1730	"	1007·3	953·9	..	28·2	20·2	15·1	17·8	48	..	2·7	..	8·8	0	0	30	5	13	2	1	0	2	3	4	1	0
Bhopal (Bairagarh)	0230	523	1008·9	949·9	..	19·8	17·9	16·7	18·8	83	..	2·7	..	6·3	0	1	16	2	7	2	1	0	2	0	3	14	0
	0530	"	1009·5	950·3	..	19·2	17·6	16·5	19·0	85	..	3·2	..	6·3	0	1	18	4	6	1	2	1	1	0	4	12	0
	0830	"	1010·7	952·3	−1·4	23·5	19·7	17·2	19·6	70	+8	3·1	+1·3	7·5	0	3	17	2	6	3	1	2	1	0	5	11	0
	1130	..	1009·6	952·0	..	27·3	20·5	16·2	19·1	54	..	3·0	..	11·0	0	3	25	5	8	3	2	3	0	1	6	3	0
	1730	"	1006·9	949·4	..	26·5	19·9	15·[illegible]	18·1	55	..	3·5	..	9·9	0	1	29	9	12	1	2	3	0	1	2	1	0
	2330	"	1010·1	951·3	..	21·0	18·6	17·0	19·6	78	..	2·7	..	5·9	0	1	15	4	6	1	1	0	1	2	1	15	0
Ujjain	0830	..	..	..	..	22·7	19·8	18·1	21·0	76	..	2·9	..	7·0	0	2	23	3	5	6	2	2	1	3	3	6	0
Hoshangabad	0830	302	1010·5	976·5	−1·9	22·6	21·0	20·1	23·5	86	+18	2·5	+0·7	3·7	0	0	28	2	13	3	2	3	4	1	0	3	0
	1730	"	1007·1	973·3	..	27·1	23·9	22·3	27·1	76	..	2·7	..	4·3	0	0	28	5	12	2	1	1	3	0	4	3	0
Indore	0530	567	1009·7	945·7	..	18·7	17·2	16·1	18·4	85	..	2·5	..	5·9	0	3	12	2	3	1	0	2	4	2	1	16	0
	0830	"	1011·0	947·7	−0·9	22·4	19·2	17·2	19·9	74	−19	3·0	+1·4	6·9	0	3	17	3	3	5	0	1	4	2	2	11	0
	1130	"	1009·8	947·5	..	26·9	19·8	15·2	17·4	52	..	2·5	..	11·3	0	4	24	2	11	5	0	1	1	2	4	3	2
	1730	"	1007·0	944·7	..	26·4	19·9	15·8	18·3	55	..	2·4	..	10·7	0	3	26	6	11	2	0	2	3	2	2	2	1
	2330	"	1010·4	946·8	..	20·7	18·3	16·8	19·4	79	..	1·8	..	5·7	0	3	16	3	5	2	0	2	4	2	1	12	0
Rajpur (Jhabua)	0830	293	1011·5	978·5	..	23·0	20·3	18·6	21·4	77	..	3·0	..	3·7	0	0	18	2	0	2	2	0	1	8	3	13	0
	1730	"	1007·6	975·1	..	29·1	21·6	15·[illegible]	19·4	50	.	2·6	..	4·8	0	0	24	2	2	3	0	1	1	9	6	7	0
Chhindwara	0830	685	1010·5	934·6	−0·5	22·3	19·0	16·	19·2	73	+3	3·2	+0·3	6·1	0	0	23	2	7	5	2	2	0	2	3	8	0
	1730	"	1006·7	931·8	..	25·3	19·4	15·7	17·8	58	..	4·4	..	6·6	0	0	28	6	9	0	6	0	3	0	4	3	0
Seoni	0830	619	1009.9	941·3	−1·7	22·8	19·6	17·5	20·5	74	+13	3·9	+2·0	3·0	0	0	29	5	12	1	4	1	1	2	3	2	0
	1730	"	1006·6	938·8	..	25·5	20·2	17·0	19·7	62		4·3	..	2·7	0	0	30	4	10	1	7	3	1	0	4	1	0
Betul	0830	653	1010·6	938·1	−0·8	22·3	19·3	17·4	19·9	75	+6	3·1	+0·1	4·8	0	0	27	0	7	6	7	1	0	5	1	4	0
	1730	"	1007·1	935·3	..	24·2	20·6	17·6	20·1	68	..	3·7	..	6·8	0	0	31	12	9	1	2	1	1	0	5	0	0
Khandwa	0830	318	1010·8	974·8	−1·2	23·3	20·4	18·7	21·6	76	+14	3·5	+1·7	2·5	0	0	29	4	4	1	1	8	4	5	2	2	0
	1730	"	1007·0	971·7	..	27·6	21·5	17·8	20·6	57	.	3·2	..	3·1	0	0	30	7	7	0	2	2	1	4	7	1	0
Madhya Pradesh (East)																											
Satna	0530	317	1009·1	972·9	..	20·2	19·5	19·0	22·1	93	.	2·0	..	2·4	0	1	14	2	3	4	1	1	3	1	0	16	0
	0830	"	1010·6	974·7	−1·0	23·7	21·2	19·8	23·1	79	+12	2·4	+0·6	1·6	0	0	18	0	1	4	4	1	1	6	1	13	0
	1130	"	1009·4	974·1	..	28·0	21·7	17·9	20·8	56	..	2·5	..	4·0	0	0	29	2	4	5	3	2	4	8	1	2	0
	1730	"	1007·3	971·8	..	26·4	21·9	19·2	22·2	65	..	3·1	..	1·7	0	0	19	4	2	6	1	0	1	3	2	12	0
	2330	"	1009·7	973·7	..	21.9	20·3	19·4	22·5	86	..	1·3	..	1·9	0	1	9	1	2	6	1	0	0	0	0	21	0
Sidhi	0830	272	1009·1	978·5	..	24·7	21·3	19·4	22·5	72	..	1·8	..	0·2	0	0	3	0	1	0	0	1	1	0	0	28	0
	1730	"	1006·8	976·7	..	28·1	21·5	17·3	20·2	53	..	1·4	..	0·8	0	0	13	2	2	1	3	1	2	0	2	18	0
Umaria	0830	459	1010·4	959·1	..	24·2	20·7	18·9	21·8	73	+6	2·5	+0·1	5·9	0	0	28	1	4	11	4	1	3	3	1	3	0
	1730	"	1006·9	956·2	..	26·5	21·8	19·4	22·5	66	..	2·8	..	2·8	0	0	25	6	4	5	4	2	0	2	2	6	0
Jabalpur	0530	393	1009·2	964·6	..	19·8	19·1	18·7	21·6	93	..	2·0	..	1·6	0	0	12	0	1	1	5	2	1	2	0	19	0
	0830	"	1010·6	966·4	−1·1	23·3	20·7	19.2	22·2	78	+7	2·4	+0.7	3·7	0	0	26	1	1	2	11	3	3	3	2	5	0
	1130	"	1009·4	966·0	..	28·0	20·0	18·3	21·6	57	..	2·8	..	5·2	0	0	29	3	4	1	4	3	1	5	8	2	0
	1730	"	1006·8	963·3	..	27·2	21·8	18·6	21·4	61	..	3·1	..	3·4	0	0	27	7	6	1	6	2	0	3	2	4	0
	2330	"	1009·7	965·4	..	21·7	20·4	19·6	22·7	88	..	2·3	..	2·8	0	0	15	0	1	2	8	1	1	2	0	16	0
Ambikapur	0830	611	1011·2	943·0	−0·3	21·7	19·7	18·6	21·4	83	+6	4·2	+1·8	4·5	0	0	27	5	5	1	6	5	3	1	1	4	0
	1730	"	1006·7	939·9	..	24·9	20·7	18·6	21·4	69	..	3·2	..	5·1	0	0	31	19	2	3	0	1	5	0	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Pendra	0530	625	1009·7	939·3	..	19·3	18·1	17·4	19·9	89	..	3·7	..	4·0	0	0	25	7	1	0	2	6	2	2	5	6	0
	0830	"	1010·8	941·3	−1·4	22·2	19·6	18·3	21·0	81	+14	4·4	+2·0	5·0	0	0	29	12	1	2	5	3	1	1	4	2	0
	1130	"	1009·6	941·0	..	25·3	20·7	18·0	21·4	65	..	4·8	..	5·6	0	0	28	9	2	3	3	5	2	0	4	3	0
	1730	"	1007·2	938·5	..	24·6	20·6	18·4	21·1	69	..	4·2	..	3·9	0	0	30	11	1	2	3	4	4	0	5	1	0
	2330	"	1010·3	940·4	..	20·3	18·8	17·9	20·5	87	..	2·6	..	2·5	0	0	21	3	1	1	1	5	4	1	5	10	0
Mandla	0830	443	1010·8	961·2	−0·5	22·1	20·0	18·8	21·6	82	0	2·6	−1·0	3·5	0	0	18	5	0	0	5	2	1	1	4	13	0
	1730	"	1006·8	957·9	..	26·6	21·1	17·6	20·5	59	..	2·9	..	4·2	0	0	19	8	1	0	0	3	0	0	7	12	0
Champa	0830	245	1010·9	983·1	−0·4	23·8	21·9	20·7	24·4	83	+4	4·8	+1·5	4·1	0	0	29	9	1	8	4	0	0	2	5	2	0
	1730	"	1007·4	980·0	..	26·9	22·7	20·5	24·1	70	..	4·5	..	3·5	0	0	29	8	0	9	2	1	3	2	4	2	0
Raigarh	0830	220	1010·4	985·7	−0·1	24·5	22·2	20·6	24·3	76	+2	4·7	+1·0	3·3	0	0	27	1	13	1	9	0	1	1	1	4	0
	1730	"	1007·1	982·2	..	26·9	23·0	21·0	24·9	72	..	4·9	..	1·3	0	0	11	4	4	0	2	0	1	0	0	20	0
Raipur	0530	298	1009·1	975·2	..	22·2	21·3	20·9	24·7	92	..	4·7	..	3·1	0	0	16	3	3	2	2	2	1	3	0	15	0
	0830	"	1010·8	977·2	−0·7	24·5	21·8	20·8	24·6	81	+10	5·2	+2·9	4·7	0	0	24	2	8	4	4	3	1	2	0	7	0
	1130	"	1010·0	976·7	..	27·5	22·7	20·0	24·1	65	..	5·1	..	6·3	0	0	28	2	10	6	3	2	0	3	2	3	0
	1730	"	1007·3	974·0	..	26·8	22·6	20·3	23·8	69	..	5·2	..	6·7	0	3	20	1	9	6	1	1	2	3	0	8	0
	2330	"	1009·7	976·0	..	23·7	22·0	21·0	25·0	85	..	3·9	..	5·4	0	0	22	0	2	7	7	1	3	0	2	9	0
Kanker	0830	402	1010·3	965·4	−0·9	24·2	21·8	20·2	23·7	80	+1	4·9	+1·6	0·8	0	0	7	0	0	1	2	0	4	0	0	24	0
	1730	"	1006·5	962·1	..	26·7	22·4	20·0	23·4	68	..	4·5	..	1·3	0	0	12	1	2	0	3	0	6	0	0	19	0
Jagdalpur	0530	553	1008·5	946·8	..	21·2	20·4	20·0	23·4	93	..	5·9		1·0	0	0	5	0	1	0	0	1	2	0	1	26	0
	0830	"	1009·9	948·6	−0·9	23·5	21·5	20·4	24·1	83	+4	6·0	+2·8	4·8	0	1	21	2	10	0	2	3	2	2	1	9	0
	1130	"	1008·5	947·8	..	26·7	22·4	20·4	23·8	69	..	5·7	..	6·5	0	0	28	6	9	2	2	2	4	0	3	3	0
	1730	"	1006·3	945·6	..	25·0	22·1	20·7	24·6	74	..	6·5	..	3·2	0	0	17	2	4	0	1	2	4	1	3	14	0
	2330	"	1009·2	947·7	..	22·2	21·1	20·6	24·1	96	..	5·1	..	0·9	0	0	5	0	2	0	0	3	0	0	0	26	0
Gujarat Region																											
Deesa	0830	136	1010·7	995·0	−1·4	22·7	19·7	15·8	18·3	66	..	1·4	.	3·1	0	0	29	0	12	4	5	2	1	1	2	2	2
	1730	"	1007·5	992·4	..	32·3	21·5	13·6	16·8	36	..	1·3	..	3·6	0	0	28	7	3	4	1	2	3	3	5	3	0
Radhanpur	0830	30	1011·0	1007·5	..	23·7	21·4	20·2	23·5	61	..	0·9	..	4·5	0	0	25	8	5	0	0	2	3	5	2	6	0
	1730	"	1007·9	1004·5	.	31·6	24·3	20·2	24·4	52	..	0·8	..	2·5	0	0	18	5	2	1	0	1	1	3	5	13	0
Idar	0830	219	1011·1	986·3	..	24·9	19·4	15·8	18·1	58	..	2·5	..	3·5	0	3	18	3	2	5	4	0	3	3	1	10	0
	1730	"	1007·4	983·1	.	30·3	20·5	13·3	15·9	38	..	1·9		3·3	0	0	29	0	2	11	1	0	3	8	4	2	0
Ahmadabad	0230	55	1008·9	1002·5	.	22·1	19·2	17·1	20·0	74	.	1·0	.	5·8	0	0	18	3	5	2	0	1	1	3	3	13	0
	0530	"	1009·2	1002·8	..	20·8	18·6	17·0	19·6	79	..	1·1	..	5·3	0	0	17	3	5	3	0	2	1	0	3	14	0
	0830	"	1011·1	1004·7	−1·0	24·5	20·3	17·5	20·4	67	+3	2·0	+0·7	7·4	0	1	21	4	4	7	1	0	2	0	4	9	0
	1130	"	1011·0	1004·8	..	31·3	22·1	16·1	19·0	42	..	2·0	..	11·3	0	3	26	6	4	7	3	0	1	2	6	2	0
	1730	"	1007·7	1001·5	..	32·1	21·4	14·2	16·7	36	..	1·8	..	10·7	0	0	31	10	6	5	1	2	1	1	5	0	0
	2330	"	1010·0	1003·6	.	23·4	19·6	17·1	19·7	69	..	0·7	.	4·6	0	1	13	3	2	1	1	2	2	1	2	17	0
Dohad	0830	333	1010·9	973·3	−1·1	22·9	19·9	17·9	20·5	74	+4	2·4	+0·5	6·6	0	1	27	2	6	9	1	2	2	4	2	3	0
	1730	"	1007·3	970·5	..	28·9	20·7	15·0	17·8	46	..	2·2	.	8·3	0	0	31	3	12	3	1	0	4	5	3	0	0
Baroda Aerodrome	0830	38	1011·0	1006·7	..	25·2	21·3	18·9	22·1	69	..	2·6	..	6·1	0	0	21	3	3	3	2	2	3	0	5	10	0
	1130	"	1010·7	1006·5	..	31·3	22·3	16·4	19·5	44	..	2·2	..	8·5	0	2	27	6	5	6	0	3	3	0	6	2	0
	1730	"	1007·4	1003·2	.	31·3	22·0	15·9	18·8	42	..	2·2	..	6·9	0	0	28	9	7	0	0	0	2	2	8	3	0
Baroda	0530	34	1009·2	1005·2	.	20·9	19·9	19·2	22·4	90	..	1·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	0830	"	1011·3	1007·3	−0·2	23·7	21·3	19·9	23·4	80	+6	1·7	+0·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1130		1011·1	1007·2	.	31·5	23·1	18·2	21·3	47	..	1·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		1007·7	1003·8	.	30·1	22·9	18·6	22·1	52	..	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	2330	"	1010·0	1006·0	..	23·0	20·7	19·2	22·5	80	.	0·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Broach	0830	17	1010·3	1008·3	−0·2	23·6	21·1	19·5	22·9	79	+5	2·2	+0·3	3·6	0	0	31	3	3	0	10	7	6	0	2	0	0
	1730	"	1007·0	1005·1	.	32·1	23·3	18·2	21·3	46	..	2·5	..	5·4	0	0	31	0	3	5	5	1	11	1	5	0	0
Surat*	0530	12	1009·3	1007·9	.	23·3	20·9	19·3	22·8	79	..	2·0	..	(g) 2·7	0	0	18	1	4	5	4	3	0	1	6	6	0
	0830	"	1011·0	1009·7	−0·4	25·3	21·9	19·7	23·5	73	+5	2·4	+0·2	(f) 2·4	0	0	20	3	8	4	5	1	2	1	2	5	0
	1130	"	1010·9	1009·6	..	31·3	23·4	18·8	22·4	51	..	2·6	..	(f) 4·7	0	0	24	7	5	7	0	3	1	2	4	2	0
	1730	"	1007·6	1006·3	..	31·3	23·4	18·7	22·4	50	..	2·0	..	(f) 4·3	0	0	23	2	4	5	0	1	9	3	5	2	0
	2330	"	1010·0	1008·6	..	25·7	22·1	19·9	23·7	73	..	1·0	..	(g) 3·4	0	0	19	5	6	3	1	5	3	1	2	5	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1011·0	1005·5	..	25·8	23·4	22·3	27·1	82	..	1·0	..	17·0	1	7	23	4	4	0	3	0	5	3	12	0	0
	1730	"	1007·9	1002·6	..	31·9	25·1	21·8	26·1	57	..	1·0	..	17·3	0	7	24	4	6	2	1	1	4	1	12	0	0
Naliya	0830	21	1010·9	1008·5	..	23·0	21·7	20·8	25·0	88	..	1·4	..	3·1	0	0	17	3	6	2	0	0	1	1	4	14	0
	1730	"	1008·6	1006·2	..	29·9	22·9	18·8	22·1	54	..	1·2	..	11·7	0	2	28	3	4	0	0	0	7	5	11	1	0
Bhuj (Rudramata)	0230	80	1009·5	1000·2	..	21·2	19·9	19·0	22·1	88	..	0·1	..	5·4	0	0	15	2	0	0	0	0	7	5	1	16	0

(g) Mean of 24 days. (f) Mean of 25 days. *Observations for 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal.	Mean wind speed in Km per hour.	Wind speed, (Km.p.h.): 62 or more	Wind speed, (Km.p.h.): 20 to 61	Wind speed, (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch —(Contd.)																											
Bhuj (Rudramata).—(Contd).	0530	80	1009·6	1000·3	..	19·5	18·7	18·0	20·9	91	..	0·4	..	5·4	0	0	17	0	0	0	0	0	10	6	1	14	0
	0830	"	1011·3	1002·1	−0·3	23·6	21·1	19·5	22·9	78	+21	1·2	+0·1	4·3	0	1	14	1	0	0	0	0	6	3	5	16	0
	1130	"	1011·4	1002·4	..	30·6	22·7	18·2	20·9	49	..	1·1	..	14·1	0	4	26	13	5	1	1	1	1	2	6	1	0
	1730	"	1008·3	999·3	..	31·1	21·7	15·4	17·5	42	..	1·8	..	12·9	0	3	27	12	6	2	0	0	1	15	4	1	0
	2330	"	1010·5	1001·2	..	22·2	20·0	18·5	21·6	80	..	0·2	..	4·5	0	0	20	2	0	0	0	0	10	8	0	11	0
Kandla Aerodrome	0830	35	1011·2	1007·2	..	25·7	21·5	18·8	22·2	67	..	1·3	..	8·7	0	2	25	3	1	3	0	0	1	3	16	4	0
	1130	"	1011·5	1007·6	..	31·7	22·3	16·3	19·3	42	..	1·5	..	8·2	0	0	30	7	5	4	1	0	1	3	9	1	0
	1730	"	1008·2	1004.5	..	32·1	21·2	13·6	16·3	35	..	1·7	..	13·9	0	5	25	9	2	1	0	4	3	6	5	1	0
New Kandla	0330	14	1011·7	1010·0	..	25·5	21·7	19·4	22·8	70	..	1·8	..	9·7	0	1	29	5	4	2	2	1	1	6	9	1	0
	1730	"	1008·2	1007·2	..	31·6	22·4	17·0	19·6	43	..	1·6	..	16·6	0	8	23	7	3	2	2	1	9	5	2	0	0
Mandvi	0830	9	1011·1	1010·0	+0.1	24·6	22·1	20·7	24·6	80	+3	1·6	−0·2	14·7	0	4	26	7	9	1	0	0	1	1	10	1	1
	1730	"	1008.9	1007·8	..	29·7	25·0	22·4	27·9	68	..	1·8	..	23·2	0	21	9	0	2	0	1	0	23	0	1	1	3
Surendranagar	0830	74	1010·9	1002·4	−0·4	25·4	20·3	16·7	19·7	61	6	2·1	+0·4	8·3	0	0	30	3	3	2	1	0	2	9	10	1	0
	1730	"	1007·5	999·2	..	33·0	20·6	11·2	14·2	29	..	2·1	..	8·4	0	0	30	4	6	2	0	2	1	7	8	1	0
Jamnagar Aerodrome	0530	23	1009.2	1006·6	..	21·6	20·0	18·9	22·2	85	..	0·5	..	7·2	0	1	22	0	0	1	2	4	6	6	4	8	0
	0830	"	1011·1	1008·5	−0·6	25·2	22·0	20·0	23.4	74	−5	1.7	+0·2	9·1	0	3	23	1	2	5	0	5	5	4	4	5	0
	1130	"	1011·4	1008·9	..	30·3	23·0	18·7	22·8	52	..	1·8	..	13·8	0	6	23	4	10	2	0	0	0	9	4	2	0
	1730	"	1008·2	1005·7	..	30·5	22·1	16·7	19·7	48	..	1·7	..	19·7	0	15	16	8	5	0	0	0	2	12	4	0	0
	2330	"	1010·3	1007·7	..	25·0	22·2	20·6	24·7	78	..	0·6	..	11·2	0	4	24	4	2	2	1	0	3	10	6	3	0
Dwarka	0830	11	1011·1	1009·8	−0·8	25·7	23·5	22·3	27·1	82	+3	1·9	0	11·4	0	4	27	9	5	4	0	1	1	4	7	0	0
	1730	"	1009·0	1007·7	..	29·3	24·0	21·0	25·6	63	..	1·3	..	16·8	0	9	22	8	3	1	0	0	1	7	11	0	0
Rajkot	0830	138	1011·2	995·5	−0·1	24·2	20·6	18·0	21·3	71	−2	1·5	−0·2	7·1	0	1	23	1	9	0	1	0	4	7	2	7	0
	1130	"	1011·1	995·7	..	30·8	21·7	15·5	18·5	43	..	1·3	..	10·6	0	3	25	5	14	0	0	0	2	2	5	3	0
	1730	"	1007·6	992·4	..	32·0	20·6	11·9	15·0	33	..	1.6	..	15·5	0	7	23	5	12	0	0	0	1	5	7	1	0
Bhavnagar Aerodrome.	0830	11	1011·1	1009·9	−0·5	25·7	20·9	17·9	20·8	63	+8	1·6	−0·6	13·4	0	8	21	9	2	0	0	0	3	6	8	2	1
	1130	"	1011·1	1009·9	..	31·3	22·5	17·2	20·0	45	..	1·6	..	19·7	0	13	18	4	15	6	2	0	0	1	3	0	0
	1730	"	1007·6	1006·4	..	32·6	22·0	15·0	17·8	37	..	1·6	.	21·5	0	21	10	5	10	5	4	5	1	0	1	0	0
Porbander Aerodrome	0830	7	1011·2	1010·4	..	25·7	22·7	21·0	25·7	76	..	1·5	..	8·3	0	3	24	7	3	4	0	1	2	2	8	4	0
	1130	"	1011·5	1010·7	..	30·7	23·2	18·7	22·4	52	..	1·7	..	15·2	0	6	25	5	3	3	3	1	2	5	9	0	0
	1730	"	1008·5	1007·7	..	29·1	23·6	20·3	24·7	63	..	1·8	..	18·5	0	15	16	2	1	0	0	0	3	21	4	0	0
Porbander	0830	7	1011·1	1010.3	+0.2	25·0	22·2	20·6	24·4	77	−3	2·6	+0·8	7·4	0	1	30	8	8	2	0	0	1	2	10	0	0
	1730	"	1008·6	1007·8	..	29·4	24·2	21·3	25·9	65	..	3·0	..	14·1	0	2	29	2	0	0	0	0	3	17	9	0	0
Keshod	0830	51	1011·5	1005·7	..	24·2	20·6	18·2	21.3	72	..	1·3	..	8·3	0	0	27	3	9	7	0	2	1	1	3	4	1
	1130	"	1011·5	1005·8	..	31·3	21·6	15·2	17.9	43	..	1·4	.	15.0	0	6	25	8	9	3	0	1	1	3	5	0	1
	1730	"	1008·2	1002·5	..	31·3	21·9	15·1	18·5	43	..	1·3	..	19·3	0	16	15	4	4	1	0	0	5	13	3	0	1
Mahuva	0830	9	1010·0	1009·0	..	24·8	21·2	19·1	22·1	71	..	3·4	..	7·3	0	0	27	9	10	0	1	0	1	1	5	4	0
	1730	"	1007·5	1006·6	..	30·6	23·3	19·3	22·7	52	..	4·1	..	9·5	0	2	29	0	2	1	15	2	8	0	3	0	0
Veraval	0230	8	1009·0	1008·1	..	23·4	21·3	19·9	23·5	82	..	1·3	..	11·7	0	4	26	9	6	2	0	0	2	2	9	1	0
	0530	"	1009·0	1008·1	..	22·5	20·3	18·9	22.1	81	..	1·3	..	12·5	0	2	28	12	7	1	0	0	1	1	8	1	0
	0830	"	1011.0	1010·1	−0.6	24·8	21.2	18·7	22·2	72	+6	2·2	+0·4	12·6	0	4	27	9	12	1	1	1	0	1	6	0	0
	1130	"	1011·2	1010·3	..	30.8	22·7	17·2	21·0	51	..	2·1	..	16·2	0	10	21	3	5	3	1	3	4	5	7	0	0
	1730	"	1008·3	1007·4	..	28·7	24·1	21·7	26·3	68	..	2·3	..	21·9	0	16	15	1	0	0	2	2	5	11	10	0	0
	2330	"	1010·3	1009·4	..	25·1	22·5	21·0	25·2	79	..	1·2	..	11·7	0	6	24	6	3	0	0	1	3	5	12	1	0
Konkan																											
Dahanu	0830	5	1010·5	1010·0	−0·1	25·7	22·1	20·0	23·7	72	−7	(a) 5·2	+2·0	(a) 8.5	0	2	28	0	2	8	18	0	1	1	0	0	0
	1730	"	1007·6	1007·1	..	29·0	24·5	22·3	26·9	68	..	4·0	..	17.5	0	9	22	11	1	0	0	0	4	8	7	0	0
Bombay (Santacruz).	0230	15	1008·7	1007·0	..	23·7	22·5	21·9	26·3	90	..	3·0	..	4·8	0	1	16	0	5	6	1	1	1	2	1	14	0
	0530	"	1008·9	1007·2	..	23·5	21·9	21.0	25·0	88	..	3·1	..	6·9	0	1	23	3	8	8	1	0	0	1	3	7	0
	0830	"	1010·7	1009·1	−0·6	26·2	23·0	21·2	25·5	76	−6	3·5	+0·4	7·0	0	1	23	0	5	14	1	3	1	0	0	7	0
	1130	"	1010.7	1009·0	..	30·0	24·3	21·3	25·6	62	..	3·6	..	10·7	0	2	26	2	3	9	0	2	6	2	4	3	0
	1730	"	1007·7	1006·1	..	28·7	24·4	22·1	26·9	68	..	3·3	.	14·1	0	4	27	7	0	0	0	0	3	5	16	0	0
	2330	"	1009·9	1008·2	..	24.8	23·2	22·3	27.1	86	..	2·4	..	4·6	0	0	20	5	4	1	0	2	3	3	2	11	0
Bombay	0830	11	1010·9	1009·7	−0·4	26·3	24·1	23·0	28·3	83	+2	3·5	+0·4	4·6	0	0	27	0	5	13	6	0	0	2	1	4	0
	1130	"	1010·8	1009·6	..	29·8	25·3	23·2	28·6	69	..	3·0	..	4·5	0	0	31	1	3	9	7	3	3	1	4	0	0
	1730	"	1007·9	1006·7	..	28·6	25·4	23.9	29·8	76	..	3·4	..	8·2	0	0	31	2	0	0	0	1	2	5	21	0	0
Alibag	0830	7	1010·5	1009·7	−0·6	25·6	23·2	22·0	26·4	81	+5	3·6	−0·3	4·2	0	0	27	7	5	12	1	1	0	0	1	4	0

(a) Mean of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars. At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature in °C Dry bulb	Wet bulb	Dew Point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas) Mean amount	Departure from normal.	Mean wind speed in Km. per hour.	Wind speed, (Km. p.h.) 62 or more	20 to 61	1 to 19	No. of observations Wind direction N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Konkan—(*Contd.*)																											
Harnai	0830	20	1010·6	1008·3	+0·3	26·4	22·9	21·1	25·0	74	−1	4·7	+0·4	6·6	0	2	20	2	2	5	2	4	1	1	5	9	0
	1730	,,	1007·8	1005·5	..	27·6	24·6	23·2	28·4	77	..	4·2	..	20·8	0	18	13	1	0	1	1	2	5	5	16	0	0
Ratnagiri	0830	35	1010·7	1006·8	−0·2	25·7	23·1	21·6	26·1	80	..	4·5	..	9·0	0	4	26	0	3	12	11	0	0	3	1	1	0
	1730	,,	1007·7	1003·9	..	28·1	24·7	23·0	28·3	74	..	4·0	..	9·8	0	1	29	4	1	1	0	0	2	11	11	1	0
Devgarh	0830	36	1010·5	1006·5	−0·1	25·4	23·6	22·7	27·6	85	+1	5·1	+0·5	9·5	0	4	27	0	7	16	1	1	0	3	3	0	0
	1730	,,	1007·8	1003·8	..	28·5	25·6	24·4	30·4	79	..	4·3	..	16·9	0	11	20	0	0	1	0	0	1	12	17	0	0
Vengurla	0230	9	1009·0	1008·0	..	23·7	23·1	22·8	27·8	95	..	3·6	..	0·9	0	0	3	2	0	0	0	0	0	0	1	28	0
	0530	,,	1009·1	1008·1	..	23·3	22·7	22·4	27·1	95	..	3·7	..	2·0	0	0	12	8	1	0	0	0	0	2	1	19	0
	0830	,,	1011·0	1010·0	+0·3	25·3	23·6	22·8	27·8	87	+2	4·8	+0·3	1·2	0	0	9	4	0	3	0	0	0	2	0	22	0
	1130	,,	1011·0	1010·0	..	28·9	25·0	23·1	28·4	72	..	4·2	..	5·9	0	0	29	3	2	1	2	2	13	5	1	2	0
	1730	,,	1008·1	1007·1	..	28·3	25·0	23·5	29·0	76	..	5·0	..	7·1	0	0	28	1	0	0	1	1	5	15	5	3	0
	2330	,,	1010·5	1009·5	..	24·4	23·5	23·1	28·3	92	..	3·8	..	1·7	0	0	9	5	1	0	1	0	1	0	1	22	0
Madhya Maharashtra																											
Nandurbar	0830	206	1010·8	987·6	..	26·2	21·0	17·6	20·6	62	..	2·9	..	6·9	0	0	31	2	8	5	0	0	5	10	1	0	0
	1730	,,	1007·2	984·2	..	29·7	21·8	16·6	19·7	49	..	2·8	..	5·2	0	0	26	2	2	6	1	0	3	10	2	5	0
Jalgaon	0830	201	1011·1	988·1	−0·6	23·5	20·9	19·3	22·7	78	+8	3·7	+1·4	9·9	0	3	27	1	1	11	3	1	1	8	4	1	0
	1730	,,	1007·1	984·7	..	29·0	22·7	18·2	22·4	54	..	3·6	..	10·2	0	0	30	4	6	6	1	0	1	7	5	1	0
Malegaon	0830	437	1011·2	962·0	−0·1	22·5	19·2	17·0	19·5	72	+9	3·1	+0·5	5·0	0	0	22	1	2	1	0	0	2	8	8	9	0
	1730	..	1006·6	958·6	..	29·1	20·7	15·2	17·6	42	..	4·0	..	15·9	0	9	20	9	11	3	1	0	0	2	3	2	0
Deolali (Aerodrome)	0830	571	1012·1	948·1	..	21·5	19·6	18·6	21·4	84	..	3·6	..	5·4	0	0	20	4	2	0	0	2	4	8	0	11	0
	1730	,,	1007·8	945·2	..	26·9	20·7	17·1	19·5	58	..	4·6	..	9·2	0	1	25	1	4	2	0	0	5	10	4	5	0
Ahmadnagar	0830	657	1010·4	937·4	−1·8	21·9	19·0	17·1	19·7	75	+11	3·8	+1·3	2·9	0	0	23	2	7	0	2	0	3	1	8	8	0
	1730	,,	1006·2	934·9	..	27·9	20·4	16·1	18·5	51	..	5·1	..	3·7	0	0	17	0	8	1	1	0	1	0	6	14	0
Poona (Aerodrome)	0230	593	1009·5	943·0	..	20·4	19·4	18·8	21·8	91	..	3·5	..	3·3	0	0	14	0	0	0	0	0	3	11	0	17	0
	0530	,,	1010·0	943·3	..	19·6	18·6	18·9	20·6	91	..	3·7	..	2·4	0	0	11	0	0	1	0	0	0	10	0	20	0
	0830	,,	1011·2	945·1	..	22·4	19·6	18·1	20·8	77	..	3·8	..	4·5	0	0	18	0	1	2	0	0	1	13	1	13	0
	1130	,,	1009·7	944·7	..	27·5	20·7	16·7	19·5	54	..	4·3	..	10·6	0	2	26	1	0	11	0	0	3	13	0	3	0
	1730	,,	1006·3	941·6	..	27·6	20·6	16·7	19·1	54	..	4·9	..	11·4	0	4	23	2	0	5	0	0	2	15	3	4	0
	2330	,,	1010·6	944·3	..	21·5	19·8	18·8	21·8	85	..	3·7	..	5·4	0	0	21	1	1	3	0	1	0	15	0	10	0
Poona	0530	559	1009·7	946·9	..	19·8	18·7	18·1	20·8	90	.	2·7	..	0·6	0	0	3	0	0	0	1	0	2	0	0	28	0
	0830	,,	1011·2	948·8	−0·8	22·6	19·9	18·4	21·3	78	+1	3·2	0	0·6	0	0	3	0	0	0	0	1	0	1	1	28	0
	1130	,,	1009·4	948·1	..	27·9	21·3	17·6	20·5	56	..	3·7	..	3·0	0	0	18	3	5	0	3	0	4	3	0	13	0
	1730	,,	1006·3	945·3	..	28·0	21·5	18·0	20·9	57	..	4·8	..	3·2	0	0	16	1	1	2	0	1	4	3	4	15	0
	2330	,,	1010·3	947·9	.	22·1	19·9	18·7	21·6	82	..	3·2	..	1·6	0	0	8	0	1	1	1	0	2	3	0	23	0
Jeur	0830	521	1010·9	952·7	+0·1	22·9	20·0	18·3	21·3	77	+6	5·1	+1·6	6·4	0	1	28	2	8	3	0	0	1	9	6	2	0
	1730	,,	1005·4	948·6	..	28·9	21·0	16·5	19·0	43	..	5·9	..	10·3	0	3	27	5	5	5	3	1	0	6	5	1	0
Baramati (R)	0830	551	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sholapur	0530	479	1009·5	955·7	..	21·1	19·7	18·8	22·0	87	..	5·4	..	3·4	0	0	18	3	4	1	0	0	3	4	3	13	0
	0830	,,	1011·0	957·4	−0·7	23·6	20·6	19·2	22·1	77	+13	5·1	+2·0	5·8	0	0	28	9	3	1	1	1	4	3	6	3	0
	1130	,,	1009·5	956·9	..	28·1	22·0	18·8	21·8	59	..	4·7	..	10·2	0	0	30	8	5	3	4	2	1	5	2	1	0
	1730	,,	1006·2	953·8	..	28·5	21·6	17·7	20·8	56	..	5·4	..	9·6	0	3	24	11	1	1	2	0	1	5	6	4	0
	2330	,,	1009·9	956·5	..	23·4	20·4	18·8	21·8	77	..	4·4	..	8·6	0	0	28	4	7	5	4	1	1	4	2	3	0
Mira	0830	554	1011·1	949·5	−0·4	22·7	20·2	18·8	21·8	79	+7	4·3	+0·3	..	0	0	12	0	0	1	2	0	0	5	4	19	0
	1730	,,	1006·2	946·0	..	28·3	21·2	17·2	20·0	54	..	4·6	..	..	0	0	14	1	0	2	0	0	0	8	3	17	0
Kolhapur	0530	570	1009·7	946·0	..	20·0	19·1	18·5	21·6	91	..	4·6	..	5·9	0	0	29	1	7	1	0	0	4	15	1	2	0
	0830	,,	1010·9	947·5	−0·4	22·9	20·6	19·4	22·7	81	−2	4·6	+1·3	8·1	0	0	29	1	11	3	0	0	1	10	3	2	0
	1130	,,	1009·6	947·1	...	26·9	21·9	19·0	22·7	63	..	5·3	..	12·3	0	4	26	0	8	7	2	1	1	7	4	1	0
	1730	,,	1008·6	944·3	..	26·5	21·3	18·5	21·6	64	..	5·3	..	12·4	0	6	25	1	2	2	1	0	1	18	6	0	0
	2330	,,	1010·4	946·8	..	21·6	20·1	19·3	22·4	88	..	4·6	..	9·0	0	2	29	0	0	2	1	0	2	23	3	0	0
Marathwada																											
Aurangabad	0830	581	1011·1	946·5	−1·1	23·9	19·2	16·3	18·8	65	+7	3·9	+0·9	6·1	0	1	20	1	3	8	0	0	1	7	1	10	0
	1730	,,	1006·7	943·3	..	27·6	20·3	15·8	18·5	51	..	4·4	..	8·1	0	1	25	6	9	3	0	0	1	6	1	5	0
Aurangabad (Chikalthan)	0230	579	1009·3	944·2	..	19·5	17·5	16·2	18·5	82	..	2·9	..	4·5	0	0	12	1	1	0	1	0	0	9	0	19	0
	0530	,,	1009·7	944·3	..	18·7	17·1	16·0	18·3	85	..	2·9	..	4·6	0	1	9	0	0	1	0	0	0	7	2	21	0
	0830	,,	1010·5	946·2	..	23·9	19·5	16·7	19·3	66	..	3·2	..	6·9	0	1	19	4	1	5	0	0	1	6	3	11	0
	1130	,,	1009·4	945·9	..	27·4	20·4	16·1	18·9	53	..	3·7	..	13·5	0	3	26	4	3	11	2	0	0	5	4	2	0
	1730	,,	1006·3	943·0	..	27·3	19·9	15·2	17·8	51	..	4·8	..	10·5	0	2	22	6	10	1	1	0	1	4	1	7	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variab
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Marathawada – (*Contd.*) Aurangabad	2330	579	1010·3	945·4	..	20·9	18·1	16·2	18·8	75	..	2·6	..	5·5	0	2	11	1	3	2	0	0	0	7	0	18	0
(Chikalthan) – (*Contd.*) Parbhani	0830	423	1010·9	963·4	−0·1	23·5	20·8	18·8	22·4	75	+4·8	4·5	+1·4	9·5	0	2	28	5	8	2	1	1	1	8	4	1	0
	1730	,,	1006·9	960·1	..	26·9	21·2	17·6	20·5	60	..	5·3	..	9·6	0	1	29	4	11	4	3	1	2	3	2	1	0
Nander	0830	358	1010·6	970·3	.	24·1	21·6	20·5	23·8	80	..	3·1	..	4·7 (c)	0	0	18	0 (c)	6	1	2	1	3	3	2	8	0
	1730	,,	1007·1	967·3	.	27·0	22·6	20·1	23·8	68	..	2·9	..	5·2 (c)	0	0	22	0 (c)	8	0	3	0	5	0	6	4	0
Nir	0830	519	1011·8	953·7	..	22·7	20·1	18·5	21·6	78	..	5·2	..	4·1	0	0	27	1	3	1	4	1	4	4	9	4	0
	1730	,,	1007·1	950·2	.	27·1	21·4	18·2	21·3	62	..	5·0	..	4·1	0	0	30	6	12	3	1	3	3	2	0	1	0
Vidarbha Gondia	0830	313	1010·4	975·4	−0·6	24·0	21·1	19·5	23·4	77	+2	4·4	+1·5	5·7	0	1	28	5	11	4	2	3	1	0	3	2	0
	1730	.	1006·9	972·2	.	28·1	22·3	18·8	22·0	59	..	4·7	..	4·8	0	0	28	5	5	1	4	0	5	0	5	3	3
Nagpur (Sonegaon)	0230	310	1008·2	972·9	..	21·0	19·9	19·3	20·9	90	..	3·1	..	4·9	0	0	26	6	2	2	3	1	1	1	10	5	0
	0530	,,	1008·9	973·5	..	20·1	19·3	18·7	21·7	91	..	3·4	..	5·0	0	0	29	6	5	2	2	1	2	1	10	2	0
	0830	,,	1010·6	975·5	[illegible]	23·8	21·0	19·5	22·5	77	[illegible]	4·0	+1·6	7·9	0	0	30	10	7	5	2	1	1	0	4	1	0
	1130	,,	1009·4	973·9	..	28·4	22·5	19·1	22·4	59	..	4·1	..	10·6	0	1	29	2	10	7	5	1	0	1	4	1	0
	1730	,,	1006·6	972·2	..	27·6	22·1	18·9	22·1	61	..	4·1	..	5·2	0	0	26	4	8	4	3	1	3	0	3	5	0
	2330	,,	1009·1	971·5	..	22·1	20·5	19·5	22·8	85	..	2·5	..	4·6	0	0	23	9	2	1	1	1	2	2	5	8	0
Amraoti	0830	370	1010·0	968·4	+1·8	25·7	20·1	17·7	20·2	71	+4·3	3·5	+1·1	7·3	0	3	28	3	15	5	1	1	4	2	0	0	0
	1730	,,	1006·7	964·9	..	28·2	21·1	16·5	18·8	51	..	3·8	..	10·0	0	2	29	3	9	3	6	1	2	0	7	0	0
Akola Aerodrome	0530	309	1008·2	972·9	.	20·6	18·9	17·8	20·5	85	..	4·3	..	4·5	0	3	19	0	3	2	1	2	1	11	2	9	0
	2330	,,	1008·9	973·8	..	22·4	19·7	18·0	21·6	77	..	2·4	..	3·5	0	1	21	1	3	2	3	1	1	11	0	9	0
Akola	0830	282	1010·4	978·5	−1·4	23·6	20·8	19·0	22·2	76	+1·5	3·8	+1·4	2·4	0	0	14	1	1	0	0	0	0	12	0	17	0
	1130	,,	1009·5	977·9	..	28·3	21·8	17·8	20·8	55	..	3·8	..	6·3	0	2	26	2	7	1	0	2	0	13	3	3	0
	1730	,,	1006·2	975·1	..	29·1	21·9	17·4	20·4	53	..	4·5	..	3·5	0	0	25	3	5	1	0	0	3	6	7	6	0
Karanjapati	0830	229	1010·7	981·7	..	24·0	22·0	20·9	24·9	83	..	3·6	..	5·4	0	0	26	5	11	0	3	2	0	2	3	5	0
	1730	,,	1006·9	981·3	..	27·7	22·7	19·9	23·5	61	..	3·4	..	3·8	0	0	26	9	8	0	2	3	2	2	0	5	0
Buldana	0830	650	1010·1	938·0	−0·7	22·2	18·8	16·5	18·8	72	+5	3·5	+0·1	1·8	0	0	18	0	2	0	0	0	0	0	16	13	0
	1730	,,	1006·4	935·4	.	26·3	20·6	17·0	19·4	59	..	3·7	..	2·1	0	0	27	0	4	0	1	0	0	0	22	4	0
Yeotmal	0830	151	1010·4	962·8	2·5	23·7	20·3	18·7	21·0	73	+6	4·9	+1·5	12·0	0	4	27	6	9	2	2	3	1	5	3	0	0
	1730	,,	1006·5	956·7	..	26·9	21·0	17·1	20·0	58	.	4·3	..	8·7	0	2	28	4	9	3	2	5	1	2	2	1	2
Chanda	0830	193	1010·3	988·4	−1·4	24·7	22·4	21·1	25·2	83	+2	4·4	+2·1	5·9	0	0	29	9	7	3	1	2	1	1	4	2	1
	1730	,,	1006·6	985·0	..	27·9	23·5	21·2	25·2	68	.	4·5	..	5·1	0	0	25	4	8	5	2	2	1	1	2	6	0
Pusad	0830	331	1011·0	973·2	..	22·9	20·8	19·6	22·9	82	..	3·8	..	3·7	0	0	27	2	3	1	0	0	4	2	15	4	0
	1730	,,	1006·9	970·0	..	28·3	23·7	21·0	25·5	67	..	3·7	..	3·9	0	0	30	2	8	3	4	0	3	2	8	1	0
Sironcha	0830	123	1010·4	996·4	−0·3	25·0	23·4	22·6	27·4	86	+5	4·6	−0·7	3·7	0	0	26	7	8	2	6	1	0	1	1	5	0
	1730	,,	1006·7	992·9	..	28·4	24·5	22·6	27·4	72	..	5·3	..	4·1	0	0	27	8	6	5	5	1	0	0	2	4	0
Coastal Andhra Pradesh—Kalingapatam	0830	6	1010·1	1009·5	−0·7	26·9	25·2	24·4	30·7	86	..	3·9	+0·5	7·3	0	3	24	5	6	1	0	1	6	3	5	4	0
	1730	,,	1007·4	1006·8	..	27·5	25·0	23·9	29·7	82	..	3·3	..	11·3	0	7	23	0	13	5	2	8	2	0	0	1	0
Vishakhapatnam	0230	2	1007·6	1007·2	..	25·0	23·8	23·2	28·4	90	..	5·2	..	2·3	0	0	7	1	1	0	0	0	2	2	1	24	0
	0530	,,	1008·1	1007·7	..	24·8	23·5	22·9	27·9	90	..	5·1	..	2·3	0	0	10	1	1	1	0	0	3	1	2	21	1
	0830	,,	1010·1	1009·7	−0·8	27·3	24·3	22·9	27·9	78	+1	5·3	+1·0	3·9	0	1	14	2	3	1	0	0	2	3	4	16	0
	1130	,,	1009·3	1008·9	..	29·2	24·9	22·9	27·9	70	..	5·8	..	8·1	0	0	24	1	5	7	2	4	3	2	0	7	0
	1730	.	1007·3	1006·9	..	27·1	24·3	23·0	28·1	78	..	6·5	..	8·2	0	1	22	0	6	9	1	5	1	0	1	8	0
	2330	,,	1009·2	1008·8	..	25·6	21·2	23·5	29·1	88	..	4·2	..	2·4	0	0	13	2	2	0	0	0	1	3	5	18	0
Kakinada	0830	8	1010·1	1009·2	−0·7	27·0	24·9	24·0	29·6	85	+8	5·8	+1·7	9·5	0	0	28	0	12	1	2	0	11	0	2	3	0
	1730	,,	1007·1	1006·2	..	27·5	25·1	24·0	29·8	84	..	5·7	..	10·5	0	0	29	0	18	1	1	0	9	0	0	2	0
Nidadavole	0830	13	1009·9	1008·5	..	25·9	24·6	24·0	30·0	90	..	6·8	..	4·7	0	0	27	0	15	0	2	0	4	5	1	4	0
	1730	,,	1006·5	1005·1	..	27·8	25·2	24·1	29·8	80	..	7·3	..	4·6	0	0	26	0	7	0	7		5	6	1	5	0
Rentachintala	0830	106	1010·3	998·3	..	26·2	23·7	22·5	27·3	81	+7	6·2	.1	2·0	0	0	20	5	3	1	0	0	4	7	0	11	0
	1730	,,	1006·3	994·4	..	29·0	24·2	21·8	26·3	67	..	6·3	..	2·6	0	0	28	9	3	6	0	0	8	1	1	3	0
Gannavaram	0230	24	1007·6	1004·9	..	24·9	24·3	23·9	29·8	94	..	5·0	..	3·8	0	0	20	5	5	2	0	2	3	2	1	11	0
	0530	,,	1008·1	1005·4	..	24·7	24·1	23·8	29·5	95	..	5·5	..	4·3	0	0	23	1	6	1	1	4	3	3	4	8	0
	0830	,,	1010·2	1007·5	+0·2	26·5	24·8	24·0	30·0	86	+6	6·2	+1·8	8·4	0	0	30	5	3	3	2	5	4	4	4	1	0
	1130	,,	1009·4	1006·7	..	28·9	25·2	23·5	28·9	74	..	6·4	..	10·1	0	1	29	2	6	5	1	4	4	3	5	1	0
	1730	,,	1006·9	1004·2	..	27·9	25·0	23·7	29·3	79	..	6·3	..	7·4	0	1	23	3	3	6	3	1	3	4	1	7	0
	2330	,,	1009·3	1006·6	..	25·3	24·5	24·1	30·0	93	..	4·7	..	5·7	0	0	21	2	5	5	2	4	0	3	0	10	0
Nagarjun Konda	0830	..	..	..	..	27·1	23·5	21·7	25·9	73	..	5·8	..	9·6	0	3	23	4	3	3	2	0	4	6	4	5	0
	1730	..	..	..	..	28·9	23·9	21·3	25·6	65	..	5·8	..	11·2	0	3	27	6	4	3	4	1	3	5	4	1	0
Masulipatam	0830	3	1010·0	1009·7	−0·8	26.6	25·0		30·4	87	+7	5·9	+2·1	4·4	0	0	30	1	7	0	2	0	9	6	5	1	0
	1730	,,	1007·1	1006·8	..	27·4	25·2		30·2	83	..	6·2	..	4·7	0	0	30	3	3	4	6	5	1	3	5	1	0
Ongole	0830	12	1009·9	1008·6	..	27·5	24·6		28·6	79	..	5·3	..	3·2	0	0	31	9	9	0	0	1	5	4	2	0	1

(c) Mean of 26 days

(c) Observation for 26 days

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km p.h.): 62 or more	Wind speed (Km p.h.): 39 to 61	Wind speed (Km p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	[illegible]	[illegible]
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Andhra Pradesh—(*Contd.*)																											
Ongole—(*Contd.*)	1730	112	1006·5	1005·2	..	29·5	25·0	22·8	27·9	69	..	6·7	..	3·9	0	0	30	2	8	11	4	1	1	1	2	1	0
Nellore	0530	20	1007·8	1005·6	..	25·1	24·9	23·5	23·9	91	..	5·1	..	1·1	0	0	12	1	0	2	1	0	1	6	1	[illegible]	0
	0830	,,	1010·0	1007·8	−0·5	27·5	24·5	23·1	28·3	77	−2	5·2	−0·2	2·8	0	0	23	0	2	1	3	1	1	9	6	3	0
	1130	,,	1009·1	1006·9	..	30·8	25·2	22·6	27·4	63	..	5·7	..	4·1	0	0	30	1	8	3	0	0	3	10	5	1	0
	1730	,,	1006·7	1004·5	..	29·2	25·4	23·7	29·3	73	..	5·9	..	3·3	0	0	29	1	8	11	3	0	0	2	1	2	0
Telangana	2330	,,	1009·1	1006·9	..	26·5	25·0	24·3	30·4	88	..	4·2	..	1·7	0	0	18	0	3	1	4	1	2	2	2	11	0
Ramagundam	0830	156	1010·0	902·2	−0·6	25·3	22·9	21·7	25·9	81	−6	4·9	+1·1	5·5	0	0	24	8	2	1	2	1	3	1	6	7	0
	1730	,,	1006·2	988·8	..	28·9	23·9	21·3	25·6	65	..	6·1	..	4·7	0	0	27	10	6	0	1	3	2	0	5	1	0
Nizamabad	0830	381	1010·4	967·6	−1·1	24·2	21·7	20·4	23·8	80	−10	1·3	+1·7	0·7	0	0	21	0	1	0	0	1	6	1	2	20	0
	1730	,,	1006·7	964·5	..	27·2	24·1	22·5	27·6	77	..	4·9	..	1·0	0	0	16	1	5	1	0	2	3	1	3	15	0
Hanamkonda	0830	269	1010·2	919·9	−1·2	24·7	22·8	21·8	26·3	84	+11	4·8	−1·5	2·1	0	0	28	16	2	1	0	7	2	2	4	3	0
	1730	,,	1006·9	977·3	.	27·5	23·6	21·6	25·9	72	..	4·5	..	2·2	0	0	26	12	2	2	0	3	2	3	2	5	0
Hakimpet Aerodrome)	0530	613	1008·8	940·5	..	20·9	19·8	19·2	22·4	91	..	5·8	.	5·7	0	2	27	2	.	3	0	0	1	5	5	12	0
	0830	,,	1009·8	942·0	..	23·0	20·9	19·5	22·8	84	..	5·4	.	9·5	0	3	26	5	5	4	2	1	2	6	5	1	0
	1130	,,	1008·7	941·8	..	26·2	21·7	19·4	22·7	67	..	5·0	..	12·6	0	4	27	7	5	4	4	0	1	7	3	0	0
	1730	,,	1006·8	939·7	..	25·3	21·2	19·1	22·1	69	..	5·8	..	9·3	0	1	28	8	5	5	1	1	2	5	2	2	0
Bhadrachalam	0830	111	1010·3	997·7	−0·2	25·7	24·0	23·1	28·6	86	3	6·6	+1·6	3·7	1	0	31	3	7	3	0	0	2	5	2	0	0
	1730	,,	1005·1	993·9	..	23·0	25·0	23·4	28·9	77	..	6·5	..	3·0	0	0	31	4	7	3	1	6	3	2	1	0	0
Hyderabad (Begumpet)	0230	545	1008·3	947·5	..	21·4	20·3	19·7	22·9	91	..	5·2	..	4·7	0	3	13	2	1	1	3	0	2	3	4	15	0
	0530	,,	1008·9	947·9	..	20·7	19·9	19·5	22·7	93	..	4·8	..	6·0	0	2	17	4	2	1	1	0	3	5	5	12	0
	0830	,,	1010·4	949·9	−0·5	23·4	21·0	19·8	22·9	81	+10	5·2	1·8	8·2	0	2	24	3	3	5	1	0	2	5	7	5	0
	1130	,,	1009·1	949·3	..	26·5	21·8	19·4	22·1	67		5·9	..	11·6	0	2	28	2	5	6	4	0	2	5	5	2	0
	1730	,,	1006·6	946·8	..	25·9	21·5	19·4	22·1	62	..	5·9	..	10·0	0	1	28	5	6	5	2	0	1	1	3	2	0
	2330	,,	1009·3	949·1	..	22·0	20·6	19·3	23·1	88	..	5·2	..	3·5	0	1	15	2	1	3	3	2	2	2	1	[illegible]	0
Khammam	0830	112	1010·2	997·4	..	25·9	23·9	23·1	28·1	83	..	6·2	..	3·9	0	0	23	4	1	4	1	3	3	2	5	3	0
	1730	,,	1006·3	994·4	..	28·4	24·5	22·6	27·3	72	..	6·8	..	4·3	0	0	23	5	3	2	1	3	3	3	5	3	0
Mahbubnagar	0830	595	1010·1	953·9	..	24·0	21·3	20·0	23·2	79	..	4·8	..	8·9	0	1	27	1	3	5	1	1	2	5	5	3	0
	1730	,,	1006·3	950·6	..	26·4	22·2	20·2	23·4	71	.	6·2	..	3·9	0	0	29	6	3	5	0	1	2	3	1	3	0
Rayalaseema. Kurnool	0830	281	1010·9	979·3	0	25·3	22·2	20·5	24·1	75	+3	4·8	+1·1	4·9	0	1	15	0	0	0	0	0	2	12	2	15	0
	1730	,,	1006·4	975·3	..	29·7	22·7	18·8	21·8	54	..	5·0	..	6·7	0	0	31	4	0	0	0	0	0	15	7	7	0
Anantapur	0530	350	1008·6	969·3	..	23·3	21·2	20·0	23·5	82	.	4·9	..	5·4	0	2	14	0	1	3	1	0	1	10	0	15	0
	0830	,,	1010·4	971·2	+0·1	25·1	21·9	19·9	23·5	75	−2	5·1	+1·6	9·3	0	2	24	0	2	7	1	0	1	10	5	5	0
	1130	,,	1009·0	970·4	..	29·2	22·4	18·8	21·6	55	.	5·5	..	9·7	0	3	19	0	5	3	2	1	0	7	6	7	0
	1730	,,	1005·3	967·0	..	30·3	22·0	17·0	19·7	48	.	6·2	..	12·1	0	6	22	1	7	4	2	1	2	6	5	5	0
	2330	,,	1009·4	970·2	..	25·4	21·6	19·4	22·7	71	..	4·9	..	2·9	0	9	21	0	1	14	1	3	1	10	0	1	0
Cuddapah	0830	139	1010·6	995·9	−0·4	27·1	23·6	21·9	26·3	74	+1	4·5	+0·3	0·6	0	0	3	0	0	0	0	0	0	3	0	28	0
	1730	,,	1006·6	991·9	..	29·7	24·6	22·1	26·6	65	..	5·0	..	3·1	0	0	30	0	2	5	1	0	0	3	9	11	0
Arogyavaram	0830	701	1010·6	933·3	..	22·9	20·6	19·6	22·8	82	.	4·9	..	5·2	0	0	27	7	0	2	1	5	2	7	3	1	0
	1730	,,	1006·2	930·1	..	25·5	21·4	18·7	21·6	64	.	6·6	..	9·7	0	2	29	7	4	4	1	1	3	4	7	6	0
Madras state Madras	0830	6	1010·3	1009·6	..	27·2	25·0	24·0	29·2	82	..	4·4	..	5·6	0	0	26	1	0	1	0	0	9	15	0	5	0
Madras (Minambakkam)	0230	16	1008·0	1006·2	..	25·3	24·3	23·8	29·7	91	..	4·1	..	6·0	0	1	20	0	0	1	0	6	7	4	3	10	0
	0530	,,	1008·4	1006·6	..	24·9	24·0	23·6	28·9	92	..	4·1	.	6·1	0	1	23	2	0	2	0	2	6	11	1	7	0
	0830	,,	1010·3	1008·6	−0·3	27·4	24·8	23·7	29·1	81	−1	4·9	−0·3	7·9	0	0	31	4	0	0	0	5	9	8	5	0	0
	1130	,,	1009·6	1007·9	..	30·3	25·2	22·9	27·9	65	..	5·3	..	10·6	0	1	29	4	3	2	2	3	6	8	2	1	0
	1730	,,	1007·0	1005·3	..	28·2	25·2	23·8	29·7	77	..	5·0	..	11·3	0	1	28	1	3	12	8	4	0	1	0	2	0
	2330	,,	1009·6	1007·8	..	26·1	24·7	24·1	30·0	89	..	3·7	..	7·5	0	1	29	2	2	1	8	9	3	3	2	1	0
Vellore	0530	214	1008·7	984·5	..	23·8	22·8	22·4	26·9	92	..	6·0	..	0·4	0	0	5	0	0	0	0	1	1	3	0	26	0
	0830	,,	1010·4	986·3	0	26·1	23·6	22·4	26·9	80	0	5·5	+1·7	1·0	0	0	13	0	0	1	0	0	2	9	1	18	0
	1130	,,	1009·3	985·5	..	30·0	25·0	22·6	27·4	65	..	5·7	..	3·4	0	0	25	3	4	1	0	5	2	10	0	6	0
	1730	,,	1006·3	982·4	..	28·3	24·4	22·5	27·3	72	..	6·0	..	2·0	0	0	16	0	2	4	5	3	0	2	0	15	0
	2330	,,	1009·9	985·8	..	25·5	24·0	23·3	28·6	88	..	5·9	..	0·9	0	0	7	0	1	1	1	2	0	2	0	24	0
Tambaram (Aerodrome)	0830	29	1010·1	1006·9	..	27·9	25·3	24·1	30·0	80	..	4·6	..	10·5	0	1	30	2	1	1	0	0	6	12	9	0	0
	1730	,,	1006·7	1003·5	..	29·0	25·6	24·0	30·0	76	..	5·7	..	18·5	0	13	18	1	2	6	16	4	0	1	1	0	0
Tiruppattur	0830	390	1010·3	966·7	..	24·4	22·5	21·5	25·6	84	..	5·6	..	3·3	0	0	26	10	3	6	0	2	0	4	1	5	0
	1730	,,	1006·3	963·2	..	27·2	23·3	21·3	25·3	71	..	7·0	..	6·6	0	0	29	11	3	5	1	7	0	1	1	2	0
Cuddalore	0530	12	1008·0	1006·7	..	24·7	23·9	23·5	28·9	93	..	5·3	..	2·9	0	0	18	0	0	0	2	6	7	1	2	13	0

Division and station	Hours of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height 1·5 km. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Okas): Mean amount	Cloud amount (Okas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	N	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*Contd.* (Cuddalore—*Contd.*)	0330	12	1010·4	1009·1	−0·2	27·4	24·7	23·5	28·9	80	−1	6·2	+1·6	5·5	0	0	26	1	0	0	0	5	12	6	2	5	0
	1130	"	1009·5	1008·2	.	30·4	25·5	23·2	28·6	66	..	6·0	.	9·5	0	0	30	2	2	1	9	1	11	3	1	1	0
	1730	"	1008·9	1008·6	..	28·5	25·3	23·9	29·7	77	..	5·1	..	7·2	0	0	29	0	4	5	19	1	0	0	0	2	0
	2330	"	1009·5	1008·2	..	26·2	24·7	24·4	30·0	88	..	4·8	..	4·3	0	0	20	0	2	0	11	4	2	0	1	11	0
Kanakurichchi	0330	127	1010·2	995·9	..	27·4	24·5	22·6	27·9	77	..	3·7	.	3·2	0	0	14	2	0	1	1	5	4	0	1	17	0
	1730	"	1006·4	992·0		30·4	25·9	22·6	27·6	66	.	4·9	..	5·3	0	0	29	2	9	5	3	0	7	0	3	2	0
Salem	0530	278	1009·4	977·6	..	23·4	21·7	21·2	25·3	84	..	6·5	..	0·8	0	0	7	0	3	1	0	1	0	2	0	24	0
	0830	"	1010·3	979·5	−0·3	25·5	22·6	21·0	25·0	77	−1	5·9	+1·3	2·0	0	0	15	1	3	1	0	2	3	5	0	16	0
	1130	"	1009·3	978·5	..	29·3	23·5	20·5	24·4	69	..	6·1	..	3·7	0	0	24	1	2	3	0	2	3	9	4	7	0
	1730	"	1006·1	975·4	.	29·9	23·4	20·5	24·5	62	..	6·4	.	2·6	0	0	22	0	3	11	0	1	3	4	0	9	0
	2330	"	1009·1	978·9	..	25·9	22·5	21·1	25·3	80	..	5·3	..	3·0	0	0	17	0	7	5	0	1	3	1	0	14	0
Coimbatore (Pillaiyarpatti)	0530	399	1009·5	961·6	.	21·9	21·1	21·1	25·0	95	..	5·8	..	8·5	0	2	23	1	3	1	0	4	12	3	0	6	1
	0830	"	1011·0	966·1	.	24·5	22·4	21·3	25·3	82	..	5·4	..	12·6	0	5	26	2	3	2	3	7	10	3	0	0	1
	1130	"	1009·6	965·7	..	28·7	23·7	21·1	25·2	61	..	4·8	..	17·1	0	13	17	2	4	4	1	5	9	2	0	1	7
	1730	"	1010·5	962·8	.	27·1	23·3	21·5	25·5	71	..	5·5	..	20·3	0	14	17	0	3	7	2	3	15	3	2	0	0
	2330	"	1010·6	963·8	..	23·9	22·0	21·5	25·6	91	..	5·1	..	15·9	0	12	19	1	1	4	2	4	16	1	1	0	1
Erode	0330	199	1011·1	965·4	0	24·5	21·8	20·2	23·8	77	−1	6·5	+2·2	19·6	0	17	14	0	3	3	4	12	9	0	0	0	0
	1730	"	1006·9	961·8	..	[illegible]	22·7	20·2	23·7	65	..	6·4	..	16·1	0	10	21	0	4	4	1	8	11	3	0	0	0
Vedaranniyam	0330	9	1010·3	1009·7	+0·1	27·7	24·7	23·3	28·6	78	−1	4·7	−0·3	6·5	0	0	31	2	1	0	2	1	7	12	6	0	0
	1730	"	1007·4	1006·0	..	29·0	25·5	24·0	29·7	75	..	5·0	..	14·5	0	7	23	0	2	10	12	4	2	0	0	1	0
Tiruchirapalli	0230	88	1008·5	993·5	..	23·7	23·0	22·1	26·6	86	..	4·3	..	6·8	0	1	17	2	0	1	1	0	0	13	1	13	0
	0530	"	1008·9	993·8		24·1	22·7	21·9	26·4	83	..	4·9	..	7·5	0	2	19	0	1	0	1	1	0	14	4	10	0
	0830	"	1010·3	1000·8	−0·2	26·5	25·5	22·0	26·4	77	−2	4·2	−0·3	14·1	0	9	18	0	1	1	0	1	0	17	7	4	0
	1130	"	1009·2	1000·0	..	29·9	24·2	21·4	25·6	61	.	4·1	..	15·2	0	11	18	1	3	2	0	0	2	13	8	2	0
	1730	"	1006·7	996·9	..	29·5	24·5	21·7	26·1	65	.	5·3	..	11·7	0	4	25	1	1	11	3	6	4	0	3	2	0
	2330	"	1010·1	1000·1	..	25·2	23·1	22·5	27·5	86	..	4·8	..	7·5	0	2	22	0	1	6	3	3	3	6	1	7	1
Vedaranniyam	0330	4	1011·0	1010·5	.	28·2	24·8	23·3	28·4	75	..	5·0	..	5·6	0	0	29	4	1	0	2	7	1	1	4	2	0
	1730	"	1007·6	1007·1	..	28·8	25·2	25·5	29·1	73	..	4·7	..	7·8	0	1	27	2	1	1	8	11	4	0	1	3	0
Alampattinam	0330	6	1010·7	1009·9	..	27·8	24·7	25·2	28·6	77	..	5·2	..	5·9	0	0	28	6	1	1	1	3	2	7	7	3	0
	1730	"	1007·4	1006·4	..	29·3	25·6	24·0	29·7	73	..	5·1	..	17·2	0	13	18	0	3	1	11	13	2	0	1	0	0
Madurai	0530	137	1010·4	995·4	−0·5	27·5	23·5	21·7	25·8	72	−2	5·7	+0·6	3·8	0	0	26	4	3	2	0	0	1	1	15	5	0
	1730	"	1006·5	994·7	..	30·2	24·0	20·9	24·7	60	..	6·1	..	6·4	0	0	30	1	12	2	5	1	6	0	3	1	0
Madurai Aerodrome	0530	131	1008·7	995·7	..	24·4	22·4	21·4	25·5	84	..	4·5	..	2·7	0	0	14	8	2	1	0	0	0	3	0	17	
	0830	"	1010·4	995·6	..	27·6	23·3	21·3	25·6	72	..	4·8	..	6·0	0	1	23	12	4	1	0	1	3	3	0	7	0
	1130	"	1009·6	995·0	..	30·8	24·2	20·9	24·7	57	..	5·1	.	7·1	0	1	22	6	6	3	0	1	3	4	0	8	0
	1730	"	1006·5	994·9	..	29·6	23·9	21·0	25·0	62	..	6·0	..	15·1	0	11	20	4	1	8	3	9	2	4	0	0	0
Tondi	0830	5	1010·3	1009·7	..	27·6	24·6	23·2	28·4	78	..	5·3	..	0·8	0	0	4	1	1	0	0	0	0	1	1	27	0
	1730	"	1007·2	1006·6	..	28·9	25·5	24·0	29·8	75	..	6·0	..	23·8	0	16	13	0	1	4	13	10	1	0	0	2	0
Pamban	0830	11	1010·5	1009·2	−0·1	28·0	25·7	24·6	31·1	82	+2	3·8	+0·2	2·8	0	0	20	0	0	1	2	7	8	1	1	11	0
	1730	"	1007·4	1006·1	..	28·6	26·5	25·4	32·2	83	..	4·2	..	4·3	0	1	25	2	0	3	3	16	2	0	0	5	0
Tuticorin	0830	4	1011·0	1010·6	−0·5	28·3	24·3	22·4	27·1	71	+2	4·0	+0·2	8·2	0	1	29	3	5	0	2	0	3	11	6	1	0
	1730	"	1007·4	1007·0	..	29·9	25·5	23·2	28·4	68	..	5·5	..	17·8	0	11	20	0	1	1	6	10	6	6	1	0	0
Palayankottai	0830	51	1010·7	1005·0	+0·4	28·6	23·2	20·5	24·0	62	−7	4·2	−0·2	2·0	0	0	14	3	0	0	0	0	0	10	1	17	0
	1730	"	1007·3	1001·6	..	29·8	23·7	20·6	24·4	60	..	6·2	..	7·3	0	0	27	0	0	4	3	6	0	10	4	4	0
Kanniyakumari	0830	37	1010·9	1006·8	..	27·4	24·0	22·4	27·1	74	..	4·8	..	13·1	0	4	27	1	3	3	1	1	0	19	3	0	0
	1730	"	1008·5	1004·1	..	27·6	24·7	23·5	28·6	79	..	5·5	..	17·0	0	14	17	0	0	1	4	1	3	18	4	0	0
Coastal Mysore																											
Karwar	0830	4	1010·9	1010·3	+0·2	25·2	24·0	23·3	28·8	90	+3	5·9	+0·6	3·2	0	0	17	1	4	7	2	1	0	0	1	14	1
	1730	"	1008·0	1007·5	..	27·7	25·1	23·8	29·7	80	..	5·9	..	10·0	0	4	19	1	0	3	1	0	0	7	11	8	0
Honavar	0830	26	1011·0	1008·1	−0·5	24·9	23·4	22·6	27·6	88	+4	6·1	+1·2	3·7	0	0	27	1	11	15	0	0	0	0	0	4	0
	1730	"	1008·3	1005·3	..	27·8	25·0	23·8	29·3	79	..	6·1	..	7·7	0	0	30	0	1	3	0	4	2	17	3	1	0
Mangalore (Bajpe)	0230	102	1009·1	997·5	..	23·6	23·7	23·0	28·3	96	..	5·9	..	3·6	0	0	16	0	0	9	5	1	1	0	0	15	0
	0530	"	1009·2	997·5	.	23·2	22·8	22·5	27·4	96	..	5·5	..	3·9	0	0	20	0	2	7	8	1	0	0	2	11	0
	0830	"	1011·1	999·6	..	25·3	23·7	23·0	27·9	88	..	5·4	..	7·6	0	0	29	3	7	2	14	2	0	1	0	2	0
	1130	"	1010·6	999·1	..	28·3	24·8	23·2	28·3	74	..	5·6	..	6.3	0	0	24	2	1	2	3	2	2	8	4	7	0
	1730	"	1008·3	996·8	..	27·1	24·4	23·2	28·3	80	..	5·9	..	9·5	0	0	29	0	0	0	1	1	2	8	17	2	0
	2330	"	1010·8	999·2	..	24·2	23·4	23·0	28·1	93	.	5·7	..	4.4	0	0	22	4	1	3	7	4	0	1	2	9	0

Division and station	Hour of observation I.S.	Station elevation in metres	Mean pressure in millibars: At mean sea level of height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Coastal Mysore —(contd.)																											
Mangalore	0830	22	1011·1	1008·7	0	25·9	24·2	23·4	28·9	86	+2	6·2	+1·4	3·1	0	0	31	1	2	22	4	0	0	1	1	0	0
	1730	,	1008·2	1005·7	..	28·1	25·3	24·1	30·0	79	..	6·2	..	3·5	0	0	31	3	0	1	0	2	3	11	8	2	0
Interior Mysore North																											
Bidar	0830	664	1010·5	937·0	..	22·3	20·2	19·1	22·1	82	+12	3·9	+0·9	11·4	0	5	26	1	11	2	2	0	7	3	3	1	0
	1730	,,	1006·8	934·2	..	25·4	29·5	17·8	20·5	65	..	5·1	..	10·9	0	1	30	4	16	0	1	3	4	3	3	0	0
Gulburga	0830	458	1010·6	959·5	−0·7	25·0	20·9	19·1	21·7	73	+7	5·4	+2·8	8·1	0	0	30	4	7	7	1	0	1	8	2	1	0
	1730	,,	1006·0	955·7	..	28·2	21·5	17·9	20·8	57	..	6·8	..	10·9	0	0	29	9	2	7	1	0	0	8	2	2	0
Bijapur	0830	594	1010·9	944·4	−1·1	22·6	20·4	19·1	22·4	82	+14	5·5	+2·6	2·8	0	0	29	3	2	1	1	0	1	9	3	11	0
	1730	,,	1005·4	940·9	..	28·3	21·2	17·2	20·0	55	..	6·5	..	2·6	0	0	27	12	2	1	0	1	1	7	3	1	0
Raichur	0830	400	1010·0	965·8	−0·7	23·8	21·7	20·1	24·1	73	+8	5·4	+2·7	5·0	0	0	24	1	4	1	3	0	5	5	5	7	0
	1730	,,	1006·3	962·3	..	28·9	22·0	18·1	20·8	56	..	6·4	..	5·7	0	0	29	0	11	0	2	1	8	0	6	3	0
Belgaum	0830	753	1011·1	928·1	−0·4	21·5	19·7	18·6	21·6	84	+7	4·7	+0·8	4·5	0	0	27	0	4	7	1	0	2	12	1	4	0
	1730	,,	1006·6	924·8	..	25·0	20·6	18·0	20·6	65	..	5·9	..	6·3	0	0	31	1	1	5	1	1	3	13	3	0	3
Belgaum (Samra)	0530	747	1009·9	926·8	..	19·4	18·5	17·9	20·6	92	..	5·1	..	3·1	0	0	15	1	6	1	1	0	0	7	0	16	3
	0830	,,	1011·1	928·6	..	21·9	19·7	18·5	21·3	82	..	4·6	..	6·7	0	1	26	0	0	4	0	2	1	9	2	4	0
	1130	,,	1009·6	928·3	..	25·7	20·4	17·5	20·6	62	..	5·0	..	9·0	0	4	24	3	5	7	2	1	1	7	2	3	0
	1730	,,	1007·2	925·8	..	24·7	20·2	17·7	20·4	68	..	5·2	..	9·3	0	1	23	3	3	0	0	0	4	11	3	7	0
Gadag	0530	650	1009·7	937·3	..	20·6	20·1	19·9	23·2	95	..	5·1	..	6·5	0	0	21	3	0	0	0	0	4	14	0	10	0
	0830	,,	1011·1	939·0	−0·3	22·3	21·1	20·5	24·1	89	+14	5·3	+1·2	4·8	0	0	23	1	5	1	0	0	4	12	0	8	2
	1130	,,	1009·6	939·0	..	27·1	22·9	20·9	24·9	70	..	5·7	..	8·5	0	1	28	2	9	0	3	0	3	10	2	2	0
	1730	,,	1006·3	935·5	..	26·6	22·7	20·8	24·6	72	..	6·5	..	5·1	0	0	29	4	4	2	0	2	4	13	0	2	0
	2330		1010·4	938·3	..	22·1	21·1	20·5	24·3	91	..	4·8	..	10·3	0	3	25	2	1	3	2	0	3	17	0	3	0
Interior Mysore South																											
Bellary	0830	449	1010·6	960·5	−0·5	24·9	22·2	20·7	24·4	78	+9	5·6	−1·5	10·0	0	0	29	0	0	0	0	0	2	2	25	2	0
	1730	,,	1005·4	956·5	..	29·3	23·5	20·3	24·1	57	..	6·8	..	11·0	0	0	31	0	0	0	0	0	2	2	27	0	0
Chitradurga	0830	733	1010·8	929·9	−0·4	21·7	20·0	19·0	22·1	85	10	5·2	0·6	5·6	0	0	26	0	0	6	0	1	8	10	1	5	0
	1730	,,	1006·2	926·6	..	25·8	20·8	18·0	20·9	65	..	6·5	..	4·0	0	0	22	0	0	4	0	0	4	11	3	0	0
Shimoga	0830	571	1010·7	917·2	0	23·1	21·1	20·1	23·4	83	−3	6·9	+0·9	3·2	0	0	23	2	3	3	2	2	8	2	1	8	0
	1730	,,	1006·5	913·9	..	26·1	21·9	19·8	23·2	76	..	7·2	..	4·5	0	0	24	4	2	1	0	1	7	7	2	7	0
Agumbe	0830																										
Balehonnur	0830		..	..	..	19·2	18·7	18·4	21·3	96	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan	0830	960	1508·7	906·1	..	20·7	19·5	18·9	21·8	88	+9	5·9	+1·0	2·6	0	0	27	1	1	3	1	2	3	15	1	4	0
	1730	,,	1488·3	903·3	..	23·7	20·3	18·5	21·3	75	..	6·5	..	3·2	0	0	25	0	1	1	2	1	5	14	1	6	0
Bangalore	0230	921	1409·2	908·4	..	19·8	19·3	19·0	22·1	95	..	5·4	..	7·0	0	0	25	0	0	4	2	1	11	6	1	6	0
	0830	,,	1510·2	910·3	−0·2	21·1	19·6	18·8	21·8	87	+6	6·2	+0·9	7·2	0	0	26	1	1	4	0	1	6	12	1	5	0
	1130	,,	1513·5	909·8	..	24·8	20·6	18·4	21·1	65	..	6·8	..	9·9	1	2	28	1	6	2	1	0	8	5	7	1	0
	1730	,,	1488·3	907·3	..	24·3	20·4	18·3	21·0	70	..	6·8	..	6·8	0	0	29	0	5	5	4	0	5	7	3	2	0
Bangalore Aerodrome	0530	897	1489·8	911·0	..	19·5	19·2	19·1	22·1	97	..	5·6	..	5·2	0	0	22	1	0	2	1	1	1	15	1	9	0
	0830	,,	1509·9	912·7	..	21·6	20·0	19·2	22·2	87	..	6·0	..	6·4	0	1	22	1	0	3	1	1	1	14	1	9	0
	1130	,,	1513·3	912·2	..	25·4	21·3	19·1	22·4	69	..	6·5	..	10·3	0	3	23	1	3	3	3	1	3	12	0	5	0
	1730	,,	1487·5	909·8	..	24·4	21·3	19·7	22·9	76	..	6·0	..	6·6	0	1	23	3	0	3	4	2	4	6	1	7	1
	2330	,,	1504·7	912·3	..	20·9	20·0	19·5	22·7	92	..	5·4	..	6·7	0	0	25	1	0	7	1	2	1	12	1	6	0
Mysore	0830	767	1011·6	926·6	−0·3	22·7	20·4	19·4	22·4	82	+1	6·0	+0·6	6·5	0	0	30	2	1	2	0	2	4	17	2	1	0
	1730	,,	1006·0	923·3	..	27·3	21·1	17·7	20·5	57	..	6·5	..	8·5	0	0	31	1	4	3	0	3	4	16	0	0	0
Kerala																											
Calicut	0530	5	1009·7	1009·1	..	24·0	23·2	22·8	27·6	93	..	5·3	..	6·9	0	0	29	2	6	18	2	0	0	0	1	2	0
	0830	,,	1011·6	1011·0	+0·3	26·5	24·3	23·2	28·6	83	−3	4·4	−0·8	5·3	0	0	29	2	8	14	0	1	1	1	2	2	0
	1130	,,	1011·3	1010·8	..	28.7	25·1	23·4	28·9	74	..	4·7	..	10·6	0	1	30	9	0	9	0	3	9	12	7	0	0
	1730	,,	1008·8	1008·2	..	28·0	24·8	23·4	28·6	77	..	5·6	..	11·6	0	5	24	2	1	1	0	0	3	14	8	2	0
	2330	,,	1011·3	1010·8	..	25·3	24·0	23·5	28·8	90	..	5·3	..	6·0	0	0	26	1	7	13	1	1	0	0	3	5	0
Palghat	0830	97	1011·5	1000·4	..	25·6	23·8	22·9	27·9	85	..	5·3	..	7·9	0	0	25	0	0	6	0	0	3	15	1	6	0
	1730	,,	1007·9	996·8	..	27·2	24·1	22·6	27·6	77	..	5·8	..	10·2	0	0	31	0	0	2	0	0	3	22	4	0	0
Fort Cochin	0830	3	1011·3	1011·0	−0·4	26·3	24·3	23·4	28·6	84	+2	6·3	+1·5	4·4	0	0	30	3	14	9	2	0	0	1	1	1	0
	1730	,,	1008·4	1008·1	..	27·8	24·8	23·4	28·8	77	..	6·7	..	8·6	0	0	31	1	0	0	1	0	4	14	11	0	0
Cochin (Naval Air Station).	0230	3	1010·9	1009·7	..	24·7	23·8	23·3	28·6	92	..	6·3	..	1·9	0	0	12	1	3	5	2	0	0	1	0	19	0
	0530	,,	1009·8	1009·5	..	24·2	23·4	23·0	28·1	93	..	6·3	..	2·4	0	0	15	0	5	8	1	0	0	1	0	16	0
	0830	,,	1011·6	1011·3	..	26·6	24·2	23·0	28·1	81	..	5·6	..	2·7	0	0	17	1	5		1	0	0	0	1	14	0
	1130	,,	1011·4	1011·1	..	29·0	24·9	23·1	28·1	71	..	5·9	..	10·0	0	0	30	2	1	0	2	1	7	8	9	1	0
	1730	,,	1008·8	1008·5	..	28·2	24·7	23·0	28·3	74	..	6·7	..	12·2	0	0	30	0	0	1	0	0	6	16	7	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, Kms. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Kerala—(*Contd.*)																											
Cochin (Naval Air-Station)—(*contd.*)	2330	3	1011·7	1011·4	..	25·3	24·0	23·4	23·8	90	..	6·5	..	2·6	0	0	25	0	4	3	1	1	0	3	3	16	0
Alleppy	0830	4	1011·3	1010·9	−0·2	27·3	25·1	24·2	30·2	85	0	5·5	−0·6	7·2	0	1	26	0	11	3	6	0	1	3	3	4	0
	1730	,,	1008·4	1008·0	..	28·5	25·5	24·2	30·0	78	..	5·9	..	18·0	0	14	17	1	0	0	0	0	2	7	21	0	0
Punalur	0830	31	1011·4	1007·3	..	25·1	23·5	23·0	23·1	88	..	6·0	..	1·1	0	0	8	0	2	3	3	0	0	0	0	23	0
	1730	,,	1008·1	1004·3	..	27·6	23·4	22·9	27·9	77	..	7·0	..	3·7	0	0	28	3	2	2	2	5	6	4	4	3	0
Trivandrum	0230	64	1009·4	1002·1	..	24·1	23·4	23·0	23·3	93	..	1·2	..	4·9	0	0	27	14	3	1	0	0	0	0	9	4	0
	0530	,,	1009·5	1002·1	..	23·8	23·0	22·6	27·1	91	..	1·1	..	6·0	0	0	29	16	2	3	0	0	0	1	7	2	0
	0830	,,	1011·5	1004·1	−0·1	26·2	24·0	23·0	23·1	83	−2	1·5	−1·2	5·6	0	0	28	12	1	1	0	0	0	0	11	3	0
	1130	,,	1010·8	1003·5	..	29·3	24·7	22·6	27·4	68	..	5·1	..	8·6	0	0	30	3	1	0	0	2	2	10	12	1	0
	1730	,,	1006·7	1001·4	..	27·2	24·1	23·0	23·3	74	.	5·6	..	9·1	0	1	30	3	1	0	1	3	2	7	14	0	0
	2330	,,	1011·3	1004·0	..	24·6	23·7	23·3	23·6	92	..	1·6	..	7·3	0	0	30	11	5	3	0	0	0	1	10	1	0
Trivandrum (Aerodrome)	0830	8	1011·4	1010·5	..	27·1	24·2	22·9	27·9	76	..	1·7	..	6·0	0	0	27	15	4	0	0	0	0	0	8	4	0
Arabian sea Island	0830																										
Amini*	1730																										
Minicoy*	0530																										
	0830																										
	1130																										
	1730																										
Hill Stations excluding Kashmir	2330																										
Dalhousie	0830	1909	1456·7	801·1	+0·6	11·3	9·0	4·0	8·1	52	−12	1·1	0	3·6	0	0	21	3	5	5	2	2	2	0	2	10	0
	1730	..	1437·1	800·0	..	17·2	13·1	11·2	12·8	66	..	2·2	..	2·6	0	0	27	0	3	2	11	1	8	0	2	4	0
Dharmsala	0830	1211	..	..	..	19·1	13·1	9·5	11·9	58	+9	1·5	+0·3	1·1	0	0	14	6	4	0	0	0	0	1	3	17	0
	1730	..	..	..	..	21·7	16·4	12·5	14·8	56	..	2·4	..	2·5	0	0	30	0	0	0	0	0	29	0	1	1	0
Simla	0830	2202	1433·8	731·9	−1·9	15·2	10·2	6·7	9·9	65	+19	1·6	0·1	2·7	0	0	28	2	4	1	9	6	2	0	4	3	0
	1730	..	1404·4	732·4	..	15·9	12·2	10·9	13·2	82	..	2·6	..	3·0	0	0	30	2	3	0	11	3	7	0	4	1	0
Lokoji	0830	.	..	..	..	+0·5	−1·6	−1·9	5·2	87	..	..	..	..	..	.	..	..		..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..				(Closed	during	winter	months																
Joshimath	0830	..	..	..	..	11·2	10·6	7·3	10·1	65	..	2·1	..	7·6	0	1	27	1	7	16	2	1	0	0	1	3	0
	1730	..	..	..	..	15·6	11·6	8·5	11·1	61	..	3·7	..	4·4	0	0	30	0	1	1	4	11	8	5	0	1	0
Mussoorie	0830	2042	1497·9	797·9	−1·7	15·1	10·6	7·1	9·9	62	−2	1·8	+0·2	1·5	0	0	12	3	2	0	2	3	1	0	1	19	0
	1730	,,	1485·2	796·4	..	11·7	12·7	11·2	13·1	81	..	3·7	..	2·8	0	0	28	4	3	0	7	11	3	0	0	3	0
Mukteshwar	0830	2311	3149·8	774·3	−0·5	12·7	9·8	7·1	10·6	72	+15	3·1	+1·7	8·2	0	1	26	0	8	11	2	0	2	2	2	4	0
	1730	,,	3134·0	772·8	..	13·0	10·9	9·1	11·1	79	..	3·3	..	10·4	0	2	29	0	3	4	1	3	8	9	3	0	0
Nainital	0830	1953	1501·5	806·3	−0·1	11·9	11·2	8·5	10·7	66	+7	3·1	+1·2	3·7	0	0	21	0	3	7	7	0	0	2	2	10	0
	1730	,,	1480·2	804·2	..	13·6	11·4	9·3	11·8	76	..	3·0	..	5·3	0	3	28	3	0	1	2	7	5	13	0	0	0
Kalimpong	0830	1209	1486·1	877·8	−3·9	21·6	19·8	18·9	21·8	84	+5	1·5	−1·5	3·1	0	0	31	3	1	1	2	0	0	0	24	0	0
	1730	,,	1463·2	875·5	..	21·7	20·1	19·4	22·5	87	..	2·1	..	3·1	0	0	31	0	1	1	27	0	0	0	2	0	0
Darjeeling	0830	2128	1486·4	788·9	−2·2	15·0	12·6	10·6	13·1	77	+4	1·3	0	0·5	0	0	1	1	0	0	0	0	0	0	0	30	0
	1730	,,	1458·7	786·3	..	15·1	13·5	12·2	14·2	85	..	5·5	..	0·4	0	0	3	0	0	0	1	0	1	1	0	28	0
Kohima (R)	0830	1406																									
(R)	1730	,,																									
Shillong	0830	1500	1526·5	852·8	+0·7	20·3	17·1	14·8	16·8	73	+1	6·1	−2·7	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1500·5	850·3	..	19·0	17·5	16·4	18·6	86	..	7·3	..	0·1	0	0	1	0	1	0	0	0	0	0	0	30	0
Cherrapunji	0830	1313	1444·7	863·1	−7·6	20·8	19·5	18·5	21·3	88	+15	4·0	+0·2	2·7	0	0	28	0	12	8	0	1	7	0	0	3	0
	1730	,,	1447·4	863·1	..	20·8	19·4	18·5	21·3	87	..	3·8	..	2·7	0	0	27	0	9	6	2	0	9	1	0	4	0
Abu †	0830	1195	1503·5	881·2	−2·0	19·7	16·2	13·4	15·9	69	+21	1·7	+0·6	0·8	0	0	6	5	1	0	0	0	0	0	0	25	0
	1730	,,	1501·1	880·7	..	22·9	16·4	11·6	13·9	51	..	1·2	..	1·1	0	0	6	4	1	0	0	0	1	0	0	23	0
Aijal	0830	..	..	..	..	21·8	19·8	18·7	21·6	83	..	4·8	..	2·3	0	0	23	0	1	16	2	2	1	0	1	7	0
	1730	..	..	..	..	22·0	20·5	19·6	22·9	87	..	5·9	..	2·7	0	0	27	0	1	5	0	0	3	14	4	4	0
Pachmarhi	0830	1075	1506·3	893·9	−1·6	19·9	17·4	15·7	17·8	78	+18	3·4	+1·2	3·1	0	0	27	3	6	6	1	3	2	2	4	4	0
	1730	,,	1487·6	891·7	..	22·3	18·5	16·2	18·4	70	..	3·7	..	3·1	0	0	26	3	8	3	0	2	0	4	6	5	0

*Data given as addenda in December 1961 issue. †Observatins for 29 days. (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure millibars: At station level	Mean pressure millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —*Contd.*																											
Mahabaleshwar	0830	1332	1510·4	863·1	−0·5	17·8	16·1	14·9	17·0	85	+8	3·8	0	11·3	0	0	31	4	5	12	1	1	6	1	1	0	1
	1730	,,	1490·9	861·0	..	19·5	17·8	16·7	19·1	86	..	4·4	..	10·7	0	0	31	15	2	0	0	1	4	7	2	0	0
Mercara	0830	1152	1507·4	886·2	+0·3	18·8	18·0	17·4	19·8	92	+5	3·5	−1·9	3·1	0	0	29	1	2	2	0	0	0	14	10	2	0
	1730	,,	1491·0	884·2	..	20·1	18·9	18·2	20·8	89	..	5·9	..	7·6	0	0	29	1	4	2	0	0	1	15	6	2	0
Ootacamund	0830	2249	1508·1	779·7	0	13·6	12·3	11·3	13·5	86	+7	3·8	−1·0	3·2	0	0	20	2	1	4	1	1	2	9	6	11	0
	1730	..	1487·6	778·1	..	14·8	13·1	12·2	14·1	83	..	6·0	..	3·3	0	0	18	1	3	3	0	2	4	5	0	13	0
Coonoor	0830	1747	1508·9	827·3	..	18·5	15·6	14·1	15·7	77	+2	5·1	−0·5	3·8	0	0	23	0	0	1	9	10	5	2	1	3	0
Kodaikanal	0830	2343	3152·9	771·6	+0·4	13·6	11·8	10·3	12·7	82	+2	5·0	+0·2	7·5	0	3	18	2	2	0	3	1	9	7	6	10	0
	1130	,,	3160·1	771·5	..	16·4	13·8	12·1	14·1	77	..	6·3	..	6·8	0	3	19	2	1	2	8	0	0	3	6	9	0
	1730	,,	3133·5	769·7	..	13·7	13·0	12·5	14·5	93	..	7·0	..	4·5	0	0	21	0	2	1	5	1	1	4	7	10	0
Nepal																											
Katmandu	0830	1324	1513·6	869·2	..	17·4	15·9	14·9	16·9	85	..	4·3	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	,,	1504·9	868·0	..	23·2	17·6	13·8	16·0	56	..	3·4	..	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	1730	,,	1486·0	866·4	..	19·8	17·0	15·1	17·4	75	..	3·6	..	0·1	0	0	1	0	0	0	0	0	0	1	0	30	0
Sikkim																											
Lachen	0830	..	.	..	..	11·9	8·9	6·4	9·4	67	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	
Hydrometeorological observatories																											
Damodar Catchment																											
Tilaiya	0830	..	..	..	..	24·5	21·2	19·3	22·3	74	..	3·5	..	8·3	0	1	28	2	1	6	8	1	1	5	5	2	0
	1730	..	..	.	.	25·0	21·5	19·1	22·5	69		3·5	..	6·5	0	1	29	6	0	3	5	0	0	5	6	1	0
Hazaribagh	0830	615	1010·4	912·4	..	22·6	20·4	18·7	21·4	79	..	4·0	..	5·8	0	1	24	1	0	8	3	1	4	2	6	6	0
	1730	,,	1007·6	909·4	.	22·6	20·5	19·3	22·0	82	..	3·4	..	3·1	0	0	15	1	0	6	2	0	1	1	4	16	0
Konar	0830	..	..	..	..	..	..	..	..	..	..	4·7	..	15·2	1	6	24	1	2	12	5	6	0	6	5	0	0
	1730	..	..	..	..	..	..	..	..	..	..	4·0	..	15·1	1	6	24	1	1	15	2	1	0	5	6	0	0
Tokaro	0830	242	1010·5	983·4	..	25·5	22·9	21·5	26·2	79	..	4·7		3·9	0	1	22	0	1	5	5	1	3	6	2	8	0
	1730	,,	1008·2	981·0	..	25·2	22·9	21·7	26·4	82	..	5·0		2·3	0	0	12	1	0	2	3	0	0	4	2	19	0
Maithon	0830	..	..	..	..	..	..	..	..	..	..	4·8		7·1	0	0	31	1	7	6	3	2	5	2	5	0	0
	1730	..	..	..		..	.	..	..	..	..	4·6	.	6·5	0	0	31	3	6	3	4	2	5	4	4	0	0
Ramgarh	0830	..	..	..		25·6	21·7	20·3	24·3	83	..	4·6	..	2·6	0	0	26	0	4	6	1	1	8	1	2	5	0
	1730	..	..	..	..	25·5	22·5	21·5	24·8	77	..	4·3	..	1·2	0	0	12	1	7	2	1	0	1	1	0	15	0
Panchet Hills	0830	..	..	..	..	26·4	23·0	21·2	25·5	71	..	6·4	..	6·2	0	0	30	4	3	2	9	0	3	5	4	1	0
	1730	..	..	..		26·7	23·2	21·5	25·3	74	..	6·5	..	3·0	0	0	17	0	1	6	1	2	0	1	3	14	0
Durgapur	0830		..	..	.	26·4	23·5	22·0	26·2	77	..	3·9	..	6·3	0	0	31	9	4	0	8	8	1	0	1	0	0
Mahanadi Catchment	1730		..	.	.	25·9	23·8	22·6	27·3	83	..	3·7	..	7·3	0	1	30	0	11	3	7	4	2	1	3	0	0
Ginabahar	0830	..			..	23·7	21·0	19·3	23·5	78		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1010·7	992·7	..	26·0	23·1	21·6	26·4	77	..	4·2	..	5·0	0	0	28	0	9	5	7	0	0	1	2	3	2
	1130	,,	1009·8	991·9	..	28·3	23·7	21·5	25·3	67	..	4·9	..	3·8	0	0	28	3	9	1	4	2	3	2	4	3	0
	1730	,,	1007·5	989·9	..	27·0	23·3	21·2	26·7	72	..	4·5	..	3·2	0	0	19	0	7	0	3	1	0	1	1	12	1
Bhimakund	0830	..	..	..	..	24·7	22·2	20·9	24·3	80	..	4·5	..	4·8	0	0	25	7	8	0	2	0	6	0	1	6	0
	1730	..	..	..	..	26·0	22·7	21·8	26·1	75	..	4·9	..	2·0	0	0	16	0	5	0	4	0	5	0	2	15	0
Sonepur	0830	..	..	..	..	26·0	24·0	23·2	28·3	84	..	..	..	6·5	0	0	28	3	7	9	5	0	3	1	2	3	0
Khijrawa	0830	..	..	..	..	24·7	22·4	20·9	24·3	80	..	4·0	..	7·2	0	0	29	1	5	2	3	4	3	5	1	2	0
	1730	..	..	..	..	24·8	22·4	21·2	25·0	81	..	5·1	..	8·9	0	0	31	0	2	1	10	0	6	12	0	0	0
Narmada Catchment																											
Bagratawa	0830	..	..	.	..	22·8	20·4	19·0	22·0	79	..	2·3	..	5·2	0	0	19	2	4	0	0	3	7	2	1	12	0
	1730	..	..	..	..	26·7	21·5	18·6	21·4	65	..	2·9	..	2·6	0	0	11	1	3	0	0	1	4	2	0	20	0
Punasa	0830	..	..	..	..	23·9	21·0	19·5	21·8	77	..	..	..	2·5	0	0	14	3	6	0	0	0	1	3	1	17	0
	1730	..	..	..	..	28·0	22·9	20·4	24·0	65	..	..	..	1·1	0	0	6	0	2	0	0	0	1	3	0	25	0
Thikri	0830	..	..	..	..	23·9	21·2	19·7	22·5	78	..	2·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Daroi	0830	..	..	..	..	22·7	18·9	16·1	18·8	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	.	28·9	22·0	17·6	20·8	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	15·4	12·2	9·9	12·2	71	..	1·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·5	12·4	10·1	12·3	71	..	3·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	18·6	16·5	15·1	17·1	80	..	1·3	..	0·9	0	0	5	2	3	0	0	0	0	0	0	26	0
	1130	..	..	..	..	24·9	18·4	14·5	16·4	53	..	1·4	..	2·6	0	0	18	1	6	9	1	1	0	0	0	13	1
	1730	..	..	..	..	25·0	18·3	14·0	16·1	51	..	2·1	..	5·0	0	0	23	1	0	0	11	7	2	2	0	8	0
Gandak Catchment																											
Jomosom	0830	..	..	..	..	12·7	9·7	7·5	10·4	71	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..
	1730	..	..	..	..	12·2	10·2	8·8	11·3	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	21·0	18·1	16·7	19·0	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·5	20·4	19·9	22·1	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in c.p.m. of mean-sea-level isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p. h.): 62 or more	Wind speed (Km. p. h.): 20 to 61	Wind speed (Km. p. h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*Contd.*																											
Gandak Catchment—*Contd.*																											
Timure	0830	..	..	..	..	15·3	11·3	9·8	12·1	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·2	14·2	12·6	14·5	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	.	21·1	18·2	16·4	18·8	75	..	3·2	.	1·8	0	0	15	2	0	0	2	2	7	0	2	16	0
	1130	..	..	..	.	24·5	19·5	17·0	19·5	63	..	3·2	..	3·8	0	0	23	0	0	0	15	7	1	0	0	8	0
	1730	..	..	..	..	21·9	19·7	18·5	21·3	81	..	3·8	..	0·6	0	0	6	0	2	2	1	0	0	0	1	25	0
Gorkha*	0830																										
	1730																										
Nuwakot	0830	..	..	..	..	20·9	19·2	18·3	21·0	85	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	22·5	19·3	17·5	20·0	74	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																											
Dadeldhura (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansari (R)	0830																										
(R)	1730																										
Dadeldhura	0830		..		..	14·5	12·5	11·2	15·2	80	..	3·5	..	..	..	..	..	..	..	..	..	..	..	.	.	..	..
	1730		..		..	14·8	12·9	11·7	13·7	82	..	3·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830		..	..	.	26·3	23·1	21·5	25·6	75	..	..	.	..	..	..	.	..	..	..	..	..	..	..	..	..	.
	1730		..	..	..	25·5	23·6	22·7	27·6	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Baghmati Catchment																											
Katmandu†	0830	1323																									
	1130	,,																									
	1730	,,																									
Kosi Catchment																											
Chautara	0830	.	..	..		17·4	15·8	14·9	16·9	85	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·7	16·2	14·1	16·4	71	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	14·9	12·6	11·4	13·5	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
	1730	..	..	..	..	16·0	13·6	12·5	14·5	80	..	..	..	.	..	..	..	..	..	.	..	..	..	..	.	..	..
Walungchung Gola	0830	..	..	..	.	11·3	6·9	2·9	7·5	54	..	..	..		..	..	.	.	.			..	..	..		.	..
	1730	..	..	..	..	7·8	6·7	5·8	9·2	87	..	..	..	.	..	..	..	..	..	..	..	..	..	.	..	..	..
Taplethok	0830	..	..	..	..	18·2	14·8	12·4	14·4	69	..	..	..	..	..	..	.	.	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	19·2	16·2	14·2	16·2	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..		18·5	15·9	14·3	16·3	77	..	..	..	..	.	..	..	..	..	..		..	..	..	..	..	..
	1730	..	..	..	..	17·1	15·4	14·4	16·4	84	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	.	18·3	14·7	12·2	14·5	69	..	2·9	..	.	..	..	.	1	0	1	1	1	0	0	0	27	0
	1130	..	..	..	..	20·5	16·5	14·0	16·2	66	..	3·6			..	..	..	3	0	2	1	1	2	11	3	8	0
	1730	..	..	..		17·1	14·5	12·3	14·5	74	..	4·2	..	..	..	..	..	1	0	0	0	8	5	5	0	12	0
Okhaldhunga	0830	..	..	..	..	17·7	14·9	13·1	15·1	75	..	3·4	..	2·8	0	0	15	0	0	0	1	7	2	3	2	16	0
	1130	..	..	..	..	20·4	16·7	14·6	16·6	70	..	3·9	..	2·1	0	0	17	3	0	2	0	2	3	6	1	14	0
	1730	..	..	..	..	16·1	14·4	13·3	15·3	85	..	5·4	.	3·0	0	0	15	1	0	1	0	0	2	8	3	16	0
Chainpur	0830	..	..	..	..	20·4	18·1	16·7	19·0	80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	21·3	18·8	17·4	19·9	79	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	20·5	17·6	15·9	18·1	75	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..
	1730	..	..	..	.	21·7	17·5	14·9	16·9	65	.	..	.	..	..	..	.	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1012·1	995·4	..	23·5	20·9	19·5	22·7	79	..	2·5	..	6·6	0	0	31	0	1	6	8	2	10	1	3	0	0
	1130	,,	1010·7	994·2	..	27·8	23·6	21·4	25·6	69	..	3·7	..	5·3	0	0	30	0	0	0	0	1	22	6	1	1	0
	1730	,,	1008·5	991·8	..	24·3	22·5	21·5	25·8	85	.	3·9	..	4·1	0	0	25	1	3	7	10	0	3	1	0	6	0
Tista Catchment																											
Gangtok	0830	1812	1520·7	821·7	..	15·7	13·5	11·9	14·0	80	..	3·1	..	1·1	0	0	9	3	5	1	0	0	0	0	0	22	0
	1130	,,	1507·9	820·9	..	19·7	16·5	14·6	16·7	74	.	4·3	..	3·1	0	0	30	0	3	0	1	2	20	3	1	1	0
	1730	,,	1494·7	819·3	..	16·2	14·7	13·6	15·7	86	..	4·8	..	12·0	0	0	17	1	2	2	5	2	5	0	0	14	0
Gezing	0830	..	..	..	..	19·0	16·2	14·6	16·6	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·7	15·7	14·5	16·5	82	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. *Data not reliable. †Data included under 'Nepal'.

MONTHLY MEANS OF UPPER WINDS

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

Data up to 9·0 km. a. m. s. l. are given under Table IV and data above 9.0 km. a. m. s. l. under Table V.

In Tables IV and V :

n—represents the number of observations ;

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

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

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

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

Surface, 0.15 km. a. g., 0.3, 0.6, 0.9, 1.5, 2.1, 3.0, 3.6, 4.5, 5.4, 6.0, 7.2, 9.0, 10.5, 12.0 14.1, 16.2, 18.0, 21.0, 24.0, 27.0, 30.0, 33.0 and 36.0 km. a. m. s. l. Of these, the levels 1.5, 3.0 5.4, 7.2, 9.0, 12.0, 14.1, 16.2, 18·0, 21·0, 24·0, 27·0 and 30·0 km. a. m. s. l. are considered a the best approximations to the standard pressure levels 850, 700, 500, 400, 300, 200, 150 100, 70, 50 30, 20 and 10 mb. respectively.

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

Station	Lat. N	Long. E	Height of Anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1. Agartala	23°53′	91°15′	17	28th November, 1951	0530	1730	2330	
2. Ahmedabad	23°04′	72°38′	61	19th May, 1928	0530*	1130	1730*	2330
3. Amausi	26°45′	80°53′	133	20th November, 1950	0530	1730	2330	
4. Ambala	30°23′	76°46′	279	1st April, 1941	0530	1730	2330	
5. Anantapur	14°41′	77°37′	365	12th February, 1946	0530	1730	2330	
6. Asansol	23°41′	86°59′	135	29th May, 1942	0530	1730	2330	
7. Baghdogra	26°38′	88°19′	140	7th June, 1953	0530	1730	2330	
8. Bahraich	27°34′	81°36′	134	1st October, 1961	0530	1730		
9. Bhiragarh	23°17′	77°21′	532	26th February, 1943	0530	1730	2330	
10. Bajpe	12°55′	74°53′	104	25th May, 1959	0530	1730	2330	
11. Bamrauli	25°27′	81°44′	103	28th February, 1930	0530*	1130	1730*	2330
12. Bangalore	12°58′	77°35′	936	19th May, 1915	0530	1730	2330	
13. Bareilly	28°22′	79°24′	181	12th January, 1943	0530	1730		
14. Begumpet	17°27′	78°28′	543	1st September, 1929	0530	1730	2330	
15. Bhagalpur	25°14′	86°57′	61	19th May, 1950	0530	1730		
16. Bhubaneshwar	20°15′	85°50′	54	5th December, 1942	0530	1730	2330	
17. Bhuj	23°15′	69°48′	90	14th September, 1937	0530	1730	2330	
18. Bikaner	28°00′	73°18′	229	18th October, 1946	0530	1730	2330	
19. Chikalthana	19°51′	75°24′	583	7th October, 1951	0530	1730	2330	
20. Cochin†	09°56′	76°14′	13	16th March, 1942	0530	1730	2330	
21. Darjeeling	27°03′	88°16′	2115	21st May, 1956	0530	1730		
22. Dehra Dun	30°19′	78°03′	692	1st October, 1958	0530	1730		
23. Dum Dum	22°39′	88°27′	13	14th May, 1921	0530*	1130	1730*	2330
24. Gadag	15°25′	75°38′	650	3rd May, 1943	0530	1730	2330	
25. Gannavaram	16°32′	80°48′	32	8th April, 1942	0530	1730	2330	
26. Gauhati	26°05′	91°43′	55	12th March, 1955	0530*	1130	1730*	2330
27. Gaya	24°45′	84°57′	119	19th March, 1937	0530	1730	2330	
28. Gopalpur	19°16′	84°53′	24	15th February, 1946	0530	1730	2330	
29. Gorakhpur	26°45′	83°22′	83	5th January, 1943	0530	1730		
30. Gwalior	26°14′	78°15′	208	7th May, 1938	0530	1730	2330	
31. Imphal	24°51′	93°58′	805	8th March, 1952	0530	1730	2330	
32. Jabalpur	23°10′	79°57′	402	30th July, 1928	0530	1730	2330	
33. Jagdalpur	19°05′	82°02′	562	25th March, 1948	0530	1730	2330	
34. Jaipur	26°49′	75°48′	403	6th June, 1953	0530	1730	2330	
35. Jamshedpur	22°49′	86°11′	144	23rd July, 1942	0530	1730		
36. Jharsuguda	21°55′	84°05′	240	1st May, 1944	0530	1730	2330	
37. Jodhpur	26°18′	73°01′	229	15th October, 1934	0530*	1130	1730*	2330
38. Madras	13°00′	80°11′	29	8th April, 1926	0530*	1130	1730*	2330
39. Minicoy	08°18′	73°00′	15	14th April, 1941	0530	1730	2330	
40. Mohanbari	27°29′	95°01′	112	1st June, 1948	0530	1730	2330	
41. Nagpur	21°06′	79°03′	316	23rd April, 1943	0530*	1130	1730*	2330
42. New Delhi	28°35′	77°12′	227	20th October, 1936	0530*	1130	1730*	2330
43. Poona	18°32′	73°51′	593	5th January, 1925	0530	1730	2330	
44. Port Blair	11°40′	92°13′	93	29th October, 1945	0530*	1130	1730*	2330
45. Raipur	21°14′	81°39′	308	15th July, 1944	0530	1730	2330	
46. Raxaul	26°59′	84°51′	83	28th October, 1957	0530	1730		
47. Santa Cruz	19°07′	72°51′	27	14th May, 1933	0530*	1130	1730*	2330
48. Tiruchirapalli	10°46′	78°43′	96	22nd June, 1936	0530	1730	2330	
49. Trivandrum	08°29′	76°57′	73	8th December, 1928	0530*	1130	1730*	2330
50. Udaipur	24°35′	73°42′	587	24th June, 1947	0530	1730	2330	
51. Vengurla	15°52′	73°38′	8	22nd November, 1941	0530	1730	2330	
52. Veraval	20°54′	70°22′	17	13th October, 1941	0530		1730	2330
53. Visakhapatnam	17°43′	83°14′	10	24th September, 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological office.

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0·5	112	31	1·3	0·2	028	31	1·4	0·7	121	29	1·6	0·9	020	31	2·5	1·1	035	31	2·4	1·4	010
0·15 a.g. .	29	3·8	1·3	140	29	3·6	0·6	322	30	4·3	1·0	183	29	6·2	3·4	029	30	2·7	1·0	040	31	5·2	3·0	357
0·3 a.m.s.l.	29	4·3	0·8	127	29	3·7	0·5	304	30	4·3	1·2	217	29	5·6	3·1	023	30	2·7	1·1	030	31	4·6	2·6	005
0·6 ,, .	29	4·3	0·7	124	29	3·3	0·5	233	30	3·8	1·2	206	29	4·3	2·4	031	31	3·2	1·5	025	31	3·2	2.0	354
0·9 ,, .	29	4·1	0·6	141	29	3·5	0·7	215	29	3·6	0·8	192	29	4·8	2·1	026	29	3·9	2·1	025	31	3·7	2·1	358
1·5 ,, .	28	4·0	0·3	160	28	4·2	1·6	206	26	3·5	1·3	193	29	5·2	2·4	023	28	5·2	2·6	027	31	4·3	2·8	360
2·1 ,, .	27	4·5	0·7	197	27	3·7	1·2	225	25	3·5	1·5	174	29	5·7	2·2	023	27	5·8	1·8	045	31	5·4	2·4	347
3·0 ,, .	23	5·3	2·5	220	27	4·6	2·0	222	22	4·1	1·3	189	29	5·8	2·4	030	27	6·0	1·8	022	31	6·0	2·2	004
3·6 ,, .	20	5·8	3·7	233	20	4·6	2·2	236	11	4·7	1·7	189	29	5·8	2·2	014	26	6.5	2.0	017	31	7·0	2·9	015
4·5 ,, .	15	4·7	3·8	237	16	5·7	3·3	252	6	3·2	0·9	106	29	7·8	3·0	008	23	7 5	1·1	033	31	7·2	2·3	345
5·4 ,, .	12	5·1	3·4	245	14	6·5	3·8	235	1	2·0	2·0	260	29	8 6	3·5	335	22	9 2	1·9	006	31	8·6	3·4	338
6·0 ,, .	12	4·4	2·9	241	12	7·0	4·8	226					29	8·8	3·5	305	21	8·9	2·7	300	30	8·9	4·0	316
7·2 ,, .	6	6·1	2·2	206	6	8·6	6 5	231					29	9·1	5·5	284	17	7 6	3·8	280	30	8·7	5·3	275
9·0 ,, .	3	6·2	1·6	252	1	16.5	16 5	265					26	9·1	7 6	265	7	9·1	7·1	250	27	10·7	8·4	262

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·4	0·3	001	31	1·7	0·5	058	31	2·5	0·8	014	31	1·4	0·6	076	31	1·0	0·2	044	31	1·2	0·5	342
0·15 a.g. .	31	5·0	1·9	030	28	5·1	0·3	147	30	4·0	0·9	005	28	4·9	1·4	140	31	6·0	1·5	027	31	5·0	2·5	330
0·3 a.m.s.l. .	31	5·3	2·0	030	28	5·2	0·4	137	30	4·3	1·0	038	28	5·1	1·5	136	31	2·8	0·7	057	31	2·5	1·1	340
0·6 ,, .	31	5·2	2·3	025	28	5·5	1·1	126	30	5·2	1·1	048	27	5·4	0·9	153	31	5·9	2·3	353	31	5·6	3·0	330
0·9 ,, .	31	5·4	3·4	024	27	5·2	0·5	070	30	5·3	0·7	012	26	5·6	0·2	240	31	5·9	2·9	337	31	5·9	3·1	327
1·5 , .	31	5·5	3·7	015	26	5·6	1·8	027	27	5·2	1·3	007	28	5·6	0·7	010	31	5·8	2·9	323	31	5·4	3·7	314
2·1 ,, .	31	6·2	3·4	024	24	6·4	2·6	031	26	5·3	1·1	351	28	6·4	1·7	349	30	5·9	2·9	322	31	4·6	3·1	320
3·0 ,, .	31	4·9	2·1	041	24	7·2	3 1	347	25	6·0	1·7	322	25	5·5	3·0	301	28	6·0	3 2	329	31	4·6	1·8	325
3·6 ,, .	11	5·6	3·1	041	18	5·7	3·4	3.8	24	5·9	3·3	296	15	5·8	4·7	288	28	5·2	3·0	323	29	5·4	2·5	319
4·5 ,, .					13	7·5	4·6	275	21	8·0	5·4	293	1	7·0	7·0	290	25	6·8	4·3	309	27	6·7	4·7	303
5·4 ,, .					6	8·7	4·9	287	19	10·4	7·1	289					20	8·5	6·7	281	24	8.9	7·1	292
6·0 ,, .					3	9·2	8·2	276	15	11·0	8·6	290					16	9·9	7.7	264	23	10.9	9·0	284
7·2 ,, .									12	12·3	10·3	278					9	14·8	14·1	256	10	15.6	13·2	269
9·0 ,, .					1	16.0	16·0	280	2	11·3	7·5	288					5	19·7	18.9	245	3	23.2	21·1	243

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·6	0·8	349	31	2·2	0·9	285	31	3·5	1·0	030	31	3·5	0·5	228	31	0·5	0·3	158	31	0·8	0·3	146
0·15 a.g.	31	6·9	5·3	359	30	5·1	2·0	255	31	5·6	1·5	358	29	6·7	0·9	212	29	4·7	0·5	348	30	4·1	0·3	084
0·3 a. m.s.l.	31	3·1	2·1	353													29	4·9	0·5	333	30	4·2	0·3	107
0·6 ,,	31	7·0	4·4	348	30	5·9	2·5	256	31	5·3	1·1	345	29	6·7	0·6	230	27	5·1	1·2	292	30	4·5	0·4	139
0·9 ,,	31	6·6	4·0	339	30	6·7	2·3	285	31	5·1	1·0	334	29	7·2	0·6	320	27	5·3	1·0	338	29	5·0	0·9	196
1·5 ,,	31	5·1	3·3	334	28	5·8	1·5	315	31	5·5	1·8	327	28	5·4	2·0	001	26	5·4	1·0	213	29	5·2	2·6	217
2·1 ,,	30	4·9	2·6	328	27	5·3	2·1	313	31	5·9	2·5	311	27	5·2	2·7	335	23	5·1	2·4	183	29	5·3	3·1	209
3·0 ,,	28	4·5	2·1	322	24	6·2	2·6	311	26	6·0	2·7	293	24	5·0	2·5	314	20	5·3	2·4	178	20	5·7	3·2	197
3·6 ,,	11	4·0	0·7	312	22	5·4	1·7	277	22	5·6	3·0	280	19	5·0	1·6	295	14	4·4	1·9	211	14	5·0	2·3	224
4·5 ,,	2	8·0	6·9	278	19	4·9	0·2	160	16	5·2	1·0	298	11	5·2	1·0	237	11	4·5	2·0	259	13	5·6	1·9	254
5·4 ,,					15	5·1	0·3	072	14	4·2	0·5	178	3	3·8	3·1	098	7	3·5	2·9	334	9	5·2	1·0	286
6·0 ,,					15	4·9	1·3	087	10	4·5	1·8	152	3	4·7	4·1	078	5	3·2	2·6	345	6	5·5	2·3	250
7·2 ,,					9	5·8	3·7	097	7	5·7	2·4	114	2	4·0	3·9	116	4	3·5	3·2	303	3	7·8	5·4	258
9·0 ,,					3	6·0	5·2	110	4	7·3	4·6	115					2	5·0	4·9	291				

Station	ASANSOL				BAGHDOGRA												BAHRAICH							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·1	211	31	1·3	0·9	035	31	1·7	0·5	226	31	1·4	1·0	029	31	0·9	0·7	094	31	0·9	1·5	095
0·15 a.g.	28	5·5	0·5	255	27	2·7	1·5	048	29	3·1	1·4	237	29	2·8	1·2	055	29	5·8	2·2	097	30	4·3	4·0	045
0·3 a.m.s.l.	28	5·6	0·9	227	27	2·8	1·2	070	29	3·2	1·4	244	29	2·8	0·5	045	29	6·0	2·3	106	30	4·4	0·5	088
0·6 ,,	28	5·6	1·3	226	27	3·1	1·5	089	29	3·5	1·3	244	29	3·0	0·2	337	29	6·4	3·2	116	30	4·9	1·0	117
0·9 ,,	28	4·7	1·2	222	26	3·4	1·4	084	29	3·8	1·1	243	29	3·2	0·2	055	27	5·9	2·3	096	30	4·7	1·0	106
1·5 ,,	27	4·8	2·3	214	24	3·6	2·3	092	29	3·9	0·6	182	29	3·6	0·9	096	26	5·7	2·7	092	28	5·1	1·5	123
2·1 ,,	26	5·2	3·1	193	23	3·8	1·7	108	25	3·7	0·6	131	27	4·0	0·7	129	25	6·2	3·7	087	27	5·1	2·4	109
3·0 ,,	23	5·4	2·8	190	20	4·7	1·2	143	21	3·9	0·5	295	24	3·6	0·3	189	25	5·4	3·1	108	27	5·4	2·0	135
3·6 ,,	19	4·4	2·7	170	18	4·8	2·0	236	19	3·5	1·8	273	15	5·4	2·5	246	24	4·8	1·2	140	25	5·1	0·5	272
4·5 ,,	17	5.5	1·5	177	16	7·1	6·0	267	18	7·6	5·7	265	7	7·0	4·7	251	21	7·1	3·4	255	23	6.6	2.9	285
5·4 ,,	8	5.3	2·2	147	15	10·5	9·5	268	14	11·0	9·5	269	5	7·1	4·5	254	18	10·1	7·3	254	20	10·3	8·1	289
6·0 ,,	5	5·7	2·6	143	11	10·2	9·1	262	11	12·7	12·2	275	5	6·8	6·1	244	18	11·4	9·5	272	17	12·5	11·4	276
7·2 ,,	2	3·2	2·3	292	11	12·5	9·5	258	8	16·1	15·3	276	1	8·0	8·0	175	14	14·5	13·4	269	17	17·9	16·3	277
9·0 ,,					4	10·5	8·2	268	4	15·6	15·6	281					7	12.4	11.8	265	13	23·6	22·3	266

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I. S. T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	0·4	031	31	2·3	1·3	020	31	1·8	0.7	042	31	1·7	1·3	095	31	2·7	2·2	285	31	1·3	0·6	082
0·15 a.g.	30	4·6	2·0	021	29	4·3	2·4	027	28	5·5	2·6	025	29	3·2	1·5	099	29	4·0	3·6	282	29	3·1	0·5	292
0·3 a.m.s.l.													29	3·1	0·5	103	29	4·3	3·9	282	29	3·1	0·9	280
0·6 ,,	30	4·1	1·7	029	29	3·9	2·1	026	28	5·4	2·5	028	27	3·8	1·6	283	29	4·6	4·0	286	29	3·7	2·2	281
0·9 ,,	27	4·1	1·7	014	29	4·6	2·6	011	28	5·2	2·9	025	27	4·2	2·0	287	27	4·4	3·6	292	29	4·3	2·5	289
1·5 ,,	25	4·5	2·3	008	27	4·6	3·1	012	26	4·4	2·9	360	24	4·9	1·0	325	25	4·7	2·2	302	28	4·8	1·6	308
2·1 ,,	23	5·7	3·7	005	25	4·6	3·0	005	24	5·0	3·0	001	16	5·7	1·3	072	21	4·5	1·2	306	25	5·7	1·2	040
3·0 ,,	21	5·0	1·5	348	25	4·6	2·5	384	21	5·2	2·0	357	13	4·5	0·8	215	19	4·5	0·8	282	18	5·3	1·9	058
3·6 ,,	18	5·2	1·5	314	20	4·7	2·4	360	2	4·0	3·7	037	13	4·8	0·7	207	16	3·8	0·5	289	12	5·3	1·1	271
4·5 ,,	17	7·7	2·4	298	16	5·4	2·4	290	1	3·5	3·5	080	8	3·9	2·4	119	9	3·0	0·6	125	4	2·6	1·4	397
5·4 ,,	15	6·4	2·1	289	14	7·4	2·2	260					6	3·9	2·5	084	9	3·3	2·4	066	3	4·2	3·6	079
6·0 ,,	14	7·1	3·6	284	13	7·2	2·7	259					6	4·3	3·4	089	9	4·5	3·7	060	1	6·5	6·5	060
7·2 ,,	12	9·4	4·1	265	10	6·3	3·5	272					4	5·3	4·3	079	7	6·0	5·7	078				
9·0 ,,	9	9·2	7·6	257	7	8·7	7·6	276					2	5·5	5·2	106	5	7·8	7·2	083				

Station	BAMRAULI																BANGALORE							
Time in I. S. T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·4	097	31	1·9	0·3	023	31	1·3	0·8	358	31	0·7	0·4	083	31	1·6	0·9	260	31	1·9	0·3	278
0·15 a.g.	30	4·3	1·1	176	31	3·6	0·2	005	31	4·0	1·2	025	30	4·9	1·9	093	18	5·0	1·5	283	27	4·2	0·2	336
0·3 a.m.s.l.	30	4·4	1·2	176	31	3·7	0·2	320	31	4·0	1·2	025	30	5·3	2·2	095								
0·6 ,,	30	5·0	0·7	205	31	4·0	0·1	033	31	4·4	1·9	054	30	5·3	1·8	099								
0·9 ,,	30	5·5	0·8	323	29	4·4	0·4	282	31	4·3	1·0	039	30	5·5	1·0	092								
1·5 ,,	29	5·6	1·4	010	26	5·8	0·2	328	31	5·1	1·3	358	28	5·3	1·8	330	18	6·0	2·1	341	27	4·5	0·8	326
2·1 ,,	29	6·3	1·3	015	22	6·4	0·5	213	31	5·7	1·1	305	25	5·4	2·8	313	18	4·7	2·4	354	24	5·1	1·6	346
3·0 ,,	29	6·9	1·7	316	17	6·9	3·0	237	31	6·4	2·5	270	17	4·9	2·3	272	16	4·3	0·8	304	22	5·0	1·7	298
3·6 ,,	29	6·4	1·3	247	13	6·8	4·3	262	31	6·9	2·8	256	8	4·6	3·1	281	17	4·1	0·5	328	17	4·9	1·3	285
4·5 ,,	29	7·0	2·4	247	11	7·0	6·0	273	31	8·1	4·8	255					16	4·9	0·7	071	16	4·0	1·3	254
5·4 ,,	29	9·3	5·5	247	11	8·1	7·2	277	31	8·8	6·4	255					16	5·3	2·5	094	16	4·1	0·7	078
6·0 ,,	29	9·8	6·4	257	11	9·5	8·6	268	31	10·1	7·4	257					15	5·3	3·0	098	16	4·2	1·9	093
7·2 ,,	29	10·9	8·6	255	11	12·5	11·1	271	31	11·9	9·7	254					14	5·4	3·3	097	18	4·6	2·8	097
9·0 ,,	25	12·3	11·1	255	7	14·4	13·3	258	31	13·2	11·9	256					15	5·5	4·5	084	12	6·4	5·0	113

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S.T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	0·5	247	31	1·2	0·8	069	31	0·9	0·5	058	31	1·4	0·8	274	31	2·0	0·7	004	31	1·2	0·8	184
0·15 a.g.	24	6·5	1·7	218	28	4·4	1·3	078	30	3·3	1·5	036	26	5·0	1·8	342	27	4·8	1·7	355	28	5·6	2·0	050
0·3 a.m.s.l.					28	4·2	1·5	064	30	3·2	1·4	038												
0·6 ,,					27	5·0	0·5	031	30	4·7	1·8	056	27	3·5	1·1	342	27	4·7	1·5	357	28	3·6	1·3	052
0·9 ,,					27	5·4	0·9	356	30	4·8	1·1	051	26	6·3	2·5	009	27	5·4	1·9	352	28	6·1	2·3	043
1·5 ,,	24	7·0	1·9	279	27	6·5	1·7	330	30	5·4	1·0	322	26	6·2	3·0	012	27	6·1	2·5	347	27	5·5	1·8	010
2·1 ,,	23	4·7	1·7	346	26	6·3	2·7	334	29	5·1	1·0	343	23	5·1	2·4	354	26	5·2	2·2	333	25	5·1	1·8	038
3·0 ,,	17	4·6	2·6	292	23	6·0	2·4	336	27	5·5	2·6	339	20	4·6	0·5	326	23	4·4	1·5	291	23	5·0	0·7	284
3·6 ,,	9	5·1	2·2	276	20	5·7	3·1	345	23	6·0	3·6	338	18	5·3	1·0	040	22	5·0	1·6	251	14	4·3	1·2	215
4·5 ,,	7	3·9	1·6	238	16	6·5	4·1	288	22	7·7	5·9	318	17	5·7	1·3	096	17	4·7	1·3	192	1	2·0	2·0	20
5·4 ,,	2	3·5	3·4	004	13	7·8	4·9	292	22	9·4	8·0	296	15	4·0	1·6	127	14	3·5	1·0	022				
6·0 ,,	2	2·7	2·0	080	12	9·0	7·7	283	20	11·9	10·8	287	11	3·7	1·9	103	11	3·2	0·7	036				
7·2 ,,	1	6·0	6·0	050	5	10·3	9·2	263	18	16·8	15·4	276	9	3·8	1·7	055	7	4·8	2·5	102				
9·0 ,,					1	14·5	14·5	255	11	24·2	22·0	267	4	4·1	3·3	065	6	4·0	0·4	202				

Station	BHAGALPUR								BHUBANESHWAR												BHUJ			
Time in I. S. T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·9	140	31	1·9	0·1	185	31	1·9	0·7	359	31	2·1	0·7	143	31	2·1	0·1	056	31	1·2	1·1	252
0·15 a.g.	28	4·9	1·7	205	27	4·4	0·7	278	28	4·5	0·6	021	29	4·3	1·8	136	29	5·8	2·1	135	31	4·9	3·5	308
0·3 a.m.s.l.	28	5·3	1·4	216	27	4·8	0·7	278	28	4·9	0·8	130	29	4·9	2·0	135	29	6·0	2·3	140	31	5·3	3·9	310
0·6 ,,	28	5·3	0·9	203	27	4·7	0·7	250	28	4·7	1·3	144	29	5·3	2·1	127	29	5·9	2·2	138	31	5·0	3·2	326
0·9 ,,	28	4·9	1·3	148	27	4·6	1·1	220	27	4·3	1·3	143	28	4·7	1·6	115	29	5·4	2·3	142	31	4·0	1·4	350
1·5 ,,	27	4·6	1·7	136	27	4·4	2·5	203	24	4·7	2·2	140	23	3·7	0·3	148	28	5·0	2·1	135	31	4·4	0·8	091
2·1 ,,	27	4·2	1·7	145	27	4·8	2·4	202	24	4·9	2·1	150	22	4·0	0·8	215	25	5·0	2·0	150	30	4·7	1·0	053
3·0 ,,	27	4·0	1·5	205	26	4·1	1·9	228	20	4·4	1·6	160	19	4·1	1·5	209	19	3·7	1·2	174	27	5·1	3·2	028
3·6 ,,	23	5·0	2·1	240	26	5·5	3·0	238	19	4·4	1·7	177	13	3·7	0·6	164	8	4·4	1·0	204	3	5·5	5·2	039
4·5 ,,	21	6·1	3·6	246	23	6·6	3·6	260	15	3·2	0·5	217	9	4·0	1·4	005	1	4·0	4·0	045				
5·4 ,,	20	7·5	3·5	233	15	7·3	5·3	275	14	4·3	3·3	249	9	4·9	1·8	020								
6·0 ,,	19	8·7	5·9	248	11	7·4	5·6	274	13	4·4	1·2	268	7	4·1	2·1	350								
7·2 ,,	17	9·0	5·7	243	3	7·8	7·3	191	4	6·6	3·1	269	2	5·7	5·5	280								
9·0 ,,	10	10·8	5·7	243	1	7·0	7·0	160					2	8·3	8·3	250								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	BHUJ								BIKANER												CHIKHALTHANA			
Time in I. S. T.	1730				2330				(53)				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·8	1·6	332	31	1·7	1·4	258	31	0·2	0·2	220	31	0·8	0·3	330	31	0·8	0·2	344	31	1·3	1·2	279
0·15 a.g.	29	4·1	2·0	307	31	5·0	3·3	303	31	5·6	2·0	172	31	3·6	1·6	324	31	6·2	2·1	042	28	4·9	2·0	017
0·3 a.m.s.l.	30	4·1	1·8	311	31	5·3	3·4	307	31	4·0	1·7	169	31	3·2	1·4	325	31	4·8	1·6	036				
0·6 ,,	30	4·1	2·2	322	31	5·4	2·9	320	31	6·0	0·9	220	31	4·0	1·8	310	31	6·0	2·1	040				
0·9 ,,	30	4·3	2·4	324	31	4·7	2·1	330	31	5·2	0·1	013	31	4·0	1·9	312	31	5·2	1·7	036	28	6·1	3·2	034
1·5 ,,	30	4·3	2·0	330	31	5·1	2·0	036	31	4·1	1·7	315	31	3·8	1·4	314	31	3·9	1·5	294	27	5·1	3·2	041
2·1 ,,	29	4·5	1·3	328	31	6·0	2·0	063	31	4·3	2·3	321	31	3·9	1·3	295	31	4·0	1·9	294	27	4·1	1·5	019
3·0 ,,	26	5·3	1·0	020	30	4·3	2·2	032	31	5·5	2·3	009	31	4·0	2·0	300	25	4·4	2·3	334	23	4·2	1·5	340
3·6 ,,	22	6·3	1·7	353	10	5·3	4·0	035	30	5·4	2·5	360	30	5·4	3·2	295	7	5·8	5·1	338	11	5·0	0·8	250
4·5 ,,	21	7·1	3·1	350	2	8·5	6·3	068	20	6·6	4·3	309	27	7·1	4·5	302	2	7·0	6·7	347				
5·4 ,,	21	9·1	3·8	003					10	8·7	5·9	268	6	8·8	7·5	272								
6·0 ,,	19	8·2	4·2	012					7	12·9	9·6	278	21	10·2	9·2	282								
7·2 ,,	4	10·7	9·3	273					2	19·0	18·9	259	10	18·5	16·1	286								
9·0 ,,													5	24·6	22·4	265								

Station	CHIKHALTHANA								COCHIN												DARJEELING			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·9	1·4	357	31	1·9	0·9	307	31	1·0	0·6	070	31	3·2	2·6	276	31	1·3	0·4	060	31	0·1	0·1	068
0·15 a.g.	30	5·3	3·1	353	28	6·3	4·2	032	28	2·9	1·4	034	30	4·0	3·4	275	28	2·8	0·7	005	15	2·5	1·4	048
0·3 a.m.s.l.									28	2·7	1·3	335	30	4·5	3·8	280	28	3·0	0·8	318				
0·6 ,,									28	3·7	2·4	295	30	5·0	4·2	285	28	3·6	2·1	295				
0·9 ,,	30	4·9	3·2	356	28	7·1	5·1	035	28	4·4	3·0	293	30	4·9	3·8	288	25	4·2	2·8	305				
1·5 ,,	28	4·0	2·7	010	28	6·2	3·9	044	28	5·1	2·8	253	27	4·6	2·6	288	25	4·6	2·4	290				
2·1 ,,	25	3·5	1·8	006	27	5·1	2·3	038	26	4·6	2·1	300	24	4·6	1·7	293	20	5·0	1·9	282				
3·0 ,,	21	3·8	1·1	315	24	4·8	0·6	328	23	4·9	2·3	297	16	5·5	2·9	308	13	5·0	3·6	290	15	3·9	1·5	113
3·6 ,,	17	4·8	1·5	290	16	4·6	0·5	307	14	3·9	1·7	295	12	5·9	3·0	298	8	3·9	2·0	317	15	4·0	0·7	239
4·5 ,,	9	5·1	2·1	044	2	3·7	3·7	123	2	3·7	3·0	062	5	5·6	3·9	307	2	6·5	3·3	026	15	6·6	5·7	270
5·4 ,,	9	5·2	1·6	037					1	5·5	5·5	085	4	5·6	1·5	309					13	10·3	9·6	264
6·0 ,,	7	3·9	1·9	088					1	5·5	5·5	100	4	5·5	1·0	340					12	11·9	10·6	262
7·2 ,,	1	2·5	2·5	085									3	10·7	3·5	310					10	10·3	8·7	262
9·0 ,,																					5	10·8	8·6	277

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	DARJEELING				DEHRA DUN								DUM DUM											
Time in I.S.T.	1730				0530				1730				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·5	0·5	225	31	0·7	0·6	020	31	0·3	0·3	224	31	0·8	0·2	123	31	1·8	0·5	060	31	0·9	0·3	183
0·15 a.g.	18	2·6	1·7	225	29	1·7	1·1	089	31	2·6	1·0	253	31	4·5	1·0	355	31	3·5	0·6	070	31	4·7	0·6	248
0·3 a.m.s.l.													31	5·1	0·8	355	31	4·1	0·5	097	31	4·6	0·5	234
0·6 ,,													31	5·3	0·3	173	31	4·9	0·5	107	31	5·0	0·2	152
0·9 ,,					29	1·5	1·0	110	31	2·7	1·3	250	31	5·3	0·8	173	29	5·3	0·6	189	31	5·4	0·6	151
1·5 ,,					29	1·7	0·2	221	29	2·1	0·7	264	31	4·8	1·5	164	24	5·1	4·4	216	31	4·8	0·9	167
2·1 ,,					29	3·1	0·0	242	27	2·9	1·0	234	31	4·8	2·1	172	17	4·7	1·9	171	30	4·6	2·1	188
3·0 ,,	18	3·5	0·7	011	26	5·1	1·6	338	23	3·8	0·8	132	31	4·8	3·4	187	11	4·3	2·1	153	30	4·8	2·8	192
3·6 ,,	17	4·2	0·1	329	23	4·8	1·5	352	20	3·9	0·6	035	31	5·4	3·3	188	10	3·5	1·5	150	30	5·1	2·9	216
4·5 ,,	13	6·5	3·7	268	12	5·6	3·4	278	19	5·1	2·9	313	31	5·8	2·9	205	7	4·4	0·9	300	30	6·4	2·3	209
5·4 ,,	12	10·6	9·9	281	4	11·5	10·5	302	15	7·9	6·7	300	31	6·4	2·8	220	7	4·5	2·2	326	30	6·5	2·6	234
6·0 ,,	10	12·9	12·2	282	2	10·5	8·9	315	14	10·3	8.7	290	31	7·0	3·3	220	7	4·4	3·1	332	30	7·0	3·1	242
7·2 ,,	6	17·3	16·5	282					8	13·4	11·1	264	31	7·7	3·7	220	5	6.4	4·3	313	30	7·5	3·2	235
9·0 ,,	5	18·3	18·2	278					1	17·0	17·0	245	25	9·5	3·0	213	3	11·8	11·4	275	28	9·6	4·9	228

Station	DUM DUM				GADAG												GANNAVARAM							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·3	138	31	2·4	1·3	254	31	3·7	1·1	250	31	4·1	1·9	263	31	1·2	0·2	357	31	2·4	0·4	300
0·15 a.g.	31	5·1	0·6	151	28	6·3	2·2	260	29	6·3	2·6	264	28	8·5	3·4	255	28	4·5	0·3	273	30	4·5	0·4	107
0·3 a.m.s.l.	31	5·6	1·0	155													28	5·1	0·8	239	30	4.8	0·2	114
0·6 ,,	29	5·6	1·1	139													27	6·3	1·2	265	30	5·1	0·6	348
0·9 ,,	28	5·2	1·3	155	28	8·0	2·2	286	29	6·4	2·6	272	28	8·8	3·2	273	26	5·5	1·5	295	29	4·9	1·3	325
1·5 ,,	27	4·9	1·2	182	26	8·1	2·4	310	29	6·2	2·3	208	27	8·1	1·5	344	23	4·9	1·6	309	26	5·4	1·9	330
2·1 ,,	25	4·8	1·8	169	22	6·5	2·3	343	26	4·9	2·1	358	26	6·7	2·1	016	22	4·8	1·6	287	24	5·6	2·1	328
3·0 ,,	23	4·0	1·8	156	18	5·7	1·5	327	19	4·8	1·7	340	22	5·5	1·4	347	19	4·9	1·0	308	22	4·8	1·3	284
3·6 ,,	7	3·7	0·8	059	16	5·3	1·7	262	17	5·3	1·4	302	15	5·4	1·7	343	13	3·8	0·6	160	19	4·4	1·1	244
4·5 ,,	5	3·4	1·2	293	15	4·6	1·7	242	14	4·4	0·6	357	14	4·6	0·5	191	13	4.1	1·4	124	16	4·2	1·1	240
5·4 ,,					12	4·7	0·5	243	12	4·7	0·9	090	8	4·4	1·3	099	11	4·6	1·3	129	14	4·4	1·2	205
6·0 ,,					9	4·8	1·1	139	12	4·7	1·4	100	5	3·5	2·0	079	10	4·5	2·7	088	13	4·8	1·3	208
7·2 ,,					8	3·5	1·7	083	10	5·0	1·6	098	2	3·5	3·3	097	7	4·4	3·4	075	8	5·0	3·6	153
9·0 ,,					7	5·2	1·3	051	8	6·6	4·8	093	1	3·5	3·5	120	5	4·7	4·2	091	6	5·8	4·3	147

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	GANNAVARAM				GAUHATI																GAYA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·7	0·3	097	31	0·2	0·0	084	31	2·0	1·1	012	31	0·8	0·2	282	31	1·0	0·3	190	31	2·1	1·0	147
0·15 a.g.	28	5·5	2·5	106	31	2·5	0·2	085	30	2·7	1·4	015	31	3·4	0·1	270	29	2·7	0·8	187	28	4·3	2·0	173
0·3 a.m.s.l.	28	5·9	2·5	113	31	2·5	0·3	054	30	3·0	1·1	046	31	3·5	0·4	267	29	3·0	0·2	191	28	4·3	1·6	175
0·6 ,,	28	5·9	1·7	100	31	3·9	0.4	125	30	3·8	0.9	078	31	3·5	0·9	302	29	4·4	0·2	340	28	5·5	1·5	200
0·9 ,,	28	5·4	1·0	047	31	4·6	0·1	204	30	4·7	0·8	131	31	3·5	0·9	269	29	5·0	0·9	303	28	5·7	0·9	226
1·5 ,,	28	5·5	0·8	333	31	4·8	0·7	250	30	5·2	1·1	194	31	3·8	1·3	237	28	4·9	1·2	262	25	5·3	1·0	206
2·1 ,,	26	5·4	1·3	269	31	4·1	1·4	251	28	4·5	1.9	216	30	4·0	1.6	237	26	4·4	1·8	251	19	5·8	2·3	204
3·0 ,,	22	4·4	1·2	191	31	4·8	2·5	252	23	4·3	2·3	232	30	4·9	3·1	254	21	5·7	3·3	235	18	6·2	3·4	211
3·6 ,,	18	4·1	1·3	183	31	5·6	4·3	250	19	5·2	3·3	249	30	5·6	3·9	265	13	5·3	3·5	210	15	6·1	3·9	243
4·5 ,,	18	4·4	0·9	159	31	7·6	6.0	258	14	7·1	5·6	254	31	6·9	6·0	268	10	5·3	4·6	231	8	5·4	3·0	272
5·4 ,,	9	3·8	2·8	062	31	9·8	8·5	250	11	9·5	7·6	262	31	9·5	8·3	255	4	5·1	4·4	190	5	6·4	5·9	281
6·0 ,,	8	4·5	2·9	073	31	11·1	9·8	250	10	10·7	8·3	265	31	10·2	9.1	257	4	5·4	4.7	193	4	6·6	5·7	264
7·2 ,,	3	3·0	1·3	047	31	11·5	10·2	250	10	12.2	10.6	263	31	11·7	9·5	253	1	8·5	8·5	215				
9·0 ,,					27	13.7	11·2	252	4	8·9	6·7	195	27	14·3	12·3	254								

Station	GAYA								GOPALPUR												GORAKHPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·2	0·7	018	31	1·9	0·6	145	31	2·6	0·9	292	31	4·0	2·1	127	31	3·0	0·7	223	31	1·2	0·9	072
0·15 a.g.	27	4·1	1·8	006	28	4·2	1·3	130	28	5·2	1·7	322	30	4·6	2·4	132	29	4·4	1·1	145	29	5·3	1·3	082
0·3 a.m.s.l.	27	4·4	1·8	009	28	4·3	1·4	122	28	4·7	0·4	067	30	4·7	2·3	123	29	4·4	1·5	143	29	5·7	1·2	105
0·6 ,,	27	4·8	1·3	026	28	5·2	1·3	137	28	4·8	1·0	146	29	4·7	1·8	123	29	4·9	1·8	140	29	5·6	1·9	127
0·9 ,,	27	4·9	0·6	021	28	5·3	1·3	191	27	4·9	1·1	136	29	4·8	1·4	122	27	4·9	1·3	140	29	5·3	1·9	114
1·5 ,,	25	5·4	2·2	212	26	5·1	2·8	211	24	4·7	0·7	111	28	5·1	0·5	116	24	5·1	1·3	136	29	6·0	2·8	090
2·1 ,,	21	5·6	2·9	247	22	4·3	2·1	227	21	4·6	0·4	094	23	4·1	0·8	001	19	5·3	1·3	170	29	6·1	4·4	100
3·0 ,,	15	6·4	3·9	249	17	5·2	1·9	197	16	4·0	1·9	210	17	3·7	0·8	276	17	3·8	0·8	161	28	5·5	3·0	120
3·6 ,,	9	6·7	3·7	272	3	3·5	1·1	319	16	3.7	0·7	181	13	4·1	1·1	213	10	3·9	1·2	007	25	4·9	1·1	202
4·5 ,,	7	8·1	7·0	280					13	4·0	1·0	086	10	4·5	1·4	098	1	7.5	7·5	050	22	6·8	3·5	264
5·4 ,,	4	12·1	10·3	288					12	4.2	1.8	099	8	4·8	0·5	187					19	3·5	6·4	262
6·0 ,,	1	5·5	5.5	320					11	4·3	1·4	099	8	4·7	0·3	233					18	9·8	8·1	261
7·2 ,,									8	3·7	1·2	075	6	5·2	1·6	320					16	13·3	11·1	270
9·0 ,,									3	3·8	2.3	052	2	2·5	2·5	033					11	13·1	12·1	260

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	GORAKHPUR				GWALIOR												IMPHAL							
Time in I.S.T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1.7	0·3	123	31	1·1	0·5	292	31	1·0	0·7	017	31	0·9	0·4	272	31	0·9	0·6	073	31	1·6	0·2	303
0·15 a. g. .	30	3·4	0·5	074	28	5·7	1·6	257	31	3·8	2·5	011	30	4·3	0·9	118	25	1·9	0·7	045	31	3·0	1·0	251
0·3 a.m.s. l. .	30	4·0	1·1	092	28	4·7	1·6	259	31	3·4	2·3	013	30	3·8	0·8	133								
0·6 „ .	30	4·4	1·3	101	26	5·7	0·6	317	31	4·5	2·7	005	27	4·4	0·6	071								
0·9 „ .	30	4·6	1·4	110	25	5·3	1·7	180	30	4·8	2·7	005	27	4·4	1·4	017	25	2·0	0·9	060	31	3·1	1·0	259
1·5 „ .	30	5·1	3·2	105	25	6·4	3·8	357	30	5·8	3·2	353	27	5·8	3·2	357	22	3·0	0·7	005	30	2·5	0·8	207
2·1 „ .	28	4·5	2·9	119	25	6.4	4·5	354	26	6·0	4·0	348	26	6·0	4·0	355	17	4·8	1·9	169	29	3·0	1·1	195
3·0 „ .	28	4·5	2.1	129	25	6·5	3·7	333	25	6·4	4·4	334	24	6·1	3·5	327	13	4·5	2·7	179	23	3·7	1·7	194
3·6 „ .	24	4·9	1·1	247	25	6·4	3·4	316	23	7·6	5·5	320	17	7·3	4·4	337	6	4·4	3·1	187	18	4·6	2·1	227
4·5 „ .	23	7·5	4·9	259	23	7·4	3·9	297	23	9·1	6·9	299	2	7·8	6·1	320	2	5·5	5·2	169	14	7·2	3·9	242
5·4 „ .	23	9.9	7·9	260	22	9.9	6.0	287	23	10·8	8·2	287					2	5·3	1·8	222	12	6·5	4·5	260
6·0 „ .	21	10·7	10·3	266	22	10.7	7.9	285	23	11·7	4·5	273					1	6·0	6·0	300	9	6·1	3·8	234
7·2 „ .	16	15·9	14·5	262	22	13.0	11.4	271	23	14.5	12·8	271									6	7·6	5·1	232
9·0 „ .	12	17·1	16·4	268	21	15.9	15.0	266	20	20.4	19·0	263									1	1·5	1·5	155

Station	IMPHAL				JABALPUR												JAGDALPUR							
Time in I. S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·7	0·3	048	31	0·5	0·2	147	31	1·3	0·2	344	31	0·8	0·4	163	31	0·5	0·1	151	31	0·9	0·0	090
0·15 a. g. .	31	2·0	0·1	038	31	4·4	1·7	149	31	4·4	1·1	003	31	4·8	1·7	076	28	3·8	0·5	257	31	4·1	0·9	025
0·3 a.m.s.l. .																								
0·6 „ .					31	5.2	1.6	147	31	4.6	1.4	012	31	5·0	1.7	089	28	2.0	0.5	141	31	2·5	0 4	339
0·9 „ .	31	2·2	0·5	072	31	6·6	0·9	110	31	4·7	1·2	002	31	5·3	1·1	076	28	5·0	1·0	116	31	4·4	1·3	036
1·5 „ .	30	2·3	0·5	167	30	6·5	1·3	043	30	5·0	0·8	340	30	5·3	1·2	020	17	4·3	0·3	337	28	5·5	1·6	011
2·1 „ .	30	3·6	1·5	175	30	7·2	2·1	008	27	5·6	1·7	331	26	5·2	0·7	029	15	4·3	0·2	296	22	5·1	1·8	355
3·0 „ .	20	4·5	2·2	230	25	6·8	2·4	351	22	5·1	2·7	303	22	4·9	0·5	328	14	4·5	0·6	284	14	4·0	0·9	283
3·6 „ .	15	4·7	3·1	243	18	4.5	1·2	304	20	5.0	2·9	271	16	4·9	2·0	262	14	5·0	1·3	099	13	4·2	1·3	219
4·5 „ .	1	4·5	4·5	230	17	5·5	2·5	253	18	6·1	5.2	256	1	5·0	5·0	255	10	5·3	2·7	118	10	4·7	1·7	156
5·4 „ .	1	5.5	5.5	255	15	7·6	4·4	245	19	8.3	6.5	259					8	5.6	2.2	130	5	4·2	1·3	147
6·0 „ .	1	4.0	4.0	270	14	8·6	6·3	257	17	9.4	8.0	259					8	4.8	1.4	135	4	3·9	1·5	159
7·2 „ .					5	9.0	7.5	240	15	9.8	8.7	262					2	2.0	1.7	217	2	5·5	1·3	321
9·0 „ .					3	9.3	9.3	269	5	14.1	14.0	259												

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Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	JAGDALPUR				JAIPUR												JAMSHEDPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·5	0·1	068	31	1·4	0·6	358	31	2·0	0·5	357	31	1·5	0·5	025	31	1·6	0·6	359	31	1·7	0·4	0
0·15 a. g.	29	4·6	1·5	094	31	5·5	0·9	334	30	4·0	0·9	007	30	5·9	0·4	110	29	3·5	1·0	327	30	3·9	0·8	1
0·3 a.m.s.l.																	29	3·6	0·6	325	30	3·9	0·7	1
0·6 „	29	2·5	0·6	121	31	6·2	0·8	336	30	4·1	1·1	005	30	5·8	0·8	056	29	4·5	0·5	260	30	3·7	0·6	1
0·9 „	28	5·1	1·6	100	30	6·9	1·6	331	30	4·1	1·4	003	30	6·1	1·5	038	28	5·2	0·9	232	30	4·1	0·7	1
1·5 „	24	4·1	1·8	081	30	5·9	3·3	346	30	4·7	2·5	357	30	5·6	3·6	004	27	6·3	1·9	198	21	4·9	1·5	2
2·1 „	21	4·7	1·2	037	29	6·5	3·6	348	29	5·2	3·1	344	30	5·3	3·9	014	24	5·9	3·3	200	20	5·5	3·1	2
3·0 „	16	5·1	0·5	141	27	6·3	3·1	352	27	6·0	3·3	318	26	5·3	3·4	353	22	5·1	2·1	179	17	5·1	3·3	2
3·6 „	5	3·9	0·6	206	19	4·8	2·3	318	26	7·1	4·6	318	21	6·2	2·8	339	18	4·9	2·1	189	13	3·7	2·8	2
4·5 „					10	7·5	5·6	273	23	8·9	5·8	300	14	7·6	4·9	041	13	5·4	1·2	284	11	5·0	2·6	2
5·4 „					3	8·3	7·1	290	19	12·0	9·4	282	6	6·7	5·2	301	7	4·0	2·2	340	8	5·3	2·9	3
6·0 „					3	9·3	8·7	294	15	12·9	8·4	282	4	5·1	4·2	284	4	4·6	1·5	288	6	6·4	3·3	2
7·2 „					1	7·5	7·5	245	8	16·6	12·4	281	1	8·5	8·5	240	3	7·1	6·7	291	1	5·5	5·5	3
9·0 „																								

Station	JHARSUGUDA												JODHPUR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	1·2	049	31	1·7	0·5	055	31	1·9	0·8	043	31	1·5	0·5	008	31	1·4	0·3	024	29	2·1	0·5	0
0·15 a. g.	28	4·6	2·5	053	26	3·8	1·1	084	31	4·2	1·8	081	31	5·2	1·1	349	31	2·6	0·5	316	29	4·6	1·8	0
0·3 a.m.s.l.	28	4·1	2·3	051	26	3·5	1·0	088	31	4·0	1·5	068	31	3·3	1·4	357	31	2·2	0·6	322	29	3·4	0·9	0
0·6 „	28	4·8	1·7	089	26	3·8	0·8	089	31	4·3	2·1	099	31	4·9	1·9	320	31	3·4	0·9	332	29	3·9	1·1	3
0·9 „	27	4·7	1·2	114	24	4·1	0·6	007	29	4·9	2·1	109	31	4·2	1·3	295	31	4·4	1·1	304	29	3·3	0·5	2
1·5 „	21	4·8	0·9	203	24	5·1	1·2	304	28	3·5	1·5	137	31	4·1	1·2	347	29	4·9	1·6	355	29	3·7	1·0	3
2·1 „	16	6·1	3·7	192	21	5·5	2·1	259	25	4·6	1·5	202	29	4·4	2·5	024	28	5·2	2·4	034	29	4·1	1·5	3
3·0 „	14	4·1	2·6	185	14	4·6	2·8	246	12	4·2	2·6	241	28	4·3	2·2	001	28	4·1	1·3	053	29	4·7	2·2	3
3·6 „	10	3·3	1·3	218	14	4·3	2·2	245	7	4·6	3·0	212	26	5·8	3·8	340	28	4·5	1·0	309	26	5·4	3·2	3
4·5 „	1	2·5	2·5	180	9	4·9	1·6	258	1	5·0	5·0	180	26	6·1	2·0	353	28	6·3	3·3	292	25	7·6	5·0	3
5·4 „					2	4·5	4.2	029					24	8·5	6·0	285	27	9·1	6·6	285	21	10·2	7·5	3
6·0 „													23	9·8	7·3	285	24	10·5	7·0	291	21	10·9	8·7	
7·2 „													23	13·0	11·0	268	14	11·7	7·9	280	21	14·0	11·7	
9·0 „													20	19·0	18·4	265	4	18·7	18·0	266	15	17·5	15·2	

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	JODHPUR				MADRAS																MINICOY			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·0	0·6	287	31	1·9	1·3	265	31	2·5	1·1	279	31	2·7	1·6	112	31	2·5	1·5	181	31	2·1	1·5	292
0·15 a.g	31	6·8	1·6	233	31	5·6	2·8	270	31	2·7	0·5	278	31	5·4	3·2	107	30	5·1	2·9	167	31	3·7	2.5	295
0·3 a.m.s.l.	31	5·6	1·6	248	31	5·5	2·9	264	31	3·2	0·5	269	31	4·9	2·1	110	30	5·1	2·7	162	31	3·9	2·5	292
0.6 "	31	6·9	1·3	240	31	5·2	3·1	258	31	4·1	1·6	288	31	3·9	0·6	134	30	4·3	1·7	167	31	4·5	2·8	292
0·9 "	31	6·5	0·7	306	31	5·7	2·8	284	31	4·6	2·1	305	31	4·0	0·4	344	30	4·1	0·6	222	31	4·9	3·0	292
1·5 "	31	5·0	2·0	003	31	5·0	2·1	297	30	5 6	2·8	307	31	5·2	2·4	314	30	5·2	1·3	313	31	5·6	3·2	286
2·1 "	31	5·5	2·8	020	31	4·9	1·8	310	29	5·6	2·4	305	31	5·9	3·3	312	29	5·8	2·4	325	29	5·7	3·4	282
3·0 "	28	5·1	3·1	360	30	4·9	2·0	295	26	5·7	2·3	285	31	5·9	2·2	300	26	4·4	1.2	328	28	5·6	3·0	284
3·6 "	9	6·3	0·7	335	30	5·4	1·9	265	22	5 6	2·5	277	31	5·5	1·8	276	22	4·0	1·1	008	28	5·8	2·8	285
4·5 "	5	6·6	4·8	348	30	5·1	0·7	235	18	5·4	1·5	256	31	4·6	1·3	284	15	3·7	2·3	071	25	4·0	0·9	304
5·4 "	3	8·2	6·6	352	30	4·8	1·1	128	13	4·5	1·1	189	31	4·7	0·6	347	10	3·9	3·0	072	22	3·6	0·8	098
6·0 "	2	9·7	7·1	324	30	4·8	1.5	115	12	5·0	1·9	145	31	4·3	0·7	068	7	3.9	3.6	075	21	3·7	1·0	105
7·2 "	1	6·0	6·0	275	30	5·4	2·3	102	9	3·3	1·9	137	31	4·6	1·8	107	3	2·7	2·2	086	14	4·5	2·9	090
9·0 "					30	5·7	4·6	099	8	6·2	5·5	110	27	5·9	4.3	107					8	5·5	4·9	075

Station	MINICOY								MOHANBARI												NAGPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2·3	1·8	298	31	2·1	1·3	292	31	1·1	0·9	051	31	0·6	0·4	069	31	0·6	0·5	057	31	1·3	0·5	042
0·15 a.g.	31	4·0	2·7	296	31	3·8	2·0	288	25	3·9	2·7	065	30	2·4	1·1	086	30	2·1	1·1	049	31	5·9	2·7	047
0·3 a.m.s.l.	31	3·9	2·6	296	31	3·8	2·1	287	25	4·1	2·9	062	30	2·3	1·2	086	30	1·9	1·1	053				
0·6 "	31	4·6	2·8	295	31	4·4	2·4	287	24	3·3	2·0	059	30	2·6	1·5	089	30	1·8	1·0	069	31	6·3	3·0	053
0·9 "	31	5·2	3·3	287	31	5·0	2·5	285	21	3·0	1·1	057	28	2·0	0·7	089	30	2·2	0·9	082	31	6·5	2·9	058
1·5 "	31	5·8	2·9	283	30	5·5	3·0	283	21	3·8	0·3	139	28	3·0	1·4	189	30	2·8	0·3	252	31	4·9	2·3	048
2·1 "	31	5·7	3·4	277	28	5·1	2·2	287	16	2·7	0·9	122	27	4·0	3·3	213	26	3.0	1·3	222	31	5·5	1·2	025
3·0 "	29	5·3	2·6	282	28	5·1	2·5	287	15	3·2	2·0	218	19	3·7	3·3	227	20	3·8	2·9	218	31	5·8	0·7	281
3·6 "	28	5·6	2·9	283	22	5·2	2·7	287	11	4·0	3·7	241	16	4·4	3·8	233	11	4·4	3·8	241	31	5·4	1·3	234
4·5 "	24	4·6	1·1	282	10	3·1	0·4	053	7	5·6	4·8	254	15	6·3	5·7	243					31	5·5	2·1	213
5·4 "	22	3·2	0·7	062	1	4·5	4·5	085	6	8·6	8·0	251	13	7·4	6·9	242					31	6·1	2·1	202
6·0 "	20	3.0	0·8	077					4	11·1	10·2	263	13	9·0	8·2	255					31	5·7	1·5	197
7·2 "	17	4·7	2·8	075					2	9·2	8·6	255	8	8·8	7·6	267					31	6·7	3·1	238
9·0 "	10	4·5	3·1	072									1	5·0	5·0	235					31	7·7	4·6	248

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	NAGPUR												NEW DELHI											
Time in I. S. T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·2	0·5	051	31	1·3	0·5	022	31	1·4	0·7	006	31	3·2	0·4	295	31	2·4	0·9	354	31	2·0	0·8	055
0·15 a. g.. .	31	3·5	1·1	047	31	4·2	2·1	025	30	5·5	2·1	064	31	5·1	1·1	346	30	4·0	0·9	009	31	4·9	2·2	015
0·3 a.m.s.l. .													31	3·8	0·7	028	30	3·8	0·7	348	31	3·1	1·3	040
0·6 ,, . .	30	4·0	1·7	074	31	4·4	2·0	035	30	5·7	2·4	062	31	5·3	1·1	008	30	4·0	0·9	359	31	4·7	2·1	014
0·9 ,, . .	28	4·3	2·4	050	31	4·9	1·5	045	29	5·3	2·5	048	31	5·1	1·7	360	30	5·4	1·9	350	31	4·8	2·2	347
1·5 ,, . .	22	4·4	3·4	035	31	5·2	1·2	036	29	4·8	2·3	041	31	5·5	2·5	345	28	5·9	2·6	347	31	5·0	2.5	335
2·1 ,, . .	19	4·9	3·1	065	31	5·8	1·4	021	29	4·6	2·4	039	31	6·0	2·9	339	27	6·2	3·1	348	31	5·5	2·7	325
3·0 ,, . .	18	3·9	1·3	357	31	5·7	1·1	295	26	4 6	1·4	274	31	6·2	3.8	351	26	6·1	3·1	349	31	5·8	2·6	306
3·6 ,, . .	17	3·1	0·4	349	31	5.6	1·5	246	18	4·6	2·2	263	31	6·3	3·1	345	26	6·0	3·4	330	31	6·3	3·0	309
4.5 ,, . .	16	3·6	0·7	330	31	6·1	1·9	209	9	4·9	4·0	255	31	6·9	3·2	311	22	7·4	0·5	298	31	7·8	6·0	297
5·4 ,, . .	14	5·1	1·5	189	31	6·9	1·7	218	6	3·9	1·7	272	31	8·3	5·4	283	19	10·9	9·4	297	31	9·5	7·9	290
6·0 ,, . .	14	5.1	2.0	220	31	7·2	2·6	299	4	4·7	1·1	299	31	9·5	6·6	280	17	12 3	10·8	291	31	11·5	9·6	276
7.2 ,, . .	12	5.8	3·8	237	31	7·2	3·4	227	1	11·5	11·5	040	31	13·3	11·2	272	13	15·2	13·4	279	31	14·8	12·2	269
9·0 ,, . .	7	11·9	9·3	246	31	8·1	4·9	245					31	19·5	16·8	267	9	20·3	19·4	274	31	19·7	17·3	266

Station	NEW DELHI				POONA												PORT BLAIR							
Time in I. S. T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·0	0·4	082	31	0·3	0·3	245	31	1·0	0·6	267	31	1.0	0·6	241	31	1·0	0·7	243	31	3·0	1·8	247
0·15 a. g.. .	31	4·6	1·7	045	29	3·3	0·8	278	30	3·8	2·5	279	30	4·2	2·2	280	31	5·1	2·4	254	30	4·8	2·3	248
0·3 a.m.s.l. .	31	3·8	1·3	056													31	3·8	2·5	259	30	5·2	2·6	245
0·6 ,, . .	31	5.4	2·6	045	29	1·6	1·1	240	30	2·4	1·1	286	30	2·4	1·5	241	31	5·2	2·2	238	28	5·3	2·1	241
0·9 ,, . .	31	5·6	2·3	022	29	4·7	0·7	002	30	4·3	3·0	287	30	5·3	2·3	310	31	5·7	2·7	247	25	5·5	1·4	220
1·5 ,, . .	31	6·0	2·9	335	28	6·2	1·6	057	30	4·3	2·8	309	29	6·2	2·8	020	31	5·3	2·0	244	19	5·3	1·2	128
2·1 ,, . .	30	5·9	3·1	325	26	4·2	1·8	049	26	4·1	1·5	003	28	5·4	3·1	051	29	2·8	0·6	194	15	4·8	2·9	092
3·0 ,, . .	25	5·5	2·9	327	23	3·5	0·7	306	22	3·8	1·9	053	26	3·3	1·3	095	26	5·3	0·7	083	12	4·0	3·3	092
3·6 ,, . .	4	2·8	2·5	292	16	4·7	2·2	004	17	4·0	1·3	062	19	3·4	0·8	309	21	5·4	1·2	110	9	4·7	3·3	072
4·5 ,, . .					5	4·8	2·1	325	11	3·8	0·5	351	12	4·3	0·4	135	19	2·8	1·5	107	7	4·7	3·5	065
5·4 ,, . .									9	5·0	0·2	235	7	5·1	0·8	317	15	4·6	3·5	098	4	3·7	3·1	071
6·0 ,, . .									9	4·5	1·0	194	5	4.4	1.1	111	13	4·7	2·0	070	4	4·1	3·5	085
7·2 ,, . .									9	6·5	1·5	185					12	4·6	2·6	065	4	5.9	4·9	083
9 0 ,, . .									6	5·9	4·8	245					8	7.0	5·9	063	2	7.0	6·8	067

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	PORT BLAIR								RAIPUR												RAXAUL			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·0	1·1	253	31	1·7	0·7	219	31	1·5	0·4	048	31	1·9	0·9	070	31	1·6	0·6	097	31	0·5	0·4	080
0·15 a. g. .	31	4·9	2·9	257	30	4·3	2·0	246	30	5·0	2·0	036	29	4·2	1·9	042	30	5·3	2·1	101	28	4·9	2·3	075
0·3 a.m.s.l. .	31	5·1	3·0	258	30	4·5	2·2	243													28	5·2	2·0	096
0·6 „ . .	31	6·2	3·6	260	30	5·1	2·3	245	30	6·0	2·0	063	29	4·5	2·0	047	30	5·8	2·4	094	28	5·1	2·0	114
0·9 „ . .	31	6·1	3·1	260	29	4.6	1·5	239	26	6·2	2·6	065	28	4·6	2·8	039	30	5·4	2·4	082	28	4·7	2·4	113
1·5 „ . .	30	6·0	2·5	244	27	4·1	1·4	237	23	5·8	0·9	069	26	5·2	2·9	030	28	5·3	2·3	048	28	5·0	3·8	104
2·1 „ . .	26	5·5	1·7	253	19	3·6	0·4	180	20	6·4	0·1	041	22	5·7	2·4	333	26	5·8	1·6	027	28	5·7	4·9	108
3·0 „ . .	25	5 9	1·4	276	16	3·7	1·6	152	16	5·7	1·3	252	19	5·1	2·3	288	17	5·2	2·8	232	27	5·0	4·0	115
3·6 „ . .	18	5·3	0·6	048	5	4·0	3·2	093	12	5·5	3·2	196	16	5·3	2·0	250	8	5·2	2·7	237	16	4·0	1·5	165
4·5 „ . .	17	6·0	2·4	070	2	4·0	3·9	074	7	4·4	1·3	084	13	4·9	1·1	271	3	5·2	3·5	202	12	6·0	4·1	246
5·4 „ . .	10	4·5	2·7	088					5	2·8	2·1	084	12	4·5	1·1	250					10	9·1	7·8	263
6·0 „ . .	7	4·2	2·7	102					5	3·1	2·0	075	10	5·1	2·8	227					9	12·0	11·3	261
7·2 „ . .	5	4·5	4·2	090					2	2·5	1·7	038	7	6·1	5·5	241					2	16·7	16·1	261
9·0 „ . .	4	6·1	5·8	064					1	5·5	5·5	260	3	11·5	10·9	255								

Station	RAXAUL				SANTA CRUZ																TIRUCHIRAPALLI			
Time in I.S.T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·5	0·2	225	31	1·6	1·0	055	31	1·9	0·2	030	31	3·5	3·1	301	31	1·7	0·7	340	31	2·4	2·1	280
0·15 a.g. .	27	3·6	0·7	243	31	5·2	1·7	030	31	2·9	0·4	110	31	6·5	5·4	312	30	4·3	2·4	335	31	5·8	5·2	283
0.3 a.m.s.l. .	27	3·7	0·8	231	31	5·1	2·0	035	31	3 6	0·5	115	31	5·7	4·4	315	30	5·0	2·8	339	31	6·8	6·0	279
0·6 „ . .	27	3·8	1·0	227	31	4·5	1·5	023	31	3·8	0·4	083	31	4·4	3·0	328	30	4·9	2·6	348	31	7·8	6·3	278
0·9 „ .	27	3·9	0·7	185	30	4·9	1·9	025	28	3·9	1·3	070	31	4·1	2·5	334	27	4·4	2·6	012	31	6·7	4·6	279
1·5 „ . .	26	4·5	2·9	114	30	4·5	1·6	004	21	3·6	1·2	090	31	4·3	1·8	355	27	4·3	1·2	040	29	5·5	2·6	279
2·1 „ . .	26	4·8	3·9	109	30	4·7	1·1	351	17	3·0	0·8	167	31	4·9	1·2	322	26	5·3	1·7	099	29	5·6	2·5	289
3·0 „ .	25	4·3	3·0	109	30	5·0	1·2	360	16	4·9	1·1	066	31	5·9	1·3	002	24	4·1	0·8	155	26	4·9	1·7	305
3·6 „ . .	24	4·4	1·5	137	30	4·5	1·4	343	16	5·4	2·3	051	31	5·1	2·0	355	16	3·9	1·1	039	25	4·7	1·9	304
4·5 „ . .	19	7·0	4·3	269	30	5·2	2·3	347	16	5·4	2·7	049	31	4·9	1·6	360	11	5·6	0·4	032	23	4·8	1·4	236
5·4 „	15	10·9	9·2	268	30	5·0	1·6	340	16	5·8	3·5	065	31	6·0	1·4	360	4	3·3	1·6	195	17	4·5	1·7	181
6·0 „ . .	14	13·6	12·7	261	30	6·7	2·4	347	15	5·4	2·7	071	31	6·5	1·2	355	3	2·8	2·0	231	16	4·4	2·6	134
7·2 „ . .	8	18·9	17·7	267	30	6·0	2·0	325	9	6·9	1·0	173	31	5·9	1·1	323					14	5·1	4·0	115
9·0 „ .	4	21·9	20·6	266	26	6·3	2·7	268	8	6·5	4·3	228	27	7·2	1·9	280					4	6·0	5·1	090

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds up to 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	TIRUCHIRAPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	2·5	1·1	131	31	2·3	0·7	253	31	1·6	1·5	340	31	2·4	1·8	302	31	3·2	2·7	289	31	2·1	1·6	341
0·15 a. g. .	30	3·8	1·7	124	26	5·4	1·4	230	31	4·9	4·3	337	30	3·7	2·9	302	31	5·4	4·6	292	29	4·7	3·7	321
0·3 a.m.s.l. .	30	3·9	1·7	128	26	5·7	1·7	227	31	4·9	4·3	332	30	4·2	3·3	300	31	5·5	4·7	291	29	5·0	4·1	317
0·6 „ . .	31	3·7	0·8	120	26	6·7	2·3	224	31	5·5	4·7	318	29	4·1	3·1	302	31	6·5	5·1	288	29	5·8	4·4	309
0·9 „ . .	31	4·0	0·2	124	23	6·2	1·2	234	31	5·5	4·4	308	21	5·0	4·1	317	31	5·8	4·4	296	29	5·7	4·3	310
1·5 „ . .	31	5·4	1·5	300	22	5·7	1·3	275	31	6·1	3·8	301	14	6·5	4·2	314	31	5·8	3·9	306	29	6·1	3·5	307
2·1 „ . .	28	6·2	2·1	302	21	6·2	2·4	305	31	6·2	3·2	295	7	5·6	4·7	324	31	5·6	3·2	306	27	6·4	2·7	309
3·0 „ . .	25	5·0	1·8	318	16	5·5	2·7	010	31	5·8	3·1	296	6	4·3	3·0	342	31	5·8	3·8	297	24	6·3	3·7	300
3·6 „ . .	22	4·5	1·9	295	13	5·6	2·1	343	31	5·2	2·6	295	6	4·2	2.4	354	31	5·2	3·1	299	20	4·5	1·6	299
4·5 „ . .	19	3·8	0·5	298	5	6·3	3·5	092	31	4·5	0·8	308	5	3·1	2·5	065	31	4·4	1·4	275	14	2·9	1·3	058
5·4 „ . .	17	4·3	1·7	059	1	6·0	6·0	105	30	4·2	0·6	014	4	4·1	2·9	070	31	4·1	0·7	011	12	3·5	2·4	262
6·0 „ . .	14	4.4	2·3	074	1	5·5	5·5	090	30	4·3	0·9	078	4	5·3	3·1	087	31	4·3	1·2	054	11	3·9	2·0	089
7·2 „ . .	11	4·3	1·9	079					30	4·3	1·9	090	3	6·3	4·1	054	31	4·4	1·6	079	3	5·2	5·0	116
9·0 „ . .	8	6·0	5 4	087					27	7·1	6·0	106	3	8·2	7·7	083	29	6·5	5·0	081				

Station	UDAIPUR												VENGURLA											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·2	0·2	352	31	1·1	0·4	325	31	0·2	0·1	045	31	0·5	0·3	338	31	2·0	1·7	268	31	0·4	0·2	360
0·15 a.g. . .	31	2·5	1·3	343	30	3·4	1·1	020	31	2·7	0·9	331	31	3·2	0·9	030	30	3·9	3·5	274	30	4·1	2·9	347
0·3 a.m.s.l. .													31	4·3	1·2	008	30	4·6	4·0	283	30	4·9	3·5	333
0·6 „ . .													31	5·2	1·8	355	30	4·9	4·0	296	30	4·7	3·3	322
0·9 „ . .	31	3·5	1·9	004	30	3·8	1·4	004	31	3·5	1·1	002	30	5·4	1·8	349	27	4·6	2·8	308	29	4·4	2·7	323
1·5 „ . .	31	5·4	3·3	030	30	4·8	2·9	360	31	5·1	3·4	028	23	4·4	1·8	043	21	4·2	1·8	032	27	4·4	0·9	015
2·1 „ . .	31	7·0	4·2	034	30	5·0	3·5	009	31	5·7	3·9	026	18	4·0	2·3	083	20	5·1	2·1	064	22	5·4	2·1	061
3·0 „ . .	30	5·7	2·1	018	27	5·5	2·0	002	28	5·3	2·1	317	15	4·0	1·1	152	17	4·6	2·1	086	20	5·1	2·4	077
3·6 „ . .	29	5·6	2·4	006	26	6·0	2·5	326	20	5·3	2·5	323	1	5·0	5·0	135	17	4·6	1·0	058	4	4·0	0·6	239
4·5 „ . .	28	7·4	3·6	321	25	7·6	3·7	314	6	6·1	2·3	281					16	3·9	1·5	067				
5·4 „ . .	26	8·8	4·9	309	25	8·8	5·2	310	1	13·5	13·5	270					14	4·7	0·7	116				
6·0 „ . .	26	10·1	5·6	294	23	10·3	6·6	296	1	16·0	16·0	275					13	5·0	1·5	145				
7·2 „ . .	2	12·7	12·7	277	22	10·7	7·6	281									5	5·6	2·8	086				
9·0 „ . .					12	12·5	10·9	266									1	10·5	10·5	274				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	2·5	337	31	6·0	4·2	279	31	3·3	2·5	318	31	0·7	0·4	037	31	2·4	0·6	127	31	1·4	1·1	039
0·15 a.g. .	31	7·2	4·7	349	31	6·2	4·6	271	31	6·1	4·7	317	31	6·4	4·8	005	27	3·7	1·2	086	31	5·6	4·1	037
0·3 a m.s.l. .	31	7·2	4·5	352	31	6·1	4·3	278	31	6·7	5·0	324	31	5·9	2·9	013	27	3·6	1·5	073	31	5·2	3·3	044
0·6 „ . .	31	6·8	3·3	345	31	5·0	3·1	310	31	6·5	4·3	339	31	4·3	0·9	099	26	4·0	1·7	065	31	4·1	1·7	095
0·9 „ . .	29	5·9	3·2	018	31	4·6	3·1	338	31	5·9	3·6	355	31	4·5	1·2	106	23	4·7	2·2	060	31	4·0	1·2	092
1·5 „ . .	28	5·0	3·5	059	31	5·7	4·3	012	31	5·7	3·6	035	31	4·3	0·8	137	14	5·9	3·9	053	31	4·5	0·7	095
2·1 „ . .	28	5·1	2·8	060	29	5·6	4·1	016	31	5·4	3·3	050	31	4·1	0·9	147	12	6·7	4·2	059	31	4·0	0·3	048
3·0 „ . .	27	5·2	1·1	076	29	5·5	2·5	005	29	5·4	1·6	025	31	4·0	1·3	195	10	5·4	2·4	010	31	4·0	0·4	150
3·6 „ . .	14	4·5	0·8	359	29	6·2	2·6	002	16	5·2	1·6	360	31	3·8	1·4	179	7	5·2	2·3	057	31	4·1	1·3	160
4·5 „ . .	5	4·0	1·5	350	28	6·7	1·9	013	12	4·7	2·3	342	31	3·8	1·5	151	5	5·2	1·8	126	31	4·2	1·8	176
5·4 „ . .	2	3·5	3·3	285	27	7·6	2·0	350	5	6·1	2·4	339	31	4·1	1·5	123	4	4·7	3·2	085	31	4·0	1·4	186
6·0 „ . .					27	8·1	2·3	343	2	5·5	5·5	287	31	3·9	1·8	118	3	3·0	0·7	152	31	3·5	1·7	173
7·2 „ . .					23	7·6	3·0	310					31	3·6	1·8	115	3	4·3	1·3	150	31	3·7	1·2	144
9·0 „ . .					20	8·0	4·4	257					29	4·0	2·0	142	2	4.5	3·2	103	31	3·8	0·9	117

Station	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	31	0·4	0·2	340
0·15 a.g. .	28	2·9	1·0	072
0·3 a.m.s.l. .	28	3·9	1·5	088
0·6 „ . .	28	4·7	2·0	086
0·9 „ . .	28	5·0	2·4	083
1·5 „ . .	27	5·2	2·4	064
2·1 „ . .	25	5·3	1·3	026
3·0 „ . .	20	5·0	0·6	142
3·6 „ . .	16	4·8	0·9	133
4·5 „ . .	13	4·5	2·0	092
5·4 „ . .	8	5·0	2·7	088
6·0 „ . .	7	5·1	2·6	099
7·2 „ . .	5	7·6	3.8	119
9·0 „ . .	1	11·5	11·5	240

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

October, 1961 (Asvina 9— Kartika 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	0530 hr.			
10·5	1	5·5	5·5	080
12·0	1	6·5	6·5	165
	1730 hr.			
10·5	1	18·5	18·5	260
	AHMEDABAD			
	0530 hr.*			
10·5	24	8·7	7·1	260
12·0	23	9·8	7·3	263
14·1	12	8·8	5·2	250
16·2	7	7·0	1·8	014
18.0	2	6·7	6·6	345
21·0	2	7·5	5·3	022
24.0	2	6·0	5·8	073
	1130 hr.			
10·5	5	4·7	1·5	236
12·0	3	4.8	3·6	298
14·1	1	7·0	7·0	135
	1730 hr.*			
10·5	23	7·7	6·3	247
12·0	21	8·6	5·9	245
14·1	10	3·8	5·9	257
16·2	4	6·7	3·2	346
18.0	2	7.0	6·9	305
	AMAUSI			
	1730 hr.			
10·5	1	13·5	23·5	235
	AMBALA			
	0530 hr.			
10·5	3	20·5	19·7	232
12·0	2	23·5	22·4	237
14·1	2	27·7	26·5	241
16·2	2	24·5	24·5	252
	ANANTAPUR			
	0530 hr.			
10·5	1	6·0	6·0	110
12·0	1	5·5	5·5	130
	1730 hr.			
10·5	3	7·2	6·1	129
12·0	1	4·5	4·5	165
14·1	1	8·5	8·5	095

Ht. in Km.	n	V	v	D
	BAGHDOGRA			
	0530 hr.			
10·5	4	8·5	8·3	271
12·0	2	7·0	4·5	294
14·1	1	8·5	8·5	015
	1730 hr.			
10·5	1	19·5	19·5	290
	BAHRAICH			
	0530 hr.			
10 5	3	13·0	12·8	250
12·0	1	13·0	13·0	265
	1730 hr.			
10·5	12	29·2	28·2	265
12·0	10	25·7	24·7	267
14·1	6	21·0	20·3	265
16 2	1	11·5	11·5	255
	BAIRAGARH			
	0530 hr.			
10·5	6	12·4	12·0	256
12·0	5	11·0	9·4	243
14·1	4	5·7	5·5	246
16·2	4	3·3	1·1	072
18·0	4	3·5	2·9	088
21·0	3	7·8	5·8	115
24·0	1	17·0	17·0	110
27.0	1	8·0	8·0	135
	1730 hr.			
10·5	3	10·3	10·2	262
12·0	1	11·0	11·0	285
14·1	1	9·0	9·0	280
	BAJPE			
	0530 hr.			
10·5	2	8·3	8·1	108
12·0	1	5·5	5·5	080
	1730 hr.			
10·5	5	9·6	9·1	099
12·0	4	10·3	10·1	087
	BAMRAULI			
	0530 hr.*			
10·5	22	12·7	12·2	255
12·0	17	13·1	11·8	256
14·1	5	14·6	12·9	259

Ht. in Km.	n	V	v	D
	0530 hr.			
16·2	2	11·3	10·5	260
18·0	1	13·0	13·0	265
	1130 hr.			
10·5	5	20·4	20·4	258
12·0	1	40·0	40·0	251
	1730 hr.*			
10·5	27	16·4	15·4	250
12·0	24	17·2	15·6	250
14·1	12	15·5	13·8	260
16·2	1	8·5	8·5	260
	BANGALORE			
	0530 hr.			
10·5	13	7·1	7·0	096
12·0	10	9·5	8·8	103
14·1	8	15·4	15·1	101
16·2	6	12·9	11·3	097
18·0	5	7·0	5·6	104
21·0	2	3·7	1·1	285
	1730 hr.			
10·5	8	10·2	9·0	112
12·0	6	12·3	11·0	111
14·1	5	16·6	14·0	099
16·2	4	11·4	11·3	111
18·0	3	4·0	0·9	115
21·0	2	5·3	5·1	130
24·0	1	2·5	2·5	040
	BAREILLY			
	1730 hr.			
10·5	3	30·5	27·3	257
12·0	2	17·7	17·3	283
14·1	1	19·0	19·0	230
16·2	1	14·5	14·5	235
	BEGUMPET			
	0530 hr.			
10·5	3	5·2	5·2	093
12·0	2	10·7	9·3	147
14·1	1	9·0	9·0	155
16·2	1	10·5	10·5	105
	1730 hr.			
10·5	2	6·7	5·6	237
12·0	2	6·7	5·9	220

Ht. in Km.	n	V	v	D
	BHAGALPUR			
	0530 hr.			
10·5	8	8·9	3·8	220
12·0	5	9·7	3·9	250
14·1	4	7·3	3·9	145
16·2	2	9·7	1·3	160
18·0	2	9·3	9·3	098
	BHUBANESHWAR			
	1730 hr.			
10·5	1	7·0	7·0	195
12·0	1	10·5	10.5	235
	BIKANER			
	1730 hr.			
10·5	2	27·7	26·1	268
	DARJEELING			
	0530 hr.			
10·5	3	7·7	7·2	271
12·0	2	6·0	5·3	283
14·1	2	8·3	6·3	265
16·2	2	5·0	5·0	069
18·0	1	7·0	7·0	060
	1730 hr.			
10·5	4	19·4	19·3	279
12·0	3	23·7	23·7	280
14·1	2	12·7	12·6	272
	DUM DUM			
	0530 hr*			
10·5	22	10·3	4·0	185
12·0	19	11·3	2·3	171
14·1	15	11·2	3·3	144
16·2	5	8·3	4·6	139
	1130 hr.			
10·5	1	17·0	17·0	235
12·0	1	17·0	17·0	220
14·1	1	5·5	5·5	220
16·2	1	4·0	4·0	010
	1730 hr.*			
10·5	26	11·3	5·2	228
12·0	22	10·7	4·1	230

Ht. in Km.	n	V	v	D
14·1	10	11·9	3·5	258
16·2	3	6·8	2·7	311
18·0	1	8·0	8·0	065
	GADAG			
	0530 hr.			
10·5	5	7·4	2·6	164
12·0	4	5·5	2·9	176
14·1	3	8·8	4·6	172
16·2	2	7·5	4·3	160
18·0	1	4·0	4·0	115
21·0	1	6·5	6·5	070
	1730 hr.			
10·5	7	6·6	5·2	090
12·0	4	5·9	5·6	103
14·1	4	11·7	11·5	105
16·2	3	10·0	10·0	106
18·0	2	11·3	11·3	079
	2330 hr.			
10·5	1	3·5	3·5	180
	GANNAVARAM			
	0530 hr.			
10·5	4	8·5	7·9	111
12·0	3	10·2	10·1	099
	1730 hr.			
10·5	2	7·7	7·7	148
12·0	1	2·5	2·5	150
14·1	1	6·5	6·5	135
	GAUHATI			
	0530 hr.*			
10·5	24	14·2	11·6	252
12·0	24	15·6	13·1	251
14·1	15	13·2	10·1	261
16·2	4	11·1	5·7	331
	1130 hr.			
10·5	3	11·7	11·2	168
12·0	3	7·3	3·5	178
14·1	3	8·0	2·3	312
16·2	1	3·5	3·5	280
18·0	1	3·5	3·5	125
21·0	1	13·0	13·0	165
24·0	1	15·5	15·5	160

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	GAUHATI			
	1730 hr.*			
10·5	19	14·2	11·9	246
12·0	17	12·7	10·2	250
14·1	10	6·7	3·9	288
16·2	3	11·2	5·2	310
	GOPALPUR			
	0530 hr.			
10·5	1	10·5	10·5	105
	GORAKHPUR			
	0530 hr.			
10·5	8	13·4	12·8	261
12·0	3	9·7	9·6	270
	1730 hr.			
10·5	6	18·1	17·5	258
12.0	4	15·5	14·8	260
14.1	2	9·7	8·3	265
	GWALIOR			
	0530 hr.			
10·5	12	16·0	15·4	257
12·0	6	11·3	11·0	246
14·1	4	9·7	9·3	222
16·2	1	4·0	4·0	195
	1730 hr.			
10·5	9	22·2	22·0	251
12·0	6	13·2	13·2	263
14·1	2	13·5	12·1	236
	IMPHAL			
	1730 hr.			
10·5	1	1·5	1·5	035
12·0	1	3·5	3·5	015
	JABALPUR			
	0530 hr.			
10·5	1	12·5	12·5	255
	1730 hr.			
10·5	1	11·5	11·5	255
	JODHPUR			
	0530 hr.*			
10·5	13	22·1	21·3	259
12·0	7	17·1	15·0	268
14·1	4	21·1	20·7	256

Ht. in Km.	n	V	v	D
	1130 hr.			
10·5	1	22·5	22·5	250
12·0	1	23·0	23·0	235
	1730 hr.*			
10·5	11	16·2	14·1	269
12·0	5	18·6	15·5	270
14·1	2	14·5	13·9	242
	MADRAS			
	0530 hr.*			
10·5	26	7·2	5·8	099
12·0	25	9·0	8·2	093
14·1	23	13·2	12·2	095
16·2	18	13·5	12·4	103
18·0	9	14·0	12·6	094
21·0	4	6·3	0·6	023
	1130 hr.			
10·5	6	8·2	8·2	092
12·0	5	9·9	9·8	073
14·1	3	8·0	7·8	084
16·2	3	14.7	14·4	095
18·0	2	2·7	2·7	088
	1730 hr.*			
10·5	27	7·9	6·7	103
12·0	26	11·5	10·1	103
14·1	22	15·0	13·9	102
16·2	20	10·8	8·6	106
18·0	12	7·7	5·2	103
21·0	6	11·8	10·7	115
	MINICOY			
	0530 hr.			
10.5	7	7.7	7.2	102
12·0	3	11.9	11.1	079
14·1	1	25·5	25·5	070
	1730 hr.			
10·5	9	6·4	0·5	100
12·0	7	8·8	7·9	095
14·1	4	12·0	11·7	087
16·2	2	12·7	11·5	102
18·0	1	6·5	6·5	250

Ht. in Km.	n	V	v	D
	NAGPUR			
	0530 hr.*			
10·5	30	9·1	5·6	245
12·0	28	9·3	3·4	225
14·1	26	10·2	2·4	170
16·2	22	9·4	5·9	115
18·0	16	9·5	5·5	102
21·0	2	10·3	10·3	102
	1130 hr.			
10·5	5	14·9	12·0	234
12·0	4	11·1	8·0	234
14·1	3	10·2	6·8	123
16·2	3	8·0	5·8	096
18·0	2	10·7	10·5	101
21·0	1	19·0	19·0	100
24·0	1	23·5	23·5	100
	1730 hr.*			
10·5	28	10·3	6·7	243
12·0	27	10·9	5·1	231
14·1	26	11·5	3·3	250
16·2	20	11·9	2·9	117
18·0	15	11·2	7·3	092
21·0	8	8·8	6·4	098
24·0	2	7·3	5·6	105
	NEW DELHI			
	0530 hr.*			
10·5	30	22·2	21·0	260
12·0	30	24·1	22·7	258
14·1	28	22·6	22·0	258
16.2	19	19·8	18.1	260
18.0	13	9·3	7·8	262
21.0	2	4·3	3·5	230
	1130 hr.			
10·5	5	25·6	24·3	276
12·0	4	29·1	28·8	269
14·1	4	31·9	30·9	267
16·2	2	31·0	31·0	249
18·0	2	27·7	27·7	248
21.0	1	9·5	9·5	260
24·0	1	3.5	3.5	335
	1730 hr.*			
10·5	29	22·3	21·4	256
12·0	26	23·8	21·4	255
14·1	25	21·2	20·2	255

Ht. in Km.	n	V	v	D
	1730 hr.*			
16·2	18	11·7	10·9	260
18·0	16	7·4	4·2	260
21·0	7	9·4	1·7	069
24.0	4	10·5	9.0	112
	POONA			
	1730 hr.			
10·5	6	7·3	5.2	252
12·0	4	8.9	2.9	242
14·1	3	6.5	5.9	170
16.2	1	11·5	11·5	145
18·0	1	8·5	8·5	135
	PORT BLAIR			
	0530 hr.*			
10·5	3	5.1	3.1	141
12·0	1	3.5	3.5	150
14.1	1	4.7	4.7	070
16.2	1	4.7	4.7	110
18.0	1	1.5	1.5	085
21·0	1	4.0	4.0	105
	1730 hr.*			
10.5	2	7.5	7.5	089
12.0	1	15.5	15.5	080
14.1	1	21.0	21.0	085
16·2	1	12.5	12.5	110
	RAIPUR			
	0530 hr.			
10.5	1	5·5	5.5	265
12.0	1	5·0	6·0	230
14.1	1	4.0	4.0	210
16·2	1	3.5	3.5	230
	1730 hr.			
10·5	1	12·5	12·5	270
	SANTA CRUZ			
	0530 hr.*			
10·5	24	8·1	2·4	228
12·0	23	9·8	2·6	187
14·1	16	10·2	4·8	170
16·2	7	11·4	10·0	120
	1130 hr.			
10·5	4	7·9	6·5	220
12·0	2	10·3	9·7	211
14·1	2	8·3	4·5	205
16·2	1	11·0	11·0	195

TABLE V—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds above 9.0 Km. above mean sea level

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	SANTA CRUZ—*Contd.*			
	1730 hr.*			
10·5	23	7·7	1·5	220
12·0	22	8·7	3·0	211
14·1	11	10·0	5·1	134
16·2	6	13·1	8·3	138
18·0	4	10·7	7·2	075
21·0	1	2·5	2·5	240
	TIRUCHIRAPALLI			
	0530 hr.			
10·5	3	8·7	7·9	108
	1730 hr.			
10·5	4	11·4	11·2	091
12·0	3	13·5	13·3	018
14·1	2	20·5	20·3	088

Ht. in Km.	n	V	v	D
	TRIVANDRUM			
	0530 hr.*			
10·5	26	9·0	7·9	092
12·0	25	13·1	12·3	091
14·1	19	14·3	13·4	087
16·2	9	13·2	12·7	083
18·0	7	11·1	5·9	103
21·0	2	5·3	5·3	242
	1130 hr.			
10·5	2	9·7	9·7	088
12·0	1	7·0	7·0	125
14·1	1	4·5	4·5	340
	1730 hr.*			
10·5	26	10·2	8·7	092
12·0	23	13·3	12·8	088
14·1	20	18·2	16·5	091
16·2	13	9·2	8·5	090

Ht. in Km.	n	V	v	D
18·0	7	6·5	4·2	165
21·0	3	5·2	4·4	292
	UDAIPUR			
	1730 hr.			
10·5	3	19·0	18·6	247
12·0	2	27·3	27·1	257
	VERAVAL			
	1730 hr.			
10·5	12	7·6	3·9	246
12·0	7	8·4	6·4	227
14·1	3	6·7	3·9	149
	VISAKHAPATNAM			
	0530 hr.*			
10·5	28	4·2	1·4	129
12·0	25	5·3	2·2	144
14·1	22	9·1	7·0	114

Ht. in Km.	n	V	v	D
16·2	14	9·1	6·5	093
18·0	6	5·9	5·7	093
21·0	1	6·0	6·0	135
	1130 hr.			
10·5	2	5·5	5·1	120
12·0	2	7·7	6·0	100
14·1	1	14·0	14·0	120
16·2	1	16·5	16·5	105
18·0	1	22·5	22·5	110
21·0	1	15·5	15·5	065
	1730 hr.*			
10·5	29	4·9	1·2	146
12·0	29	5·4	1·9	111
14·1	24	7·8	6·0	097
16·2	16	7·8	6·3	103
18·0	8	9·2	5·5	094
21·0	3	2·3	0·8	262

RADIOSONDE DATA

List of Radiosonde Stations in India

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

Serial No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmedadad	Fan type	20th July, 1961	00 and 12	
2	Allahabad	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay	Clock type	7th September, 1954	00 and 12	
5	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13-12-46 to 30-11-47.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras	Fan type	29th June, 1946	00 and 12	
9	Nagpur	Fan type	1st October, 1946	00 and 12	
10	New Delhi	Clock type	3rd December, 1943	00 and 12	
11	Port Blair	Fan type	4th December, 1946	00 and 12	
12	Trivandrum	Fan type	1st July, 1947	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

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

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (1003 mb.)						ALLAHABAD (998 mb.)						BANGALORE (909 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	295·1	300	290	290·0	29	098	294·7	300	290	293·2	30	921	293·1	296	291	291·3
1000	30	079	..	..	..	..	29	077	..	..	..	..	30	095	..	..	..	..
900	30	1001	294·5	300	290	282·2	29	996	293·2	297	290	286·1	30	1007	292·3	296	291	290·6
850	30	1494	290·0	297	284	280·2	29	1488	290·3	294	287	281·8	30	1498	290·2	293	288	286·6
800	30	2026	287·2	294	283	277·7	29	2024	287·6	292	282	277·3	30	2014	288·0	291	285	283·3
700	30	3128	281·7	285	278	267·7	29	3122	282·0	286	274	267·9	30	3133	281·8	286	279	277·5
600	30	4386	275·0	281	269	261·4	29	4386	276·2	280	269	258·4	30	4395	275·5	279	273	269·1
500	30	5837	266·1	271	261	..	29	5842	268·3	272	264	..	30	5845	267·1	270	264	262·0
400	30	7549	256·1	263	250	..	29	7563	257·6	262	253	..	30	7563	256·4	263	253	..
300	26	9654	241·3	250	235	..	25	9684	243·5	250	238	..	30	9660	242·0	246	236	..
250	24	10913	231·0	238	224	..	24	10960	234·4	243	224	..	29	10923	232·0	237	227	..
200	21	12401	220·8	230	213	..	22	12458	224·3	231	214	..	27	12392	218·6	226	212	..
175	14	13235	213·2	220	205	..	18	13337	218·2	225	213	..	27	13232	212·3	221	206	..
150	13	14223	207·0	215	200	..	17	14299		219	207	..	24	14177	205·2	215	197	..
125	9	15329	203·1	214	196	..	11	15451	206·5	212	196	..	22	15260	199·1	210	190	..
100	8	16606	199·9	208	193	..	9	16745	201·9	205	193	..	20	16550	197·4	205	188	..
80	7	17920	203·9	209	196	..	6	18158	203·2	206	198	..	20	17896	201·9	211	193	..
70	5	18748	206·4	214	200	..	..	..	..	..	..	..	20	18693	205·8	213	193	..
60	..	..	..	..	..	..	..	..	..	..	..	..	19	19624	208·9	217	197	..
50	..	..	..	..	..	..	..	..	..	..	..	..	18	20729	213·0	220	204	..
40	..	..	..	..	..	..	..	..	..	..	..	..	7	22093	216·4	222	213	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1007 mb.)						CALCUTTA (1008 mb.)						GAUHATI (1005 mb.)					
Surface	30	013	296·5	301	294	294·1	30	006	297·6	301	293	295·4	31	049	296·4	300	291	295·7
1000	30	075	..	..	..	..	29	079	..	..	..	..	31	091	..	..	..	..
900	30	997	294·1	297	291	287·9	29	995	292·1	296	286	292·1	31	1008	293·3	298	289	289·6
850	30	1491	291·2	295	287	284·7	29	1485	289·3	293	283	285·6	31	1501	290·4	296	285	286·2
800	30	2008	287·8	290	284	281·2	29	2000	286·6	291	281	283·0	31	2017	287·7	292	281	283·4
700	30	3125	281·3	285	279	273·2	29	3115	281·5	285	278	275·6	31	3135	281·0	285	276	276·7
600	30	4387	275·4	279	271	263·9	29	4376	274·8	279	271	268·3	31	4392	274·7	279	271	269·3
500	30	5844	268·2	273	265	..	29	5825	266·6	272	263	261·3	31	5842	267·1	271	263	..
400	30	7567	258·0	263	255	..	29	7542	256·8	267	253	..	31	7558	257·0	262	253	..
300	27	9683	243·8	247	240	..	21	9667	243·5	247	240	..	27	9670	243·8	250	238	..
250	23	10965	234·7	239	233	..	19	10945	234·8	239	231	..	27	10948	234·6	241	229	..
200	21	12467	223·5	229	220	..	18	12441	223·9	229	220	..	26	12452	223·9	229	219	..
175	19	13325	216·8	222	215	..	15	13319	217·5	223	213	..	21	13333	218·3	225	214	..
150	16	14294	209·7	215	207	..	13	14227	210·8	215	207	..	16	14215	212·2	218	207	..
125	16	15408	202·9	208	197	..	6	15422	205·3	210	201	..	9	15363	205·1	209	202	..
100	7	16721	198·3	205	190	..	..	..	..	..	..	..	8	16681	199·0	205	195	..
80	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (985 mb.)						MADRAS (1007 mb.)						NAGPUR (973 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point.
Surface	26	218	293·0	289	289	282·7	31	015	298·5	300	296	296·7	31	311	293·3	297	289	291·7
1000	26	036	..	..	..	..	31	073	..	..	..	..	31	074	..	..	..	..
900	26	1004	296·4	300	292	279·5	31	994	293·5	296	289	289·2	31	991	294·0	298	291	286·2
850	26	1500	292·9	298	288	275·5	31	1487	290·6	293	287	285·9	31	1484	290·8	295	286	283·6
800	26	2019	288·6	295	282	272·8	31	2004	287·5	291	283	282·8	31	2001	287·9	293	282	279·3
700	26	3136	281·2	287	274	264·8	31	3121	281·1	283	277	276·7	31	3122	281·9	286	277	267·8
600	26	4395	275·1	280	271	251·7	30	4379	274·2	277	267	269·0	31	4387	275·6	281	272	263·4
500	24	5845	267·0	272	260	..	30	5824	266·1	270	261	..	31	5843	268·1	273	264	..
400	23	7556	256·2	260	250	..	30	7532	255·8	261	251	..	31	7560	256·7	264	251	..
300	20	9666	243·3	250	233	..	30	9626	240·3	248	233	..	31	9664	241·7	249	233	..
250	12	10942	235·3	243	228	..	28	10889	230·1	238	221	..	31	10927	230·9	237	222	..
200	10	12468	225·4	229	221	..	27	12359	217·8	227	207	..	31	12399	218·6	225	211	..
175	8	13341	220·0	224	215	..	24	13181	211·2	219	205	..	30	13225	211·9	218	202	..
150	5	14326	210·2	217	200	..	23	14177	204·6	213	192	..	30	14179	204·3	213	194	..
125	..	..	..	..	..	..	20	15126	200·3	207	194	..	28	15281	199·1	210	193	..
100	..	..	..	..	..	..	18	16551	198·2	208	191	..	23	16557	196·8	208	185	..
80	..	..	..	..	..	..	10	17914	201·4	211	196	..	20	17878	198·9	207	191	..
70	..	..	..	..	..	..	8	18617	202·1	208	196	..	17	18664	201·4	213	194	..
60	..	..	..	..	..	..	8	19597	204·6	211	197	..	13	19538	204·5	216	195	..
50	..	..	..	..	..	..	7	20662	208·4	213	200	..	10	20567	206·9	219	198	..
40	..	..	..	..	..	..	5	22054	210·2	215	203	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI (985 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1002 mb.)					
Surface	31	209	293·6	299	287	290·4	31	079	296·7	298	295	296·2	31	064	297·5	299	296	295·3
1000	31	081	..	..	..	..	31	087	..	..	..	..	31	080	..	..	..	..
900	31	998	294·6	300	286	281·9	31	1006	292·7	295	290	290·8	31	999	292·1	295	290	287·5
850	31	1492	291·4	298	283	279·5	31	1496	290·3	293	286	287·5	31	1490	289·6	291	287	285·4
800	31	2009	287·8	295	281	275·4	31	2013	287·4	291	285	284·9	31	2005	287·1	289	284	280·8
700	31	3124	281·1	289	274	265·0	31	3129	281·2	285	278	279·0	31	3123	281·5	285	279	273·8
600	31	4379	273·8	280	266	255·9	30	4385	274·4	278	269	271·6	31	4383	274·3	277	271	264·2
500	31	5821	265·6	272	256	..	30	5834	266·5	271	261	..	31	5827	265·8	269	263	..
400	31	7525	255·6	261	247	..	29	7548	256·3	265	251	..	31	7533	255·2	263	250	..
300	31	9622	242·2	249	233	..	29	9646	240·4	250	233	..	30	9619	238·8	245	231	..
250	31	10891	233·4	239	227	..	28	10903	230·5	242	222	..	25	10871	228·8	236	217	..
200	31	12380	223·1	229	218	..	26	12363	217·4	232	209	..	23	12334	216·4	223	209	..
175	31	13244	217·0	223	211	..	23	13213	211·7	225	199	..	21	13155	210·2	216	203	..
150	31	14211	211·0	217	204	..	20	14161	204·5	220	194	..	20	14095	203·3	209	194	..
125	27	15336	205·0	213	200	..	19	15218	198·9	210	190	..	17	15177	199·5	205	195	..
100	21	16658	200·0	211	194	..	14	16495	197·1	210	190	..	12	16514	199·6	208	189	..
80	12	17946	200·1	208	192	..	9	17826	199·9	217	191	..	11	17736	203·9	213	197	..
70	12	18751	205·5	211	196	..	6	18641	197·3	204	190	..	9	18599	205.8	213	197	..
60	8	19678	210·0	214	204	..	..	..	..	..	..	..	6	19543	207·3	214	201	..
50	..	..	..	..	..	..	..	..	..	..	..	..	6	20660	212·3	223	208	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1003 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point
Surface	31	041	298·6	300	297	296·2
1000	31	071	..	..	..	..
900	31	993	293·2	297	291	290·6
850	31	1485	290·6	296	286	287·2
800	31	2002	287·6	292	280	283·4
700	31	3122	281·5	287	273	277·1
600	31	4381	274·7	279	267	270·7
500	31	5831	266·5	271	256	..
400	31	7539	255·2	259	244	..
300	30	9638	240·3	245	232	..
250	29	10893	229·8	237	218	..
200	27	12357	217·5	229	202	..
175	25	13183	211·1	221	198	..
150	25	14127	203·7	214	193	..
125	19	15226	198·6	208	188	..
100	16	16496	195·3	203	184	..
80	9	17782	199·7	209	185	..
70	9	18567	203·7	208	188	..
60	5	19422	206·6	214	193	..
50						
40						
30						
20						
10						

RADIOSONDE DATA

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

(B) From Ascents at 1200 hrs. G.M.T.

October, 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (1001mb.)						ALLAHABAD (997 mb.)						BANGALORE (907 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	305·3	308	302	290·6	31	098	300·9	305	297	293·3	30	921	298·1	301	294	291·4
1000	31	069	..	..	..	..	31	068	..	..	..	..	30	060	..	..	..	..
900	31	1003	296·3	302	289	284·4	31	994	294·8	300	290	288·3	30	989	297·3	300	293	290·4
850	31	1499	291·7	297	285	281·8	31	1488	291·2	297	287	284·3	30	1486	292·7	296	289	287·8
800	31	2016	287·1	297	280	279·4	31	2005	287·9	294	283	280·2	30	2004	288·5	291	286	283·2
700	31	3132	280·7	285	275	270·0	31	3126	283·3	287	277	270·7	30	3124	281·2	283	279	278·2
600	31	4388	274·1	280	268	258·8	31	4394	277·1	281	271	262·6	29	4383	274·4	277	272	268·1
500	31	5833	266·1	273	259	..	31	5856	269·1	274	265	..	29	5832	267·1	270	265	..
400	29	7535	254·5	268	246	..	31	7583	258·8	263	253	..	29	7544	256·2	259	252	..
300	29	9620	239·4	249	293	..	30	9703	244·4	251	237	..	29	9638	240·4	249	235	..
250	23	10885	230·7	239	222	..	27	10987	235·5	241	230	..	29	10894	229·4	236	223	..
200	21	12368	219·8	228	208	..	25	12491	225·2	231	219	..	28	12359	217·9	227	208	..
175	13	13129	211·4	213	201	..	23	13355	218·7	224	213	..	26	13186	211·7	221	203	..
150	11	14109	207·4	216	196	..	17	14340	212·5	218	208	..	26	14136	205·2	215	194	..
125	8	15326	201·3	207	194	..	10	15420	205·7	208	202	..	25	15214	200·6	209	192	..
100		..	..	..	..	..	8	16768	202·7	206	199	..	25	16527	197·4	204	189	..
80		..	..	..	..	..	6	18151	205·8	213	199	..	20	17842	199·8	207	193	..
70		..	..	..	..	..	5	18958	210·0	217	204	..	19	18647	202·7	208	195	..
60		..	..	..	..	..	..	..	..	..	..	..	18	19568	205·4	212	197	..
50		..	..	..	..	..	..	..	..	..	..	..	15	20649	208·6	218	200	..
40		..	..	..	..	..	..	..	..	..	..	..	9	22032	211·4	217	204	..
30		..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1006 mb.)						CALCUTTA (1007 mb.)						GAUHATI (1003 mb.)					
Surface	31	013	302·5	306	300	295·9	29	006	301·0	305	296	296·8	31	049	300·0	303	297	297·8
1000	31	066	..	..	..	..	29	065	..	..	..	..	31	071	..	..	..	..
900	31	996	295·8	301	292	288·5	29	992	295·1	298	291	289·9	31	993	294·6	297	291	291·1
850	31	1491	292·8	297	289	284·2	29	1486	292·1	295	289	286·7	31	1487	291·6	295	287	287·3
800	31	2012	289·4	292	286	279·4	29	2002	289·0	292	285	283·8	31	2006	288·5	292	283	284·0
700	31	3136	283·0	286	280	272·8	29	3131	283·4	287	279	275·7	31	3127	282·5	286	277	276·3
600	31	4404	277·4	280	274	263·7	29	4400	276·8	281	273	267·0	31	4391	275·8	281	272	269·5
500	31	5872	270·2	273	267	..	29	5861	268·8	274	264	..	31	5846	267·6	273	263	264·4
400	31	7608	260·1	264	256	..	29	7587	258·2	265	253	..	31	7565	257·5	263	251	..
300	27	9746	246·2	251	241	..	26	9718	244·7	252	239	..	27	9680	243·5	249	237	..
250	25	11045	237·4	242	232	..	24	11000	235·7	243	229	..	24	10963	234·4	239	226	..
200	25	12566	226·9	234	222	..	24	12509	224·4	231	215	..	23	12462	223·7	229	215	..
175	23	13439	220·4	228	216	..	21	13383	218·0	225	207	..	19	13173	216·8	225	208	..
150	23	14421	213·4	220	203	..	15	14380	211·4	217	204	..	14	14273	210·4	217	200	..
125	17	15551	207·8	211	200	..	14	15497	204·6	210	197	..	8	15393	203·9	212	197	..
100	15	16859	202·6	208	197	..	10	16806	199·6	205	193	..	..	..	..	..	..	..
80	11	18221	204·1	214	193	..	5	18174	198·8	203	193	..	..	..	..	..	..	..
70	9	19577	208·6	218	195	..	..	..	..	..	..	..	..	..	..	..	..	..
60	6	19990	210·8	219	193	..	..	..	..	..	..	..	..	..	..	..	..	..
50	5	21088	214·0	227	193	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Preasure Surface mb.	JODHPUR Surf. Pr. (984 mb.)						MADRAS (1005 mb.)						NAGPUR (972 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.				No. of obs.	Ht. gpm.	Temperature °A.			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	27	218	306·0	310	301	281·9	31	015	301·3	303	293	297·0	31	311	301·0	304	297	291·6
1000	27	070	..	..	..	..	31	059	..	..	..	..	31	054	..	..	..	..
900	27	1011	299·2	307	294	278·6	31	986	294·6	297	292	289·5	31	986	296·3	299	293	286·9
850	27	1511	294·5	302	290	276·8	31	1482	291·5	295	289	286·5	31	1486	292·1	296	289	284·0
800	27	2029	289·0	297	285	274·0	31	2000	288·1	291	285	283·4	31	2005	288.6	293	285	280·7
700	27	3152	281·1	286	276	265·0	31	3121	282·1	285	279	275·9	31	3128	282·4	287	277	270·6
600	24	4410	275·1	280	269	254·7	31	4384	275·6	279	272	268·2	31	4395	276·4	280	273	260·8
500	23	5863	267·9	274	261	240·7	31	5835	266·9	271	263	..	31	5855	268·4	273	264	251·0
400	22	7577	256·8	265	252	..	31	7545	255·5	261	251	..	31	7575	257·0	263	253	..
300	16	9682	242·8	249	238	..	29	9630	239·9	247	233	..	31	9682	242·0	249	232	..
250	10	10968	235·2	241	233	..	26	10888	229·5	237	223	..	31	10947	231·2	238	219	..
200	..	..	..	..	..	..	24	12353	217·4	225	207	..	31	12421	219·0	227	209	..
175	..	..	..	..	..	..	22	13178	210·9	220	202	..	31	13262	212·8	222	203	..
150	..	..	..	..	..	..	22	14133	204·5	214	194	..	31	14214	206·1	216	196	..
125	..	..	..	..	..	..	20	15187	198·6	207	193	..	28	15285	200·8	207	187	..
100	..	..	..	..	..	..	19	16485	195·9	205	188	..	27	16598	196·4	202	189	..
80	..	..	..	..	..	..	14	17762	199·7	209	191	..	25	17863	197·9	207	191	..
70	..	..	..	..	..	..	10	18516	200·7	210	192	..	21	18674	199·5	210	192	..
60	..	..	..	..	..	..	8	19485	201·1	208	197	..	16	19601	203·7	213	194	..
50	..	..	..	..	..	..	8	20554	202·7	208	191	..	12	20714	208·3	218	200	..
40	..	..	..	..	..	..	..	..	..	..	..	..	5	22113	210·6	214	205	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	NEW DELHI (984 mb.)						PORT BLAIR (1000 mb.)						TRIVANDRUM (1001 mb.)					
Surface	31	209	301·9	307	293	290·8	31	079	298·5	300	296	296·9	31	064	300·7	302	298	296·4
1000	31	069	..	..	..	..	31	078	..	..	..	..	31	070	..	..	..	..
900	31	1000	296·7	304	290	283·5	31	997	293·5	296	291	290·2	31	994	293·5	297	291	289·2
850	31	1497	292·8	299	287	279·8	31	1489	290·5	293	287	287·2	31	1487	290·8	295	289	285·7
800	31	2017	289·0	295	283	277·6	31	2005	287·9	290	285	283·8	31	2008	287·7	291	285	283·1
700	31	3135	281·3	286	274	267·7	31	3124	282·4	286	277	277·6	31	3124	281·7	285	279	275·2
600	31	4393	274·5	280	267	259·2	31	4386	275·1	280	271	270·9	31	4385	274·8	279	271	267·0
500	31	5838	266·4	273	257	..	30	5838	267·0	272	261	..	31	5835	266·6	270	263	..
400	31	7547	255·5	263	247	..	30	7550	256·2	261	251	..	31	7546	255·8	261	252	..
300	30	9645	241·8	248	232	..	28	9638	240·1	255	232	..	29	9633	239·1	249	235	..
250	30	10916	233·3	239	225	..	26	10889	228·7	237	220	..	25	10885	229·1	236	225	..
200	29	12407	223·1	229	217	..	26	12344	215·8	225	207	..	23	12342	217·2	227	210	..
175	28	13262	217·3	223	212	..	24	13177	208·3	218	202	..	21	13181	210·6	215	207	..
150	28	14228	210·8	217	203	..	18	14130	201·5	212	194	..	20	14133	203·2	209	197	..
125	25	15355	204·0	211	196	..	13	15222	196·5	205	191	..	16	15222	198·6	206	187	..
100	23	16682	200·0	207	191	..	10	16500	198·0	207	191	..	12	16534	197·7	201	192	..
80	23	17994	202·2	213	193	..	7	17822	200·8	201	193	..	8	17854	201·9	206	195	..
70	18	18864	207·1	215	199	..	7	18630	203·2	204	194	..	7	18643	205·4	209	200	..
60	16	19765	210·1	217	201	..	5	19553	..	206	196	..	5	19613	207·6	211	200	..
50	13	20882	214·6	218	209	..	..	..	..	..	..	..	..	..	..	..	..	..
40	12	22322	218·7	223	213	..	..	..	..	..	..	..	..	..	..	..	..	..
30	8	24160	221·9	229	219	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From Ascents at 12 Hours GMT.

October 1961 (Asvina 9—Kartika 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1002 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	300.9	303	298	296.8
1000	31	061	..	..	..	..
900	31	986	293.5	298	290	289.6
850	31	1479	290.6	294	286	286.1
800	31	1996	287.8	291	284	283.2
700	31	3116	281.8	285	277	276.8
600	31	4378	275.0	279	271	268.4
500	31	5827	266.2	269	261	..
400	31	7532	254.6	260	247	..
300	31	9613	238.0	243	229	..
250	29	10854	227.5	236	217	..
200	29	12304	215.3	226	205	..
175	27	13124	208.4	220	199	..
150	26	14053	201.1	213	190	..
125	18	15139	195.5	207	187	..
100	17	16426	194.4	201	189	..
80	10	17762	197.2	207	189	..
70	10	18547	207.0	210	194	..
60	6	19507	202.8	212	197	..
50						
40						
30						
20						
10						

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

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

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

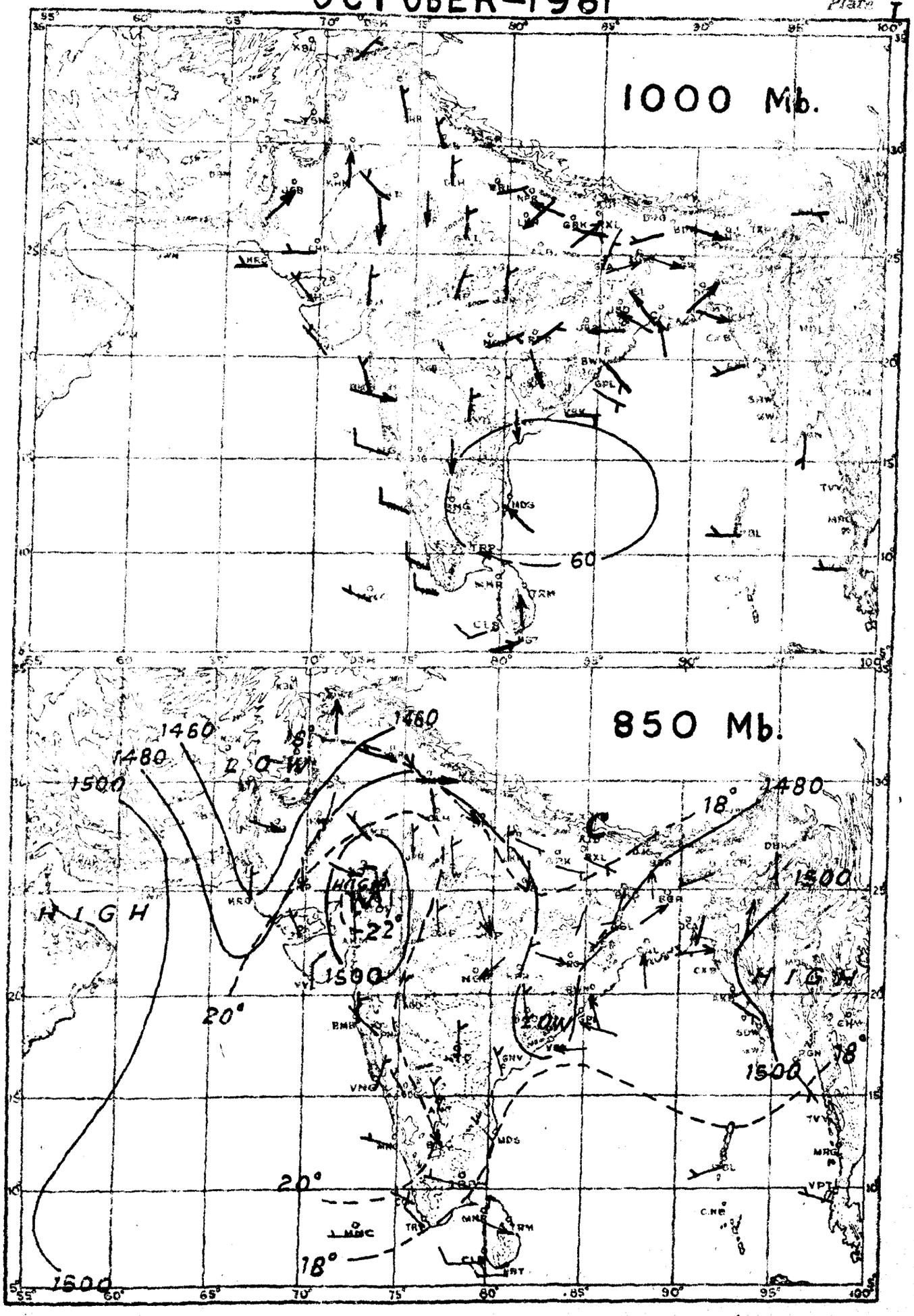
GIPN—S1—563 D.D.G. Obs. P./65—14-2-66—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I.Met.D.

OCTOBER-1961

Plate I



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

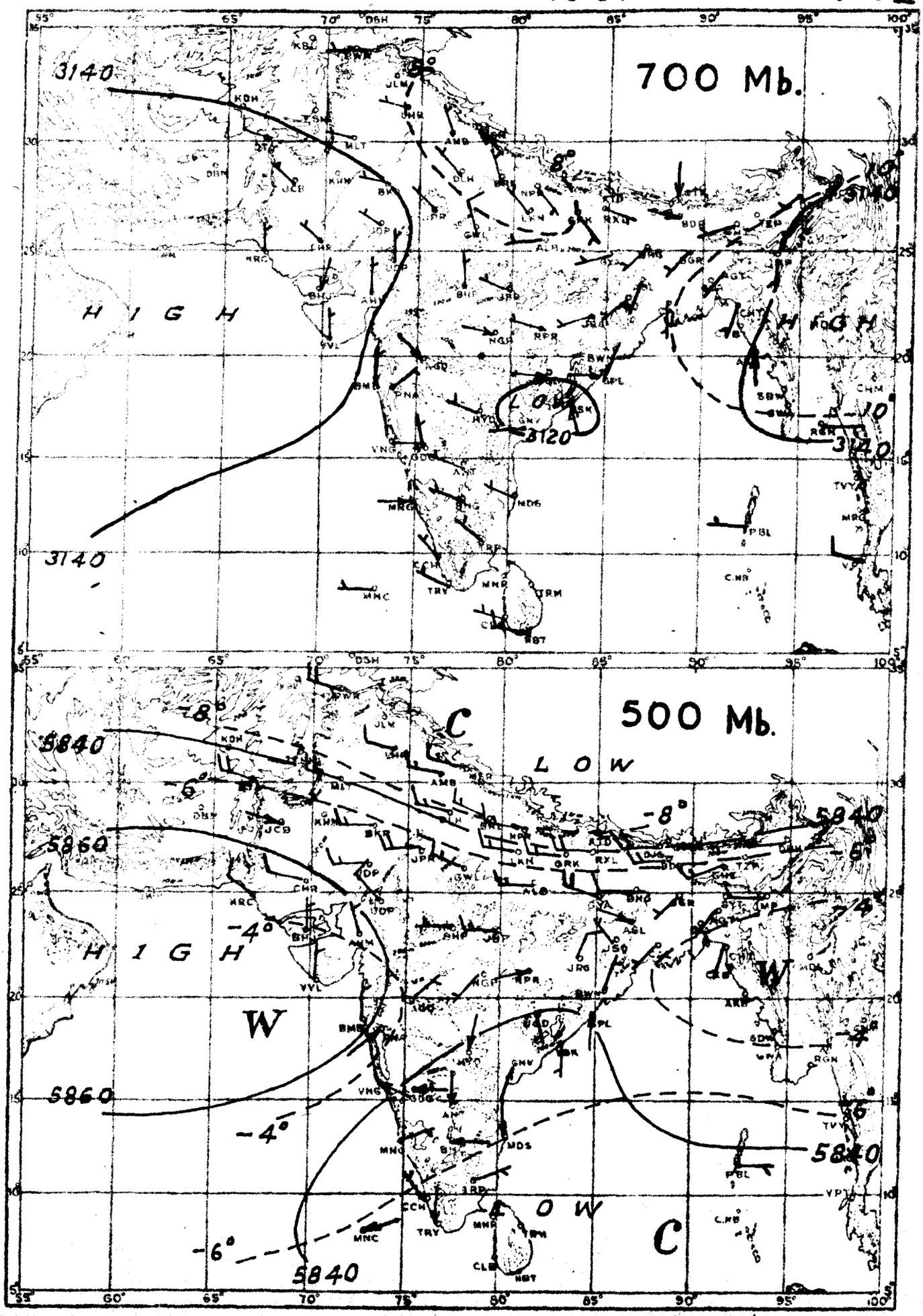
---------- Isotherms in degrees centigrade ———— Contours in geopotential metres.

G.P.Z.P. POONA, 1965

MONTHLY MEAN CONSTANT PRESSURE CHARTS

OCTOBER–1961

I. Met. D. Plate II



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

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

DPCC/2392(ii):10:65
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INDIA WEATHER REVIEW, 1961

Monthly Weather Report

NOVEMBER

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U. S. Dept. of Commerce

Published by authority of the Government of India

Chief features—

(i) Passage of three active westren disturbances; and

(ii) A prolonged spell of dry weather over the south Peninsula during the second half of the month.

The westren disturbance that lay over the Punjabs on 29th October moved away eastwards across the Westran Himalayas on 2nd November. A residual upper air cyclonic circulation, however, persisted over west Uttar Pradesh and neighbourhood till 7th and then moved away eastwards across Assam by 10th. Under its influence rain or snow occurred locally in Himachal Pradesh on 1st and at a few places in the hills of west Uttar Pardesh on 1st, 2nd and 8th. Scattered thundershowers accompanied by hail were also reported from Madhya Pradesh on three days in the first week of the month. According to press report, the hailstorms caused considerable damage to standing crops and death of a few persons and some cattle.

Under the influence of the easterly wave that moved across the south Peninsula towards the end of October, fairly widespread rain occurred in the exterme south Peninsula on 1st and 2nd. The rainfall gradually extended northeastwards to north coastal Andhra Pradesh, Telangana and Orissa by 4th and west Bengal and Assam by 6th. Cuddalore and Nellore reported 7 cm of rain each on 3rd and Ramagundam 7 cm and Hanamkonda 6 cm on 5th.

A well marked trough of low pressure developed over the south and central Bay of Bengal on 6th and persisted there till 8th. Under its influence, fairly widespread showers occurred in the Bay Islands between 6th and 8th. Port Blair reported 8 cm of rain on 6th and 7th and Maya Bandar and Long Island 10 cm each on 7th.

The rainfall activity increased over the south Peninsula between 12th and 16th. Rain or thundershowers were fairly widespread in the Madras State on 12th, 14th and 15th and occurred locally in Kerala on 13th, 15th and 16th and in the Madras State on 13th and 16th. Kanyakumari and Tuticorin reported 10 cm of rain each on 15th and 16th respectively.

A western disturbance moved into north Baluchistan on 13th. It lay over the Punjabs and north Rajasthan on 15th and moved away across the hills of the Punjab(I) and of west Uttar Pradesh on 17th. In association with it, thundershowers occurred locally in east Rajasthan on 15th. Rain or snow was local in Jammu and Kashmir on 16th and in Himachal Pradesh on 17th.

Another western disturbance lay over Baluchistan on 25th. Moving slowly eastnortheastwards, it lay over the Punjab (P) on 26th and the Punjab (I) on 27th and moved away eastwards across the Punjab hills and Himachal Pradesh on 28th. It caused a good spell of rain or snow in Jammu and Kashmir, the Punjab(I) and Himachal Pradesh on 27th and 28th. A few thundershowers were also reported from west Rajasthan and west Uttar Pradesh on 27th. Dalhousie reported 5 cm of rain on 27th.

Weather remained mainly dry over the south Peninsula between 17th and 29th. A low pressure wave from the east that moved across the Comorin area on 30th broke this spell and revived the northeast monsoon rains over the Madras State where fairly widespread showers occurred on that day.

Night temperatures were generally below normal in west Rajasthan during the first week and above normal in east Rajasthan during the second week and in west Madhya Pradesh during the first fortnight. In the wake of the western disturbance that moved across the Western Himalayas on 17th, night temperatures fell below normal in northwest India and west Uttar Pradesh on 18th, being appreciably so in north Rajasthan. The area of below-normal minimum temperature shifted by 20th to northeast India, where night temperatures continued below normal till the end of the month. Night temperature rose ahead of the last western distubance and were

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1—564 DDG Obs. (P)/65

above normal in northwest India and neigbourhood, being appreciably to markedly so in the Punjab(I) and north Rajasthan on 26th and 27th, and in northwest Madhya Pradesh on 27th and 28th. In the rear of the disturbance they again fell below normal in the Panjab(I) and north Rajasthan on 30th.

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The rainfall for the month was in large excess in the Panjab(I), Jammu and Kashmir and Telangana, in slight excess in the Bay Islands and normal in Assam, west Madhya Pradesh, coastal Andhra Pradesh and the Arabian Sea Islands. It was in slight defect in west Uttar Pradesh, east Madhya Pradesh, in moderate defect in Rajasthan, the Madras State and Kerala and in large defect in West Bengal, Orissa, Bihar State, east Uttar Pradesh, the Maharashtra State, Rayalaseema and the Mysore State. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands, coastal Mysore, Kerala and the Arabian Sea Islands, below normal in West Bengal, Orissa, Bihar Plateau, Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was above normal in the Bay Islands, west Madhya Pradesh and Gujarat Region and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in morning was above normal in the Bay Islands, Uttar Pradesh, the Punjab (I), east Rajasthan, west Madhya Pradesh and north Interior Mysore, below normal in Jammu and Kashmir and coastal Mysore and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Assam, west Uttar Pradesh, the Punjab(I), Jammu and Kashmir, east Rajasthan, west Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Vidarbha, the Madras State, the Mysore State and the Arabian Sea Islands, below normal in Gangetic West Bengal, Orissa, Bihar State, west Rajasthan and east Madhya Pradesh and normal over the rest of the country outside Himachal Pradesh.

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

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

POONA 5,
The 29th January 1962.

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

Errata to M.W.R. for November, 1961 (Kartika 10 - Agrahayana 9,1883 Saka)

Page No.	Station	Hour	Column	For	Read
Table II					
576	Tezpur		13	22.7	22.8
576	Agartala		3	0.4	-0.4
578	Varanasi (Babatpur)		21	(Blank)	0
578	Jammu		13	23.	23.0
578	Jammu (Aerodrome)		13	22.	22.8
579	Kota (Aerodrome)		5	5	15
580	Bhuj (Rudramata)		7	-2.3	-2.8
580	Devgarh		11	4.9	1.0
580	Vengurla		13	3.5	3.4
580	Nandurbar		2	34.2	32.2
580	Deolali		10	46.4	46.2
580	Ahmedabad		4	33.3	32.3
580	Poona		7	+1.3	+1.2
580	Parbhani		7	+0.3	+0.8
580	Nander		5	3	2
580	Sironcha		12	+44.2	+44.1
580	Kakinada		17	17.3	17.1
Table III					
584	Mayabandar	0830	20	24	26
584	Jorhat	0830	4	1017.4	1017.8
584	Tezpur	1730	5	1004.4	1004.0
584	(Foot note)	-	-	(h)Mean of 29 days.	(b)Mean of 29 days.
585	Imphal	1130	17	2	0
585	Baghdogra	0230	13	1.	1.0
588	Sultanpur	1730	15	.7	0.7
589	Najibabad	0830	1	Najieabad	Najibabad
589	Amritsar (Rajasansi)	1730	13	1.1	2.1
589	Amritsar (Rajasansi)	1730	19	(Blank)	1
591	Srinagar	0830	12	-7	+7
591	Jammu (Aerodrome)	1130	13	3.3	2.3
592	Nowgong	0830	17	6	0
593	Bhopal (Bairagarh)	0830	5	957.4	957.3
593	Hoshangabad	0830	4	1012.2	1017.2
594	Bhutakia Bhimasar	1730	15	21.8	21.1
595	Porbandar	1730	9	18.8	18.4
596	Deolali (Aerodrome)	1730	4	1011.4	1011.0
596	Poona	1130	7	28.5	28.0
597	Buldhana	0830	14	+0.4	-0.4
598	Salem	1130	8	2.0	22.0
598	Nagapattinam	0830	8	23.1	23.6
602	Bagra Tawa	1730	7	20.4	20.7

Page No.	Station	Time in IST.	Ht. in Km.	Entry under column	Existing entry	Correct entry
605	Bahraich	-	-	Date of opening	1957	1961
605	Jamshedpur	-	-	Long.E	96 11	86 11
Table IV						
606	Ahmedabad	1730*	4.5	D	282	281
606	Ahmedabad	2330	3.6	V	5.	5.3
607	Asansol	1730	0.3	D	352	332

Contd.2 (P.T.O)

Page No.	Station	Time in I.S.T	Ht. in Km.	Entry under column	Existing entry	Correct entry
608	Bairagarh	2330	1.5	D	141	145
608	Bamrauli	1130	1.5	V	6.3	5.3
608	Bamrauli	1130	2.1	V	6.8	6.3
608	Bamrauli	1130	3.0	V	8.4	6.8
608	Bamrauli	1130	3.6	V	8.3	8.4
608	Bamrauli	1130	9.0	n	1	5
608	Bamrauli	2330	3.0	n	35	25
608	Bamrauli	2330	4.5	D	266	265
609	Begumpet	1730	3.6	V	4.0	3.0
609	Bhagalpur	1730	5.4	v	15.0	15.9
609	Bhubaneshwar	0530	2.1	D	020	320
611	Dehra Dun	1730	-	Time in I.S.T	1730*	1730
611	Dum Dum	0530*	Surface	D	337	357
611	Dum Dum	1130	9.0	V	29.7	28.7
611	Dum Dum	2330	4.5	n	8	5
611	Gadag	0530	9.0	v	3.2	5.2
614	Jaipur	1730	Surface	v	0.4	0.5
614	Jaipur	1730	6.0	v	5.8	16.3
614	Jaipur	1730	6.0	D	299	217
614	Jaipur	1730	7.2	v	10.4	21.2
614	Jaipur	1730	7.2	D	280	275
615	Madras	2330	0.9	V	7.6	7.9
615	Mohanbari	1730	0.6	n	80	30
616	New Delhi	1130	3.6	n	29	28
616	Port Blair	1130	6.0	V	.0	5.0
617	Raipur	1730	3.0	v	2.9	3.9
619	Visakhapatnam	1130	0.15 ag.	v	.7	3.7
619	Visakhapatnam	1130	9.0	D	85	285
Table V						
620	Bamrauli	1730	16.2	v	8.0	38.0
620	Bangalore	0530	21.0	V	18.0	8.0
620	Bareilly	1730	10.5	V	0.0	30.0
620	Jodhpur	0530			530	0530
621	Nagpur	1730	12.0	V	27.5	27.4
621	Visakhapatnam	1730	12.0	D	262	272
Table VI - RADIOSONDE DATA						
623	Allahabad	00 GMT	350 mb.	Mean	286.6	286.3
626	Ahmedabad	12 GMT	150 mb.	Ht.gpm	13991	13993
626	Bangalore	12 GMT	900 mb.	Dew Pt.	285.5	288.3
626	Calcutta	12 GMT	600 mb.	Mean	273.5	273.7
627	Jodhpur	12 GMT	850mb.	Dew Pt.	273.7	273.2
627	Jodhpur	12 GMT	400 mb.	Min.	543	243
627	Madras	12 GMT	700 mb.	Mean	281.2	281.7
627	New Delhi	12 GMT	Surface	Max.	290	299
627	Port Blair	12 GMT	700 mb.	Ht.gpm	3114	3134

TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS—NOVEMBER, 1961 (KARTIKA 10—AGRAHAYANA 9, 1883 SAKA)

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
Assam (Including Manipur, Tripura).	28·5	101	26·1	15.3	78	76	3·4	2·1
	+0·3		—0·7	0	—4		+0·6	
2. West Bengal	1·1	5	27·1	16·3	71	65	1·0	1·1
	—20·0		—1·4	—0·7	0		—0·7	
3. Orissa	11·4	27	27·3	16·8	71	61	1·6	1·9
	—31·6		—1·4	—0·7	—1		—0·7	
4. Bihar	0·3	3	26·7	14·0	72	63	0·7	1·1
	—10.5		—1·0	—0·7	+3		—0·6	
5. Uttar Pradesh	1·9	32	26·5	12·3	75	56	0·9	1·0
	—4.0		—1·7	+0·3	+9		+0·2	
6. Punjab (India) (Including Delhi).*	8·9	168	25·3	10·3	75	52	1·6	1·9
	+3·6		—2·2	+0·3	+14		+0·6	
7. Jammu and Kashmir	20·7	334	9·1	—2·7	63	51	3·1	2·7
	+14·5		—3·5	+0·7	—7		+0·7	
Sub-division								
1. Bay Islands.	310·9	116	30·1	24·3	82	88	5·4	5·0
	+43·7		+1·3	+1·2	+6		+0·8	
2. Assam (Including Manipur, Tripura).	28·5	101	26·1	15·3	78	76	3·4	2·1
	+0·3		—0·7	0	—4		+0·6	
3. Sub-Himalayan West Bengal.	1·3	13	26·3	14·8	74	73	1.0	1·5
	—9·1		—1·8	—0·7	0		—0·2	
4. Gangetic, West Bengal.	1·0	4	27·4	16·8	70	63	1·0	1·0
	—24·0		—1·3	—0·7	0		—0·8	
5. Orissa	11·4	27	27·3	16·8	71	61	1·6	1·9
	—31·6		—1·4	—0·7	—1		—0·7	
6. Bihar Plateau	0·6	4	26·3	13·3	72	63	0·7	1·1
	—13·5		—1·1	—1·0	+5		—0·9	
7. Bihar Plains	0·2	2	27·2	14·7	73	62	0·8	1·0
	—8·7		—0·9	—0·5	+1		—0·3	
8. Uttar Pradesh (East).	0·4	6	27·1	12·7	76	56	0·7	0·6
	—6·4		—1·4	+0·2	+8		—0·1	
9. Uttar Pradesh (West).	4·0	83	25·7	11·8	74	57	1·3	1·7
	—0·8		—2·1	+0·4	+11		+0·5	
10. Punjab (India) (Including Delhi)	8·9	168	25·3	10·3	75	52	1·6	1·9
	+3·6		—2·2	+0·3	+14		+0·6	
11. Himachal Pradesh	20·6	..	21·4	7·3	95	66	2·4	2·0
	..		..	..	..		..	
12. Jammu and Kashmir	20·7	334	9·1	2·7	63	51	3·1	2·7
	+14·5		—3·5	+0·7	—7		+0·7	
13. Rajasthan (West)	1·5	68	28·8	12·1	53	29	0·7	0·8
	—0·7		—2·1	—0·7	+4		—0·3	
14. Rajasthan (East)	5·4	72	27·7	12·9	66	53	1·4	1·9
	—2·1		—1·5	+0·9	+13		+0·7	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*contd.*								
8. Rajasthan	3·2	71	28·3	12·5	60	41	1.1	1·4
	—1·3		—1·8	+0·1	+8		+0·2	
9. Madhya Pradesh	12·1	91	27·7	13·5	68	50	1·6	2·2
	—1·2		—0·7	+0·7	+6		+0·1	
10. Gujarat State	0	0	32·1	17·6	61	44	1·3	1·4
	—5·5		—0·4	+0·4	+3		+0·2	
11. Maharashtra State	7·3	31	30.9	17.9	66	46	2.5	3.0
	—16.1		+0.3	+0·8	+3		+0.4	
12. Andhra Pradesh	70.7	93	29·1	19·5	76	61	3·1	3·2
	—5·1		—0·8	—0·2	+3		—0·3	
13. Madras State	166·8	71	29·6	22·2	80	71	5·8	5·9
	—67·8		—0.2	—0·3	—1		+1·1	
14. Mysore	14·0	27	29·3	18·6	75	52	4·3	4·3
	—37·9		0	+0·2	+4		+0·9	
15 Kerala	102·3	57	31·4	23·6	78	71	5·0	5·5
	—76·3		+1·2	0	—3		+0·4	
Sub-division—*contd.*								
15. Madhya Pradesh (West).	14·9	99	28·2	13·7	65	49	2·0	2·6
	—0·1		—0·7	+1·2	+9		+0·7	
16. Madhya Pradesh (East).	8·6	77	27·2	13·3	72	52	1·2	1·8
	—2·5		—0·6	+0·1	+3		—0·6	
17. Gujarat Region	0	0	33·4	17·7	65	40	1·5	1·6
	—8·9		0	+1·5	+5		+0·3	
18. Saurashtra and Kutch.	0	0	31·3	17·6	58	47	1·2	1·3
	—3·7		—0·6	—0·2	+2		+0·1	
19. Konkan	1·1	5	32·6	22·1	70	62	2·5	3·0
	—22·9		+0·8	+0·7	+2		+0·2	
20. Madhya Maharashtra	13·0	45	31·0	16·4	65	59	2·6	3·4
	—15·8		+0·5	+0·9	+2		+0·5	
21. Marathwada	7.4	27	30.2	16·2	57	38	2·5	3.5
	—20.0		—0.1	+1.0	+1		+0.3	
22. Vidarbha	6·1	41	29·5	16·5	65	45	2·4	2·2
	—8·7		—0·1	+0·7	+5		+0·4	
23. Coastal Andhra Pradesh.	113·7	91	28·9	20·7	76	69	3·2	3·6
	—11·0		—0·7	0·6	+1		—0·6	
24. Telangana	36·6	195	29·1	17·3	75	54	2·4	2·2
	+17·8		—0.8	+0·2	+5		—0·5	
25. Rayalaseema	27·5	48	29·6	20·1	77	56	4·0	4·1
	—29·5		—1·0	+0·3	+4		+0·5	
26. Madras State	166·8	71	29·6	22·2	80	71	5·8	5·9
	—67·8		—0·2	—0·3	—1		+1·1	
27. Coastal Mysore	14·2	23	33·1	22·1	67	59	4·2	4·1
	—48·3		+1·3	+0·2	—6		+0·7	
28. Interior Mysore (North).	8·1	25	29·2	17·8	71	46	5·5	3·6
	—24·6		—0·4	—0·1	+8		+1·0	
29. Interior Mysore (South).	19·0	30	27·8	17·8	81	55	5·1	5·1
	—44·7		—0·2	+0·4	+4		+1·0	
30. Kerala	102·3	57	31·4	23·6	78	71	5·0	5·5
	—76·3		+1·2	0	—3		+0·4	
31. Arabian Sea Islands.	98·7	91	31·5	23·7	79	75	6·1	6·9
	+9·2		+1·5	—0·1	+3		+2·1	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Bay Islands																													
Maya Bandar	29·4	..	30·3	2,4,19	23·9	..	21·4	23	82·6	241·4	..	101·2	7	7	..	17·2	11·8	..	0	8	0	0	0	0	0	0	0	0	0
Long Island	30·0	..	30·8	2,21	24·3	..	22·1	7	81·3	246·1	..	97·0	7	8	..	4·9	3·1	..	0	8	0	0	2	0	0	0	0	0	0
Port Blair	30·1	+1·3	31·4	22	24.3	+1·2	22·0	8	128·6	310·9	+43·7	84·0	7	12	−1·6	9·7	8·9	−4·6	2	14	0	0	5	0	0	0	0	1	0
Car Nicobar	29·7	..	30·2	14,15,16	24·5	..	21·9	4	114·3	362.0	..	72·8	6	15	..	5.7	4·2	..	0	17	0	0	0	0	0	0	0	0	0
Nancowry	31.7	..	32·9	13	24.5	..	21·8	1	104·7	225·3	..	104·4	6	14	..	0·3	0·2	..	0	17	0	0	7	0	0	0	0	0	0
Kondul	28·4	..	29·9	24	24·2	..	22·1	4	149·0	302·8	..	53 8	17	18	..	..	..	..	1	22	0	0	10	0	0	0	0	0	0
Assam (Including Manipur, Tripura)																													
Pasighat	26 1	..	30·9	12	15·9	..	11·1	19	4 6	57·1	..	37·0	6	2		6·5	12·3	..	2	4	0	0	1	0	0	0	0	0	0
Dibrugarh (Mohanbari)	25·4	−0·1	29·4	2,3	13·1	−1·3	7·4	21	7·0	44·9	+11·4	22·1	18	5	+2·5	2·9	1·3	−0·3	0	8	0	0	3	5	0	0	0	0	0
Dibrugarh	25·9	0·5	30·1	2	15·0	−0·6	10·6	20	7·7	32·1	−1·4	13·1	18	3	+0 5	1·6	1·1	+0·1	0	7	0	0	1	0	0	0	0	0	0
Digboi	..	..	..	..	..	..	..	..	0	39 0	..	20·0	18	3	..	.	..	..	0	4	0	0	0	0	0	0	0	0	0
North Lakhimpur	26·0	−1.7	30·2	3	12·6	−1.3	8·8	21,22	4·0	38·6	+10.6	18·6	17	5	+2 9	3·3	1·9	..	1	6	0	0	0	0	0	0	0	0	0
Sibsagar	25·6	0	29 6	3	15·4	0	9.8	8	2·7	29·0	−2·9	14·5	18	2	−0·3	3·1	1·9	+0·1	0	6	0	0	1	6	0	0	0	0	0
Gohpur†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..
Majbat	..	..	..	..	..	..	..	..	0	26·7	..	21·0	18	2	..	2·1	0·7	..	0	2	0	0	0	0	0	0	0	0	0
Jorhat (Aerodrome)	26•2	..	29·7	3	15·0	..	9·4	22	0.5	61.1	..	32·5	8	4	..	..	..	..	0	7	0	0	3	9	0	0	0	0	0
Tangla	27·3	..	30 9	3	13·7	..	9·2	21,25	0	22·0	..	22·0	18	1	..	0·3	0·4	..	0	1	0	0	0	0	0	0	0	0	0
Tezpur	26·3	−0·9	30·6	3	17·3	+0·9	13·9	21,22	2·2	51·1	+28·2	22·7	8	4	+2·2	7·1	6·6	+4·2	1	4	0	0	0	0	0	0	0	0	0
Golaghat	26·5	..	30·0	5	15.5	..	10 0	27 22	3·0	13·2	..	6·2	18	1	..	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Rangia (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..		..
Chaparmukh	27·7	..	31·1	2	16·5	..	12·2	4 days	0	38·8	..	38·8	8	1	..	5·5	3·8	..	0	1	0	0	0	0	0	0	0	0	0
Goalpara (R)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati	27·3	−0·1	31·1	3	17·1	+0·8	12·3	26	1·0	15·2	+1·2	12·2	8	1	−0.2	0	0	−1·8	0	3	0	0	0	20	0	0	0	0	0
Gauhati (Bhorjor)	26·3	−1·1	29·7	3	15·6	+1·0	10·6	26	0·3	10·7	−3·3	8·8	8	1	−0·2	5·0	4·1	..	1	2	0	0	0	17	0	0	0	0	0
Dhubri (Rupsi)	26·6	..	30·0	4	14·9	..	10·1	26	0	1.4	..	1·4	8	1	..	4·5	2·7	..	0	1	0	0	1	1	0	0	0	0	0
Dhubri	25·3	−1·0	28·3	4	17·9	+0·1	14·4	22	0	0	−10·2	0	0	0	−0·7	6·4	5·4	−1·0	0	0	0	0	0	0	0	0	0	0	0
Lumding	26·1	−0·1	30·0	3	15 2	−0·2	11·6	21, 27,28	7·0	26·2	−3·0	11·8	8	3	+1·1	2·8	1·4	..	0	3	0	0	0	0	0	0	0	0	0
Umroi	23·1	..	26·5	4	9·9	..	3·1	21	58·3	67·9	..	13·7	3	8	..	5·9	2·5	..	0	13	0	0	10	28	0	0	0	0	0
Tura	26·1	..	29·5	4	14·0	..	10·6	22	14·2	32·4	..	27·3	8	2	..	3·0	6·1	..	0	3	0	0	0	0	0	0	0	0	0
Haflong	23•0	..	27·9	4	14·7	..	10·6	21	19·9	34·1	..	23·6	6	2	..	..	..	..	0	5	0	0	1	6	0	0	0	0	0
Silchar (Kumbhirgram)	28·3	..	32·1	5	16·3	..	11·3	21	0·6	32·4	..	19·6	6	4	..	4 0	6·0	..	0	4	0	0	5	0	0	0	0	0	0
Silchar	27·0	−2·4	31·2	2	17·7	+0·2	12.6	21	17·6	48·6	+4·1	37·4	6	2	−0·1	1·4	0·9	−0·7	1	2	0	0	3	0	0	0	0	0	0
Imphal (Tulihal)	24·2	−0·6	28·2	5	11·1	+1·0	4·3	22	30·8	45·1	+17.0	23·3	14	3	+1·5	4·7	3·2	−0·1	1	3	0	0	3	14	0	0	0	0	0
Kailashahar	28·5	..	31·9	5	16·0	..	10·3	20	42·0	49·8	..	44·8	6	2	..	1 6	0·7	..	0	2	0	0	1	10	0	0	0	0	0
Agartala	28·4	0·4	30·7	5	15·5	−0·7	9·8	26	0	0	−48·7	0	0	0	−1·7	5·2	2·4	−0·9	0	0	0	0	1	4	0	0	0	0	0
Sub-Himalayan West Bengal																													
Baghdogra	27·8	−0·7	31·1	3,4	12·4	−1·7	7·4	22	0	0	−6·0	0	..	0	−0·4	5·9	6.0	+3·2	0	0	0	0	1	0	0	0	0	0	0
Jalpaiguri	24·0	−3·8	26·7	4	15·6	−0·4	11·3	22	0	5·0	−7·5	5 0	8	1	+0·2	4·8	3·6	+2·0	0	1	0	0	1	1	0	0	0	0	0
Cooch Behar	27·2	..	30·5	4	13·8	..	9·2	22	0	0	−11·4	0	..	0	−0·8	5·6	2·8	..	0	0	0	0	0	1	0	0	0	0	0
Balurghat	28·6	..	31·1	4,5	14·2	..	10·0	26	0	0	..	0	..	0	..	4·4	3·0	..	0	0	0	0	0	0	0	0	0	0	0
Malda	27·1	−0·8	29·7	2	16·3	+0·1	12·6	26	0	0	−11·4	0	..	0	−0·7	6·8	5·1	+1·2	0	0	0	0	0	0	0	0	0	0	0
Gangetic West Bengal																													
Berhampore	27·6	−0·6	31·1	2	15·2	−2·4	11·8	30	0	1·8	−14·7	1·8	1	0	−0·7	2·8	1·6	0	0	1	0	0	0	0	0	0	0	0	0
Suri	26.9	..	29·1	18	16·4	..	12·9	30	..	1·4	..	1·2	6	0	..	..	5·2	..	1	1	0	0	0	0	0	0	0	0	0
Asansol	27·2	−1·6	29·7	4	15·9	+0·3	12·9	27	2·8	2·8	−11·7	2 8	6	1	0	7·3	4·7	−0·3	0	1	0	0	0	0	0	0	0	0	0
Shanti Niketan	27·2	..	29·7	18	15·6	..	11·5	30	0	0·2	..	0·2	6	0	..	5·8	5·5	..	1	0	0	0	0	0	0	0	0	0	0
Krishnanagar	28·9	−0.2	31·1	4 days	16·2	−0·6	10·6	24	0	0·2	−24·7	0·2	1	0	−1·2	1·0	0·6	−1·3	1	0	0	0	0	0	0	0	0	0	0
Purulia	25·9	−2·2	28·4	18	15·5	−1·1	12·4	26	2·5	2·5	−16·5	2·5	6	1	−0·1	4·3	3·1	−0·1	0	1	0	0	0	0	0	0	0	0	0
Bankura	..	..	..	..	..	..	..	..	..	0	−16·5	0	..	0	−1·1	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Burdwan	24·8	−4·0	30•0	21	17·1	−0·6	13·5	27	0	0	−21·8	0	..	0	−1·0	3·1	(b) 2·1	+0·2	0	0	0	0	0	0	0	0	0	0	0
Barrackpore (Aerodrome)	27·6	..	30·7	11	16·7	..	12·7	30	0·8	0·8	..	0·8	8	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Calcutta (Dum Dum)	28.5	−0·5	31·0	3,19	16·7	−1·0	13·0	30	0	0·2	−26·4	0.2	6	0	−1·1	6·0	3·5	−0·4	1	0	0	0	0	0	0	0	0	0	0
Calcutta	28·6	−0·4	30·5	4 days	18·0	+0·4	14·4	30	0	0	−20·6	0	..	0	−1.1	7·6	4·5	+1·4	0	0	0	0	0	0	0	0	0	0	0
Midnapore	27·4	−1·7	29·3	4	16·3	−1·1	12·6	27	0	0	−22·1	0	..	0	−1·1	4·2	3·7	+1·6	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received. (b) Mean of 29 days. †Data not reliable.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm. or more)		Wind speed km. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0.2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Gangetic West Bengal—(*contd.*)																													
Contai	27·9	−1·0	29·9	18,19	17·7	−1·1	12·8	27	0	1·0	−59·0	1·0	6	0	−2·2	4·3	2·9	−0·1	0	1	0	0	0	1	0	0	0	0	0
Sagar Island	26·9	−1·0	28·9	3	19·5	−0·2	15·7	27,28, 29	0	2·9	−29·6	2·0	7	0	−1·3	14·4	12·1	+3·2	0	2	0	0	0	0	0	0	0	0	0
Sandheads	29·7	..	33·1	13,14	24·2	..	22·3	25	0	2·7	−67·2	2·7	8	1	−1·5	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Orissa																													
Baripada	27·9	..	30·1	18	15·7	..	11·5	27	0	0	..	0	..	0	..	3·5	1.5	..	0	0	0	0	0	0	0	0	0	0	0
Jharsuguda	27·1	−2.0	29·4	18	15·0	−0.1	10·7	26	12·0	15·8	+9·3	12·2	6	2	+1·3	6·6	5·0	−0·9	0	2	0	0	0	1	0	0	0	0	0
Keonjhargarh	25·0	..	27·1	18	14·3	..	10·7	26,27	3.0	7·2	..	5·2	6	1	..	4·0	2·5	..	0	2	0	0	0	0	0	0	0	0	0
Balasore	27·7	−1·4	29·9	19	17·4	+0·1	13·1	26	0	0	−38·1	0	..	0	−1·5	6·9	4·4	+1.8	0	0	0	0	0	0	0	0	0	0	0
Sambalpur	27·7	−1·1	29·6	4	15·2	−1.1	10·7	26	16·0	21·8	+1.2	18·0	6	2	+1.0	3·4	1·9	−1·5	0	2	0	0	0	0	0	0	0	0	0
Angul	27·2	−1·6	29·3	3,4	16·3	−0.5	11·8	26	0	26·4	−1·8	24·0	1	1	−0·4	3·3	3·1	−1·7	0	3	0	0	0	0	0	0	0	0	0
Cuttack	29·1	−0.3	31·4	18	18·4	−0.4	14·1	28	0	0	−41.1	0	..	0	−1·6	3·4	2·2	+0.3	0	0	0	0	0	0	0	0	0	0	0
Chandbali	28·2	−0.7	30·8	19	16·7	−1·9	12·2	4 days	0	1·4	−40·5	1·4	7	0	−1·5	6·7	4·2	−0·9	0	1	0	0	0	0	0	0	0	0	0
Bolangir	27·7	..	30·7	18	15·8	..	11·1	26	4·2	9·0	..	5·6	6	2	..	4·8	4·5	..	0	2	0	0	0	0	0	0	0	0	0
Phulbani	26·0	..	27·8	3	11·9	..	5·6	26	4·6	4·6	..	3·8	2	1	..	3·1	1·7	..	0	2	0	0	0	0	0	0	0	0	0
Titlagarh	29·6	..	31·8	3	15·9	..	10·7	30	0	10·1	..	10·1	6	1	..	1·9	2·9	..	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	28·0	−1·4	30·2	20	17·9	−0·1	13·6	26	0	0	−47·6	0	..	0	−1·6	8·7	6·9	−0.4	0	0	0	0	0	1	0	0	0	0	0
Puri	28·5	−0.7	30·1	4	19·9	−0.8	16·2	29	0	0	−81.0	0	..	0	−2·4	12.4	10.2	+1·0	0	0	0	0	0	0	0	0	0	0	0
Gopalpur	28·2	−0·7	29·8	3,4	18.5	−1·1	14·1	28,29	2·4	23·6	−76·2	16·6	4	2	−0·8	13·4	10·7	+0·7	1	3	0	0	0	0	0	0	0	0	0
Koraput	21·7	−3·7	26·7	4	12·7	−1·0	8·3	26,27, 28	5·8	25·2	−0·4	9·8	1	3	+1.2	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	27·1	−0·9	29·1	2	14·8	−0·5	11·0	26,30	1·0	1·0	−12·7	1·0	6	0	−0·8	3·0	2·0	+0·2	0	1	0	0	0	0	0	0	0	0	0
Daltonganj	26·4	−1·6	29·6	11	12·7	+0·3	8·4	20	0	0	−14.2	0	..	0	−0·8	4·0	2·6	+0·2	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	23·5	−1·8	25·1	16	11·7	−2·3	8·0	26	0	0	−14·2	0	..	0	−0·9	7.1	4·3	−2·6	0	0	0	0	0	1	0	0	0	0	0
Dhanbad	26·5	..	28·5	3	15.3	..	11.8	3	2·1	2·1	..	2·1	6	0	..	4·7	3.7	..	0	1	0	0	0	0	0	0	0	0	0
Ranchi	25·6	+0·3	27·8	14	..	..	..	..	0	0	−15·5	0	..	0	−1·0	1·1	0·7	−3·6	0	0	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	23·8	..	25·8	18	12·9	..	9·2	26	0	1·8	..	1·8	6	0	..	(h) 9·0	6·5	..	0	1	0	0	0	0	0	0	0	0	0
Jamshedpur	28·1	−1.3	31·2	18	15·2	+0·2	10·8	27	0.4	0·4	−9·0	0·4	6	0	−0·7	4·2	2·6	0	0	1	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	26·7	..	29·1	3,18	14·9	..	10·4	27	0.2	0·9	..	0·7	6	0	..	6·4	4·0	..	1	1	0	0	0	0	0	0	0	0	0
Chaibasa	26·8	−1·5	29·2	18	14·7	−0·7	10·4	27	1·2	2·2	−15·6	2·2	6	0	−1·0	2·7	2·0	+0·1	0	0	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari (R)																													
Forbesganj	29.2	..	31·7	3	13·4	..	9·6	26	0	0	..	0	..	0	..	5·2	3·0	..	0	0	0	0	2	4	0	0	0	0	0
Darbhanga	27·4	−0·9	29·4	3	14.8	−0·5	11·3	30	2·0	2·0	−4·9	2·0	7	0	−0.4	2.8	1.2	−0.2	0	1	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	0	−7·4	0	..	0	−0·5	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Chapra	27·5	..	29·4	3,5	16·0	..	12·7	28,30	0	0	−9·1	0	..	0	−0·5	4·9	2·7	..	0	0	0	0	0	0	0	0	0	0	0
Purnea	27.9	−0·1	30·1	3	13·9	−0.9	9·4	26	0	0	−8.6	0	..	0	−0·5	3·3	1·5	−0·1	0	0	0	0	0	0	0	0	0	0	0
Patna	27·3	−0·5	29·2	2,4	15·9	−0·2	12·8	26,27, 28	0	0	−8·6	0	..	0	−0·5	4·0	3·8	+1·4	0	0	0	0	0	1	0	0	0	0	0
Patna (Aerodrome)	27·0	..	29·2	2	13·5	..	10·4	30	0	0	..	0	..	0	..	6·0	2·5	..	0	0	0	0	0	1	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	0	−9.4	0	..	0	−0.6	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Bhagalpur	27·1	−2·0	29·3	2	16·4	−0·3	12.7	27	0	0	−5·0	0	..	0	−0·3	6·8	4·7	+1·3	0	0	0	0	0	2	0	0	0	0	0
Sabour	26·9	−1.0	28.9	2	13·8	0	9·5	30	0	0	−9·7	0	..	0	−0·7	4.5	2.5	−1.5	0	0	0	0	0	1	0	0	0	0	0
Jamui	26·9	..	28·6	11	14·6	..	10·9	26	0	0	..	0	..	0	..	5·2	2·3	..	0	0	0	0	0	0	0	0	0	0	0
Dehri	27·1	..	28·9	6	14·9	..	11·8	20	0	0	−11·7	0	..	0	−0·7	4·9	3·3	..	0	0	0	0	0	0	0	0	0	0	0
Gaya	26·6	−0·8	28·7	18	13·1	−0·8	9·3	20	0	0	−12·5	0	..	0	−0·7	5·8	3.9	−0·8	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	27·3	−1.0	29·4	2	12·9	−0·5	9·7	30	0	0·6	−6·5	0·6	1	0	−0·5	4·9	3·0	+1·1	0	1	0	0	0	0	0	0	0	0	0
Nautanwa	28·4	..	32·2	17	13·1	..	10·9	26	0	·0	..	0	..	0	..	3·8	1·8	..	0	0	0	0	0	0	0	0	0	0	0
Hardoi	26·9	−2.2	29·1	7	12·6	+0.4	9·1	30	0	0	−1·9	0	..	0	−0.2	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gonda	26·9	−1·8	29·0	3	12·8	+0·1	7·2	30	0	·0	−5·1	0	..	0	−0·5	4·1	3·1	+0·4	0	0	0	0	0	0	0	0	0	0	0
Lucknow	26·7	−2.1	28.6	7	12·8	+0.5	10·4	20	0	0	−5.6	0	..	0	−0·4	2.2	1·7	+0·3	0	0	0	0	0	4	0	0	0	0	0
Lucknow (Amausi)	26·7	−1.4	28·5	7	11·1	+0.7	8·1	19,25	0	0	−5.6	0	..	0	−0.4	7·5	4·2	..	0	0	0	0	0	0	0	0	0	0	0
Faizabad	27·3	..	29·2	9	11·3	..	8·4	26	0	0	..	0	..	0	..	3·8	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Gorakhpur	28·2	+0·4	31·0	3	12·9	−1·2	9·6	27	0	0	−4·8	0	..	0	−0·3	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kanpur	26·5	−1·7	28·5	17	12·5	+0·3	8·9	19	0	0	−8·9	0	..	0	−0·4	7·6	4·8	+0·8	0	0	0	0	0	0	0	0	0	0	0
Kanpur (Aerodrome)	26.7	..	28·9	2	12·5	..	8·9	19	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Sultanpur	27·3	..	29·5	3,17	13·1	..	9·9	19,20	0	0	..	0	..	0	..	2·2	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Azamgarh	27·7	..	29·9	10	11·0	..	7·9	26	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Fatehpur	27·2	−2·2	29·9	6	13·4	+0.8	10·4	20	0	0	−2·3	0	..	0	−0·4	5·7	3·1	+0·7	0	0	0	0	0	0	0	0	0	0	0
Ballia	28·1	..	30·0	3	15·5	..	12.4	19	0	0	..	0	..	0	..	1·7	0·7	..	0	0	0	0	0	0	0	0	0	0	0

(h) Mean of 24days.

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (East)—*contd.*																													
Banda	28·4	..	29·8	3,17,18	13·3	..	9·5	20	0	0	..	0	..	0	..	3·4	1·9		0	0	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	27·8	−0·8	30·0	3,5	13.0	+0·6	9·5	19	4.1	4·1	−3·8	4·1	7	1	+0·5	7·4	3·6	+0·9	0	1	0	0	1	3	0	0	0	0	0
Varanasi (Babatpur)	27 0	−1·4	29·0	3	12·9	+0·1	9·5	19	0	0	−16·6	0	..	0	−0·2	7·6	5·0	−0·1	0	0		0	0	1	0	0	0	0	0
Varanasi	26·9	−1·4	29·5	3	13·3	0	9·7	19,27	0	0	−9·4	0	..	0	−0·6	3·9	2.1	−0·5	0	0	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	22·9	−1·2	25·6	4	9·2	−1·4	5·4	30	0	2·1	−6·8	1·7	17	0	−0·7	5·2	3·2	+0·3	0	2	0	0	0	0	0	0	0	0	0
Roorkee	24·1	−2·3	26·1	2	11·3	+1·5	6·3	19	0	3·8	−2·0	2.5	17	1	+0·5	4 3	2·8	+1·2	0	2	0	0	1	0	0	0	0	0	0
Najibabad	25·1	..	26·7	6 days	11.4	..	6.7	30	0	7.2	..	7.2	17	1	..	3·1	2·0	..	0	1	0	0	1	0	0	0	0	0	0
Meerut	24·6	−3·0	27·8	11	11·2	+0·7	8.8	4 days	0	0	−3·3	0	..	0	−0·3	..	2·8	..	0	0	0	0	0	0	0	0	0	0	0
Bareilly	26·5	−1·1	28·2	8	12·9	+1·0	9·5	30	0	0	−4 6	0	..	0	−0·3	5·3	2·9	+1·6	0	0	0	0	0	0	0	0	0	0	0
Aligarh	26·6	−2·1	28·2	9,11	11·6	−0·7	8·0	30	0	0	−0 8	0	..	0	−0·1	(c) 9·8	7.8	+3·1	0	0	0	0	0	0	0	0	0	0	0
Mainpuri	26·4	−2·8	28·9	15	12·0	+0.2	8.9	19	0	3.1	−0·7	3·1	16	1	+0.7	..	..	..	0	1	0	0	0	1	0	0	0	0	0
Agra	26·9	−2·2	28·7	7	12·5	+1·4	9·0	18,20, 24	0	4.1	+0 5	4.1	16	1	+0·7	2·1	1·6	−1·8	0	1	0	0	0	0	0	0	0	0	0
Agra Aerodrome	27·0	..	29·0	12	11·4	..	7·2	18	0	5·0	..	5.0	16	1	..	..	..	..	0	1	0	0	3	0	0	0	0	0	0
Orai	24·6	..	27·0	14	12·6	..	9·2	23	0	4.0	..	3·0	7	1	..	5·9	4·3	..	0	2	0	0	0	0	0	0	0	0	0
Jhansi	28·0	−1·7	30 5	15	13·4	+0 7	10·0	24,25	0	18.8	+11·4	10·2	2	2	+1·5	6·4	4·7	+2·0	0	3	0	0	0	0	0	0	0	0	0
Punjab (India) (Including Delhi)																													
Pathankot	23·5	−2·4	26·1	6,7	9·6	−0.2	5·7	30	6·5	26.3	+9.1	12·1	16	3	+2 2	5·3	4 5	−1.6	0	4	0	1	2	0	0	0	0	0	0
Amritsar (Rajasansi)	24·8	−1·7	27·8	7	8·5	+0·2	3·0	30	0	1·3	−6·1	1.3	27	0	−0·6	6·9	4 7	−0·5	0	1	0	0	1	0	0	0	0	0	0
Adampur Aerodrome (R)																													
Ludhiana	25·7	−1·7	28·4	4	9·4	−1·2	5·4	30	0	0·5	−2·8	0·5	27	0	−0·4	3·4	1·9	+0·6	0	1	0	0	1	1	0	0	0	0	0
Ferozepur	24.5	..	27·7	8,14	8·5	..	5·7	30	0	2·1	..	2·1	27	0	..	2·9	1·5	..	0	1	0	0	0	0	0	0	0	0	0
Halwara (Aerodrome)	25·0	..	27·1	6,8	8·6	..	3·3	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	2	0	0	0	0	0
Chandigarh	25·1	−1·9	28·5	5	10.9	+0.6	8.4	24	26.0	28.6	+23.2	24.8	16	2	+1·6	7·1	4·4	..	0	3	0	0	0	0	0	0	0	0	0
Ambala	25·5	−2.3	28·4	7	12·0	+2·1	7·9	18	0	0	−4·8	0	..	0	−0·4	8·1	6·1	+3·2	0	0	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	24·6	..	26·7	5	..	..	..	..	0	5.7	..	5.7	1	1	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Patiala	25·3	..	27·8	14	10·3	..	6·3	30	0	0	−0.3	0	..	0	0	5·7	5·3	..	0	0	0	0	0	0	0	0	0	0	0
Bhatinda	25·8	..	28·1	13	10·0	..	6·2	29,30	0	0	..	0	..	0	..	5·8	4·4	..	0	0	0	0	0	0	0	0	0	0	0
Karnal	25.1	..	27.5	7	10·3	..	7·0	18,30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Hissar	26.2	−2·9	28.4	14	10.5	+0.6	5.2	30	3.6	13·6	+12.1	5·8	14	3	+2.8	6·0	5·6	+1.3	0	3	0	0	2	0	0	0	0	0	0
New Delhi (Safdarjung)	26·0	−2.8	28·2	9	11·5	+0.1	7·6	30	0.8	0·8	−1.7	0.8	15	0	−0·3	4·9	2·8	−4·3	0	1	0	0	1	2	0	0	0	0	0
Palam (Aerodrome)	25·8	..	28·3	14	10·9	..	5·0	30	0	0	..	0	..	0	..	..	..	..	0	0	0	0	1	0	0	0	0	0	0
Himachal Pradesh																													
Mandi	21·4	−3·0	25·1	4	7·3	+0·5	2.5	30	12·8	20·6	+12·9	11.6	17	4	+3·6	(d) 1·3	(f) 1·0	−0·6	0	4	0	0	1	22	0	0	0	0	0
Bilaspur	23·2	..	26·4	6	8·9	..	5·4	30	11·3	16·9	..	11·3	17	2	..	..	14·4	..	0	3	0	0	1	31	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sonamarg *	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Leh	5·5	−2·7	9·8	8	−6·4	0	−11·8	29	0	1.4	+0·4	1·4	28	0	−0·2	6·1	5·1	+2·0	0	1	4	0	0	0	0	0	0	0	0
Srinagar	12·7	−4.2	16·9	5	0·9	+1.5	−2·3	24	2·4	39.9	+28·7	20.0	27	3	+1·9	4.3	3·4	+0.5	0	7	1	0	0	2	0	13	0	0	0
Srinagar (Aerodrome)	12.3	..	16.4	6	1.4	..	−1·8	23,24	2.5	31.0	..	14·2	27	3	..	..	..	..	0	6	1	0	0	0	0	15	0	0	0
Gulmarg	Closed During Winter Months																												
Jammu	..	..	..	..	..	..	..	..	..	34.0	..	23·	16	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Jammu (Aerodrome)	23·7	..	26·1	4,7	11.5	..	7·0	30	0.3	31.6	..	22·	16	2	..	..	..	..	0	3	0	0	3	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	26·7	−3.2	29·1	8	10·1	−1.1	5·0	30	0	0.4	−5.4	0·	14	0	−0·2	2·8	2·1	−3.5	0	1	0	0	0	0	0	0	0	0	0
Churu	26·6	..	29·3	14	10·1	..	4·2	30	2.1	2·1	..	2.1	16	0	..	7·2	4·5	..	0	1	0	0	2	0	0	0	0	0	0
Bikaner	28·7	−2·2	31·9	14	8·9	−1·8	4·1	30	4.3	7.3	+6·0	7·3	27	1	+0.9	4·6	2.8	−1·2	0	1	0	0	1	0	0	0	0	0	0
Nagaur	27·7	..	31·4	15	11·4	..	6·5	30	0	2.1	..	2.1	27	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Phalodi	28·3	..	31·3	15	12·1	..	7·2	30	0	0	−0 5	0	..	0	−0·1	9·1	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Jaisalmer	29·1	..	30.8	24	11·3	..	4·3	30	0	0	..	0	..	0	..	13·2	10·4	..	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	29·6	−1·3	32·7	15	14·3	+1·1	10·4	18	0	0	−7.8	0	..	0	−0·2	8· 0	7·0	−0.2	0	0	0	0	0	0	0	0	0	0	0

(c) Mean of 28 days. *Data not reliable. (R) Register not received. (d) Mean of 27 days. (f) Mean of 25 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed, kms. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 or 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Rajsthan West – *contd.*																													
Barmer	30·1	−1·8	33·0	16	15·3	−0·8	11·2	29	0	0	−0·8	0	..	0	−0·2	6·8	5·8	0	0	0	0	0	0	0	0	0	0	0	0
Munabao (R)																													
Rajasthan (East)																													
Pilani	26·6	..	29·2	26	9·7	..	4·1	30	0·4	1·8	..	1·4	15	0	..	7·7	6·3	..	0	2	0	0	0	0	0	0	0	0	0
Sikar	26·9	..	29·6	13,14	9.0	..	1.7	30	4·1	14 3	..	5·1	15	3	..	7·3	4·9	..	0	4	0	0	0	0	0	0	0	0	0
Alwar	26 5	..	29·0	14	11·9	..	5.6	30	14·0	40·0	..	16·2	15	3	..	4·4	2·9	..	0	3	0	0	0	0	0	0	0	0	0
Jaipur (Sanganer)	26·8	−2·5	29·2	14,15	13·0	+0·9	7·3	18	0·5	10·1	+6·5	7·5	16	3	+2·7	..	..	..	0	3	0	1	3	0	0	0	0	1	0
Dholpur	27.8	..	30·8	14	11·9	..	8.1	19	0	7·5	..	7·5	15	1	..	4·2	2·5	..	0	1	0	0	1	0	0	0	0	0	0
Ajmer	27.8	−0·9	30·1	15	11·7	+0·2	7·7	18	0	0	−4·8	0	..	0	−0·4	5·9	3·6	+1·7	0	0	0	0	0	0	0	0	0	0	0
Tonk	25·4	..	29.1	6	12·1	..	7·2	18	0	0	..	0	..	0	..	6·0	4·4	..	0	0	0	0	0	1	0	0	0	0	0
Kota (Aerodrome)	28·4	..	32·0	5	14·9	..	11·2	26	1·2	1·4	..	0·8	16	0	..	6·8	4·3	..	0	2	0	0	2	0	0	0	0	0	0
Kota	29·1	−1·3	31·6	15	15·4	+0·3	12·2	25	9·8	10·0	+4·2	9·4	15	1	+0·4	3·8	2·5	+0·9	0	2	0	0	2	0	0	0	0	0	0
Erinpura (Jawai Dam)	30·3	..	32·0	13,16	13·0	..	8·4	18	0	0	..	0	..	0	..	3·3	2·9	..	0	0	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	28·6	..	31·0	14	13·9	..	7·7	18	2.7	3·2	..	2·7	15	1	..	9·8	6·5	..	0	2	0	0	2	0	0	0	0	0	0
Udaipur	27·9	−1·3	30·0	14	11·9	−0·4	7·4	25	0	0	−2·8	0	..	0	−0·3	2·1	1·3	..	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	28·5	−0·8	31·4	16	14·8	+2·7	9·8	24	2.6	11·4	−7·1	8·8	1	2	+0·9	4·5	2·4	+0·5	0	2	0	0	1	0	0	0	0	0	0
Madhya Pradesh (West)																													
Gwalior	27·6	−2·0	29·8	14	11·5	+0·9	7·6	30	0	6·2	+2·6	6·2	16	1	+0·6	5.1	2·6	..	0	1	0	0	2	0	0	0	0	0	0
Sheopur	28·2	−1·2	32.0	15	11·8	+0.8	7.1	18	0	7·2	+2·8	5·0	15	1	+0·6	5·7	5·1	+1·0	0	2	0	0	0	0	0	0	0	0	0
Shivpuri	26·4	..	28·6	28	11·5	..	6·4	18	0	15·2	..	6·1	1	3	..	6·5	3·6	..	0	3	0	0	0	0	0	0	0	0	0
Nowgong	28 0	−0·2	30·3	15	11.4	−0.2	7·4	24	0	19·4	+8·5	19·4	16	1	+0·3	4·8	2·4	+1·1	0	1	0	0	2	0	0	0	0	0	0
Guna	27·8	−1·0	30·2	16	12·9	+2·3	6·4	18	8·8	18·1	−4·0	8·8	2	2	+1.2	8·4	5·8	..	0	4	0	0	1	0	0	0	0	0	0
Nimach	28·2	−1·0	30·3	16	14·2	+1·4	9·9	24	0	0	−7·9	0	..	0	−0·4	7·6	5·8	+0·5	0	0	0	0	1	0	0	0	0	0	0
Rajgarh	28·8	..	31 6	16	13·3	..	8·2	18	0	16·2	..	14·0	1	1	..	2·9	2·3	..	0	2	0	0	0	0	0	0	0	0	0
Sagar	26·6	−1·5	29·7	1	14·4	−0·6	10·8	18	24·0	33·0	+17·0	28·0	6	2	+1·1	6·0	6·0	..	0	3	0	1	2	0	0	0	0	0	0
Ratlam	29·7	−0·5	31·3	15	15·2	+0·9	12·4	25	0	2·1	−0·9	2·1	1	0	−0·3	9·2	8·6	+2·5	0	1	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	27·5	−0·9	29·6	16	14·7	+2·0	11·3	25	0·4	16·7	−9·0	9·1	2	2	+0·8	7·9	6·7	+0·7	0	3	0	0	3	0	0	0	0	1	0
Ujjain	28·8	..	30·6	1,15	14·5	..	9·0	25	..	13·4	..	8·8	2	2	..	.. (b)	7·3 (c)	..	0	3	0	0	0	0	0	0	0	0	0
Hoshangabad	29·6	+0·4	31·4	2,16	16·4	+1·7	11·5	25	0	1·0	−16·0	1·0	2	0	−0·9	5·3	4·3	+1·7	0	1	0	0	0	0	0	0	0	0	0
Indore	28·1	−1·0	30·5	2	14·2	+2·2	9·9	24	37·6	39·1	+23·6	38·2	7	1	+0·1	9·8	7·1	..	0	2	0	1	2	2	0	0	0	0	0
Raipur (Jhabua)	31·0	..	32·0	4 days	15·1	..	12·0	26	0	0	..	0	..	0	..	5·7	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Chhindwara	27·4	−0·2	29·7	2	12·3	+0·7	7·3	25	0	25·3	+7·3	25·3	7	1	+0·7	3·2	1·5	−2·4	0	1	0	0	1	0	0	0	0	0	0
Seoni	27·0	−0·4	29·5	17	13·4	+0·5	9·1	26	8·8	10 0	−7·3	8.8	8	1	0	7·0	4·5	+1·0	0	2	0	0	1	0	0	0	0	0	0
Betul	27·5	0	30·0	2	13·7	+1·7	8·7	25	0	17·4	−11·5	14·6	7	2	+0·8	6·1	4.4	+0·5	0	2	0	0	1	0	0	0	0	0	0
Khandwa	31·3	+0·3	36·6	16	15·7	+2.1	11·6	25,26	13·0	13·0	−6·3	12·6	7	1	0	7.0	4·4	+0·7	0	2	0	0	1	0	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	27·3	−0·4	29·2	17	12·3	0	8·1	24,26	0	2·0	−6·9	2·0	6	0	−0·7	3·9	2·4	−0·3	0	1	0	0	1	0	0	0	0	0	0
Sidhi	27·8	..	31·2	4	11·4	..	7·0	19,20 25	0	0	..	0	..	0	..	5·2	2·6	..	0	0	0	0	0	0	0	0	0	0	0
Umaria	27.2	−0·3	29·7	6	11·2	0	6·7	25	0	0	−16·3	0	..	0	−0·7	4·6	2·8	+0·4	0	0	0	0	1	0	0	0	0	0	0
Jabalpur	28·5	+0.6	30·6	1	13·2	+1·9	8·5	26	0	13·2	+2·3	8·8	7	1	+0·1	4·7	3·0	+1·1	0	3	0	0	0	0	0	0	0	0	0
Ambikapur	24·9	−1·1	26·9	3	10·8	+0·3	6·7	26	0·6	2·8	+1·	2·8	7	1	+0·9	8·8	6·0	+0·2	0	1	0	0	1	1	0	0	0	0	0
Pendra	25·2	−0·1	27·4	1	13·0	+0·1	9.9	26	0·3	2·8	−15·5	2·5	17	1	−0·3	6.2	3·4	..	0	2	0	0	1	1	0	0	0	0	0
Mandla	27·4	−0·7	29·9	4	11·8	+1·9	6·3	26	0	7·0	−0·9	7·0	7	1	+0·8	4·2	2·1	+0·5	0	1	0	0	1	2	0	0	0	0	0
Champa	28·0	−1·2	30·5	18	15·0	−1·3	11·0	27	0	1.6	−4·1	1·6	5	0	−0·6	5·0	4·4	−0·9	0	1	0	0	0	0	0	0	0	0	0
Raigarh	28·3	−1·5	30·4	18	15·5	−0 9	11·8	24	6·0	7.0	+6·3	6 0	6	1	+0·9	3·3	2·4	−1·4	0	2	0	0	0	0	0	0	0	0	0
Raipur	27·9	−0 8	31·0	18	15·2	−0·7	11·4	27	0	0·4	−13·1	0.4	5	0	−1·1	6.9	4·4	+1·2	0	1	0	0	0	0	0	0	0	0	0
Kanker	27·3	−1·0	29·6	4	14·1	+0·2	9·4	27	2·4	8·5	−1·2	6·1	5	1	+0·2	3.6	2·1	−1·0	0	2	0	0	0	0	0	0	0	0	0
Jagdalpur	27·1	−0·6	28.8	4,18	14·2	−0·8	9·4	27	4·7	48·9	+19·9	48·9	5	1	−0·9	5·8	3·1	..	0	1	0	0	0	0	0	0	0	0	0
Gujarat Region																													
Deesa.	32·1	..	33.7	13	14·7	..	10·3	25	0	0	..	0	..	0	..	8·3	7 4	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	31·7	..	33·5	14	14·3	..	10.6	21	0	0	..	0	..	0	..	5.5	5·2	..	0	0	0	0	0	0	0	0	0	0	0
Idar	31·3	..	33·3	15	19·2	..	13·3	25	0	0	..	0	..	0	..	7·9	7·0	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	32·4	−0·9	34.0	12,13,14	16·9	+0·8	13.8	22	0	0	−3·6	0	..	0	−0·4	10.2	5·9	+2·0	0	0	0	0	0	0	0	0	0	0	0
Dohad	30 4	−1·1	31·5	15	16·2	+1·1	13·0	25	0	0	−11·1	0	..	0	−0 6	8·4	6·4	−0·4	0	0	0	0	1	0	0	0	0	0	0
Baroda Aerodrome	33·5	..	35·2	6	17·6	..	14.7	22	0	0	..	0	..	0	..	7·5	5·8	0	0	0	0	0	0	0	0	0	0	0	0
Baroda	33·5	+0·1	35·1	5	17·6	+3·3	14·8	24	0	0	−20·3	0	..	0	−1·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Broach	35·2	+0·1	36·9	3	18.3	+1·1	14·8	27	0	0	−1·2	0	..	0	−0·1	5.0	4·2	−0·4	0	0	0	0	0	0	0	0	0	0	0
Surat	35·3	+2·0	37·1	3	19·3	+1·0	16·8	17,29, 30	0	0	−8.1	0	..	0	−0·5	..	..	..	0	0	0	0	0	0	0	0	0	0	0

(R) Register not received

(b) Mean of 29 days.

(c) Mean of 28 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5mm or more)		Wind speed, km. per hour			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Saurashtra and Kutch—																													
Bhutakia Bhimsar	31·3	..	34.0	14	17·9	..	13·6	25	0	0	..	0	..	0	..	14·1	14·4	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	31·2	..	33.4	13	11·8	..	8·5	5	0	0	..	0	..	0	..	15·0	10·3	..	0	0	0	0	0	0	0	0	0	0	0
Bhuj (Rudramata)	31·1	−0·8	33·9	14	12·6	−2·3	9·9	25	0	0	−2·0	0	..	0	−0·2	14.4	8·7	+0·7	0	0	0	0	0	0	0	0	0	0	0
Kandla	31·5	..	32·9	7, 13	16·0	..	12·1	25	0	5·2	..	5·2	27	1	..	(c) 16·1	(c) 15·4	..	0	1	0	0	0	0	0	0	0	0	0
New Kandla	29·5	..	31·7	13	18·8	..	16·9	22,30	0	0	..	0	..	0	..	11·0	12·5	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	29·9	−0·6	32·1	22	17·8	−1·4	13·6	25	0	0	−1·8	0	..	0	−0·5	14·3	11·9	−1.9	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	32·6	−0·2	34.6	14	18.5	+0·6	15.7	25	0	0	−1·1	0	..	0	−0·1	(c) 7·9	7·4	+0·7	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	30·2	−2·5	31·7	7, 14	16·0	+0·9	12·8	21,22	0	0	−1·5	0	..	0	−0·2	..	..	..	0	0	0	0	0	1	0	0	0	0	0
Dwarka	30·2	−0·4	32·4	7	19·5	−0·9	16.8	26	0	0	−2.0	0	..	0	−0·1	19·6	14·4	+2·7	0	0	0	0	0	0	0	0	0	0	0
Rajkot	32·6	−0·1	34·3	11	16·4	+0·2	13·0	22	0	0	−2·8	0	..	0	−0·3	13.4	11·5	+0·9	0	0	0	0	0	1	0	0	0	0	0
Bhaunagar (Aerodrome.)	31·9	+0·3	33·2	6	19·1	+1·1	16·6	17,24, 26	0	0	−6·6	0	..	0	−0·3	14·7	12·5	+2·8	0	0	0	0	0	0	0	0	0	0	0
Porbander (Aerodrome)	32·6	..	34·1	10	19·2	..	14·1	22	0	0	..	0	..	0	..	15.1	13·2	..	0	0	0	0	0	0	0	0	0	0	0
Porbander	32·2	−0·8	34·5	3	20·7	+0·7	16·6	22,23	0	0	−11·3	0	..	0	−0·3	11·2	10·0	+0·5	0	0	0	0	0	0	0	0	0	0	0
Keshod	33·7	..	35·0	3	17·1	..	13·2	25	0	0	..	0	..	0	..	14·6	12·7	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	33·4	..	35·6	12	13·7	..	16·4	27	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	32·9	..	35·4	2	19·1	..	15·1	25	0	0	−4·3	0	..	0	−0·2	16·6	13·9	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	32.3	+0·6	34·5	3	21.0	+1·0	19·3	28	0	0	−30·7	0	..	0	−0·7	12·1	9·7	−0·4	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santa Cruz)	33·2	+0·9	34·9	3	20·6	+1·9	18·0	29	0	0	−7·4	0	..	0	−0·7	10·7	7·3	..	0	0	0	0	0	0	0	0	0	0	0
Bombay	33·2	+1·3	35·3	4	23·4	+0·9	21·6	13	0	0	−13·5	0	..	0	−0·8	6·3	5·1	−5·0	0	0	0	0	0	0	0	0	0	0	0
Alibag	31·5	+0·2	34·2	4	21·7	+0·8	18·3	30	0	0	−39.4	0	..	0	−1.4	..	8·1	+0·9	0	0	0	0	0	0	0	0	0	0	0
Harnai	31·5	+0·7	34·2	10	24·4	+0·5	22·6	30	0	3·0	−22·2	3·0	9	1	−0·5	11·3	11·1	−0·1	0	1	0	0	0	0	0	0	0	0	0
Ratnagiri	33·4	..	34·6	4	21·9	..	18·5	29	0·6	1·0	−24·7	0·6	9	0	−1·3	13·3	7·9	..	0	2	0	0	0	0	0	0	0	0	0
Devgarh	32·9	+1·0	34·3	4,13	22·7	0	18·4	29	0	4·9	−28·8	1·0	1	0	−1·9	13·2	10·8	+0·6	0	1	0	0	0	0	0	0	0	0	0
Vengurla	33·3	+0·6	34·8	15	20·6	−0·1	15·6	29	0	4·2	−16·2	3·5	1	1	−0·6	..	..	..	0	2	0	0	2	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	34·2	..	33·6	3	..	..	..	..	0	1·4	..	1·4	1	0	..	8·5	5·2	..	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	32·1	+0·1	33·1	3,17, 18	15·9	+1.4	11·4	28	0	0	−18·8	0	..	0	−0·9	11·6	9·5	+2·4	0	0	0	0	0	0	0	0	0	0	0
Malegaon	31·4	+0·5	33·4	3	16·3	+2·0	11·5	30	0	2·6	−19·5	2·6	9	1	−0·2	7·9	5·5	+0·4	0	1	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	30.8	..	33 0	2	15·8	..	12·7	29	46·4	48·0	..	45·7	9	1	..	8·8	5·1	..	0	4	0	0	3	0	0	0	0	0	0
Ahmednagar	30·7	+1·2	33·3	2	15·5	+0·9	11·9	28	7·1	7·1	−21·1	7·1	7	1	−0·4	9.8	6·8	+0·2	0	1	0	0	0	0	0	0	0	0	0
Khandala	..	..	..	..	..	..	..	..	..	13·6	−5·7	8·0	6	2	+0·3	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	30·9	..	32·7	1	17·3	..	13·8	30	0	5·9	..	4·6	7	1	..	..	..	..	0	2	0	0	3	0	0	0	0	0	0
Poona	31·4	+1·1	33·2	2	15·9	+1·3	11·4	30	7·5	7·5	−19.9	7·5	8	1	−0·6	5·3	2·4	−3·6	0	1	0	0	1	0	0	0	0	0	0
Jeur	30·5	−0·4	32·3	4	15·5	+0·3	11·0	29	16·6	85·8	+63·0	60·8	7	3	+1·9	10·2	6 7	+1·4	0	3	0	0	1	0	0	0	0	0	0
Baramati	31·2	+1·3	33·4	2	16·9	+0·9	11 2	30	0	13·2	−23·9	13 2	6	1	−1·3	9·2	8·7	+2·0	0	1	0	0	0	0	0	0	0	0	0
Sholapur	30·3	−0·5	31·7	3	17·3	+0·2	13.1	29	0	0	−33·8	0	..	0	−1·7	13·5	11·4	+1·6	0	0	0	0	0	0	0	0	0	0	0
Miraj	30·6	+1·0	31·6	4 days	17·8	+0·8	13·1	29	0	0	−40·2	0	..	0	−2.5	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	30·4	+0·2	31·4	4,14	16·7	+0·3	12·0	29	0	0·5	−31·8	0·5	1	0	−2·0	16·6	10·1	+1·4	0	1	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	30·1	0	32·8	3	16·9	+1·2	12·4	29	9·0	14·6	−9·5	7·4	8	2	+0·7	7·5	5·9	−1·5	0	2	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	29·5	..	31·7	3	14·0	..	7·7	29	5·8	9·4	..	5·8	8	2	..	10·2	6·1	..	0	2	0	0	1	0	0	0	0	0	0
Parbhani	30·3	−0·1	32·0	2	15·5	+0·3	11·2	29	0	0·2	−30·5	0 2	7	0	−1·6	9·6	6·6	+1·1	1	0	0	0	0	0	0	0	0	0	0
Nander	30·6	..	32·0	3	16.6	..	11·6	29	0	0	..	0	..	0	..	5·7	4·5	..	0	0	0	0	0	0	0	0	0	0	0
Bir	29·9	..	31·5	3	15·2	..	9·4	29	0	6·0	..	6·0	6	1	..	7·7	4·3	..	0	1	0	0	0	0	0	0	0	0	0
Vidarbha																													
Gondia	29·2	+0·1	31·0	2, 17	15.6	+0·3	11·0	26	0	0	−18 0	0	..	0	−0·9	4·6	2·4	−0·2	0	0	0	0	0	0	0	0	0	0	0
Nagpur (Sonegaon)	29·8	−0 1	31·3	17	14·5	+0·6	9·9	26	0	0	−19.6	0	..	0	−1·1	9·1	7·2	..	0	0	0	0	0	0	0	0	0	0	0
Amravati	30·4	+0·1	32·6	18	19·5	+2·5	14·4	27	0	0	−16·8	0	..	0	−1·0	9·5	8·9	+3·6	0	0	0	0	0	0	0	0	0	0	0
Akola	31·0	−0·1	32·9	17	16·0	+1·3	11·7	29	0	0	−18·5	0	..	0	−1·0	5·8	4·4	+0·2	0	0	0	0	0	0	0	0	0	0	0
Brahmapuri	29·4	..	31·6	18	16·4	..	11·4	27	0	0	..	0	..	0	..	7·1	4·1	..	0	0	0	0	0	0	0	0	0	0	0
Buldna	28·3	+0·2	30·2	18	16·3	−0 6	14·4	26	0	0	−22·0	0	..	0	−1·3	9·6	7·9	+2·0	0	0	0	0	0	1	0	0	0	0	0
Yeotmal	28·7	−0·4	30·4	17,18	16·9	+0·7	13·1	29	0	0	−1·9	0	..	0	−0·3	9·5	8·2	+1·1	0	0	0	0	0	0	0	0	0	0	0
Chanda	29·0	−0·6	30·6	18	15·6	+0.6	10·9	28	0	0	− 16·8	0	..	0	−1·3	5·5	2·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Pusad	31·2	..	34.0	3,4	14·3	..	10·6	30	0	0	..	0	..	0	..	(b) 7·0	(c) 4·5	..	0	0	0	0	0	0	0	0	0	0	0
Sironcha	29·8	−0·4	32·4	4	17·3	+0·4	12·0	28	49·0	49·0	+44·2	41·0	5	2	+1.3	5·6	2·9	−0·3	0	2	0	0	1	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	28·3	−0·3	30·0	19	18·5	−2·2	15·6	26,27	0	53·6	−32·5	53·6	1	1	−1·7	12·7	9·1	−0·6	0	1	0	0	1	0	0	0	0	0	
Visakhapatnam	28·9	−1·4	30·6	1,3	20·5	−1·1	16·8	27	27·4	81·1	−37·5	39·4	5	3	−0·9	15·3	8·9	+2·8	0	4	0	0	2	0	0	0	0	0	0
Kakinada	28·3	−0·1	30·0	24,25	20·9	−1·1	17·7	29	29·8	81·8	−60·2	35·8	4	4	−0·5	17·3	14·4	+3·1	0	5	0	0	0	0	0	0	0	0	0
Nidadavole	29·8	..	31·4	20	20·2	..	18·0	24,25, 26	15·0	15·0	..	15·0	4	1	..	10·7	7·6	..	0	1	0	0	0	0	0	0	0	0	0

(b) Mean of 29 days.

(c) Mean of 28 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean Minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm. or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Coastal Andhra Pradesh—(Contd.)																													
Rentachintala	29·7	−0·9	31·0	1	19·5	−0·3	14·4	28	47·6	47·6	−0·7	32·0	5	2	−1·6	2·7	1·5	−3·8	0	2	0	0	0	0	0	0	0	0	0
Gannavaram	29·8	−0·9	31·4	1	21·1	0	17·6	27,28	4·6	10·8	−22·9	−7·0	3	2	−0·4	14·4	10·3	+0·1	0	2	0	0	1	0	0	0	0	0	0
Nagarjunakonda	30·5	..	32·1	1	19·7	..	14·3	28	44·5	73·9	..	41·2	6	3	..	9·0	6·5	..	0	3	0	0	0	2	0	0	0	0	0
Masulipatam	29·2	−0·1	32·1	28	22·6	+0·8	19·0	27,28	98·6	119·6	−27·2	53·0	3	3	−1·7	7·0	4·8	−2·0	0	3	0	0	1	0	0	0	0	0	0
Ongole	28·0	..	30·7	1	21·8	..	20·0	25	22·0	121·1	..	42·2	13	6	..	8·8	5·5	..	1	7	0	0	0	0	0	0	0	0	0
Nellore	28·3	−1·3	30·9	1	21·8	−0·4	19·4	28	102·4	401·4	+104·2	74·2	11	14	+5·2	4·9	3·8	−1·0	0	14	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	30·0	−0·7	32·0	4,13	18·0	+0·1	13·5	27	65·0	71·4	+60·7	70·2	5	1	+0·2	7·1	4·1	−0·4	0	2	0	0	1	0	0	0	0	0	0
Nizamabad	28·9	−0·9	30·9	2	16·5	+0·7	11·9	28	0	0	−10·5	0	..	0	−1·1	6·3	4·8	+1·3	0	0	0	0	0	1	0	0	0	0	0
Hanamkonda	29·3	−0·3	30·6	5days	18·5	+0·7	14·0	27,29	41·0	94·8	+60·9	58·0	5	3	+1·3	6·3	4·1	−0·6	0	3	0	0	0	0	0	0	0	0	0
Hakimpet (Aerodrome)	26·8	..	28·8	2	17·1	..	13·2	29	0	2·5	..	2·5	2	1	..	..	..	..	0	1	0	0	0	2	0	0	0	0	0
Bhadrachallam	29·8	−0·7	32·0	1	18·2	0	12·4	29	0	7·0	−1·6	5·0	3	2	+1·4	6·0	3·9	−0·6	0	2	0	0	0	0	0	0	0	0	0
Hyderabad (Begumpet)	27·5	−1·3	29·0	1,2	15·5	−0·6	10·3	28	5·7	9·7	−19·3	7·3	4	1	−1·1	10·8	6·8	−0·9	0	2	0	0	0	2	0	0	0	0	0
Khammam	29·8	..	31·6	1	19·2	..	14·2	28	9·4	9·4	..	8·0	4	1	..	4·3	2·4	..	0	2	0	0	0	0	0	0	0	0	0
Nalgonda	28·4	.	29·8	2	17·7	.	13·4	29	0	0·5	..	0·5	4	0	..	13·6	10·1	..	0	1	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	30·5	−0·6	32·7	13	19·5	+0·7	14·4	28	0·6	10·6	−19·6	10·0	1	1	−1·1	7·3	5·2	+1·3	0	2	0	0	0	0	0	0	0	0	0
Anantapur	29·3	−0·7	30·9	1	20·9	+0·5	14·9	27	12·4	19·3	−31·3	18·0	3	1	−2·1	14·0	11·1	+2·6	0	2	0	0	1	0	0	0	0	0	0
Cuddapah	29·1	−1·8	30·9	1	20·7	−0·1	17·3	27	21·4	52·0	−37·7	16·6	3	6	+0·8	6·6	4·8	−0·7	0	8	0	0	0	0	0	0	0	0	0
Aroyavaram	25·4	..	27·8	1	17·3	..	13·0	28	36·9	76·0	..	17·3	3	7	..	8·4	5·5	..	0	8	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	29·0	..	30·3	1	22·4	..	19·2	28	..	176·4	..	70·4	12	7	..	..	8·2	..	0	15	0	0	2	0	0	0	0	0	0
Madras (Minambakkam)	29·1	−0·6	30·4	1	22·1	−0·1	18·9	28	30·4	122·9	+231·7	24·4	30	8	−3·1	17·5	11·3	−3·7	1	14	0	0	4	0	0	0	0	0	0
Vellore	29·3	+0·2	31·0	6	19·9	−0·7	16·2	28	43·0	78·3	116·8	14·4	2	9	+0·5	7·9	7·1	+3·9	0	13	0	0	3	0	0	0	0	0	0
Tambaram (Aerodrome)	29·7	..	31·7	1	..	..	..	..	73·2	178·4	..	77·2	12	7	..	..	..	..	0	10	0	0	3	0	0	0	0	0	0
Tiruppattur	29·3	..	31·0	2	17·9	..	14·5	18,28	23·0	25·3	..	12·7	9	3	..	6·2	4·2	..	1	3	0	0	1	0	0	0	0	0	0
Cuddalore	29·1	0	30·6	2	22·3	−0·3	19·0	23	72·1	195·1	−199·1	70·6	3	9	−2·6	14·2	11·6	+5·5	1	12	0	0	3	0	0	0	0	0	0
Kallakurichchi	29·3	..	30·9	13	21·9	..	19·8	28	62·6	123·4	..	54·0	3	7	..	12·1	9·3	..	1	8	0	0	3	0	0	0	0	0	0
Salem	31·1	+0·5	32·2	2	21·3	+0·6	18·8	20	7·2	15·8	−81·0	6·2	3	2	−4·2	11·6	10·6	+6·1	1	5	0	0	2	0	0	0	0	0	0
Coimbatore (Pilamedu)	28·8	..	29·7	9	20·2	..	16·9	29	10·0	108·5	..	38·2	1	8	..	17·6	11·2	..	0	10	0	0	3	1	0	0	0	0	0
Coimbatore	29·5	−0·2	30·8	12,18	20·0	−0·6	16·9	22	17·0	95·4	−7·0	27·2	1	10	+3·2	10·3	6·9	+3·4	0	11	0	0	1	0	0	0	0	0	0
Nagapattinam	28·2	−0·8	30·6	3	23·7	+0·1	21·3	28	54·0	163·9	−281·6	40·6	15	13	0	19·3	19·3	+9·5	0	16	0	0	1	0	0	0	0	0	0
Tiruchirappalli	30·0	−0·3	31·6	1	22·5	+0·3	20·5	20	78·2	128·5	−19·8	41·2	2	9	+0·5	14·4	11·5	+5·4	0	12	0	0	7	0	0	0	0	0	0
Vedaranniyam	30·1	..	32·8	5	23·2	..	..	..	66·3	210·6	..	45·5	13	14	..	12·6	10·7	..	0	17	0	0	1	0	0	0	0	0	0
Aduthurai	29·6	..	31·3	5	22·8	..	19·5	28	113·8	113·8	..	25·8	6	13	..	12·4	9·7	.	0	16	0	0	5	0	0	0	0	0	0
Madurai	31·0	+0·6	32·7	12	23·1	+0·3	20·7	28	15·6	37·4	−108·1	16·2	1	6	−2·0	10·3	7·4	+0·8	0	6	0	0	0	0	0	0	0	0	0
Madurai (Aerodrome)	29·8	..	31·1	9	22·1	..	20·0	19,22	23·6	59·2	..	18·8	2	6	..	16·7	11·9	..	0	7	0	0	5	0	0	0	0	0	0
Tondi	30·2	..	31·6	11	23·0	..	20·6	28	37·6	286·8	..	63·0	2	14	..	16·7	13·3	..	0	17	0	0	2	0	0	0	0	0	0
Pamban	29·5	[illegible]	30·8	5,6	23·9	−0·7	23·0	2,6	38·7	316·5	+18·8	67·0	1	12	−1·0	15·2	15·5	+1·2	0	16	0	0	0	0	0	0	0	0	0
Tuticorin	28·5	−0·6	29·8	11	23·1	−0·7	21·0	28	16·7	441·1	+225·0	96·5	16	16	+6·7	22·4	19·7	+5·9	0	16	0	0	11	0	0	0	0	0	0
Palayamkottai	30·0	−0·7	32·1	1,5	22·3	−1·3	21·0	19,20	79·0	239·8	+55·0	53·2	16	14	+4·5	6·5	4·6	−2·2	0	17	0	0	3	0	0	0	0	0	0
Kanyakumari	29·8	..	31·5	3	23·6	..	21·7	17	42·2	230·0	..	99·8	15	10	..	24·7	21·2	..	0	13	0	0	2	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32·7	+1·1	34·2	13	21·6	+0·7	17·7	28	0	0	−53·7	0	..	0	−2·8	10·1	6·0	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	33·5	+0·8	35·7	13	22·5	+0·6	19·8	24	0	2·5	−59·0	2·5	1	1	−1·9	9·4	8·3	+4·1	0	1	0	0	4	0	0	0	0	0	0
Mangalore (Bajpe)	32·1	..	34·1	13	22·3	..	19·6	19	0·4	14·7	..	7·0	3	2	..	(k) 9·1	(m) 6·3	..	0	5	0	0	6	0	0	0	0	0	0
Mangalore	33·0	+2·0	35·2	13	22·3	−0·8	20·4	19,29	0	40·2	−32·2	23·8	4	2	−2·4	11·0	8·6	+2·2	0	4	0	0	6	0		0	0	0	0
Interior Mysore (North)																													
Bidar	27·1	−1·0	28·2	4days	17·5	−0·6	14·2	29	0·4	5·0	−16·8	4·4	7	1	−0·7	14·6	10·7	+1·8	0	2	0	0	0	0	0	0	0	0	0
Gulbarga	29·9	−0·8	31·2	1	16·9	−0·4	10·6	29	17·6	17·6	−10·3	17·6	7	1	−0·7	12·0	11·1	+1·6	0	1	0	0	0	0	0	0	0	0	0
Bijapur	29·6	−0·2	31·2	5	18·1	+1·0	12·0	29	0	0	−32·3	0	..	0	−1·8	5·4	3·4	−0·5	0	0	0	0	0	0	0	0	0	0	0
Raichur	29·4	−0·9	30·6	1,2	19·5	−0·3	14·2	28	0	0	−29·5	0	..	0	−1·8	12·6	10·9	+2·2	0	0	0	0	0	0	0	0	0	0	0
Belgaum	29·6	+0·2	31·1	11	16·9	+0·1	11·0	28	0	24·0	−15·4	18·6	7	2	−0·4	8·6	8·0	+1·9	0	2	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	28·4	..	29·7	19	17·7	..	13·3	28	0	59·2	..	41·2	7	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Gadag	29·5	+0·1	31·1	1	17·7	−0·5	13·1	28	0	1·8	−43·4	1·8	1	0	−3·0	12·2	8·6	+1·7	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·8	−0·8	30·8	9	19·5	+0·5	15·7	29	2·0	17·0	−33·0	10·0	1	2	−1·1	9·6	6·1	+2·2	0	4	0	0	0	0	0	0	0	0	0
Chitradurga	27·1	−1·3	28·5	14	18·3	·0	14·8	28	1·2	1·8	−58·4	1·8	3	0	−3·4	10·8	8·7	+2·7	0	1	0	0	0	0	0	0	0	0	0
Shimoga	28·9	−0·2	29·7	8	16·7	−0·4	12·1	27	0·4	0·4	−49·2	0·4	3	0	−3·3	10·7	5·5	+1·4	0	1	0	0	0	0	0	0	0	0	0
Agumbe (R)																			0	4	0	0	0	0	0	0	0	0	0
Balehonnur	26·4	+0·3	28·1	14	16·4	0	12·8	29	..	21·1	−51·	1·5	9	1	−3·7	..	..	..	0	5	0	0	0	0	0	0	0	0	0
Hassan	26·4	−0·7	27·5	8	16·8	+0·5	13·1	28	0	39·8	−37·2	19·0	4	4	−0·6	6·5	4·7	+0·2											

(R) Register not received. (k) Mean of 20 days. (m) Mean of 18 days.

District and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2 mm.)	Precipitation (0.3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	29
Interior Mysore (South)—(*Contd.*)																													
Bangalore	26·2	−0·1	27.3	2	17 1	+0·6	14·1	29	8.5	43 1	−24·7	16.3	14	4	−0.5	10·9	9·4	+2·3	0	8	0	0	1	1	0	0	0	0	0
Bangalore Aerodrome	27 4	..	28.7	3	16.4	..	13 5	29	18·6	32.6	..	20.4	3	3	..	..	..	..	1	6	0	0	1	2	0	0	0	0	0
Mysore	29.5	+1·6	30 8	4 days	19 5	+1·5	15·3	25	1.6	9.9	−59.7	8.6	3	1	−3.2	12.2	12.5	+4.5	0	3	0	0	0	2	0	0	0	0	0
Kerala																													
Calicut	31·6	+0·9	32·9	25,27	23.6	+0·3	21·1	20	1 4	68.2	−70.5	46.8	2	4	−2·2	10·1	8·5	+2·4	0	5	0	0	4	0	0	0	0	0	0
Palghat	32·3	..	34·0	8	23.2	..	21·3	20	0	38 2	..	31·0	3	2	..	13·0	10·6	..	0	3	0	0	1	0	0	0	0	0	0
Fort Cochin	30.9	+1 1	31·9	20	23·9	−0.2	22 4	9	19 3	85.4	−84.5	36 1	9	6	−2·4	10·0	7·4	+2·1	0	8	0	0	7	0	0	0	0	0	0
Cochin (Naval Air-Station)	31 9	..	32·9	14,28	23·7	..	21·4	29	2 3	52·2	..	13·1	3	6	..	9·0	6·4	..	1	7	0	0	12	0	0	0	0	0	0
Alleppy	32·0	+1·6	34·0	13	23·6	−0·3	21·6	20	54 1	146·3	−82·5	74·0	2	8	−3.0	11·9	8·0	−0.4	0	13	0	0	10	0	0	0	0	0	0
Punalur	32 6	..	34 5	9,11	22·4	..	18 9	22	13 0	16.6	..	16·6	16	1		6·6	4·0	..	0	1	0	0	0	0	0	0	0	0	0
Trivandrum	31.2	+1.1	34·3	11	23·3	+0 2	21·7	22	24 8	109.3	−68 0	26 4	15	8	−1·5	6.1	4·9	+0 7	2	13	0	0	9	0	0	0	0	0	0
Trivandrum Aerodrome	30.9	..	33·3	11	23 1	..	21·3	22	.	71 5	..	16·2	15	8	..	..	5·4	..	0	12	0	0	6	0	0	0	0	0	0
Arabian Sea Islands																													
Agatti*																													
Minicoy*																													
(B) Stations excluding Kashmir																													
Dalhousie		..	.	..	..	.	..	..	48 0	136.0	+111 9	47·0	27	5	+3.9	3·9	4 3	+1.7	0	5	0	0	4	0	0	0	0	0	0
Dharmsala	17 7	−3·0	20 6	3,5	9·3	−2·1	7·3	17,30	35 4	52.2	+37 2	21 2	17	3	+2·2	4 0	2·7	−1 0	0	5	0	0	3	0	0	0	0	0	0
Simla	12 9	[illegible]	1[illegible]·5	[illegible]	5.7	−1 1	2·4	17	11 7	11.7	−1·5	10 1	17	1	−0 1	4 6	3 3	+1 4	0	3	1	1	1	0	0	0	0	0	0
Dharmpur							..	..	.	8 0	−0 1	8 0	17	1	+0 2	..		..	0	1	..	..	.	..	..	..	..	.	.
Lokpal	[illegible]		[illegible]·5		−[illegible]·6	..	−10·4	28	..	105 6	..	30 0	17,27	6	..	..		..	0	8	6	8	0	2	0	0	0	[illegible]	[illegible]
Badrinath	closed during winter months																												
Joshimath	14 6		1[illegible]·3	1	4.9	..	2 1	23,24	7 2	20 1	..	10 4	17	3	.	5·1	6·3	..	0	4	0	0	0	0	0	0	0	0	0
Mussoorie	13 7	−1 6	1[illegible]·3		5.5	−1·8	2 3	17	0	5 8	+1.5	3 8	1	1	+0 1	8·8	7·0	−0 2	0	2	0	0	2	2	0	0	0	0	0
Mukteswar	13 2	−1·7	17·8	1[illegible]	4·9	−1 2	1·8	17	0	0	−10·7	0	..	0	0·7	8·7	9·3	+1·9	0	0	0	0	1	0	0	20	0	0	0
Nainital	13 2	−[illegible]·5	18·4	19	4.5	−1 1	1·7	23.24	0	0	7·4	0	..	0	−0·5	8.3	6·7	−0·4	0	0	0	0	0	0	0	0	0	0	0
Kalimpong	21 3	+2 0	24·5	4days	13·3	+1·4	8·4	28,29	0	0	−18·0	0	..	0	−1·4	5·0	4·2	−6·3	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	14 5	+0 1	17·8	3	6·1	−1·1	2·9	23	0	0	−20·6	0	..	0	−1·2	2·4	1·7	+0·3	0	0	0	0	1	2	0	0	0	0	0
Kohima (R)																													
Shillong	19·3	−0 6	21·2	2	7·3	−0.6	2·8	23	40 6	48·2	+7·3	20·8	7	4	+1·3	3·9	3·2	+1·3	1	8	0	0	0	0	0	0	0	0	0
Cherrapunji	19·3	−0 4	21.5	2,4,5	13 1	+0 9	10 4	30	0	22.5	−46 1	18 5	6	1	−0·8	6·2	6·1	+1 8	0	3	0	0	0	0	0	0	0	0	0
Abu	23·7	+0 5	25·6	13	11 1	−3 2	9·2	25	0	0	−5·6	0	..	0	−0·4	3·5	1·8	−2·9	0	0	0	0	0	0	0	0	0	0	0
Ajmal	22·1	..	26 1	4	14·8	..	11·6	26	9 0	9·0		9 0	6	1	.	2·5	2·4	..	0	1	0	0	0	0	0	0	0	0	0
Pachmarhi	24·0	+0 4	25·4	2	9·9	−0·5	4·8	25	4 0	21 4	+2 6	17 4	1	2	+0·8	4·0	2·1	−1·0	0	2	0	0	2	0	0	0	0	0	0
Mahabaleshwar	24·2	+0 9	26 0	16	14·2	−0·7	11·3	30	26 2	26·2	−13 4	13 1	8	2	−0·4	10·7	11·3	−0·8	0	3	0	0	0	4	0	0	0	0	0
Mercara	21·0	+0 1	25 6	26	15·3	−0 5	12·0	27	3 0	35·6	−40 6	30 0	3	2	−3 3	..	..	..	0	3	0	0	0	0	0	0	0	0	0
Goracumund	20·4	+2 3	24·4	21	..	..	..	..	16 8	76 4	−84·4	41·4	2	5	−5·5	6·3	3·3	−1·0	1	11	0	0	0	0	0	6	0	0	0
Coonoor	19 3	−0 1	22·1	21	11·1	−0 7	5 7	13	.	452·0	+166·8	116·6	2	17	+4·3	..	6·0	+1·0	0	17	0	0	0	2	0	0	0	0	0
Kodaikanal	17·1	+1 0	20·7	22	9·9	+0·2	8·1	18	93.6	161 4	−97·4	34 0	1	12	−0·8	13·3	12·1	0	0	14	0	0	1	0	0	0	0	0	0
Nepal																													
Katmandu	21·3	..	24·3	4	6·3	..	2·6	26	1·6	1·6		1.6	8	0		0·9	0·7	..	0	1	0	0	2	28	0	0	0	0	
Sikkim																													
Lachen	11·2	..	14.7	2,4	0·4	..	−2·5	25	..	22·4		11·2	17	2	.		..	..	0	7	..	..	..	..	..	..	..	..	.
Hydrometeorological Observatories																													
Damodar Catchment																													
Pilaya	25 0		26·6	3	13·8		9·6	26	0	0		0	.	0		7·2	3·9	..	0	0	0	0	0	0	0	0	0	0	0
Hazaribagh	23·5	..	25 1	17,18	11 5	.	7 9	26	0	0	.	0	.	0		5·5	2·8		0	0	0	0	0	1	0	0	0	0	0
Konar	..	..	..	..	..	..	..	..	0·5	0 5		0.5	5	0		..	..	..	0	1	0	0	0	0	0	0	0	0	0
Bokaro	27·2	..	30·1	14	11·9	..	8·4	20	0	0	..	0	.	0		5·2	3·7	..	0	0	0	0	0	1	0	0	0	0	0
Maithon	26·4	..	32 2	5	15·7	..	11·3	27	1 0	1·0		1·0	6	0					0	1	0	0	0	18	0	0	0	0	0
Ramgarh	26·9	..	28 8	18,19	12·6	..	8·4	26	0 5	0.5	.	0·5	5	0		2·2	1·0	..	0	1	0	0	0	1	0	0	0	0	0
Panchet Hills	26·9	..	28 8	20 3,4	16·4		13·1	30	1 8	2 4	..	1·8	6	0		4·6	3·2	..	0	2	0	0	0	4	0	0	0	0	0
Durgapur	28·4	..	31·7	18	15·3	..	11·6	27	0 2	0·8	..	0·8	6	0		8·3	6·7	..	1	1	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	27·2	..	29·4	2	12·1	..	5·0	26	..	2·1	..	2·1	5	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	27·9	..	30·4	4	16·9	..	13 2	28	17·4	21.2	..	18·4	6	2	..	5.9	3·3	..	0	2	0	0	0	2	0	0	0	0	
Bhimkund	29 7	..	30 6	9,10	14·0	..	9·4	27,28	6 0	2.8	..	2·8	6	1	..	4·4	2·4	..	0	1	0	0	0	3	0	0	0	0	

*Data given as addenda in December 1961 issue.

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours		No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed km. per. hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Galt	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 a	20 b	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—(Contd.)																													
Mahanadi Catchment—contd.																													
Sonepur	26·8	..	30.6	18	16.1	..	11.1	26	..	0.6	..	0 6	5	0	..	..	2.4	..	0	1	..	..	..	..	..	..	..	..	..
Khijrawan	27·4	..	30.0	11	13.7	..	9·4	27	7.5	13.8	..	10.0	6	2	.	4.7	3·3	..	0	2	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Bagra Tawa	29·5	..	31·1	16,18	13·8	..	8·5	25	0	0	..	0	..	0	..	2·9	1·7	..	0	0	0	0	0	0	0	0	0	0	0
Punasa	30·8	..	32·9	16	15·5	..	10·6	26	0	0	..	0	..	0	..	3·6	2·1	..	0	0	0	0	0	0	0	0	0	0	0
Thikri	32·0	.	33·4	15	16·4	..	11·8	26	..	2.0	..	2.0	6	0	..	..	..	..	0	1	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Dharoi	32.0	..	33·6	15	16·5	..	13·4	25	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ganga Catchment																													
Mukhim	15.5	..	20·6	19	6·1	..	2·2	17	24.5	25·2	..	16·8	17	2	..	..	..	..	1	6	0	4	3	0	0	0	0	0	0
Tehri	24·2	..	26·5	6	(g) 8·4	..	4.1	13	0·5	[illegible]	..	11·7	17	0	..	2·1	1·4	..	0	1	0	0	0	[illegible]	0	0	0	0	0
Gandak Catchment																													
Jomosom	13·3	..	15·8	5	0	..	−3.4	23	0	2.2	..	2.0	7	0	..	..	..	..	1	1	..	..	..	..	..	..	..	..	.
Khudi Bazar	..	..	.	..	..	..	..	..	3·8	4·4	..	3·8	18	1	..	..	..	..	0	2	..	..	..	.	..	..	..	..	.
Timure	18·3	..	21·8	4	5·7	..	2·4	25	7·4	14·3	..	8·9	8	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Pokhara	22·3	..	25·3	4	10·5	..	7·8	24	0·6	1.5	..	0.8	17	0	..	4·3	3·7	..	0	3	0	0	9	0	0	0	0	0	0
Gorkha †																													
Nawakot	23·0	..	26 5	4	10·0	..	7·3	25	0	0	..	..	..	..	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R)																													
Ghaghar Catchment																													
Mansiari (R)																													
Dadeldhura	14·7	..	19·5	19	(k) 7.0	..	4·4	22,23	1.1	1·1	..	1·1	2	0	..	..	..	..	0	1	0	0	1	0	0	0	0	0	0
Sallayana	19·4	..	21·7	19	(k) 9·7	..	6·0	24,26	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Butwal	26·9	..	29.4	3	16·1	..	11·1	18	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..		..	..	..	..
Bagmati Catchment																													
Katmandu*																													
Kosi Catchment																													
Chautara	21·1	..	23·6	3	8·9	..	6·2	24	0	0	..	0	..	0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	..	..	..	..	..	..	..	..	4·6	30·5	..	14·0	7	3	..	..	..	..	0	8	..	..	..	..	..	..	..	..	..
Walungchung Gola	9·7	..	13·4	2,3	−1·5	..	−6.0	25	4·3	6·2	..	2·6	8	1	..	..	..	..	0	6	..	..	..	..	..	..	..	..	..
Taplethok	21·1	..	24·7	22	8·5	..	4·8	25	0	20·0	..	6·8	15	3	..	..	..	..	0	7	..	..	..	..	..	..	..	..	..
Bhojpur	18·3	..	21·0	1	9·6	..	7·2	24	0	0	..	0	..	0	..	..	..	..	0	0	..	..	..	..	..	..	..	..	..
Taplejung	17·6	..	21·3	2,3	(b) 5·7	..	2·4	25	0	3 0	..	2·4	16	0	..	..	..	..	0	2	0	0	1	0	0	0	0	0	0
Okhaldunga	17·5	..	20·6	5	7·6	..	4·1	24	14.2	23·0	..	14·2	13	3	..	2·6	1·9	..	0	3	0	2	5	0	0	0	0	0	0
Chainpur	21·2	..	24·2	1	12·1	..	9.3	24	0	0·6	..	0·6	6	0	..	..	..	..	0	1	..	..	..	..	..	..	..	..	..
Angbung	(j) 21·9	..	25·3	20	(f) 9·6	..	7·1	22	(e) 2·0	(f) 8·0	..	..	..	..	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..
Barahkshetra	26·5	..	29·1	4	13·4	..	9·1	23	0·4	3·6	..	3·0	7	1	..	6.1	5·4	..	1	2	0	0	1	0	0	0	0	0	0
Tista Catchment																													
Gangtok	18·5	..	21·7	4	7·1	..	4.3	23,25	21·4	22·6	..	13·3	18	2	..	2·4	2.3	..	0	6	0	1	2	1	0	0	0	0	0
Gezing	20·8	..	24·2	3	7·7	..	4.5	23	10·8	12.6	..	6·9	15	2	..	..	..	..	0	2	..	..	..	..	..	..	..	..	..

(R) Register not received. (f) Total for 25 days. (j) Mean of 21 days. *Data included under "Nepal". (k) Mean of 20 days.
†Data not reliable. (g) Mean of 24 days. ( ) Mean of 25 days. (e) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	(Cloud amount Oktas): Mean amount	(Cloud amount Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012·9	1009.8	..	28·2	25·1	23·9	29·5	77	..	4·6	..	7·6	0	0	30	0	24	3	1	0	0	0	0	0	0
	1730	,,	1010·3	1007·2	..	26·9	24·3	23·2	28·4	80	..	4·0	..	7·2	0	0	26	0	22	1	3	0	0	0	0	4	0
Long Island	0830	25	1012·8	1010·0	..	28·4	25·6	24·4	30·5	79	..	5·2	..	3·9	0	0	24	0	24	0	0	0	0	0	0	6	0
	1730	,,	1010·5	1007·7	..	26·3	24·5	23·8	29·5	85	..	5 1	..	8·0	0	0	17	0	17	0	0	0	0	0	0	13	0
Port Blair	0530	79	1011·0	1002·1	..	24·8	24·0	23·6	29·1	93	..	5·2	..	6·7	0	0	21	1	10	9	1	0	0	0	0	9	0
	0830	,,	1012·8	1003·9	+0·8	28·2	25·8	24·8	31·3	82	+6	5·4	+0·8	11·3	0	1	26	0	15	11	0	1	0	0	0	3	0
	1130	,,	1011·1	1002·2	..	28·7	26·1	25·1	31·9	80	..	5·6	..	11·5	0	0	28	0	14	12	2	0	0	0	0	2	0
	1730	,,	1010·3	1001·4	..	26·1	24·6	23·9	29·7	88	..	5·0	..	8·7	0	1	26	0	18	6	2	1	0	0	0	3	0
	2330	,,	1011·5	1002·5	..	25·5	24·4	23.9	29·7	91	..	5·0	..	7·8	0	0	25	0	16	8	1	0	0	0	0	5	0
Car Nicobar	0830	19	1012·1	1010·9	..	28·3	25·3	24·1	30·0	79	..	5·3	..	4·8	0	0	28	1	20	5	2	0	0	0	0	2	0
	1730	,,	1009·7	1008·5	..	26·6	24·8	24·0	29·8	85	..	5·1	..	3·3	0	0	20	0	14	5	1	0	0	0	0	10	0
Nancowry	0830	26	1011·9	1009·0	..	28·9	26·3	25·1	31·9	81	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1009·3	1006·5	..	26·1	24·6	24·0	29·8	88	..	4·1	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
[illegible]	0830	8	1011·9	1010·9	..	26·8	25·2	24·5	30·7	87	.	5·5	..	1·9	0	0	13	0	5	8	0	0	0	0	0	17	0
	1730	,,	1009·2	1008·3	..	26·1	24·8	24·1	30·0	89	..	5 3	..	1 8	0	0	15	0	7	8	0	0	0	0	0	15	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1017·9	999·6	..	19·4	15·6	12·5	14·5	65	..	2.6	..	1·8	0	13	16	3	0	0	1	0	0	0	25	1	0
	1730	,,	1014·3	996·1	..	18·1	16·7	15·6	17·7	85	..	2·5	..	1·6	0	0	10	2	0	0	0	0	0	0	8	20	0
Dibrugarh (Mohanbari)	0230	111	1013·9	1000·8	..	14·5	14·0	13·5	15·5	95	..	3·0	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
	0530	,,	1014·9	1001·7	..	13·7	13·4	13·1	15·0	96	..	3·4	..	0 6	0	0	4	0	3	0	1	0	0	0	0	26	0
	0830	,,	1016·6	1003·7	−0·2	19·5	17·3	15·7	17·8	80	−7	3·2	+0·6	3·6	0	0	22	0	16	6	0	0	0	0	0	8	0
	1130	,,	1014·3	1001·6	..	23·4	18·5	15·1	17·3	61	..	3.1	..	3·1	0	0	25	3	11	9	1	0	0	0	1	5	0
	1730	,,	1012·8	999·8	..	18.9	17·3	16·3	18·5	84	..	2·7	..	0.5	0	0	3	0	3	0	0	0	0	0	0	27	0
	2330	,,	1014·3	1001·2	..	15·1	14·6	14·1	16·0	94	..	3·2	..	0 2	0	0	2	0	2	0	0	0	0	0	0	28	0
Dibrugarh	0830	106	1016 9	1004·7	+0·3	20·9	17·7	15·3	17·7	70	−12	2·8	+0·2	1·7	0	0	17	1	10	4	0	0	0	0	2	13	0
	1730	,,	1013·2	1001·0	..	21·0	18·0	16·0	18·1	73	..	1·5	..	0·3	0	0	3	0	2	1	0	0	0	0	0	27	0
Dibrugarh	0830	..	..	..	..	20·0	18·4	17·3	19·9	85	..	..	..	..	..	..	..	7	1	3	6	3	0	3	1	1	0
	1730	..	..	..	..	19.7	18·5	17·5	20·2	88	..	..	..	..	..	..	..	4	2	8	6	4	3	3	0	0	0
North Lakhimpur	0830	102	..	..	..	20·1	17·5	15·6	17·7	76	0	2·2	−0·5	3·1	0	0	26	7	5	8	1	1	0	0	4	4	0
	1130	,,	..	..	..	24·6	18·8	15·3	17·3	59	..	2·5	..	3·8	0	0	30	4	9	9	5	3	0	0	0	0	0
	1730	,,	..	..	..	19·7	17·9	16·9	19·2	84	..	1·7	..	1·5	0	0	13	5	1	0	1	0	0	0	6	17	0
Sibsagar	0830	97	1018·2	1006·9	+1·5	19·8	18·4	17·5	20 0	88	−1	6·3	+0·9	2·1	0	0	16	5	8	1	2	0	0	0	0	14	0
	1730	..	1013·9	1002.8	..	22·0	19·3	17·7	20·2	77	..	2·4	..	0 5	0	0	3	1	1	1	0	0	0	0	0	27	0
Gohpur	*0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	*1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Majbat	0830	77	..	..	..	..	..	..	..	..	..	1 6	..	1·5	0	0	11	0	5	4	1	0	0	0	0	19	1
	1730	,,	..	..	..	..	..	..	..	..	..	1·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Jorhat	0530	90	1015.4	1004 8	..	15·2	15·1	15·0	17·1	99	..	4·5	..	2·1	0	0	8	1	3	2	0	0	1	0	0	22	1
	0830	,,	1017·4	1006·8	..	19·6	18·1	17·1	19·6	86	..	4·4	..	4·7	0	0	17	0	13	4	0	0	0	0	0	13	0
	1130	,,	1015·1	1004·8	..	24·2	19·9	17·3	19·7	66	..	2·3	..	7·1	0	0	24	0	16	7	0	0	0	0	1	6	0
	1730	,,	1013·2	1002·8	..	20·1	18 6	17·6	20·1	86	..	2·4	..	2·3	0	0	9	0	7	1	0	0	0	0	1	21	0
	2330	,,	1015·1	1004·5	..	16·5	16·3	16·1	18·2	98	..	2·6	..	1·2	0	0	5	0	3	1	0	0	1	0	0	25	0
Tezpur	0830	78	1016·6	1007·5	..	21·6	18·1	15·8	17·9	70	..	1·1	..	1·2	0	0	6	0	5	1	0	0	0	0	0	24	0
	1730	,,	1013·5	1004·4	..	21·0	18·6	17·1	19·5	78	..	0·8	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Tezpur	0830	79	1018·0	1008·9	+1·0	26·2	17·4	9·8	12·1	38	−43	2·0	−0·3	2.5	0	0	21	0	20	1	0	0	0	0	0	9	0
	1730	,,	1013·1	1004·4	..	26·4	20·1	16·0	18·2	54	..	1·7	..	0·8	0	0	8	0	8	0	0	0	0	0	0	22	0
Gauhati	0830	..	..	..	..	20·3	18·1	16·6	19·0	80	..	0 5	..	(b) 0 3	0	0	3	0	0	0	3	0	0	0	0	26	0
	1730	..	..	..	..	23·1	19·8	17·7	20·5	72	..	3·5	..	(g) 0	0	0	0	0	0	0	0	0	0	0	0	24	0
Rangia (R)	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chaparmukh	0830	66	1017·9	1010·3	..	20·6	18·8	17·7	20·2	84	..	3·7	..	4·1	0	0	30	2	0	21	2	3	0	1	1	0	0
	1730	,,	1013·2	1005·6	..	24·8	20·6	18·3	20·8	67	.	3·1	..	3·0	0	0	29	7	4	9	3	4	0	2	0	1	0
Goalpara (R)	0830	38	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(R)	1730	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gauhati	0830	55	1017·1	1010·6	+0·9	19·6	18·3	17·6	20·1	89	+3	4·0	+1·4	0·6	0	0	6	1	3	1	0	0	0	0	1	24	0
	1730	,,	1013·3	1006·9	..	23·5	20·0	17·9	20.5	71	..	2·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Gauhati (Bhorjo)	0230	54	1014·3	1008·0	..	16·7	16·2	15·8	17·9	94	..	2·3	..	1·4	0	0	7	0	5	1	0	1	0	0	0	23	0
	0530	,,	1015·0	1008·7	..	16·4	16·0	15·7	17·8	96	..	4·5	..	1·1	0	0	8	2	3	2	0	1	0	0	0	22	0

*Data not reliable (h) Mean of 29 days. (R) Register not received. (g) Mean of 24 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mb.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam (Including Manipur, Tripura) —*Contd.*																											
Gauhati (Bhorjor) —*contd.*	0830	54	1017·1	1010·8	+1·0	20·3	18·6	17·5	20·0	84	+6	4·6	+2·0	5·5	0	0	24	2	15	7	0	0	0	0	0	6	0
	1130	,,	1014·8	1003.6	..	24·6	20·3	17·6	20·1	66	..	2·9	..	8·2	0	0	30	4	19	4	1	0	0	0	2	0	0
	1730	,,	1013·1	1006·9	..	21·5	19·4	18·2	20·9	81	..	3·3	..	3·1	0	0	20	2	15	2	0	0	0	0	1	10	0
	2330	,,	1015·0	1008·7	..	17·5	16·8	16·4	18·6	94	..	1·9	..	1·6	0	0	9	2	3	2	1	0	1	0	0	21	0
Dhubri (Rupsi)	0530	36	1014·4	1010·1	..	15·5	14·7	14·1	16·1	92	..	1·6	..	2·3	0	0	18	2	16	0	0	0	0	0	0	12	0
	0830	,,	1016 2	1012·0	..	21·3	18·5	16·6	19·0	75	..	1·6	..	8·0	0	0	30	0	18	8	2	0	2	0	0	0	0
	1130	,,	1014·4	1010·3	..	25·1	20·1	17.0	19·5	61	..	2·0	..	4·2	0	0	27	0	8	14	4	0	0	1	0	3	0
	1730	,,	1012·7	1008·5	..	20·8	19·4	18·5	21·3	86	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Dhubri	0830	35	1017·6	1013·5	+1.6	21·0	18·9	17·4	20·1	81	+2	2·1	+0·4	4·0	0	0	27	0	12	14	0	1	0	0	0	3	0
	1730	,,	1013·6	1009·6	..	23·2	20·7	19·0	22·4	78	..	1·8	..	2·1	0	0	18	3	4	7	1	1	0	0	2	12	0
Lumding	0830	149	1017·0	999·7	..	19·3	18·3	17·5	20·0	89	0	3·3	..	0 4	0	0	4	0	0	3	0	0	0	0	1	26	0
	1730	,,	1012·9	995·7	..	22·7	21·2	20·3	23·8	86	..	2·6	..	0	0	0	0.	0	0	0	0	0	0	0	0	30	0
Umroi	0830	899	..	..	..	16·5	14·9	13·5	15·5	83	..	2.6	..	2·3	0	0	22	0	2	13	6	0	1	0	0	8	0
	1130	,,	..	..	..	21·7	15·9	11·5	13·6	54	..	4·2	..	7·6	0	0	30	2	8	8	6	0	0	0	6	0	0
	1730	,,	..	..	..	16·3	15·1	14·1	16·1	87	..	4·8	..	1·2	0	0	8	3	4	1	0	0	0	0	0	22	0
Tura	0830	370	1017·1	974·5	..	19·6	17·2	15·5	17·7	77	..	1·1	..	2·7	0	0	24	1	3	10	8	1	1	0	0	6	0
	1730	,,	1014·5	972·0	..	23·3	19·6	17·1	19·7	68	..	4·1	..	1·6	0	0	16	0	2	2	7	0	3	0	2	14	0
Hailong	0830	682	1015·9	939·0	..	18·0	16·3	15·1	17·2	84	..	4·4	..	7·7	0	0	30	0	1	0	0	5	18	0	6	0	0
	1730	,,	1012 6	936 2	..	18·9	16·8	15·5	17.6	81	.	2·9	..	7·7	0	0	30	1	6	0	0	1	21	1	0	0	0
Silchar (Kumbhirgram)	0530	97	1013 5	1002.0	..	16·9	16·1	15·5	17.4	92	..	1·9	..	6·4	0	0	25	0	1	24	0	0	0	0	0	5	0
	0830	,,	1014 9	1003 8	..	21·0	18·5	16·9	19.3	77	..	1 9	..	7·3	0	0	29	0	1	22	6	0	0	0	0	1	0
	1130	,,	1012·8	1001·8	..	25·9	20·5	17·1	19·7	59	..	1·9	..	4·5	0	0	24	1	0	10	6	2	4	1	0	6	0
	1730	,,	1011·4	1000·3	..	23·4	20·2	18·3	21·0	73	..	1.6	..	2·0	0	0	11	1	3	2	0	0	2	2	1	19	0
Silchar	0830	29	1016 2	1012·8	+0·5	22·2	19·7	18·0	20·6	78	−2	3·0	+0·5	1·0	0	0	10	0	3	4	2	1	0	0	0	20	0
	1730	,,	1012·8	1009·4	..	24·1	20·7	18·6	21.4	72	..	1·2	..	0·4	0	0	4	0	2	0	1	0	1	0	0	26	0
Imphal (Tulihal)	0530	801	1018·3	928·7	..	11.7	11·6	11·4	13.5	98	..	5·3	..	1·0	0	0	8	1	0	1	0	2	0	1	3	22	0
	0830	,,	1018·6	930·3	+0·6	16·0	14·7	13·6	15·6	86	+8	5·0	+1·6	2·3	0	0	22	2	4	2	1	4	3	2	4	8	0
	1130	,,	1014·5	928·1	..	21·6	16·8	13·5	15·5	60	..	3·4	..	3·1	0	2	23	2	2	2	2	7	4	2	1	7	1
	1730	,,	1014·0	926·6	..	18·0	15·6	13·9	15·6	77	..	3·0	..	3·4	0	0	24	1	0	1	4	5	6	4	3	6	0
	2330	,,	1017·0	928 0	..	13·5	13·1	12·8	14 8	96	..	3·2	..	2·3	0	0	19	4	5	0	1	1	1	3	4	11	0
Kailashahar	0530	29	1014 9	1011·5	..	16·5	16·1	15·8	17·9	96	..	2·3	..	0·6	0	0	4	0	0	0	0	2	2	0	0	26	0
	0830	,,	1016·5	1013 1	..	22·0	19·6	18·1	20.8	79	..	1·6	..	1·4	0	0	10	1	1	0	0	2	4	1	1	20	0
	1130	,,	1014·9	1011·6	..	26·7	21·1	17·8	20 4	59	..	2·7	..	3·9	0	0	25	7	7	2	1	1	4	1	2	5	0
	1730	,,	1013 2	1009·9	..	23·2	20·7	19·3	22.4	79	..	1·5	..	0·4	0	0	1	0	0	0	0	1	0	0	0	29	0
Agartala	0230	16	1012·8	1011.0	..	17·2	16·5	15·9	18.1	92	..	1·4	..	1·1	0	0	8	1	0	2	0	2	0	0	3	22	0
	0530	,,	1013·4	1011.6	..	16·0	15·5	15·1	17.1	95	..	2·0	..	1·6	0	0	13	2	5	1	4	1	0	0	0	17	0
	0830	,,	1015·3	1013·5	+0·8	23·1	20·3	18·7	21.6	77	0	1·8	−0·3	3·9	0	0	21	6	4	1	2	2	1	0	5	9	0
	1130	,,	1013·6	1011·8	..	26·9	20·3	15·7	17.8	52	..	3·1	..	7·8	0	0	28	6	3	0	1	0	2	6	10	2	0
	1730	,,	1012·1	1010·3	..	23·4	19·8	17·5	20.1	70	..	1 7	..	2·6	0	0	16	7	2	0	0	0	1	2	4	14	0
	2330	..	1013·0	1011·9	..	18·0	17·1	16·4	18.7	91	..	1·4	..	1·2	0	0	9	0	2	0	1	3	0	0	3	21	0
Sub-Himalayan West Bengal																											
Baghdogra	0230	131	1014 5	999·1	..	16·0	14·8	13·9	15·9	87	..	1·	..	2·6	0	0	19	17	2	0	0	0	0	0	0	11	0
	0530	,,	1015·0	999·5	..	13·3	13·0	12·7	14·7	96	..	0·9	..	2·8	0	0	21	18	0	0	1	0	0	0	2	9	0
	0830	,,	1016·7	1001·5	+1·0	21·4	18·3	16·1	18·3	72	+1	1·1	−0·6	3·7	0	0	20	2	4	6	6	0	0	1	1	10	0
	1130	,,	1014·8	999.9	..	25·6	20·5	17·3	19·7	59	..	1·8	..	5 7	0	0	28	3	1	3	8	5	6	2	0	2	0
	1730	,,	1013·2	998·0	..	20·0	18·8	18·1	20·8	89	..	1·8	..	2·2	0	0	15	4	0	0	0	0	2	8	1	15	0
	2330	,,	1014·9	999·5	..	17·1	15·5	14·2	16·2	83	..	1·3	..	5·1	0	0	27	19	3	1	0	1	0	2	1	3	0
Jalpaiguri	0830	83	1016·9	1007·2	+0·9	18·4	16·4	15·0	17.0	81	+1	0·6	−0 5	4·3	0	0	26	12	4	1	0	0	0	0	9	4	0
	1730	,,	1013·0	1003.5	..	23·3	19·4	16·9	19·3	67	..	1·2	..	1·0	0	0	9	0	1	2	1	0	3	2	0	21	0
Cooch-Behar	0830	43	1016·9	1011·9	..	21·5	18·2	16·0	18·2	74	..	1·3	..	6.8	0	0	26	0	17	8	0	0	0	0	0	4	1
	1130	,,	1015·2	1010·3	..	25·5	19·7	16·2	18.4	56	..	2·0	..	8·5	0	0	27	0	14	8	0	0	1	0	0	3	4
	1730	,,	1013·2	1008·2	..	21·6	19·0	17·4	19·9	77	..	1·0	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Balurghat	0830	..	..	..	..	21·0	18·7	17·4	19·9	79	..	1·3	..	3·6	0	0	28	9	11	1	0	0	1	1	5	2	0
	1730	..	..	..	..	24·9	20·3	17·7	20 2	64	..	1·2	..	1·3	0	0	12	5	0	0	1	1	1	3	1	18	0
Malda	0830	31	1016·9	1013·2	+1·2	21·7	18·1	15·8	17·9	69	−3	1·2	+0·4	5·4	0	0	30	14	3	0	0	0	2	1	10	0	0
	1730	,,	1013·3	1009·7	..	23·8	19·6	16·3	18·5	63	..	1·5	..	3·7	0	0	24	5	0	0	1	0	2	9	7	6	0
Gangetic West Bengal																											
Berhampore	0830	19	1016·3	1014·2	+0·8	20·8	18·1	16·2	18·4	73	−2	0·5	−1·3	1·2	0	0	11	2	1	1	0	0	0	3	4	19	0
	1730	,,	1012.9	1010·7	..	23.0	18·9	16·5	18·8	62	..	0·8	..	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs	Relative humidity %	Departure from normal	Cloud amount (Ok·as): Mean amount	Cloud amount (Ok·as): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal—(*Contd.*)																											
Suri	0830	77	..	..	..	20·8	17·7	15·8	17·9	72	..	0·6	..	5·3	0	0	27	6	1	0	0	0	1	8	11	3	0
Asansol	0230	126	1014·7	1000·0	..	17·4	16·0	15·0	17·0	86	..	0·7	..	0·4	0	0	4	0	0	0	0	0	0	2	2	26	0
	0530	"	1015·2	1000·4	..	16·3	15·5	15·0	17·0	91	..	1·3	..	0·3	0	0	3	0	0	0	0	0	0	2	1	27	0
	0830	"	1017·1	1002·5	+1·5	20·8	17·9	16·2	18·4	74	+5	0·9	−1·2	4·6	0	0	23	2	0	0	0	0	1	7	13	7	0
	1130	"	1015·5	1001·1	..	25·6	19·1	14·6	16·6	51	..	1·6	..	4·5	0	0	19	3	1	0	0	0	0	3	12	11	0
	1730	"	1013·5	999·0	..	22·9	18·5	15·7	17·8	64	..	1·0	..	0·3	0	0	2	0	0	0	0	0	0	0	2	28	0
	2330	"	1015·3	1000·6	..	18·1	16·3	15·1	17·1	82	..	0·9	..	0·8	0	0	5	0	0	0	0	0	0	3	2	25	0
Santi Niketan	0830	59	1017·3	1010.4	..	21·1	18·2	16·2	18·4	74	..	0·9	..	4·4	0	0	28	7	2	0	0	0	0	3	16	2	0
	1130	"	1015·8	1009·0	..	25·6	19·3	15·4	17·5	54	..	1·2	..	4·9	0	0	29	13	0	0	1	0	0	6	9	1	0
	1730	"	1013·7	1006·9	..	21·3	18·2	16·1	18·3	73	..	1·4	..	3·3	0	0	26	11	4	0	1	0	0	2	8	4	0
Krishnanagar	0830	15	1017·0	1015·3	+1·6	22 4	18·8	16·5	18.8	70	+1	0·4	−1.3	0·3	0	0	3	2	0	0	0	0	0	1	0	27	0
	1730	"	1013·7	1012·0	..	24·1	19·9	17·5	20·0	66	..	0·4	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Purulia	0830	255	1017·7	988·3	+1·4	19·6	16·3	13.7	15·7	69	+7	1·0	−0·3	3·9	0	0	30	0	0	0	0	0	0	4	26	0	0
	1730	"	1014·1	985·0	..	22·9	17·7	14.3	16 3	59	..	1·3	..	1·2	0	0	12	0	4	0	0	0	0	0	8	18	0
Burdwan	0830	32	1016·3	1012·5	+0·8	22·3	19·0	16·9	19·3	68	−1	0·7	−1.0	2·2	0	0	13	7	2	1	0	0	0	1	2	17	0
	1730	"	1012·8	1009·1	..	24·1	19·7	17·1	19·4	64	..	0·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Barrackpore (Aerodrome)	0530	7	1014·9	1014·1	..	17·7	16·3	15·4	17·5	86	.	1·1	..	1·0	0	0	6	3	2	0	0	0	0	0	1	24	0
	0830	"	1016·9	1016·1	+1·2	22·1	18·6	16·4	18·6	71	−2	1·4	−0·5	5·7	0	0	24	14	5	3	0	0	0	0	2	6	0
	1130	"	1015·6	1014·8	..	26·0	19·7	15·9	18·1	53	..	2·0	..	10·0	0	0	29	13	8	2	0	0	0	0	6	1	0
	1730	"	1013·5	1012·7	..	23·4	19·3	16·9	19·3	66	..	1·2	..	2·1	0	0	13	10	0	0	1	1	0	0	1	17	0
	2330	"	1015·3	1014·5	..	19·3	18·0	17·2	19·6	87	..	0·9	..	0·2	0	0	1	0	1	0	0	0	0	0	0	29	0
Calcutta (Dum Dum)	0230	6	1013·8	1013·0	..	17·9	16.9	16·3	18·5	90	..	1·2	..	1·5	0	0	14	8	0	2	1	0	0	1	2	16	0
	0530	"	1014·4	1013·6	..	17·4	16·5	16·0	18·2	91	..	1·7	..	1·6	0	0	16	9	2	0	0	0	1	2	2	14	0
	0830	"	1016·4	1015·6	+1·5	22·1	18·7	16·7	19·0	71	0	1·6	−0·3	4·5	0	0	28	15	3	1	0	1	0	3	5	2	0
	1130	"	1015·0	1014·2	..	26·5	19·8	15·6	17·7	51	..	2·0	..	5·6	0	0	28	15	4	0	0	0	1	1	7	2	0
	1730	"	1013·1	1012·3	..	23·6	19·8	17·5	20·0	68	..	1·2	..	0·5	0	0	5	2	1	0	0	0	0	0	2	25	0
	2330	"	1014·6	1013·8	..	18·5	17·4	16·6	18·9	89	..	0·9	..	0·6	0	0	5	4	0	1	0	0	0	0	0	25	0
Calcutta	0830	6	1016·1	1015·4	+0·9	22·5	18·5	15·6	17·7	65	−1	1·6	−0·2	4·3	0	0	26	11	3	2	0	0	2	1	7	4	0
	1130	"	1014·6	1013·9	..	27·0	19·6	14·8	16·8	47	..	2·3	..	7·2	0	0	30	5	5	1	0	1	0	2	16	0	0
	1730	"	1012·7	1012·0	..	24·7	19·1	15·6	17·7	56	..	1·4	..	3·8	0	0	26	4	1	1	1	0	0	1	18	4	0
Midnapore	0830	45	1016·7	1011·4	+1·4	21·4	17·9	15·4	17.5	69	+3	0·6	−1·2	3·2	0	0	29	23	4	1	0	1	0	0	0	1	0
	1730	"	1013·0	1007·8	..	24 5	18·9	15·1	17·4	56	..	0·7	..	1·3	0	0	12	9	3	0	0	0	0	0	0	18	0
Contai	0830	11	1016·5	1015·2	+1·6	22·4	18·9	16·9	19·3	70	−3	0·8	−1·0	2·8	0	0	27	19	4	0	0	0	0	0	4	3	0
	1730	"	1013·1	1011·9	..	24·4	19·6	16·6	18·9	62	..	0·7	..	0·9	0	0	9	2	2	0	1	2	1	0	1	21	0
Saugor Island	0830	3	1016·0	1015·6	+1·1	23.0	20·0	18·2	20·9	74	−1	2·0	−0·6	13·7	0	4	26	13	13	0	0	0	0	1	3	0	0
	1730		1012·7	1012·4	..	24.0	20·2	18·0	20·6	68	..	1·9	..	10·2	0	0	29	10	7	1	0	1	4	3	3	1	0
Sandheads	0530	10	1013·3	1012·2	..	24.8	20·2	17·4	19·9	64	..	2·0	..	15·0	0	9	20	17	7	1	0	0	1	0	3	1	0
	0830	"	1015·9	1014·8	+1·4	25.4	20·5	17·8	20·4	62	0	1·8	−1·0	14·7	0	5	24	23	4	0	0	0	0	2	0	1	0
	1130	"	1014·9	1013·8	..	26.1	20·7	17 8	20·4	61	..	1·5	..	13·7	0	5	25	22	5	0	0	0	0	1	2	0	0
	1730	"	1012·7	1011·6	..	26.3	20·7	17·6	20·1	59	..	1·3	..	9.5	0	1	24	15	5	1	0	0	1	1	2	5	0
	2330	"	1014·3	1013·2	..	25.1	20·1	17·2	19·6	61	..	0	..	11·0	0	3	25	17	3	1	0	0	0	2	5	2	0
Orissa																											
Baripada	0830	54	1017·9	1011·6	..	21.7	17·9	15·5	17·6	67	.	1·2	..	1·9	0	0	17	8	7	0	0	0	0	0	2	13	0
	1730	..	1014·3	1008·1	..	23.4	19·2	16·6	18·8	65	..	1·6	..	0·3	0	0	2	1	0	0	0	0	0	0	1	28	0
Jharsuguda	0230	230	1014·7	987.9	..	16.5	15·8	15·2	17·3	93	..	0·4	..	2·2	0	0	16	8	6	0	0	0	1	0	1	14	0
	0530	.	1015·4	988.5	..	15.2	14.6	14·1	16·1	94	..	0·9	..	3·3	0	0	19	16	2	0	0	0	0	0	1	11	0
	0830	"	1017·3	990.7	+1·4	19.3	16·8	15·0	17·0	76	+10	1·5	−0·2	5·5	0	0	29	12	15	2	0	0	0	0	0	1	0
	1130	"	1015·7	989.6	..	24.8	18·4	14·0	16·0	51	..	1·2	..	6·7	0	0	27	5	17	2	0	0	0	2	1	3	0
	1730	"	1013·5	987.3	..	23.1	18·5	15·6	17·7	62	..	1·6	..	1·6	0	0	12	1	5	2	0	0	1	3	0	18	0
	2330	"	1015·4	988.7	..	17.7	16·5	15·8	17·9	87	..	0·5	..	2·3	0	0	15	7	5	0	0	1	0	0	2	15	0
Keonjhargarh	0830	463	1014·2	961·7	..	19.8	16·3	14·2	16·2	69	..	1·1	..	3 3	0	0	28	8	2	0	0	1	1	1	15	2	0
	1730	"	1010·6	958·7	..	22.3	17·2	14·0	16·0	60	..	1·4	..	1·4	0	0	14	4	3	0	0	1	0	3	3	16	0
Balasore	0830	20	1016·5	1014·2	+1·2	21.6	18·4	16·3	18·5	72	+1	1·7	−0·5	7·5	0	0	30	20	4	0	0	0	0	0	6	0	0
	1730	"	1013·1	1010·8	..	24.1	20·1	17·8	20·4	68	..	2·0	..	0·9	0	0	9	5	0	0	2	2	0	0	0	21	0
Sambalpur	0830	148	1017·2	1000·1	+1·4	21.6	18·1	16·0	18·2	70	−2	1·0	−1·1	0·3	0	0	3	1	2	0	0	0	0	0	0	27	0
	1730	"	1013·6	996·7	..	23.8	16·6	15·1	17·1	60	..	1·1	.	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Angul	0830	139	1017·4	1001·3	+2·0	20.7	17·6	15·6	17·7	75	+3	1·7	−1·0	4·9	0	0	29	8	4	0	2	1	0	3	11	1	0
	1730	"	1013·4	997·7	..	24·6	18.8	14·9	16·9	56	..	1·6	..	3·1	0	0	22	8	3	0	1	0	0	1	9	8	0

Division and station	Hour of observation I.S.T.	Station elevation in metres.	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity%	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Cuttack	0830	27	1016·8	1013·7	+1·3	22·1	19·1	17·4	19·9	74	0	1·6	−0·9	0·7	0	0	2	0	2	0	0	0	0	0	0	28	0
	1730	,,	1013·3	1010·3	..	26·0	21·4	18·8	21·7	63	..	1·5	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Chandbali	0830	6	1016·8	1016·1	+1·8	23·0	19·7	17·9	20·5	73	−4	0·6	−2·1	5·4	0	0	29	13	3	1	0	1	1	1	9	1	0
	1730	,,	1013·3	1012·6	..	24·4	19·8	17·0	19·4	63	..	1·2	..	3·2	0	0	25	4	9	8	2	0	0	0	2	5	0
Bolangir	0830	190	1016·7	994·8	..	22·1	18·3	15·9	18·1	67	..	1·2	..	3·9	0	0	29	7	5	5	2	2	1	1	6	1	0
	1730	,,	1013·0	991·3	..	25·1	19·1	14·9	16·9	53	..	1·1	..	4·7	0	0	29	14	9	0	0	0	1	0	5	1	0
Phulbani	0830	464	1015·0	961·9	..	17·0	15·6	14·2	16·2	84	..	1·2	..	0·2	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1011·7	959·6	..	22·1	18·7	16·9	19·3	72	.	1·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Titlagarh	0830	211	1015·2	991·2		22·0	20·6	19·8	23·1	88	..	1·3	..	2·9	0	0	29	0	29	0	0	0	0	0	0	1	0
	1730	,,	1012·5	988·9	..	25·9	23·3	22·1	26·6	80	..	1·2	..	3·0	0	0	30	0	30	0	0	0	0	0	0	0	0
Bhubaneswar	0230	46	1013·9	1008·5	..	19·3	17·7	16·4	18·6	84	..	1·0	..	5·7	0	0	26	16	2	1	0	0	0	2	5	4	0
	0530	,,	1014·6	1009·1	..	18·5	17·2	16·3	18·5	87	.	1·5	..	6·7	0	0	27	16	3	0	0	0	0	2	6	3	0
	0830	,,	1016·6	1011·2	+1·4	23·2	19·0	16·3	18·5	65	−3	1·4	−0·9	7·6	0	0	26	16	7	0	0	0	0	2	1	4	0
	1130	,,	1015·3	1010·0	..	26·7	19·6	15·1	17·1	49	..	2·1	..	8·7	0	0	26	14	8	1	0	0	0	0	3	4	0
	1730	,,	1013·4	1008·1	..	24·7	19·3	16·1	18·3	59	..	2·0	..	4·1	0	0	21	9	6	2	1	0	0	0	3	9	0
	2330	,,	1015·0	1009·5	..	20·3	18·5	17·1	19·5	80	..	1·2	..	3·7	0	0	19	5	6	2	0	0	2	0	4	11	0
Puri	0830	6	1016·4	1015·7	+1·5	23·2	19·5	17·4	19·9	69	−3	2·2	−0·2	10·8	0	0	30	18	10	0	0	2	0	0	0	0	0
	1730	,,	1013·3	1012·6	..	25·6	19·9	16·6	18·9	58	..	3·4	..	8·0	0	0	30	4	14	0	4	4	4	0	0	0	0
Gopalpur	0530	17	1014·6	1012·6	..	19·0	18·1	17·4	19·9	90	.	2·7		11·1	0	0	30	9	1	0	0	0	0	0	20	0	0
	0830	,,	1016·7	1014·7	+1·8	22·5	19·6	17·8	20·4	75	+3	2·2	0	14·0	0	0	30	15	0	0	0	0	0	0	15	0	0
	1130	,,	1015·4	1013·4	..	27·2	20·8	17·0	19·4	53		2·7	..	13·9	0	3	27	9	8	5	5	1	0	0	2	0	0
	1730	,,	1013·4	1011·5	..	25·3	20·2	17·1	19·5	60	..	2·6	..	13·0	0	0	30	4	10	9	5	2	0	0	0	0	0
	2330	,,	1015·1	1013·1	..	20·9	19·3	18·5	21·3	85	.	1·1	..	8·3	0	0	30	10	0	0	0	0	0	1	19	0	0
Koraput	0830	913	1544·7	914·9	+1·2	19·9	15·5	12·5	14·5	62	−11	1·7	−0·3	.	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1513·1	911·6	..	20·2	16·1	13·5	15·5	66	..	(b) 1·9	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..
Bihar Plateau																											
Dumka	0830	149	1016·9	999·7	+1·1	20·1	17·4	15·6	17·7	76	+9	0·6	−0·6	0·9	0	0	9	1	0	0	0	0	1	5	2	21	0
	1730	,,	1013·5	996·5	..	22·9	18·8	16·1	18·3	66	..	0·7	..	0·1	0	0	1	0	0	0	0	1	0	0	0	29	0
Daltonganj	0830	221	1017·4	991·7	+0·8	18·7	15·9	13·9	15·9	71	−5	0·7	−0·5	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1013·2	987·9	..	23·7	19·2	16·3	18·5	64	..	1·6	..	0·1	0	0	1	1	0	0	0	0	0	0	0	29	0
Hazaribagh	0830	611	1017·2	947·9	+1·5	18·8	15·1	12·7	14·7	67	+10	0·5	−1·0	2·8	0	0	13	3	2	0	0	0	4	0	4	17	0
	1730	,,	1014·3	945·4	..	19·1	14·9	12·0	14·0	63	..	1·1	..	3·5	0	0	26	9	1	0	0	0	0	0	16	4	0
Dhanbad	0830	257	1017·0	987·3	..	20·5	16·9	14·5	16·5	67	..	0·8	..	3·0	0	0	27	7	0	1	0	0	0	6	13	3	0
	1730	,,	1013·6	984·2		22·0	17·1	13·8	15·8	59	..	3·3	..	1·7	0	0	17	5	0	0	0	0	0	3	9	13	0
Ranchi	0830	655	1015·8	942·1	+0·4	19·7	15·9	13·4	15·4	68	+10	0·8	−1·0	1·2	0	0	12	3	2	3	0	0	1	0	3	18	0
	1730		1013·8	940·6	..	20·5	16·5	14·0	16·0	63	..	0·9	..	0·5	0	0	6	0	1	0	0	0	0	0	5	24	0
Ranchi Aerodrome	0530	652	1016·6	941·7	.	13.5	11·8	10·3	12·6	81	..	1·3	..	1·3	0	0	10	3	0	0	0	0	1	0	6	20	0
	0830	,,	1016·7	943·2	..	18·9	14·6	11·3	13·4	62	..	1·2	..	6·0	0	0	27	16	4	2	0	0	0	1	4	3	0
	1130	,,	1015·0	942·3	..	21·9	15·1	10·1	12·3	47	..	2·2	..	7·3	0	0	29	18	2	3	0	2	2	0	2	1	0
	1730	,,	1013·3	940·3	..	20·1	15·1	11·6	13·7	57		(h) 1·8	..	(h) 6·6	0	0	22	13	5	0	0	0	0	0	4	1	0
Jamshedpur	0830	129	1017·7	1002·7	+2·1	19·2	16·8	15·1	17·1	78	+7	0·9	−1·3	2·9	0	0	25	0	0	0	0	0	3	13	9	5	0
	1730	,,	1013·5	998·9	..	23·6	18·9	16·0	18·2	64	..	1·2	..	0·3	0	0	3	0	1	0	0	0	0	1	1	27	0
Jamshedpur (P.B.O.)	0530	142	1015·5	998·8	..	15·6	14·8	14·2	16·2	92	..	1·3	..	2·6	0	0	14	0	0	0	1	2	3	3	5	16	0
	0830	,,	1017·4	1000·9	..	19·2	16·8	15·1	17·1	78	..	1·0	..	4·9	0	0	25	1	0	0	0	1	2	18	3	5	0
	1130	,,	1015·7	999·5	..	24·6	18·3	13·7	15·7	51	..	1·4	..	5·7	0	0	25	1	2	0	0	0	3	7	12	5	0
	1730	,,	1013·4	997·2	.	24·0	18·5	15·0	17·0	57	..	1·4	..	2·1	0	0	13	4	0	0	0	0	1	3	5	17	0
	2330	,,	1015·5	998·9	..	17·1	15·9	15·1	17·1	88	..	0·7	..	2·8	0	0	15	0	0	1	1	1	1	4	7	15	0
Chaibasa	0830	226	1016·9	990·7	+1·1	19·9	16·7	14·5	16·5	71	−3	0·9	−1·1	1·5	0	0	17	0	1	0	2	0	11	1	2	13	0
	1730	,,	1013·3	987·4	..	22·8	18·2	15·1	17·1	61	..	1·1	..	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
Bihar Plains—																											
Motihari (R)	0830	66																									
(R)	1730	,,																									
Forbesganj	0830	61	1016·8	1009·7	..	20·6	18·2	16·7	19·0	76	..	1·1	..	2·3	0	0	22	5	2	10	1	0	1	2	1	8	0
	1730	,,	1013·0	1006.1	..	23·7	19·3	16·6	18·9	64	..	1·4	..	1·5	0	0	15	0	1	2	1	0	0	9	2	15	0
Darbhanga	0830	49	1016·9	1011·1	+1·0	22·2	18·5	16·3	18·5	69	−6	0·5	−0·5	1·5	0	0	16	0	3	2	0	1	2	5	3	14	0
	1730	,,	1013·9	1008·3		23·8	18·6	15·1	17·1	61	..	0·7	..	1·0	0	0	10	0	1	0	0	0	2	5	2	20	0
Chapra	0830	..	..	..	..	20·2	17·2	15·1	17·1	73	..	0·5	..	2·1	0	0	20	0	0	0	1	4	10	4	1	10	0
	1730	..	..	..	..	23·1	18·1	14·8	16·8	59		0·6	..	0·4	0	0	6	0	0	0	0	0	1	2	3	24	0
Purnea	0830	38	1017·2	1012·9	+1·3	21·2	18·1	15·9	18·1	72	−9	0·9	−0·1	1·8	0	0	15	0	5	2	0	0	4	4	0	15	0
	1730	,,	1013·4	1009·0	..	22·9	19·4	17·3	19·7	71	..	0·8	..	0·5	0	0	4	0	1	0	0	0	2	1	0	26	0

(h) Mean of 23 days. (b) Mean of 29 days (R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains-(*Contd.*) Patna	0830	53	1017·3	1011·0	+1·0	20·1	16·6	14·0	16·0	68	+3	0·9	−0·2	4·1	0	0	27	2	1	0	0	3	7	7	7	3	0
	1730	,,	1013·7	1007·5	..	23·9	17·7	13·4	15·4	52	..	0·9	..	2·7	0	0	15	0	0	0	0	0	0	14	1	15	0
Patna Aerodrome	0530	60	1014·6	1007·6	..	14·3	13·7	13·3	15·3	93	..	1·2	..	0·3	0	0	2	0	0	0	0	0	0	1	1	28	0
	0830	,,	1016.8	1009·9	..	20·1	16·7	14·5	16 5	71	..	0·9	..	4·6	0	0	19	2	0	0	0	0	2	7	8	11	0
	1130	,,	1015·7	1008·9	..	25·2	18·2	13·2	15 2	47	..	2·0	..	7·7	0	1	24	3	0	0	1	1	0	5	14	5	1
	1730	,,	1013·2	1006.4	..	22.8	18·0	14·7	16·7	61	..	1·1	..	1·8	0	0	9	0	0	0	0	0	0	1	8	21	0
	2330	52	1015·4	1009·3	..	17·7	15·9	14·7	16·7	83	..	0·3	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Bhagalpur	0530	49	1015·3	1009·6	..	16·9	15·7	15·0	17·0	87	..	1·2	..	1·7	0	0	17	0	0	1	0	2	11	3	0	13	0
	0830	,,	1017·5	1011·8	+1 5	20·5	17·4	15·2	17·3	72	+4	0·9	0	3·7	0	0	22	0	0	4	0	0	4	13	1	8	0
	1130	,,	1016·4	1010·7	..	23·8	18·9	15·9	18·1	61	..	1·3	..	5·2	0	0	26	0	0	4	0	0	1	10	11	4	0
	1730	,,	1013·9	1008·3	..	22·9	18·9	16·5	18·8	67	..	1·4	..	3 8	0	0	19	1	0	0	0	0	1	13	4	11	0
	2330	,,	1015·5	1009·8	..	19·3	17·1	15·7	17·8	79	..	0·6	..	4·0	0	0	19	0	0	1	0	0	12	6	0	11	0
Sabaur	0830	37	1017·0	1012·6	+1·6	20·3	17·8	16·1	18·3	77	+1	0.6	−0·8	1·8	0	0	14	1	0	1	0	0	9	2	1	16	0
	1730	,,	1013·5	1009·2	..	22·0	18 3	16·0	18·2	68	..	1·2	..	1 0	0	0	9	0	0	0	0	0	1	4	4	21	0
Jamui	0830	82	1017·2	1007·5	..	18·2	16·8	15·9	18·1	85	..	0 9	..	2·4	0	0	18	3	1	0	0	1	0	3	10	12	0
	1730	,,	1013·3	1003·8	..	22·8	19·4	17·3	19.7	70	..	1·2	..	0·8	0	0	9	0	0	0	0	0	0	1	8	21	0
Delhi	0330	107	1017.3	1004.8	..	20·1	17·2	15·3	17·4	74	..	0·5	..	2·9	0	0	29	0	0	0	2	6	17	4	0	1	0
	1730	,,	1013·3	1001·0	..	23·8	18·3	14·8	16·8	56	..	0·3	..	2 8	0	0	28	13	2	1	1	0	0	10	1	2	0
Gaya	0230	116	1015·7	1001.9	..	14·8	14·0	13·4	15·4	90	..	0·3	..	2·3	0	0	12	0	0	0	2	7	3	0	0	18	0
	0530	,,	1015·9	1002·0	..	13·7	13·1	12·7	13·7	92	..	0·6	..	4·1	0	0	24	0	0	0	9	13	1	1	0	6	0
	0830		1017 8	1004 2	+1·7	18·7	16 3	14·7	16·7	77	+13	0·8	−0·4	4·2	0	0	23	0	0	0	1	5	14	2	1	7	0
	1130	,,	1016·7	1003·4	..	25·0	17·5	12·1	14·1	44	.	1·3	..	7·2	0	1	28	4	2	1	0	1	5	7	9	1	0
	1730	,,	1014·2	1000·8	..	23·1	17·2	12·9	14·9	53	..	1·1	..	4·3	0	0	23	5	6	1	0	1	1	2	7	7	0
	2330	,,	1016·2	1002·5	..	16·2	14·7	13 7	15·7	84	..	0·4	..	2·7	0	0	17	0	0	0	3	7	6	1	0	13	0
Uttar Pradesh (East) Kheri	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1017·1	1002·6	+1 5	18 6	15 8	13·7	15·7	73	0	0·5	−0·1	2·4	0	0	17	3	1	0	1	0	1	7	4	13	0
	1730	,,	1014·5	1000·3	..	21·5	16·7	13·2	15·2	60	..	0·6	..	1·3	0	0	13	2	0	0	1	0	2	8	0	17	0
Nautanwa	0830	99	1016·8	1005·1	..	16·4	15·3	14·5	16·5	89	..	0	..	1·0	0	0	10	1	1	5	2	0	0	1	0	20	0
	1730	,,	1013·3	1001·9	..	24·6	18·9	14·9	17·1	56	..	0	..	2·6	0	0	21	1	0	0	2	4	4	7	3	9	0
Hardoi	0830	142	1017·5	1000·7	+1·7	15·7	14·2	12·9	15·0	83	+8	0·2	−0·2	2·6	0	0	14	3	0	0	1	0	2	7	1	16	0
	1730	,,	1014 0	997·7	..	23·3	17·4	13 1	15·1	53	..	0·4	..	0·6	0	0	4	1	0	0	0	0	0	3	0	26	0
Gonda	0830	110	1017·6	1004·6	..	18·5	15·9	14 3	15·9	76	+1	0·1	−0·8	2·3	0	0	23	8	0	3	0	0	0	4	8	7	0
	1730	,,	1014·0	1001·3	.	21·8	16·9	13·5	15·4	61	..	0·2	..	0.7	0	0	8	0	0	0	0	0	0	1	7	22	0
Lucknow	0830	111	1017·9	1004·8	+1·9	16·9	14·9	13·5	15·4	81	+11	0·5	−0·3	1.5	0	0	15	1	0	0	0	0	1	4	9	15	0
	1730	..	1014·7	1001·9	..	22·1	16·7	12·8	14.8	56	..	0·3	..	0·5	0	0	5	0	0	1	0	0	0	3	1	25	0
Lucknow (Amausi)	0230	128	1015 3	1000·1	..	13·6	12·8	12·5	15·6	92	..	0·2	..	4·0	0	0	21	2	1	3	2	0	2	5	6	9	0
	0530	,,	1015·4	1000·2		12·3	11·8	11·4	13·5	94	..	0·6	..	3·5	0	0	18	2	1	2	1	0	1	6	5	12	0
	0830	,,	1017·4	1002·4	+1·3	17·7	15·2	13·2	15·3	75	+17	0·7	−0·1	6·0	0	0	21	3	1	1	2	1	5	2	6	9	0
	1130	,,	1016·7	1002·1	..	24·5	16·8	11·0	12·9	42	..	0·9	..	10·2	0	0	30	3	1	1	1	2	3	8	11	0	0
	1730	,,	1014·1	999·4	..	21·7	16·5	12 4	14·6	56	..	0·6	..	7·3	0	0	27	8	1	0	0	0	0	7	11	3	0
	2330	,,	1015 9	1000·8	..	14·1	13·1	12·3	14·3	89	..	0·1	.	4·4	0	0	17	1	3	2	2	0	1	5	3	13	0
Faizabad	0830	192	1017·2	1005 4	..	17·7	15·5	13 6	15·6	79	..	0·5	..	1·7	0	0	17	1	0	2	1	1	1	9	2	13	0
	1730	,,	1013·9	1002·1	..	20.7	17·1	14 5	16·5	68	..	0·5	..	0·3	0	0	3	0	0	0	0	0	0	3	0	27	0
Gorakhpur	0830	77	1016·5	1007·4	+0·7	19·5	16.5	14·2	16·3	71	−2	0·6	0	3·7	0	0	26	2	3	3	1	0	3	7	7	4	0
	1730	,,	1013·2	1004·3	..	24·6	18·1	13·6	15·5	51	..	0·5	..	1·7	0	0	16	0	0	0	0	0	4	10	2	14	0
Gorakhpur (P.B.O.)	0230	78	1014 6	1005·5	..	17·3	15·7	14·7	16·5	85	..	0·4	..	0·9	0	0	6	1	1	0	0	0	0	1	3	24	0
	0530	,,	1014·9	1005·7	..	16·3	15·0	14·2	16·0	87	..	0·9	..	0·9	0	0	8	0	0	0	0	0	0	3	5	22	0
	1130	,,	1016 5	1007·5	..	24·5	18·0	14·3	15·4	53	..	1·4	..	5·7	0	1	29	3	1	0	3	5	5	9	4	0	0
	2330	,,	1015·4	1006·2	..	18·5	16·4	15·1	16·9	81	..	0·1	..	1·6	0	0	12	1	0	0	0	0	2	4	5	18	0
Kanpur	0830	126	1018·1	1003·3	+2·0	15·9	14.0	12·6	14·6	81	+14	1·0	+0·5	2·8	0	0	24	3	4	0	2	2	1	6	6	6	0
	1730	,,	1015·4	1000·8	..	23·3	17·3	12·8	14·8	52	..	0·9	..	(b) 2·9	0	0	25	10	1	1	0	0	2	2	9	4	0
Kanpur (Aerodrome)	0530	126	1015·6	1000·7	..	13·5	12·2	11·0	13·2	85	..	0·6	..	2·5	0	0	9	1	0	1	0	1	0	3	3	21	0
	0830	,,	1017·4	1002·7	..	18·1	14·8	12·2	14·2	69	..	1·1	..	6·7	0	1	20	3	0	2	2	4	5	3	2	9	0
	1130	,,	1016·9	1002·6	..	24·8	16·5	9·5	12·0	39	..	0·9	..	11·2	0	2	25	1	2	2	1	4	2	5	10	3	0
	1730	,,	1014·2	999·7	..	23·2	16·5	11·1	13·4	47	..	0·8	..	4·3	0	0	16	2	0	1	0	0	1	7	5	14	0
	2330	,,	1016·0	1001·2	..	16·5	14·0	11·9	13·5	75	..	0·0	..	1·6	0	0	6	0	1	0	0	0	1	1	3	24	0
Sultanpur	0830	97	1017·9	1006·5	..	18·7	15·7	13·1	15·4	71	..	0·5	..	1·1	0	0	10	1	0	2	0	0	2	3	2	20	0
	1730	,,	1013·9	1002·9	..	23·7	17·6	12.3	14·3	47	..	0·6	..	. 7	0	0	6	0	0	0	0	0	0	3	3	24	0

(R) Register not received.

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in k. m. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Uttar Pradesh (East)—(Contd.)																											
Azamgarh	0830	78	1017·0	1007·9	..	17·5	15·8	14·7	16·6	84	..	0·4	..	2·5	0	0	25	0	0	13	0	0	1	11	0	5	0
	1730	,,	1014·1	1005·0	..	22·4	18·7	16·6	18·5	70	..	0·1	..	0·1	0	0	1	0	0	1	0	0	0	0	0	29	0
Fatehpur	0830	114	1017·7	1004·3	..	17·9	15·3	13·1	15·3	74	+14	0·9	−0·1	3·1	0	0	23	2	2	1	2	4	4	3	5	7	0
	1730	,,	1014·1	1000·9	..	22·4	17·7	14·5	16·4	61	..	0·3	..	1·9	0	0	19	7	7	1	0	1	0	1	2	11	0
Ballia	0830	64	1017·8	1010·2	..	19·5	16·7	14·7	16·7	74	..	0·5	..	0·2	0	0	1	0	0	0	0	0	0	1	0	29	0
	1730	,,	1014·1	1006·8	..	24·7	20·2	17·4	20·0	66	..	0·4	..	1·0	0	0	9	0	0	1	0	0	1	5	2	21	0
Banda	0830	121	1017·6	1003·4	..	18·9	15·5	13·0	15·0	69	..	1·0	..	2·1	0	0	30	0	0	0	6	0	18	0	6	0	0
	1730	,,	1011·3	997·5	..	24·4	19·2	15·6	18·1	58	..	0·7	..	2·0	0	0	30	0	11	0	6	0	6	1	6	0	0
Allahabad (Bamhrauli Aerodrome)	0230	98	1015·4	1003·8	..	14·8	13·5	12·4	14·4	85	..	0·1	..	0·8	0	0	7	1	0	0	0	0	2	2	2	23	0
	0530	,,	1015·8	1004·1	..	13·8	12·9	12·1	14·1	90	..	1·1	..	0·7	0	0	7	1	0	1	0	0	2	3	0	23	0
	0830	,,	1017·8	1006·3	+1·6	18·8	15·6	13·5	15·2	70	+3	1·3	+0·2	2·3	0	0	14	0	1	0	1	2	2	7	1	16	0
	1130	,,	1017·0	1005·8	..	25·5	17·4	11·0	13·3	41	..	1·5	..	6·9	0	0	29	6	5	2	3	1	2	4	4	1	2
	1730	,,	1014·3	1003·1	..	23·5	17·4	12·9	14·9	52	..	1·2	..	0·7	0	0	9	2	2	0	0	0	0	1	4	21	0
	2330	,,	1016·1	1004·5	..	16·3	14·1	12·7	14·3	78	..	0·1	..	1·4	0	0	11	3	3	0	0	0	1	2	2	19	0
Varanasi (Babatpur)	0530	85	1016·8	1006·5	..	14·4	13·2	12·2	14·2	87	..	0·6	..	2·5	0	0	20	1	0	0	0	2	9	3	5	10	0
	0830	,,	1018·6	1008·5	+1·7	18·7	16·1	14·2	16·7	76	+13	0·8	+0·1	4·4	0	0	23	1	2	1	0	2	7	8	2	7	0
	1130	,,	1017·7	1007·7	..	25·0	18·4	13·4	15·8	50	..	1·1	..	7·1	0	0	28	1	1	0	6	1	3	6	10	2	0
	1730	,,	1015·1	1005·1	..	23·4	18·2	14·5	16·6	57	..	0·7	..	4·2	0	0	23	4	2	0	0	0	2	6	9	7	0
	2330	,,	1016·9	1006·7	..	17·2	15·0	13·3	15·3	78	..	0·0	..	2·7	0	0	17	1	4	1	0	0	2	5	4	13	0
Varanasi	0830	76	1017·1	1008·1	+0·9	18·4	15·9	13·8	15·9	76	+8	0·9	−0·1	2·6	0	0	22	2	0	0	0	3	2	11	4	8	0
	1730	,,	1013·9	1005·2	..	23·9	17·9	13·7	15·7	53	..	1·2	..	2·4	0	0	23	2	1	0	1	0	0	8	11	7	0
Uttar Pradesh (West) Dehra Dun	0530	682	1017·2	938·3	..	11·1	9·9	8·8	11·5	86	..	1·5	..	1·0	0	0	13	8	4	0	0	0	0	0	1	17	0
	0830	,,	1017·6	939·6	+1·3	14·9	12·2	10·1	12·3	74	+2	1·6	+0·5	0·4	0	0	5	1	2	0	0	0	0	1	1	25	0
	1130	,,	1016·5	939·9	..	20·7	14·8	10·9	12·6	51	..	2·0	..	2·3	0	0	25	1	0	1	1	6	12	2	2	5	0
	1730	,,	1014·4	937·6	..	18·6	15·0	12·4	14·4	68	..	2·3	..	0·3	0	0	4	0	1	0	0	0	0	2	1	26	0
	2330	,,	1017·4	938·9	..	13·2	11·6	10·2	12·5	82	..	1·2	..	2·2	0	0	21	16	5	0	0	0	0	0	0	9	0
Roorkee	0830	274	1017·9	985·8	+1·6	15·6	13·6	12·0	13·9	80	+4	3·3	+2·6	0·6	0	0	6	0	2	0	2	0	0	0	2	24	0
	1730	,,	1014·6	983·2	..	21·2	16·0	11·9	14·0	56	..	3·3	..	0·3	0	0	3	0	0	0	1	0	0	0	2	27	0
Najibabad	0830	270	1017·9	986·1	..	14·0	12·6	11·4	13·5	85	..	1·4	..	1·1	0	0	16	1	2	0	0	0	2	0	11	14	0
	1730	,,	1015·4	984·5	..	21·8	17·2	14·0	15·9	62	..	1·7	..	0·9	0	0	11	0	1	0	0	0	4	0	6	19	0
Meerut	0830	222	1018·4	992·2	+2·1	15·8	14·1	12·5	14·5	82	+13	0·3	−0·3	2·5	0	0	20	2	1	5	0	1	0	11	0	10	0
Bareilly	0830	173	1017·2	997·0	+1·3	18·0	15·0	12·7	14·6	73	−1	0·6	−0·1	3·0	0	0	28	6	3	1	2	2	6	5	3	2	0
	1730	,,	1014·1	994·1	..	21·7	16·9	13·2	15·4	59	..	1·2	..	0·3	0	0	4	0	0	0	0	0	1	1	2	26	0
Bareilly (P.B.O.)	0230	172	1015·1	994·9	..	15·7	13·7	12·2	14·2	80	.	0·7	..	1·7	0	0	11	0	2	3	0	0	0	4	2	19	0
	0530	,,	1015·4	995·1	..	14·7	13·5	12·0	14·5	84	..	0·9	..	1·7	0	0	9	0	1	2	0	0	0	5	1	21	0
	1130	,,	1016·8	996·9	..	21·9	16·1	12·2	13·6	55	..	1·4	..	4·9	0	0	25	1	1	1	3	2	0	10	7	5	0
	2330	,,	1015·7	995·5	..	16·8	14·2	12·7	14·1	76	.	0·4	..	1·7	0	0	10	0	3	1	1	0	0	4	1	20	0
Aligarh	0830	187	1017·9	995·7	..	16·0	13·2	10·7	12·9	70	+20	1·5	+0·9	1·6	0	0	21	1	0	5	0	4	0	9	2	9	0
	1730	,,	1014·4	992·8	..	23·1	17·1	12·5	14·5	52	..	1·7	..	1·6	0	0	21	7	0	6	0	1	0	3	4	9	0
Mainpuri	0830	157	1017·7	999·2	+1·5	16·9	14·7	13·0	15·1	77	+16	0·2	−0·6	..	..	..	..	1	0	2	2	2	4	4	2	13	0
	1730	,,	1014·3	996·2	..	22·5	18·5	15·5	17·3	67	..	0·1	..	..	..	..	..	0	0	1	1	0	5	0	0	23	0
Agra	0830	169	1018·0	998·2	+1·6	16·6	13·3	10·5	12·6	68	+14	0·6	−0·2	0·1	0	0	1	0	0	0	0	0	0	0	1	29	0
	1730	,,	1014·2	994·8	..	23·2	16·8	11·9	13·9	50	..	1·2	..	0·2	0	0	2	1	0	0	0	0	0	0	1	28	0
Agra (Aerodrome)	0530	169	1016·4	996·0	..	12·0	11·4	10·8	13·0	92	..	1·1	..	1·3	0	0	8	2	1	1	1	0	0	1	2	22	0
	0830	,,	1018·2	998·1	..	16·0	14·0	12·3	14·4	79	..	1·4	..	3·5	0	0	14	2	1	2	1	2	0	2	4	16	0
	1130	,,	1017·3	997·7	..	23·9	17·1	11·6	13·9	46	..	1·3	..	9·7	0	0	27	4	1	0	7	4	5	1	5	3	0
	1730	,,	1014·5	994·8	.	22·1	16·5	12·4	14·3	54	..	1·7	..	4·7	0	0	21	9	2	4	1	0	0	1	4	9	0
	2330	,,	1016·6	996·5	..	14·5	12·9	11·2	13·6	83	..	0·7	..	3·2	0	0	13	1	3	3	1	0	0	2	3	17	0
Orai	0830	141	1019·5	1003·0	..	19·4	16·2	13·7	15·8	71	..	0·7	..	3·1	0	0	29	1	3	2	3	2	6	0	12	1	0
	1730	,,	1015·0	998·7	..	24·6	19·0	15·2	17·4	56		0·3	..	3·1	0	0	30	8	2	1	2	0	3	1	13	0	0
Jhansi	0830	251	1016·7	987·4	−0·3	18·9	15·7	13·2	15·3	70	+19	1·9	+1·1	0·5	0	0	5	1	0	0	0	2	0	1	1	25	0
	1730	,,	1014·0	985·5	..	25·1	17·9	12·5	14·7	46	..	1·9	..	1·5	0	0	15	5	0	3	0	0	0	5	2	15	0
Punjab (India) (Including Delhi) Pathankot	0830	312	1017·8	981·2	+1·5	14·4	12·5	10·8	12·9	79	+19	2·3	+0·4	3·7	0	0	17	1	7	2	4	1	1	0	1	13	0
	1130	,,	1017·4	981·6	..	20·8	15·6	11·5	13·5	56	..	2·2	..	5·3	0	1	25	1	2	2	3	6	10	0	2	4	0
	1730	,,	1015·0	979·1	..	20·3	15·7	12·1	14·2	60	..	2·8	..	2·5	0	0	15	0	3	1	0	0	3	5	3	15	0
Amritsar (Rajasansi)	0530	234	1016·7	988·6	..	9·7	9·0	8·4	10·9	92	..	1·1	..	4·3	0	1	19	7	2	2	0	0	2	1	6	10	0
	0830	,,	1018·1	990·3	+1·4	12·5	11·2	9·9	12·3	85	+7	1·6	+0·3	3·3	0	0	18	2	4	3	1	2	4	1	1	12	0
	1130	,,	1017·7	990·7	..	21·4	15·1	9·6	12·0	48	..	1·6	..	7·6	0	3	22	3	2	3	1	3	2	4	7	5	0
	1730	,,	1015·0	988·0	..	21·0	15·3	10·4	12·8	52	..	1·1	..	5·5	0	1	25		1	5	0	0	0	5	14	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Punjab (India) (Including Delhi)—(*Contd.*)																											
Adampur (Aerodrome).	0530 (R)	238																									
	0830 (R)	,,																									
	1130 (R)	,,																									
	1730 (R)	,,																									
	2330 (R)	,,																									
Ludhiana	0830	247	1018·1	988.9	+1·6	12·9	11·3	9·9	12.1	83	+19	2·0	+1·0	1·3	0	0	12	0	0	1	2	3	0	2	4	18	0
	1730	,,	1014·6	986·2	..	21·6	15·9	11.1	13·5	52	..	2·2	..	1.1	0	0	9	3	1	0	2	0	0	1	2	21	0
Ferozepore	0830	200	1017.5	993·6	..	11.3	9·7	7.9	10·7	79	..	1·6	..	0·3	0	0	5	0	0	0	1	0	2	0	2	25	0
	1730	,,	1014·5	991·5	..	23·4	16·7	11.8	13·7	47	..	1·3	..	0·9	0	0	13	0	2	0	1	1	0	0	10	17	0
Halwara (Aerodrome).	0830	242	1018·1	989·5	..	13·0	11·7	10.4	12·7	84	..	2·4	..	4·9	0	1	19	2	1	1	6	1	0	2	7	10	0
	1730	,,	1015·1	987.3	..	21·4	15·5	10.2	12·8	50	..	1·9	..	8·2	0	0	29	2	2	1	4	0	1	2	17	1	0
Chandigarh	0830	347	1017·2	977·0	+1·4	18·2	13·8	10.0	12·3	59	+1	1·4	+1·0	2·2	0	0	16	0	3	3	9	0	0	0	1	14	0
	1730	,,	1014·2	974.5	..	21·8	15 3	9·8	12·1	47	..	2·1	..	2.2	0	0	16	0	0	0	6	0	6	1	3	14	0
Ambala	0830	272	1017·4	985·7	+1·5	17·5	14·2	41·4	14·5	68	+5	0·8	−0.2	2·3	0	0	23	0	10	0	9	0	1	0	3	7	0
	1730	,,	1013·9	982·9	..	21·3	16·0	11·8	13·9	55	..	0·6	..	1·4	0	0	14	0	1	0	9	0	0	0	4	16	0
Ambala (P.B.O.)	0230	278	1015·9	983·2	..	14·6	12.9	11·6	13·7	82	..	0·8	..	2·5	0	0	12	0	1	2	2	0	0	1	6	18	0
	0530	,,	1015·8	983·0	..	13.3	11·9	10.8	12·9	85	..	1 2	..	2·3	0	0	15	1	4	3	2	0	2	2	1	15	0
	1130	,,	1017·2	985·2	..	21·1	16·0	12·9	14.9	60	..	2.0	..	6·9	0	0	29	2	0	0	10	1	5	2	9	1	0
	2330	,,	1016.1	983·6	..	15·9	13·7	12·2	14·2	79	..	1.0	..	3.9	0	0	19	4	2	6	1	0	1	0	5	11	0
Ambala (Aerodrome)	0530	274	1016·2	983.5	..	10·0	9.7	9·5	11·8	97	..	1.2	..	1.8	0	1	6	1	0	1	2	0	0	1	2	23	0
	0830	,,	1017·6	985·2	..	13.6	12.5	11·6	13·6	88	..	2·1	..	2·4	0	0	9	0	0	3	3	0	0	2	1	21	0
	1130	,,	1017·1	985.5	..	21·6	15·9	11.6	13·5	55	..	2·2	..	7·2	0	0	25	0	0	4	5	0	2	6	7	5	1
	1730	,,	1014·2	982·7	..	20·6	15·6	11.2	13·6	56	..	2·1	..	3·4	0	0	14	0	0	4	0	0	0	6	4	16	0
	2330	,,	1016·6	984·0	..	12·5	11·5	10·3	12·6	88	..	1·3	.	1·9	0	0	6	1	0	1	0	0	0	3	1	24	0
Patiala	0830	251	1017.4	988·0	..	14·9	12·8	10.9	13.2	77	..	2.4	..	2·2	0	0	17	0	0	3	6	0	0	1	7	13	0
	1730	,,	1015.0	986·0	..	20.4	15·2	11.3	13·0	56	..	2.2	..	1·5	0	0	7	1	0	0	3	0	0	0	3	23	0
Bhatinda	0830	211	1017.9	993·1	..	17·0	14·5	12.5	14.5	74	..	1.1	..	3·5	0	0	26	1	2	0	8	1	2	2	10	4	0
	1730	,,	1014·4	990·2	..	23.5	17·9	14·1	16.0	56	..	0·9	..	3·3	0	0	27	8	2	1	2	0	0	0	14	3	0
Karnal	0830	249	1016·7	931·5	..	17·0	13·9	11.1	13.4	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	1013.2	984·3	..	21·9	16·1	11·8	13.6	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hissar	0530	221	1016·5	990·1	..	11·5	10·4	9·4	11·7	87	..	0·7	..	5.6	0	0	29	1	1	2	7	0	5	9	4	1	0
	0830	,,	1018.2	992·1	+1.5	14·3	12·1	10·1	12·2	77	+23	1·3	+0·7	3·2	0	0	26	2	2	3	3	1	6	9	0	4	0
	1130	,,	1017.5	992·1	..	23·1	16·9	12.2	14·3	51	..	1.1	..	5.0	0	0	28	2	0	2	5	3	5	3	8	2	0
	1730	,,	1014.6	989·2	..	22·2	16·4	11·8	13.9	53	..	1·5	..	3.3	0	0	28	4	1	5	1	2	2	6	7	2	0
	2330	,,	1016.9	990·7	..	14·2	12·1	10·2	12.3	78	..	0·8	..	3.7	0	0	22	1	3	0	5	1	3	5	4	8	0
New Delhi (Safdarjung)	0230	216	1016.0	990·5	..	13·8	12·1	10.6	12·8	81	..	1·0		1·5	0	0	8	0	0	1	0	0	1	2	4	22	0
	0530	,,	1016.2	990.5	..	13·1	11·5	10.0	12·3	82	..	1.3	..	3·4	0	0	17	1	0	1	1	1	1	4	8	13	0
	0830	,,	1017·9	992·4	+1·6	15·7	12·9	10.5	12·6	72	+22	1·8	+1.2	5·8	0	0	24	2	0	1	4	1	2	10	4	6	0
	1130	,,	1017.4	992·6	..	23.1	15·9	9.8	12·2	44	.	1.6	.	9·7	0	4	24	2	1	2	2	3	4	5	9	2	0
	1730	,,	1014.5	989·6	..	22.2	15·7	10.3	12·5	48	.	1.7	.	3·5	0	0	18	6	1	1	1	0	0	0	9	12	0
	2330	,,	1016.5	991.0	..	15.2	13.0	11.1	13·2	77	.	0·8	..	2·4	0	0	13	1	1	1	0	0	0	1	9	17	0
Palam (Aerodrome)	0230	233	1016·2	988·6	..	13·1	12·1	11·5	13·4	88	..	0·8	.	4.6	0	0	24	0	2	7	3	5	2	2	3	6	0
	0530	,,	1016·3	988·7	..	11·9	11·0	10.2	12·4	90	..	1.1	..	4.5	0	0	23	2	1	4	4	5	4	1	2	7	0
	0830	,,	1017·8	990·5	..	15·8	13·4	11.4	13.5	76	..	1.8	..	6 8	0	0	27	1	0	5	2	6	7	4	2	3	0
	1130	,,	1017·4	990·6	..	22·5	16·9	12.6	14.6	55	..	1.5	..	11·1	0	4	24	1	1	2	5	4	0	7	8	2	0
	1430	,,	1014·8	988·2	..	24.8	17·8	12·7	14.7	47	.	2·1	..	12.5	0	5	25	2	2	1	3	3	1	6	12	0	0
	1730	,,	1014·5	987·9	..	21·6	16·8	13.1	15.1	59	..	1.8	..	6 3	0	0	29	9	2	5	1	0	0	3	9	1	0
	2030	,,	1016·1	989·0	..	17·1	14.2	12.1	13.9	73	..	0·6	..	4.6	0	0	21	3	2	9	0	0	0	4	3	9	0
	2330	,,	1016·6	989·2	..	14·5	13·0	11·4	13.7	81	..	0·7	..	5.1	0	0	26	1	2	9	1	5	2	5	1	4	0
Himachal Pradesh Mandi	0830	761	1020·3	931·7	+0.5	8·7	8.4	8·0	10.8	95	+2	2.4	+0.3	(d) 0.1	0	0	1	0	0	0	0	0	0	0	1	26	0
	1730	,,	1014·3	928·9	..	17·7	13·9	11.1	12.9	66	..	2.0	..	(f) 0.2	0	0	2	0	0	0	0	0	1	1	0	23	0
Bilaspur	0830	493	1020·1	962·2	..	11·6	10.9	10·5	12·4	95	..	6·7	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1014·8	958·9	..	19·4	14·9	11.6	13.3	61	..	2·7	..	0.1	0	0	1	0	0	0	0	0	0	1	0	29	0
Jammu and Kashmir																											
Misgar (R)	0830																										
(R)	1730																										
Gilgit (R)	0830																										
(R)	1730																										

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

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir—(*Contd.*)																											
Skardu . (R)	0830																										
(R)	1730																										
Leh . .	0530	3514	3090·0	663·7	..	—6·0	—8·8	—16·3	1·5	43	..	(b) 1·2	..	2·4	0	0	24	0	2	3	2	5	8	2	2	6	0
	0830	,,	3133·6	667·7	—1·1	—2·9	—6·6	—15·7	1·5	36	—20	2·6	0	3·0	0	0	19	1	1	0	1	8	6	2	0	11	0
	1730	,,	3086·1	664·7	..	1·6	—5·1	—13·1	2·0	37	..	2·2	..	5·3	0	0	24	5	0	0	2	7	9	6	0	6	0
Srinagar	0830	1587	1558·0	847·1	+0·8	3·0	2·4	1·8	6·8	91	—7	3·7	+1·5	0.7	0	0	7	1	0	0	2	1	1	1	1	23	0
	1130	,,	1557·1	847·1	..	9·5	6·0	2·3	6·9	62	..	3·3	..	1·5	0	0	14	2	0	1	3	1	2	3	2	16	0
	1730	,,	1529·9	844·3	..	9·5	6·3	3·1	7·5	64	..	3·3	..	1·5	0	0	10	1	0	1	1	2	0	1	4	20	0
Srinagar (Aerodrome) . .	0530	1666	1539·6	837·5	..	2·3	1·6	—0·1	6·1	84	..	3·2	..	0·9	0	1	0	0	0	1	0	0	0	0	0	29	0
	0830	,,	1551·3	838·8	..	3·4	2·1	0·4	6·3	81	..	3·9	..	3·0	0	0	16	0	0	1	4	0	1	3	7	14	0
	1130	,,	1553·7	839·1	..	8·5	5·1	1·1	6·6	61	..	3·3	..	4·2	0	0	25	6	8	1	1	3	0	0	6	5	0
	1730	,,	1525·3	836·3	.	9·3	5·5	1·9	7·0	58	..	3·9	..	3·6	0	0	16	3	2	0	1	1	0	1	8	14	0
	2330	,,	1539·1	837·5	..	4·5	2.7	0·3	6·1	75	..	3·1	..	0.2	0	0	1	0	0	0	0	0	1	0	0	29	0
Gulmarg . .	0830	2655						Closed during winter months.																			
	1730	,,																									
Jammu*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu (Aerodrome)	0530	292	1016·4	981·8	..	13·8	11·3	8·9	11·4	74	..	1·8	..	6·0	0	1	16	4	12	0	0	0	0	0	1	13	0
	0830	,,	1017·8	983·3	..	14·8	12·0	9·3	11·8	70	..	2·4	..	5·8	0	0	26	0	22	3	0	0	0	0	1	4	0
	1130	,,	1017·5	983·7	..	20·6	14·6	9·4	11·8	49	..	3·3	..	4·8	0	0	23	2	9	2	2	4	1	1	1	7	1
	1730	,,	1015·0	981·1	..	20·1	14·8	10·5	12·5	55	..	2·9	..	3·5	0	0	17	2	2	0	1	1	2	3	6	13	0
	2330	,,	1016.9	982·5	..	15·0	12·6	10·4	12·7	74	..	2·2	..	4·6	0	0	19	3	8	2	2	0	2	0	3	11	0
Rajasthan (West)																											
Ganganagar .	0530	177	1016·5	995·6	..	11·6	9·7	7·9	10·5	80	..	0·7	..	0·9	0	0	8	0	1	2	3	1	0	0	1	22	0
	0830	,,	1017·9	996·8	+1·6	12·5	10·3	8·0	10·9	75	+12	1·1	+0·4	1·4	0	0	13	0	1	3	7	0	0	1	1	17	0
	1130	,,	1017·6	997·2	..	23·2	15·2	7·9	10·8	39	..	1·4	..	3·6	0	0	27	4	3	2	6	3	1	2	6	3	0
	1730	,,	1014 6	994·6	..	23·9	16·3	9·9	12·5	42	..	0·9	..	1·0	0	0	10	2	0	1	2	0	0	0	5	20	0
	2330	,,	1016·7	995·8	..	14·8	11·9	9·0	11·5	68	..	0·5	..	0·8	0	0	8	0	2	3	2	0	0	0	1	22	0
Anupgarh . (R)	0830																										
(R)	1730																										
Mahajan . (R)	0830																										
(R)	1730																										
Churu . .	0830	291	1018·3	984·0	..	14·7	11·4	8·0	10.8	66	..	1·3	..	2·2	0	0	18	1	0	4	3	5	2	3	0	12	0
	1730	,,	1014 2	981·2	..	24·3	16·0	9·2	11·5	38	..	1·4	..	4·8	0	0	25	18	3	1	1	0	1	0	1	5	0
Bikaner . .	0830	224	1017·9	991·4	+1·5	14·3	9·1	3.0	7·4	48	+3	0·3	—0·7	1·8	0	0	18	0	1	3	12	1	1	0	0	12	0
	1730	,,	1014 5	988·9	..	25·8	15·5	4·9	9·3	26	..	0·4	..	3·4	0	0	25	12	7	0	2	0	0	1	3	5	0
Bikaner (P.B.O.) .	0530	224	1016·3	989·5	..	10·4	8·4	6·2	9·4	76	..	0·5	..	0·4	0	0	3	0	1	1	0	1	0	0	0	27	0
	1130	,,	1517·0	991·4	..	25·3	17·3	11·3	13·2	43	..	0·9	..	2·5	0	0	18	0	6	3	1	3	2	1	2	12	1
	2330	,,	1016·4	990·0	..	15·0	11·4	7·6	10·6	62	..	0·5	..	0·8	0	0	5	3	1	0	0	1	0	0	0	25	0
Nagaur . .	0830	298	1016·2	981·9	..	21·3	14·0	7·1	10·1	42	..	0.9	..	..	..	..	..	6	6	3	7	5	2	0	1	0	0
	1730	,,	1012·5	979·0	..	26·3	15·1	3·9	8·1	25	..	1·0	..	..	..	..	..	8	4	2	1	2	2	5	6	0	0
Phalodi .	0830	234	1017·8	990·2	..	15·5	11·5	7·3	10·4	59	..	1 2	..	3.7	0	0	12	1	2	2	2	3	1	0	1	18	0
	1730	,,	1013·8	987·7	..	26·7	18·5	12·5	14·7	42	..	1·1	..	7·7	0	0	23	9	8	1	0	0	1	1	3	7	0
Jaisalmer . .	0830	242	1017·0	988·6	..	16·6	11·1	5·5	8·8	49	..	0·4	..	8·6	0	3	16	4	5	0	3	4	2	0	1	11	0
	1730	,,	1013·1	986·0	..	26·9	15·3	3·4	8·0	24	..	0 2	..	12·9	0	4	26	15	10	0	0	1	1	2	1	0	0
Jodhpur .	0230	224	1015·4	989·2	..	17·4	11·0	3·5	8·0	41	..	0·2	..	9·8	0	2	25	7	18	1	0	1	0	0	0	3	0
	0530	,,	1015·4	989·1	..	15·6	10·4	4·2	8·4	47	..	0·3	..	9·5	0	1	26	6	21	0	0	0	0	0	0	3	0
	0830	,,	1017·3	991·0	+2·3	17·3	11·4	4·7	8·8	45	+3	1·0	0	7·1	0	0	26	3	19	4	0	0	0	0	0	4	0
	1130	,,	1016·7	991·2	..	25·3	15·2	5·2	9·1	29	..	0·7	..	8·4	0	0	29	1	10	10	1	5	1	0	1	1	0
	1730	,,	1013·1	987·8	..	27·4	15·6	3·8	8·2	23	..	0·9	..	5·8	0	1	22	4	11	2	0	0	3	3	0	7	0
	2330	,,	1015·8	989·7	..	19·4	11·6	2·4	7·4	33	..	0·4	..	8·8	0	1	26	8	15	1	0	0	1	0	2	3	0
Barmer . .	0530	194	1014·8	992·0	..	16·6	10·8	3·9	8·3	44	..	0·1	..	6·9	0	0	24	7	1	1	0	0	0	1	14	6	0
	0830	,,	1016·7	994·0	+1·4	17·3	11·6	5·3	9·1	46	—3	0·4	—0·7	5·9	0	0	23	8	1	0	0	0	0	1	13	7	0
	1130	,,	1016·1	994·1	..	26·4	16·0	6·3	9·7	29	..	0·5	..	6·7	0	0	25	4	8	4	3	3	2	0	1	5	0
	1730	,,	1012·7	990·8	..	26·6	16·0	4·8	9·6	24	..	1·0	..	3·2	0	0	20	10	4	2	0	0	2	2	0	10	0
	2330	,,	1015·2	992·7	..	20·3	12·2	3·3	7·8	33	..	0·4	..	4·0	0	0	26	13	2	0	1	0	2	0	8	4	0
Munabao . (R)	0830	80																									
(R)	1730	,,																									
Rajasthan (East)																											
Filani . .	0830	301	1018·9	983·9	..	17·5	12·6	7·6	10·6	53	..	0·5	..	8·0	0	0	29	1	5	14	4	2	3	0	0	1	0
	1730	,,	1014·8	980·5	..	22·7	14·1	5·2	9·1	33	..	0·6	..	7·1	0	0	29	11	5	3	2	1	0	0	7	1	0
Sikar . .	0830	433	1017.5	967·9	..	19·0	14·4	10·5	12·7	59	..	1·2	..	1·6	0	0	15	0	2	3	3	1	1	4	1	15	0
	1730	,,	1013·7	965·1	..	23·9	16·3	9·7	12·4	41	..	1·6	..	1·3	0	0	12	1	1	1	1	0	1	5	2	18	0

*Data not reliable. (R) Register not received. (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)— (*Contd.*)																											
Alwar	0830	271	1016·7	985·0	..	15·7	13·2	11·0	13·1	74	..	1·7	..	0·4	0	0	5	1	0	0	0	1	2	0	1	25	0
	1730	,,	1013·9	982·9	..	22·6	16·4	11·2	13·7	50	..	1·8	..	0·1	0	0	2	1	0	1	0	0	0	0	0	28	0
Jaipur (Sanganer)	0230	390	1015·5	970·1	..	15·8	12·0	8·9	10·9	61	..	0·9	..	5·3	0	0	25	2	15	8	0	0	0	0	0	5	0
	0530	,,	1015·9	970·3	..	14·0	11·4	9·1	11·4	74	..	1·1	..	5·1	0	0	26	3	10	11	1	0	0	0	1	4	0
	0830	,,	1017·1	972·1	+0·4	18·6	14·1	10·1	12·4	59	+12	1·0	+0·3	5·4	0	0	22	1	3	15	2	0	0	0	1	8	0
	1130	,,	1016·2	972·1	..	23·9	16·2	9·4	12·1	41	..	1·1	..	7·3	0	0	27	1	4	4	4	5	4	1	4	3	0
	1730	,,	1013·3	969·2	..	23·4	15·9	9·3	11·7	42	..	1·7	..	3·5	0	0	21	6	4	3	1	1	1	0	5	9	0
	2330	,,	1016·0	970·7	..	16·0	12·6	9·5	11·9	54	..	0·3	..	4·8	0	0	25	4	10	8	0	0	0	0	3	5	0
Dholpur	0830	176	1017·3	996·7	..	18·0	14·9	12·2	14.2	70	..	2·2	..	1.5	0	0	14	2	1	0	3	2	1	3	2	16	0
	1730	,,	1013·4	993·3	..	23·8	17·6	12·8	14·8	51	..	2·3	..	1·0	0	0	9	6	0	0	1	0	0	0	2	21	0
Ajmer	0830	486	1018·2	961·9	+0·7	15.2	11·6	8·1	10·8	64	+13	1.8	+1·0	1·9	0	0	15	2	2	0	3	1	0	4	3	15	0
	1730	,,	1013·0	958·8	..	24·8	14·7	5·5	8·6	30	..	1·5	..	4·9	0	0	26	4	6	1	4	3	1	5	2	4	0
Tonk	0830	272	1016·8	984·9	..	16·4	14·3	12·4	14·4	78	..	1·4	..	3.7	0	0	24	3	0	4	5	1	0	2	9	6	0
	1730	,,	1012·4	981·5	..	24·2	18·4	14·6	16·6	56	..	1.7	..	3.2	0	0	22	5	5	6	2	0	0	0	4	8	0
Kota (Aerodrome)	0530	274	1015·9	984·3	..	15·7	13·3	11·1	13·4	75	..	1·4	..	(k) 0·6	0	0	7	0	1	0	1	0	1	4	0	23	0
	0830	,,	1017·6	985·8	..	18·6	14·6	11·1	13·4	62	..	2·4	..	3·4	0	0	17	0	5	5	1	0	0	4	2	13	0
	1130	,,	1016·5	985·4	..	24·9	17·1	10·6	12·8	42	..	1·6	..	6·5	0	0	25	2	4	7	6	5	1	0	0	5	0
	1730	,,	1013·5	982·5	..	25·7	17·3	10·1	12·8	39	..	2·4	..	5·7	0	0	21	1	13	4	0	1	0	1	1	9	0
	2330	,,	1015·8	984·6	..	18·4	14·4	11·0	13·2	62	..	1·1	..	(j) 1·5	0	0	9	0	3	0	0	0	5	1	2	21	0
Kota	0830	57	1017·4	987·6	+0·9	19·3	15·4	12·3	14·3	64	+15	1·4	+0·4	0·8	0	0	8	0	4	0	0	0	0	1	3	22	0
	1730		1013·5	984·4	..	25·3	17·7	11·7	14·1	43	..	1·3	..	1·0	0	0	8	1	1	4	0	0	0	0	1	22	0
Erinpura (Jawai Dam)	0830	295	1017·3	982·7	..	16·2	14·3	12·9	14·9	83	..	1·4	..	4·7	0	1	12	1	0	0	6	5	1	0	0	17	0
	1730	,,	1012·8	979·5	..	25·5	20·0	16·7	19·0	59	..	1·7	..	3·6	0	0	19	7	4	0	0	1	3	1	3	11	0
Chambal (Rawat Bhatta Dam)	0830	351	1017·5	976·5	..	17·5	14·7	12·3	14·3	69	..	1·9	..	1·3	0	0	13	7	2	0	1	0	0	1	2	17	0
	1730	,,	1012·9	973·6	..	25·4	17·1	10·3	12·5	39	..	2·8	..	3·9	0	0	29	3	17	4	0	1	0	1	3	1	0
Udaipur	0230	582	1016·1	949·0	..	14·0	12·4	11.0	13·2	82	..	0·8	..	0·2	0	0	1	0	0	0	0	0	0	0	1	29	0
	0530	,,	1016·7	949·4	..	12·6	11·3	10·2	12·4	86	..	1·4	..	0·0	0	0	0	0	0	0	0	0	0	0	0	30	0
	0830	,,	1017·3	950·9	+0·4	17·1	13·8	11·2	13·5	69	+13	1·3	+0·8	0·2	0	0	2	2	0	0	0	0	0	0	0	28	0
	1130	,,	1015.5	950·9	..	25·0	17·6	12·4	14·7	46	..	1·3	..	2·0	0	0	14	1	2	5	2	2	0	0	2	16	0
	1730	,,	1012·4	947·8	..	24·3	17·3	12·7	14·5	47	..	2·6	..	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
	2330	,,	1016·5	949·8	..	15·7	13·5	11·8	13·8	78	..	0.6	..	0·3	0	0	2	0	0	1	0	0	1	0	0	28	0
Jhalawar	0830	321	1017·2	980·1	+1·4	18·5	15·4	12·9	15·0	76	+12	1·5	+0·5	0·9	0	0	9	3	1	0	3	1	0	0	1	21	0
	1730	,,	1012·7	976·7	..	26·5	18·3	12·0	14·3	43	..	2·0	..	2·8	0	0	23	9	6	3	1	0	1	0	3	7	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1015·8	991·3	..	13·4	12·4	11·4	13·6	84	..	1·1	..	0·5	0	0	6	0	0	1	2	1	2	0	0	24	0
	0530	,,	1016·1	991·6	..	12·4	11·5	10·6	12·9	89	..	0·9	..	1·0	0	0	7	1	0	0	1	1	2	2	0	23	0
	0830	,,	1017·5	993·4	+1·6	18·7	14·9	11·7	13 8	64	+14	1·5	+0·7	2 6	0	1	13	1	0	1	2	4	4	0	2	16	0
	1130	,,	1016·8	993·2	..	24·8	16·5	9·5	12·0	38	..	1·1	..	6·2	0	0	28	3	3	3	5	4	4	1	5	2	0
	1730	,,	1014·1	990·4	..	23·5	16·8	11·4	13·7	47	..	1·6	..	1·1	0	0	9	2	1	5	0	0	0	0	1	21	0
	2330	,,	1016·4	991·9	..	14·2	13·0	11·8	14·0	85	..	1·2	..	1·1	0	0	8	0	1	0	4	2	1	0	0	22	0
Sheopur	0830	235	1017·7	990·2	+0·9	17·2	14·8	12·9	14·9	76	+18	2·4	+1·4	2·7	0	0	24	4	7	1	4	5	2	0	1	6	0
	1730	,,	1013·6	986·8	..	24·0	18·9	15·4	17·7	61	..	2·2	..	5·8	0	0	29	8	11	2	2	1	1	0	4	1	0
Shivpuri	0830	464	1017·1	964·0	..	19·1	14·0	10·6	11·9	58	..	2·3	..	7·0	0	0	28	2	2	8	9	5	0	0	2	2	0
	1730	,,	1013·8	961·5	..	22·5	16·5	12·1	13·9	53	..	2·5	..	4·0	0	0	27	3	8	7	5	0	0	2	2	3	0
Nowgong	0830	229	1017·9	991·1	+1·2	16·7	14·9	13·5	15·5	81	+10	2·0	+0·8	3·7	0	6	24	2	3	4	1	4	9	1	0	6	0
	1730	,,	1014·0	988·0	..	24·5	18·5	14·4	16·4	53	..	2·5	..	2·0	0	0	16	1	12	2	0	0	0	1	0	14	0
Guna	0530	478	1016·1	960·5	..	13·8	12·2	10·9	13·0	83	..	1·6	..	4·1	0	0	18	0	3	6	9	0	0	0	0	12	0
	0830	,,	1017·3	962·6	+1·1	19·3	14·9	11·5	13·7	61	+1	2·2	+1·5	6 3	0	0	30	0	2	12	10	5	0	0	1	0	0
	1130	,,	1015·7	962·2	..	25·3	17·3	11·5	13·9	44	..	2·2	..	9·9	0	1	29	2	4	8	8	6	2	0	0	0	0
	1730	,,	1013·2	959·5	..	23·5	17·4	13·2	15·3	53	..	2·4	..	6·7	0	0	30	10	6	5	2	1	3	0	3	0	0
	2330	,,	1016·6	961·4	..	15·8	13·6	11·9	13·9	78	..	0·6	..	2·0	0	0	17	2	1	6	6	1	0	0	1	13	0
Nimach	0830	496	1017·4	960·8	+0·8	18·9	14·1	10·2	12·6	58	+10	1·9	+0·9	5·4	0	0	26	1	20	3	2	0	0	0	0	4	0
	1730	,,	1013·1	957·9	..	25·6	16·4	9·2	11·9	36	..	2 0	..	6·2	0	0	28	3	18	1	0	0	3	3	0	2	0
Rajgarh	0830	382	1016·5	972·5	..	18·2	14·8	11·9	14·1	67	..	2·3	..	2·7	0	0	24	22	2	0	0	0	0	0	0	6	0
	1730	,,	1012·9	969·4	..	25·8	17·8	11·6	13·9	42	..	2·9	..	2·9	0	0	26	25	1	0	0	0	0	0	0	4	0
Sagar	0830	551	1016·8	954·3	+0·9	19·6	14·5	10·4	12·8	57	+10	1·6	+0·3	4·8	0	0	26	0	5	13	6	1	0	0	1	4	0
	1730	,,	1012·9	951·4	..	23·2	16·4	10·6	13·7	47	..	2·0	..	2·5	0	0	23	0	10	11	0	0	0	1	1	7	0
Ratlam	0830	486	1016.5	961·0	+0·5	19·2	15·2	12·2	14·4	64	+16	2·2	+0·7	10·4	0	3	26	1	16	11	1	0	0	0	0	1	0
	1730	,,	1011·8	958·0	..	27·1	18·6	13·2	15·3	42	..	4 0	..	6·9	0	0	29	2	9	4	0	0	4	1	9	1	0

(j) Mean of 21 days.

(k) Mean of 20 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean winds speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West)—(Contd.)																											
Bhopal (Bairagarh)	0230	523	1014·8	954·9	..	17·1	14·1	11·6	13·9	71	..	1·6	..	5·7	0	0	21	3	6	4	8	0	0	0	0	9	0
	0530		1015·5	955·3	..	16·0	13·4	11·3	13·5	75	..	2·3	..	6·5	0	0	24	5	8	5	6	0	0	0	0	6	0
	0830	,,	1016·7	957·4	+0·6	20·0	15·3	11·8	13·9	60	+4	2·2	+0·8	8·7	0	0	26	1	5	9	9	2	0	0	0	4	0
	1130	,,	1015·2	956·9	..	25·2	17·5	12·0	14·4	45	..	1·9	..	11·0	0	0	27	0	4	7	11	3	0	1	1	3	0
	1730	,,	1012·7	954·3	..	24·6	17·1	11·8	14·0	46	..	3·9	..	7·0	0	0	27	10	7	4	3	1	1	0	1	3	0
	2330	,,	1015·6	955·9	..	18·2	14·7	11·9	14·2	67	..	1·9	..	6·4	0	0	21	3	8	4	5	0	1	0	0	9	0
Ujjain	0830	—	—	—	..	20·0	16·0	13·4	15·3	65	..	2·6	..	6·4	0	0	26	0	5	15	6	0	0	0	0	4	0
Hoshangabad	0830	302	1012·2	982·3	+0·6	19·5	16·3	13·8	15·9	70	+9	(b) 1·6	+0·2	(b) 6·5	0	1	28	0	15	10	3	0	0	0	1	0	0
	1730	,,	1012·1	978·2	..	27·2	21·0	17·2	19·9	55	..	1·9	..	1·8	0	0	21	7	8	2	1	0	0	1	2	9	0
Indore	0530	567	1015·0	950·0	..	15·4	13·5	11·9	14·1	80	..	1·3	..	3·1	0	0	14	0	5	1	1	5	2	0	0	16	0
	0830	,,	1016·2	952·1	+0·4	20·0	15·9	12·8	14·9	63	+11	2·2	+1·0	5·9	0	1	23	0	2	11	5	5	0	1	0	6	0
	1130	,,	1014·5	951·7	..	26·0	17·9	12·7	14·6	45	..	1·7	..	11·5	0	3	26	0	3	7	5	7	1	0	1	1	5
	1730	,,	1012.0	949·1	..	24·9	17·7	13·0	15·0	49	..	2·5	..	7·4	0	0	27	5	5	5	5	6	0	0	1	3	0
	2330	,,	1015·3	950·9	..	18·1	15·0	12·7	14·8	71	..	1·3	..	4·4	0	0	22	1	7	7	0	5	1	1	0	8	0
Rajpur (Jhabua)	0830	293	1016·3	982·7	..	20·6	16·5	13·3	15·5	63	..	2·6	..	3·5	0	0	21	0	1	20	0	0	0	0	0	9	0
	1730	,,	1011·4	978·9	..	29·3	19·6	12·8	14·9	36	..	2·0	..	2·9	0	0	23	6	3	5	1	1	0	4	3	7	0
Chhindwara	0830	685	1016·9	939·8	+1·1	19·2	15·2	12·3	14·4	65	+7	1·4	0	0·7	0	0	6	0	5	0	1	0	0	0	0	24	0
	1730	,,	1012·2	936·5	..	23·8	16·9	12·2	14·2	48	..	3.3	..	2·1	0	0	19	4	2	2	3	2	2	0	4	11	0
Seoni	0830	619	1016·4	946·7	+0·8	20·2	15·6	12·2	14·4	61	+4	2·3	+0·8	2·3	0	0	27	4	9	6	4	1	2	0	1	3	0
	1730	,,	1012·3	943·7	..	24·2	17·2	12·1	14·5	49	..	2·8	..	2·3	0	0	30	4	9	5	8	1	3	0	0	0	0
Betul	0830	653	1016·8	943·4	+1·0	20·2	15·7	12·5	14·6	62	+4	1·5	−0·3	3·7	0	0	25	0	0	5	18	1	1	0	0	5	0
	1730	,,	1012·4	940·0	..	23·5	17·6	13·7	15·9	55	..	2·2	..	4·7	0	0	30	6	19	0	1	1	0	1	2	0	0
Khandwa	0830	318	1016·4	979·9	+0·8	21·0	16·8	13·6	15·7	63	+5	2·4	+1·0	2·0	0	0	29	1	5	7	12	2	2	0	0	1	0
	1730	,,	1011·9	976·3	..	27·2	19·0	13·3	15·3	43	..	2·8	..	2·5	0	0	28	3	11	3	8	3	0	0	0	2	0
Madhya Pradesh (East)																											
Sarna	0530	317	1016·3	978·9	..	13·1	12·2	11·3	13·5	89	..	0·9	..	0·3	0	0	3	0	1	0	0	0	2	0	0	27	0
	0830	,,	1017·6	980·8	+1·2	18·1	14·5	11·4	13·6	65	+3	1·4	+0·2	0·7	0	0	9	0	0	1	1	1	1	5	0	21	0
	1130	,,	1016·0	980·1	..	24·5	16·4	9·3	12·1	39	..	1·0	..	2·7	0	0	25	1	5	3	2	2	4	1	7	5	0
	1730	,,	1013·5	977·5	..	23·1	16·7	11·6	13·8	49	..	1·4	..	1·1	0	0	13	6	1	1	1	0	0	1	3	17	0
	2330	,,	1016·4	979·3	..	15·7	13·5	11·5	13·7	76	..	0·3	..	0·2	0	0	2	0	1	0	0	0	1	0	0	28	0
Sidhi	0830	272	1016·7	985·2	..	18·5	14·6	11·3	13·5	64	..	0·5	..	0·2	0	0	2	0	0	1	1	0	0	0	0	28	0
	1730	,,	1012·8	982·1	..	24·4	16·7	10·3	12·8	42	..	0·6	..	0·2	0	0	3	0	2	1	0	0	0	0	0	27	0
Umaria	0830	459	1017·7	965·0	..	18·1	14·9	12·5	14·7	70	+8	1·0	−1·0	3·1	0	0	22	2	6	9	4	0	1	0	0	8	0
	1730	,,	1013·3	961·7	..	23·3	17·9	14·5	16·5	58	..	2·0	..	1·7	0	0	17	4	5	3	0	0	1	2	2	13	0
Jabalpur	0530	393	1016·0	970·1	..	13·9	13·1	12·7	13·7	92	..	1·0	..	0·9	0	0	11	0	1	0	8	2	0	0	0	19	0
	0830	,,	1017·4	972·2	+1·3	18.5	15·6	13·3	15·7	72	0	1·1	−0·2	1·5	0	0	18	0	1	1	14	1	1	0	0	12	0
	1130	,,	1015·5	971·4	..	25·4	18·0	12·5	13·4	45	..	0·5	..	2·7	0	0	25	3	4	0	8	8	1	1	0	5	0
	1730	,,	1012·9	968·8	..	24·3	17·9	13·4	15·4	51	..	1·5	..	1·9	0	0	19	4	12	1	1	0	0	0	1	11	0
	2330	,,	1015·8	970·4	..	16·7	14·9	13·6	14·9	82	..	1·0	..	1·7	0	0	13	1	2	1	9	0	0	0	0	17	0
Ambikapur	0830	611	1017·9	948·1	+0.9	16·5	14·1	12·2	14·3	76	+8	0·7	−0·3	2·1	0	0	19	3	8	2	2	3	1	0	0	11	0
	1730	,,	1913·3	944·9	..	21·5	15·9	11·8	14·0	55	..	1·5	..	4·7	0	0	30	29	0	0	0	1	0	0	0	0	0
Pendra	0530	625	1016·2	944·4		13·8	11·9	10.2	12·5	79	..	1·1	..	1.8	0	0	15	2	0	0	0	1	3	3	6	15	0
	0830	,,	1017·4	946·6	+0·9	18·4	14·5	11·5	13·7	65	+3	1·0	−1·0	2·6	0	0	21	10	0	0	0	1	2	3	5	9	0
	1130	,,	1015·5	945·9	..	23·2	15·5	9·2	12·0	43	..	1·7	..	6·5	0	0	30	7	5	2	0	2	3	2	9	0	0
	1730	,,	1013·4	943·6	..	21·6	15·6	11·0	13·4	52	..	1·9	..	3·3	0	0	26	8	0	2	1	3	2	2	8	4	0
	2330	,,	1016·1	945·1	..	15·8	12·9	10·5	12·8	71	.	0·9	..	2·8	0	0	16	3	0	0	0	1	2	6	4	14	0
Mandla	0830	443	1018·0	966·9	+0·8	16·4	14·4	12·9	14·8	80	+1	0·9	−0·8	0·5	0	0	3	1	1	0	0	1	0	0	0	27	0
	1730	,,	1012·8	963·2	..	23·7	17·3	12·5	14·6	51	..	2·0		1·3	0	0	9	4	0	0	1	1	0	0	3	21	0
Champa	0830	245	1017·7	989·2	+1·5	18·2	16·0	14·4	16·4	78	+10	1·4	−0·8	4·3	0	0	28	18	2	0	0	0	0	1	7	2	0
	1730	,,	1013·6	985·8	..	24·7	18·4	14·0	16·0	52	..	1·5	.	2·4	0	0	30	19	4	2	1	1	1	2	0	0	0
Raigarh	0830	220	1017·1	991·7	+1·3	20·3	16·7	14·0	16·1	68	+6	1·4	−0·6	3·3	0	0	27	1	23	1	1	1	0	0	0	3	0
	1730	,,	1013·3	988·2	..	24·3	18·1	13·7	15·7	52	..	1·4		0·9	0	0	9	4	3	0	2	0	0	0	0	21	0
Raipur	0530	298	1015·7	981·0	..	16·3	14·9	13·8	15·9	85	..	1·6	..	1·0	0	0	8	2	3	2	1	0	0	0	0	22	0
	0830	,,	1017·4	983·1	+1·6	20·5	16·8	14·0	16·1	67	+2	1·5	−0·2	2·7	0	0	20	4	9	5	1	0	1	0	0	10	0
	1130	,,	1015·9	982·2	..	25·6	18·2	12·7	14·9	45	..	2·1	..	4·9	0	0	27	3	9	9	3	0	1	0	2	3	0
	1730	,,	1013·2	979·6	..	25·0	18.0	12·8	15·0	48	..	2.2	..	2·3	0	0	16	2	9	3	1	1	0	0	0	14	0
	2330	,,	1015·5	981·1	..	19·6	16·2	13·6	15·7	69	..	0·8	..	3·4	0	0	21	0	2	6	9	3	0	0	1	9	0
Kanker	0830	402	1017·0	970·9	+1·4	19·0	16·4	14·2	16·5	74	−2	1·4	−0·9	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730		1012·6	967·6	..	24·9	18·0	12·9	15·1	48	..	1·7	..	1·6	0	0	15	0	13	0	0	0	1	1	0	15	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh East—(*Contd.*)																											
Jagdalpur	0530	553	1015·1	951·6	..	14·7	14·1	13·7	15·7	94	..	1·6	..	0·1	0	0	1	0	1	0	0	0	0	0	0	29	0
	0830	,,	1016·5	953·8	+1·4	18·7	16·2	14·6	16·5	77	−2	1·8	−1·0	1·6	0	0	10	1	8	0	0	0	0	0	1	20	0
	1130	,,	1014·1	952·7	..	24·3	17·7	13·4	15·9	52	..	2·1	..	5·7	0	0	27	3	19	5	0	0	0	0	0	3	0
	1730	,,	1012·2	950·6	..	22·8	17·6	14·2	16·3	59	..	2·5	..	2·1	0	0	18	4	13	0	1	0	0	0	0	12	0
	2330	,,	1015·4	952·4	..	16·8	15·4	14·4	16·5	86	..	1·4	..	0·4	0	0	4	0	3	1	0	0	0	0	0	26	0
Gujarat Region—																											
Deesa	0830	126	1015·8	999·9	+0·4	19·0	13·8	8·9	11·5	53	..	1·0	..	4·8	0	0	30	2	18	9	1	0	0	0	0	0	0
	1730	.	1012·1	996·8	..	29·2	17·3	7·0	10·1	25	..	1·3	..	3·3	0	0	28	9	5	1	0	4	3	1	5	2	0
Radhanpur	0830	30	1015·6	1012·1	..	19·6	16·2	13·6	15·7	69	..	0·7	..	3·9	0	0	22	10	10	2	0	0	0	0	0	8	0
	1730	,,	1012·3	1009·0	..	29·1	21·8	17·4	20·2	50	..	0·4	..	2·2	0	0	15	11	0	0	0	0	0	1	3	15	0
Idar	0830	219	1015·4	990·3	..	23·3	15·6	8·9	11·5	39	..	1·5	..	6·1	0	0	25	1	13	5	2	0	0	2	2	5	0
	1730	,,	1011·5	987·0	..	28·2	18·5	11·1	13·4	35	..	1·3	..	2·0	0	0	20	2	5	6	0	0	0	5	2	10	0
Ahmadabad	0230	55	1013.4	1006·9	..	19·2	15·3	12·5	14·2	66	..	0·8	..	8·5	0	0	24	4	16	3	0	0	0	1	0	6	0
	0530	,,	1013·5	1007·0	..	17·6	14·7	12·3	14·4	71	..	0·9	..	9·7	0	0	27	5	15	7	0	0	0	0	0	3	0
	0830	,,	1015·4	1009·0	+0·3	21·4	15·9	11·4	13·6	54	−1	1·6	+0·6	14·0	0	7	21	1	12	13	2	0	0	0	0	2	0
	1130	,,	1015·1	1008·9	..	29·1	19·5	12·5	14·9	37	..	1·5	..	16·9	0	13	17	0	5	17	5	2	1	0	0	0	0
	1730	,,	1011·8	1005·6	..	30·2	19·4	11·5	13·7	32	..	1·5	..	9.3	0	0	29	8	10	5	1	3	0	1	1	1	0
	2330	,,	1013·9	1007·4	..	20·8	16·3	12·8	14·9	61	..	0·7	..	7·6	0	0	24	12	9	2	0	0	0	0	1	6	0
Dohad	0830	333	1015·9	977·7	+0·4	20·0	16·1	13·1	15·2	65	+5	2·4	+1·1	7·2	0	0	30	0	7	13	5	4	1	0	0	0	0
	1730	,,	1011·3	974·3	..	28.6	18·8	11·7	13·7	35	..	2·2	..	8·4	0	1	29	1	10	8	2	3	2	4	0	0	0
Baroda Aerodrome	0830	38	1015·0	1010·6	..	22·4	17·7	14·4	16·4	61	..	2·5	..	9·5	0	1	28	13	6	7	1	0	0	0	2	1	0
	1130	,,	1014·6	1010·4	..	30·4	20·5	14·0	16·1	37	..	1·8	..	11·5	0	4	26	2	6	15	3	2	1	0	1	0	0
	1730	,,	1011·3	1007·0	..	30·3	20·6	14·4	16·4	38	..	2·1	..	5·3	0	0	23	7	0	0	2	0	0	2	12	7	0
Baroda	0530	34	1013·2	1009·1	..	18·3	16·4	15·0	17·1	81	..	0·4	..	..	0	0	5	0	5	0	0	0	0	0	0	25	0
	0830	,,	1015·3	1011·2	+0·8	20·2	17·4	15·3	17·6	74	+7	1·3	+0·3	..	0	0	12	0	11	0	0	0	0	0	1	18	0
	1130	,,	1015·0	1011·0	..	30·3	21·3	15·7	18·1	42	..	0·8	..	..	0	0	24	0	21	2	0	0	0	0	1	6	0
	1730	,,	1011·4	1007·5	..	28·7	21·6	17·5	20·0	51	..	0·6	..	..	0	0	9	0	8	1	0	0	0	0	0	21	0
	2330	,,	1013·8	1009·7	..	21·4	18·0	15·8	17·8	71	..	0·1	..	..	0	0	15	0	14	0	0	0	0	1	0	15	0
Broach	0830	17	1014·4	1012·3	+0·2	20·9	17·4	14·9	17·0	69	+7	1·2	0	4·0	0	0	29	1	13	4	6	2	0	0	3	1	0
	1730	,,	1010·4	1008·5	..	32·8	22·0	15·5	17·6	36	..	2·3	..	2.9	0	0	29	1	15	0	7	2	2	0	2	1	0
Surat	0530	12	1012·7	1011·3	..	21·0	18·3	16·5	18·8	76	..	0·7	..	..	0	0	21	1	10	8	1	0	1	0	0	9	0
	0830	,,	1014·7	1013·3	+0·6	23·5	19·1	16·2	18·5	64	+6	1·0	−0·4	..	0	0	27	1	21	4	0	0	0	1	0	3	0
	1130	,,	1014·4	1013·1	..	31·9	22·2	16·6	18·8	40	..	1·2	..	..	0	0	29	2	11	12	3	0	0	0	1	1	0
	1730	,,	1011·2	1009·8	..	30·6	22·6	18·0	20·9	47	..	1·5	..	..	0	0	25	0	5	0	0	1	2	9	8	5	0
	2330	,,	1013·5	1012·1	..	24·1	19·8	17·1	19·5	66	..	0·7	..	..	0	0	22	6	10	1	3	0	0	1	1	8	0
Saurashtra and Kutch																											
Bhutakia Bhimasar	0830	47	1015·5	1010·0	..	20·8	17·6	15·4	17·5	72	..	0	..	20·8	0	13	17	14	10	0	0	0	0	0	6	0	0
	1730	,,	1012·2	1006·9	..	29·5	23·1	19·5	22·9	57	..	0	..	21·8	0	13	16	17	6	0	0	0	1	0	5	1	0
Naliya	0830	21	1015·9	1013·4	..	18·0	14·8	12·1	14·3	70	..	0·8	..	6·5	0	1	24	5	19	1	0	0	0	0	0	5	0
	1730	,,	1012·6	1010·1	..	28·4	17·3	7·0	10·8	29	..	1·0	..	12·3	0	4	26	5	15	0	0	0	4	3	3	0	0
Bhuj (Rudramata)	0230	80	1014·3	1004·8	..	15·2	13·6	12·1	14·3	83	..	0·3	..	2·0	0	0	7	2	0	0	0	0	3	1	1	23	0
	0530	,,	1014·4	1004·8	..	13·8	12·8	11·9	13·9	89	..	0·4	..	3·7	0	0	12	0	1	0	0	0	8	2	1	18	0
	0830	,,	1016·1	1006·6	..	19·1	16·1	13·7	15·9	72	+23	0·7	−0·2	2·5	0	0	9	1	5	0	0	0	2	1	0	21	0
	1130	,,	1015·8	1006·7	..	28·3	20·3	14·8	17·4	46	..	0·7	..	11·5	0	4	23	4	18	3	0	0	0	0	2	3	0
	1730	,,	1012·7	1003·7	..	28·4	20.2	13·6	17·0	45	..	0·7	..	13·2	0	5	25	5	22	0	0	0	2	0	1	0	0
	2330	,,	1014·9	1005·4	..	16·7	14·0	11·7	13·8	74	..	0·3	..	2·6	0	0	9	1	0	0	0	0	4	4	0	21	0
Kandla	0830	35	1016·0	1011·9	..	21·1	16·7	13·3	15·5	62	..	1·3	..	13·4	0	1	28	13	1	0	0	0	1	0	14	1	0
	1130	,,	1015·9	1011·9	..	28·6	20·0	14·2	16·4	42	..	1·0	..	14·8	0	4	25	11	12	5	1	0	0	0	0	1	0
	1730	,,	1012·7	1008·8	..	28·8	19·4	12·6	14·9	38	..	1·1	..	20·2	0	12	18	18	2	1	1	2	2	0	4	0	0
New Kandla	0830	14	1016·4	1014·7	..	20.5	16·2	12·7	14·9	62	..	1·5	..	11·1	0	2	28	17	4	0	0	0	1	1	7	0	0
	1730	,,	1013·1	1011·5	..	27·9	19·3	13·1	15·4	41	..	1·1	..	16·1	0	9	20	18	3	1	1	0	4	1	1	1	0
Mandvi	0830	9	1015·5	1014·4	+0·5	21·0	16·7	13.4	15·5	62	+1	1·6	+0·1	8·1	0	0	30	4	26	0	0	0	0	0	0	0	0
	1730	,,	1012·7	1011·6	..	26·9	22·4	19·5	23·5	67	..	1·4	..	9·9	0	2	27	0	6	0	3	0	14	4	0	1	2
Surendranagar	0830	74	1015·5	1006.8	+0·1	21·8	15·5	9·9	12·5	48	−1	1·3	+0·4	6·7	0	1	28	12	8	2	0	1	0	2	4	1	0
	1730	,,	1011·5	1003·0	..	31·2	19·2	9·7	12·3	27	..	(c) 2·1	..	(c) 5·3	0	0	27	8	5	7	0	0	0	2	5	1	0
Jamnagar Aerodrome	0530	23	1013·4	1010·8	..	17·5	14·1	11·1	13·2	67	..	0·7	..	7·5	0	0	23	2	8	3	5	2	3	0	0	7	0
	0830	,,	1015·3	1012·7	+0·6	20·6	15·8	12·1	14·1	59	−4	1·6	+0·7	8·4	0	3	21	0	7	9	4	3	0	0	1	6	0
	1130	,,	1015·4	1012·8	..	26·8	18·7	12·8	14·8	43	..	1·2	..	16·3	0	8	22	8	18	3	0	0	0	0	1	0	0

(c) Mean of 28 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(*Contd.*)																												
Jamnager (Aerodrome)—(*Contd.*)	1730	23	1012·0	1009.4	..	28·3	18·3	10·6	12·8	34	..	1·0	..	17·1	0	9	20	14	12	0	0	0	0	1	2	1	0
	2330	"	1014·1	1011·5	..	22·2	18·2	15·5	17·6	67	..	0 6	..	9·9	0	2	24	9	11	0	0	1	1	2	2	4	0
Dwarka	0830	11	1015·1	1013·8	+0·3	21·4	18·6	16·9	19·1	76	+9	1·0	−0·3	11·3	0	6	23	9	12	7	0	0	0	0	1	1	0
	1730	"	1012·5	1011·2	..	27·0	20·6	16·6	19·0	53	..	0·5	..	17·1	0	9	21	12	5	1	0	0	0	3	9	0	0
Rajkot	0830	138	1015·3	999·4	+0 1	20·9	16.2	12·4	14·7	59	+2	0·5	−0·3	8·3	0	1	25	4	16	3	1	0	0	1	1	4	0
	1130	"	1014·7	999.2	..	29·4	20·7	14·9	17·4	43	..	0·2	..	13·9	0	6	24	3	20	5	1	0	0	0	0	0	1
	1730	"	1011·2	995·9	..	30·9	21·1	14·8	16 9	39	..	0·5	..	11·2	0	1	28	5	17	0	0	0	0	4	3	1	0
Bhaunagar Aerodrome	0830	11	1014·9	1013·7	+0·4	22·6	17·2	13·0	15·3	55	+2	0·9	−0·9	11·9	0	4	24	6	5	1	0	1	1	2	11	2	1
	1130	"	1014·9	1013·7	..	28·1	20·7	16·1	18·3	49	..	0·6	..	16·8	0	9	21	0	18	8	4	0	0	0	0	0	0
	1730	"	1011·4	1010·2	..	30·6	20·4	13·5	15·7	35	..	1.2	..	13 9	0	2	28	2	13	8	5	1	1	0	0	0	0
Porbander Aerodrome	0830	7	1015·3	1014·5	..	23·9	16·6	10.6	12·8	46	..	1·1	..	12.8	0	10	19	4	12	5	2	0	1	0	5	1	0
	1130	"	1014.9	1014·1	..	30·5	19·3	10·8	13·2	31	..	0 4	..	16·3	0	11	19	4	13	7	2	0	0	1	3	0	0
	1730	"	1011·7	1010·9	..	29·3	20·0	12·9	14·9	41	..	1·1	..	19·0	0	11	19	8	3	0	0	0	1	13	4	0	1
Porbander	0830	7	1014·7	1013·9	+0·2	22·6	17·0	12·6	14 9	56	−7	2·4	+1·5	9·1	0	3	27	11	11	4	0	0	0	0	4	0	0
	1730	"	1011·7	1010 9	..	29·5	22.6	18·8	21·8	54	..	2·2	..	13·5	0	1	29	6	2	0	0	0	1	13	8	0	0
Keshod	0830	51	1015·0	1009·1	..	21·6	14·5	7·7	10·8	42	..	0·7	..	13·0	0	6	24	3	16	11	0	0	0	0	0	0	0
	1130	"	1014·8	1009 0	..	30.2	18·4	8·7	11·5	27	..	0·2	..	20 5	0	14	16	6	14	9	1	0	0	0	0	0	0
	1730		1011.3	1005·6	..	32·1	18·8	8 0	10·9	23	..	0·6	..	16·1	0	11	19	8	5	0	0	1	3	9	4	0	0
Mahuva	0830	9	1013·9	1012.9	..	23·5	17·7	13·6	15.6	54	..	2·7	..	6·3	0	0	30	3	24	0	1	1	0	0	1	0	0
	1730	"	1011·3	1010·3	..	29·2	21 2	16·2	18 6	46	..	2·9	..	8·1	0	0	30	0	3	3	22	2	0	0	0	0	0
Veraval	0230	8	1012.5	1011·6	..	21 0	16.7	13·2	15·5	64	..	0·3	..	10 9	0	2	28	13	10	1	0	0	0	0	6	0	0
	0530	"	1012·1	1011·2	..	20·3	15·0	10·2	12·8	54	..	0·5	..	13·7	0	5	25	13	13	1	0	0	0	0	3	0	0
	0830	"	1014·0	1013·1	+0·1	23 0	15·9	9·8	12·3	45	−7	1·3	+0·2	13 9	0	5	24	13	15	0	0	0	0	0	1	1	0
	1130	"	1014·2	1013·3	..	31·3	19·9	11·5	13·6	32	..	1·3	..	13·1	0	3	26	5	11	3	0	2	3	1	4	1	0
	1730	"	1011·3	1010·4	..	28·1	23·3	20·8	24·7	65	..	2 2	..	13 7	0	8	21	1	0	0	4	4	4	13	3	1	0
	2330	"	1013·4	1012·5	..	22·9	19·3	16·8	19 5	70	..	0·7	..	8·8	0	0	27	13	7	0	0	0	0	2	5	3	0
Konkan																												
Dahanu	0830	5	1013·6	1013·1	+0·7	24·0	20·0	17.4	20·1	67	−3	2·6	+0·6	5 4	0	0	29	0	4	9	16	0	0	0	0	1	0
	1730	"	1010·4	1009·9	..	28 6	23·2	20·4	24·0	62	..	3·5	..	15·2	0	7	23	15	0	1	0	0	1	2	11	0	0
Bombay (Santa Cruz)	0230	15	1011·5	1009·9	..	22·6	20·5	19·2	22 4	82	..	0·9	..	5·0	0	0	23	0	13	9	0	0	0	0	1	7	0
	0530	"	1011·6	1009 9	..	21·8	19·8	18·5	21·4	82	..	0·4	..	6 8	0	1	25	0	19	7	0	0	0	0	0	4	0
	0830	"	1013 6	1011·9	+0 2	25 9	21·3	18·6	21·6	64	+4	1·8	0	6·8	0	0	26	0	10	14	1	1	0	0	0	4	0
	1130	"	1013.5	1011·8	..	31·2	22·4	17·4	19·9	44	..	1·8	..	10·0	0	1	28	1	4	9	12	3	0	0	0	1	0
	1730	"	1010·6	1008·9	..	29·2	23·1	19·8	23·2	58	..	2·4	..	12·0	0	1	29	2	0	0	0	1	2	3	22	0	0
	2330	"	1012·8	1011.1	..	23·7	21·2	19·8	23·2	79	..	0·7	..	5·7	0	0	25	1	18	5	1	0	0	0	0	5	0
Bombay	0830	11	1013·7	1012·5	+0·4	25·4	22·5	21·0	24·9	77	+4	1·7	−0·1	4·4	0	0	26	1	9	13	3	0	0	0	0	4	0
	1130	"	1013 7	1012·5	..	30·5	23 9	20·5	24·3	56	..	1·6	..	3·4	0	0	27	0	6	14	6	1	0	0	0	3	0
	1730	"	1010·6	1009·4	..	28·9	24·1	21·7	26·1	65	..	2·1	..	6·5	0	0	30	1	0	0	0	0	0	10	19	0	0
Alibag	0830	7	1013·5	1012·7	+0·5	25·5	22·1	20·3	23·8	73	+6	1·4	−0·9	2·5	0	0	23	5	10	8	0	0	0	0	0	7	0
Harnai	0830	20	1013·3	1011·0	+1·0	27·2	21·5	18·1	21·0	58	−2	3·8	+1.4	9·1	0	6	20	1	4	6	8	3	0	2	2	4	0
	1730	"	1010·2	1007·9	..	28·6	23·8	21·5	25·5	66	..	3·6	..	16 5	0	6	24	0	0	0	0	0	1	12	17	0	0
Ratnagiri	0830	35	1013·2	1009·3	+0·7	25·3	20·3	17·1	19·7	61	..	2·5	..	10 9	0	3	27	0	1	19	10	0	0	0	0	0	0
	1730	"	1009·6	1005·8	..	29·8	23·7	20·5	24·4	58	..	2·2	..	9·1	0	0	30	3	0	0	2	0	0	5	20	0	0
Devgad	0830	36	1013·1	1009·0	+0·6	24·9	21·5	19·5	22·9	73	+2	3·7	+0·6	8·0	0	0	30	0	4	25	1	0	0	0	0	0	0
	1730	"	1009·4	1005·4	..	30·4	24·4	21·3	25·6	59	..	3·3	..	14 3	0	6	24	0	2	4	0	0	0	10	14	0	0
Vengurla	0230	9	1011·0	1010·0	..	22·6	21·5	20·9	24·7	90	..	1·7	..	..	0	0	9	6	2	1	0	0	0	0	0	21	0
	0530	"	1011·2	1010.2	..	21·5	20·7	20·2	23.8	92	..	2·1	..	..	0	0	8	4	3	1	0	0	0	0	0	22	0
	0830	"	1013·4	1012·4	+0·6	24·0	21·4	20·0	23·4	79	+5	2·3	−0·3	..	0	0	13	5	5	2	1	0	0	0	0	17	0
	1130	"	1012·9	1011·9	..	31·3	22·9	18·1	21·0	47	..	2·1	..	..	0	0	29	4	8	12	3	1	0	1	0	1	0
	1730	"	1009·5	1008·5	..	29.7	24 2	21·3	25·6	62	..	3·0	..	..	0	0	27	0	2	0	0	0	0	20	5	3	0
	2330	"	1012·2	1011·2	..	23·7	22·3	21.5	25·8	88	..	2·0	..	..	0	0	14	12	1	0	0	0	0	0	1	16	0
Madhya Maharashtra																												
Nandurbar	0830	206	1015·3	991·8	..	24·4	17·6	12·6	14·6	48	..	1.8	..	7·9	0	0	29	2	12	12	3	0	0	0	0	1	0
	1730	"	1010·7	987·7	..	30·2	19·9	12·8	14·9	34	..	1 9	..	3·7	0	0	21	2	5	10	0	0	0	1	3	9	0
Jalgaon	0830	201	1016·2	993·0	+1·3	21·1	17·1	14·1	16·3	64	+3	2·6	+0·9	11·4	0	0	30	0	0	25	5	0	0	0	0	0	0
	1730	"	1012·1	989·5	..	29·7	19·7	12·9	14·9	36	..	2·5	..	7·6	0	0	29	1	4	20	1	0	0	1	2	1	0
Malegaon	0830	437	1015·8	966·1	+0·6	20·8	16·3	12.5	14·9	60	+2	1·6	−0·3	2.0	0	0	12	2	0	1	0	2	3	3	1	18	0
	1730	"	1010·4	962·3	..	29·4	19·1	11·4	14·7	34	..	3·7	..	6·4	0	0	22	2	7	6	5	0	1	1	0	8	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Wind speed (Km.p.h.): Mean wind speed, in km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra (*Contd.*)																											
Deolali (Aerodrome)	0830	571	1016.2	951·6	..	19.7	16·4	14.3	16.3	69	..	1·9	..	6·1	0	0	26	22	2	1	0	0	0	0	1	4	0
	1730	,,	1011·4	948.3	..	27.7	18.8	13·1	15.1	42	..	3.7	..	6.8	0	0	26	3	2	9	0	2	2	4	4	4	0
Ahmednagar	0830	657	1015·2	941·6	+0·2	20·5	15·9	12·7	14·7	62	+3	2·1	+0.3	2·5	0	0	16	0	2	0	14	0	0	0	0	14	0
	1730	,,	1010·4	938·8	..	27·5	18·5	12·6	14·7	41	..	4·0	..	3·4	0	0	12	0	9	0	3	0	0	0	0	18	0
Poona (Aerodrome)	0230	593	1012·9	946·0	..	19·8	16·1	13·7	15·6	67	..	1·3	..	2·8	0	0	14	2	0	10	1	0	0	1	0	16	0
	0530	,,	1013·5	946·3	..	18·3	15·3	13·2	15·2	73	..	0·9	..	3·6	0	0	13	0	3	8	1	0	0	0	1	17	0
	0830	,,	1014·9	948·3	..	21·5	16·5	13·0	15·0	59	..	2·5	..	4·7	0	0	22	1	4	13	4	0	0	0	0	8	0
	1130	,,	1013·1	948·0	..	27·6	18·5	12·5	14·9	40	..	2·8	..	13·5	0	5	25	0	1	15	13	1	0	0	0	0	0
	1730	,,	1009·3	944·5	..	28·5	18·1	10·9	13·0	34	..	3·7	..	8·5	0	2	25	2	2	18	3	0	1	0	1	3	0
	2330	,,	1013·4	946·9	..	21·4	16·6	13·4	15·4	61	..	1·6	..	4·3	0	0	21	2	1	11	1	1	1	3	1	9	0
Poona . . .	0530	559	1013·5	949·9	..	17·4	15·5	14·2	16·3	82	..	0·6	..	0	0	0	30	0	0	0	0	0	0	0	0	30	0
	0830	,,	1015·1	952·0	+0·2	20·4	16·7	14·2	16·3	68	−5	1·8	−0·1	0·6	0	0	4	1	0	2	1	0	0	0	0	26	0
	1130	,,	1012·8	951·4	..	28·5	19·2	13·7	15·8	42	..	2·4	..	4·5	0	0	26	1	5	13	5	1	0	0	1	4	0
	1730	,,	1009·1	948·1	..	28·7	19·3	13·4	15·5	40	..	3·4	..	1·1	0	0	6	0	1	5	0	0	0	0	0	24	0
	2330	,,	1013·4	950·5	..	21·1	17·5	15·2	17·4	69	..	1·6	..	0·4	0	0	2	0	0	1	0	0	0	0	1	28	0
Jeur . .	0830	521	1015·1	956·3	+0·6	20·9	16·6	13·6	15·7	64	+3	3·5	+1·3	4·9	0	0	27	1	2	8	10	4	0	0	2	3	0
	1730	,,	1009·5	952·4	..	28·6	19·2	13·2	15·4	40	..	3·8	..	7·4	0	0	30	1	5	17	6	1	0	0	0	0	0
Baramati . .	0830	551	1015·2	953·3	+0·3	21·3	16·6	13·2	15·5	63	−4	2·1	−0·6	6·6	0	0	30	3	0	16	8	3	0	0	0	0	0
	1730	,,	1009·3	949·3	..	29·1	19·0	12·7	14·6	37	..	2·8	..	7·5	0	0	30	0	2	18	8	2	0	0	0	0	0
Sholapur . .	0530	479	1014·0	959·3	..	18·3	15·8	14·1	16·1	78	..	2·3	..	5·9	0	0	26	1	5	10	8	2	0	0	0	4	0
	0830	,,	1015·4	961·4	+1·0	22·2	18·2	15·7	17·9	67	+10	2·8	+0·6	8·1	0	0	29	1	3	3	16	5	1	0	0	1	0
	1130	,,	1013·7	960·8	..	27·8	20·4	16·2	18·5	50	..	2·6	..	14·7	0	5	25	0	3	6	17	4	0	0	0	0	0
	1730	,,	1010·0	957·4	..	28·9	19·8	14·5	16·5	41	..	2·8	..	10·3	0	0	30	0	10	12	7	1	0	0	0	0	0
	2330	,,	1013·8	959·8	..	21·8	16·9	13·6	15·7	60	..	2·0	..	11·7	0	1	29	0	7	15	7	1	0	0	0	0	0
Miraj . . .	0830	554	1014·7	952·6	+0·7	21·7	18·0	15·7	17·9	69	+7	3·8	+1·0	..	0	0	18	0	0	9	9	0	0	0	0	12	0
	1730	,,	1008·9	948·6	..	29·0	20·4	15·4	17·7	44	..	4·2	.	..	0	0	23	0	1	18	4	0	0	0	0	7	0
Kolhapur . .	0530	570	1013·4	948·7	..	17·3	15·1	13·8	15·4	78	..	2·1	.	4·9	0	0	28	0	9	14	4	1	0	0	0	2	0
	0830	,,	1014·7	950·8	+0·7	21·3	17·0	14·1	16·3	64	−3	3·2	+1·3	10·2	0	2	28	1	11	18	0	0	0	0	0	0	0
	1130	,,	1012·7	950·1	..	27·0	19·1	14·1	16·3	46		3·9	.	19·3	0	18	12	0	6	21	3	0	0	0	0	0	0
	1730	,,	1008·7	946·6	..	28·3	18·6	12·4	14·3	37	..	3·8	..	12·0	0	4	26	0	9	15	5	1	0	0	0	0	0
	2330	,,	1012·9	949·1	..	21·3	16·6	13·2	15·5	61	..	1·9	..	8·2	0	0	29	0	4	15	5	0	3	2	0	1	0
Marathwada Aurangabad .	0830	581	1015·9	950·9	+0·6	22·3	16·5	12·4	14·5	54	0	2·8	+0·6	3·6	0	0	28	0	1	24	1	0	1	1	0	2	0
	1730	,,	1011·1	947·3	..	27·4	18·3	12·2	14·4	39	..	3·6	..	2·8	0	0	23	1	3	15	3	0	0	0	1	7	0
Aurangabad (Chikalthan)	0230	579	1014·2	948·1	..	16·4	13·8	11·8	14·0	75	..	0·9	..	0·9	0	0	3	0	0	2	1	0	0	0	0	27	0
	0530	,,	1014·7	948·2	..	15·0	13·0	11·4	13·6	79	..	1·1	..	1·2	0	0	4	0	0	3	1	0	0	0	0	26	0
	0830	,,	1015·5	950·5	..	21·7	17·0	13·9	15·9	62		1·6	.	5·2	0	0	16	0	0	10	5	1	0	0	0	14	0
	1130	,,	1014·2	950·2	..	26·6	19·1	14·5	16·6	48		1·9	..	12·7	0	5	24	0	0	11	13	2	1	2	0	1	0
	1730	,,	1010·5	946·9	.	27·0	19·0	14·0	16·1	45	.	3·2	..	6·4	0	1	18	0	2	14	3	0	0	0	0	11	0
	2330	,,	1014·8	949·0	..	17·8	14·7	12·4	14·5	71	..	1·0	..	1·3	0	0	4	0	0	4	0	0	0	0	0	26	0
Parbhani . .	0830	423	1016·2	968·2	+1·6	21·4	16·7	12·9	15·2	60	+2	2·3	−0·1	5·9	0	0	30	0	7	15	6	1	0	0	1	0	0
	1730	,,	1011·4	964·5	..	27·7	18·4	11·3	13·6	37	..	3·4	..	7·9	0	0	30	0	11	17	2	0	0	0	0	0	0
Nander . . .	0830	358	1016·1	975·2	..	21·9	18·1	15·8	17·7	67	..	1·7	..	2·5	0	0	15	0	6	4	4	1	0	0	0	15	0
	1730	,,	1011·9	972·1	..	28·0	19·4	13·5	15·6	42	..	1·3	..	4·3	0	0	27	0	18	2	7	0	0	0	0	3	0
Bir . .	0830	519	1015·9	957·4	..	21·8	17·4	14·6	16·6	64	..	2·7	..	4·0	0	0	24	0	7	0	10	2	3	0	2	6	0
	1730	,,	1011·4	954·2	..	27·0	19·0	13·8	16·1	45	..	3·4	..	4·7	0	0	30	0	21	4	4	0	0	0	1	0	0
Vidarbha Gondia . . .	0830	313	1017·3	981·2	+1·1	19·5	16·3	13·9	15·9	70	0	2·3	+0·6	2·3	0	0	16	3	6	6	0	1	0	0	0	14	0
	1730	,,	1012·8	977·7	..	26·7	18·2	12·0	14·0	40	..	2·7	..	2·3	0	0	21	4	6	4	2	0	1	1	3	9	0
Nagpur (Sonegaon) .	0230	310	1014·5	978·5	..	16·8	15·2	14·0	16·0	83	..	0·5	..	3·2	0	0	25	13	3	0	0	0	0	2	7	5	0
	0530	,,	1015·1	979·1	..	15·4	14·3	13·4	15·4	88	..	0·6	..	2·2	0	0	17	10	4	0	0	0	0	0	3	13	0
	0830	,,	1017·0	981·4	+1·2	20·6	16·8	13·9	16·1	66	+10	1·9	+0·1	5·0	0	0	27	7	17	3	0	0	0	0	0	3	0
	1130	,,	1015·3	980·5	..	27·1	18·8	12·8	15·0	42	..	2·1	..	5·8	0	0	24	0	7	12	3	1	1	0	0	6	0
	1730	,,	1012·5	977·5	..	26·1	18·8	13·8	15·8	47	..	2·3	..	2·5	0	0	21	4	10	4	3	0	0	0	0	9	0
	2330	,,	1015·3	979·5	..	18·3	15·8	13·9	16·1	76	..	0·8	..	2·1	0	0	16	5	4	1	2	0	0	0	4	14	0
Amraoti . .	0830	370	1016·1	974·1	+0·8	21·9	16·5	12·2	14·4	55	+5	2·8	+1·0	6·0	0	0	30	1	12	17	0	0	0	0	0	0	0
	1730	,,	1011·0	969·9	..	27·7	18·2	11·2	13·2	36	..	2·1	..	6·1	0	0	30	3	5	3	11	5	1	1	1	0	0
Akola Aerodrome .	0530	309	1014·3	978·2	..	15·9	13·7	11·6	13·9	76	..	1·4	..	4·8	0	0	29	0	7	20	2	0	0	0	0	1	0
	2330	,,	1014·0	978·5	..	20·1	16·0	12·7	14·9	63	..	0·3	..	4·0	0	0	26	0	1	8	15	2	0	0	0	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Kmp. h.): 62 or more	Wind speed (Kmp. h.): 20 to 61	Wind speed (Kmp. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*contd.*																											
Akola	0830	282	1006·3	984·0	+1.0	21·0	16·4	12·8	14·9	60	+3	2.0	+0·2	0·7	0	0	9	0	5	1	0	0	0	3	0	21	0
	1130	"	1014·7	983·1	..	27·8	19·3	13·4	15.5	43	..	1·6	..	5·5	0	0	29	2	3	16	6	1	0	0	1	1	0
	1730	"	1011·4	980·2	..	28·8	19·4	12·7	14·9	38	..	2·2	..	1·7	0	0	18	0	4	14	0	0	0	0	0	12	0
Bramhapuri	0830	229	1017·1	990·6	..	20·1	16·9	14·6	16·7	71	..	1·5	..	4·9	0	0	28	3	19	4	2	0	0	0	0	2	0
	1730	"	1012·8	987·0	..	26·6	18·9	13·3	15.6	45	..	1·4	..	5·3	0	0	29	4	12	11	1	1	0	0	0	1	0
Buldhana	0830	650	1015·5	942·5	+0.6	20·3	15·5	12·0	14·1	59	+3	1·9	+0.4	2·9	0	0	26	0	0	0	15	0	0	0	11	4	0
	1730	"	1011·3	939·9	..	26·2	17·9	12·4	14·5	43	..	2·3	..	2·1	0	0	29	1	2	0	13	0	1	0	12	1	0
Yeotmal	0830	451	1015·7	964·6	+0.5	21·4	16·5	12·6	14·8	59	+7	5·5	+3.3	7.8	0	0	30	1	8	14	5	0	2	0	0	0	0
	1730	"	1012·0	961·8	..	26.1	18·3	12·6	14 7	44	..	2.9	..	5.1	0	0	27	3	12	12	0	0	0	0	0	3	0
Chanda	0830	193	1016.5	994.2	+1.1	20.8	18.1	16.3	18.5	76	+6	1.4	−0.7	2.5	0	0	17	2	3	8	3	0	0	0	1	13	0
	1730	"	1012·2	990·4	..	26·5	20·5	16·9	19·3	56	..	1·5	..	2·1	0	0	24	2	7	9	4	1	0	0	1	6	0
Pusad	0830	334	1016·8	978·3	..	19·0	16·6	14·9	16·9	78	..	1·0	..	1·0	0	0	10	2	1	1	0	0	0	0	6	20	0
	1730	"	1012·3	975·1	..	27·3	19·2	13·3	15·7	45	..	1.4	..	3·7	0	0	26	1	22	1	1	0	0	0	1	3	0
Sironcha	0830	123	1016·6	1002·3	+1·1	21·5	19·1	17·8	20·1	79	+2	(b) 1·6	−0·9	(b) 2·9	0	0	26	10	5	5	3	0	0	0	3	4	0
	1730	"	1012·6	998·6	..	26·7	20·7	17·0	19·5	56	..	1·9	..	3·3	0	0	28	6	12	6	2	0	0	0	2	2	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1016·0	1015·3	+1·7	23·4	20·5	18·7	21·8	75	−4	2·1	−0·8	7·3	0	1	29	5	8	1	0	0	1	1	14	0	0
	1730	"	1013·1	1012·5	..	25·3	21·3	18·9	22·1	68	..	1·6	..	8·9	0	1	29	0	15	10	4	0	1	0	0	0	0
Vishakhapatnam	0230	3	1013·2	1012·8	..	21·8	19 8	18·6	21·4	83	..	1·6	..	2·9	0	0	9	2	3	0	0	0	0	0	4	21	0
	0530	"	1013·7	1013·3	..	21·2	19·2	17·9	20·6	82	..	2·3	..	2·2	0	0	9	3	2	1	0	0	0	0	3	21	0
	0830	"	1015.9	1015·5	+1·7	25·0	20·5	17·7	20·5	65	−1	2·1	−1·6	8·4	0	2	21	5	10	4	0	0	0	2	2	7	0
	1130	"	1014.8	1014·4	..	28·0	21·0	16·8	19·1	52	..	3·4	..	10·3	0	1	26	2	12	11	1	0	0	1	0	3	0
	1730	"	1012·7	1012·3	..	25·4	20·8	18.0	20·8	65	..	2·8	..	10·7	0	0	27	0	3	22	2	0	0	0	0	3	0
	2330	"	1014·4	1014·0	..	22·5	20·3	19·0	22·1	81	..	2·2	..	3·0	0	0	9	0	5	0	0	0	0	0	4	21	0
Kakinada	0830	8	1015·6	1014·7	+1·7	25·9	22·1	20·0	23·5	70	−3	3·0	−0·6	13·9	0	4	26	1	28	1	0	0	0	0	0	0	0
	1730	"	1012·4	1011·5	..	26·1	21·9	19·7	22·9	69	..	3·2	..	12·9	0	5	25	0	29	1	0	0	0	0	0	0	0
Nidadavole	0830	12	1015·5	1014·1	..	23.8	21·0	19·5	22·5	76	..	3·3	..	4·8	0	0	30	0	28	2	0	0	0	0	0	0	0
	1730	"	1012·9	1010·6	..	26·3	21·7	19·0	22·1	65	..	5·3	..	4·7	0	0	28	0	7	12	9	0	0	0	0	2	0
Rentachintala	0830	106	1015·7	1003·5	..	23 7	21.1	19·5	22·9	78	+6	3·5	−1.2	0·1	0	0	2	0	1	0	0	0	0	1	0	28	0
	1730	"	1011.7	999·7	..	26·9	20·9	17·0	19·7	56	..	3·5	..	1.5	0	0	20	11	2	7	0	0	0	0	0	10	0
Gannavaram	0230	24	1012·9	1010·1	..	22·0	20·9	20·2	23·8	89	..	1·7	..	4·2	0	0	19	5	13	1	0	0	0	0	0	11	0
	0530	"	1013·4	1010·5	..	21·4	20·2	19·6	22·7	89	..	2.2	..	5·4	0	0	25	10	15	0	0	0	0	0	0	5	0
	0830	"	1015·6	1012·8	+2·3	24·9	21•5	19·6	22·8	73	0	2·8	−0.6	9·8	0	1	29	2	23	5	0	0	0	0	0	0	0
	1130	"	1014.5	1011·7	..	28·0	22·1	18·8	21.8	58	..	4.1	..	12·8	0	5	25	1	17	11	1	0	0	0	0	0	0
	1730	"	1012·2	1009.5	..	26·8	21·7	18·6	21·8	62	..	4.1	..	6·1	0	0	26	1	8	12	4	0	0	0	1	4	0
	2330	"	1014·2	1011·5	..	22·8	21·3	20·4	24·1	86	..	1·8	..	5·8	0	0	28	7	16	5	0	0	0	0	0	2	0
Nagarjunakonda	0830	..	..	..	..	24·3	21·1	19·2	22·3	73	..	3·4	..	5.5	0	0	22	5	6	6	4	1	0	0	0	8	0
	1730	"	..	..	..	26·8	21·0	17·5	20·1	58	..	3·5	..	8·9	0	0	30	2	13	11	3	1	0	0	0	0	0
Masulipatam	0830	3	1015·3	1014·9	+1·4	24·8	22·5	21·3	25·3	81	+3	3.2	+0.1	5·1	0	0	30	4	24	2	0	0	0	0	0	0	0
	1730	"	1012·2	1011·8	..	25·8	23·1	21·8	25 9	79	..	4·1	..	5·5	0	0	29	1	8	10	9	1	0	0	0	1	0
Ongole	0830	12	1015·1	1013·8	..	24·8	22·3	20·9	24.9	79	..	4·2	..	3·4	0	0	29	3	26	0	0	0	0	0	0	1	0
	1730	"	1011.7	1010·4	..	26·4	22·6	20·5	24·3	71	..	4·7	..	4·3	0	0	30	1	12	17	0	0	0	0	0	0	0
Nellore	0530	20	1012·7	1009·8	..	22·0	21·7	21·4	25·6	96	..	4·3	..	0·5	0	0	6	0	5	1	0	0	0	0	0	24	0
	0830	"	1014·7	1012·5	+1·6	23·9	22·7	22·0	26·6	89	+6	5·8	+0.8	2·4	0	0	28	7	6	0	0	0	0	2	13	2	0
	1130	"	1013·9	1011·6	..	26·7	23·5	21·8	26·3	76		6·2	..	3·0	0	0	26	5	18	0	0	0	0	0	3	4	0
	1730	"	1011·8	1009·5	..	25·3	22·8	21·5	25·6	81	..	5·9	..	1·8	0	0	23	6	16	1	0	0	0	0	0	7	0
	2330	"	1013·3	1011·0	..	22·8	22·1	21·7	25.9	93	..	2·8	..	0·4	0	0	6	0	5	1	0	0	0	0	0	24	0
Telangana																											
Ramgundam	0830	156	1015·7	997·6	+0·7	21·2	18·6	17·0	19·4	78	+11	1·6	−1.0	3·9	0	0	23	16	5	1	0	0	0	1	0	7	0
	1730	"	1512·5	994·8	..	26·9	19·9	15·1	17·6	50	..	2·7	..	6·7	0	1	28	9	18	2	0	0	0	0	0	1	0
Nizamabad	0830	381	1015.9	972·6	+1·4	22·0	18·9	15·5	17·6	67	−1	1·7	−0.5	0·2	0	0	3	1	1	1	0	0	0	0	0	27	0
	1730		1011·7	969·3	..	26·8	20·7	16·3	19·5	56	..	1·4	..	1·3	0	0	20	0	12	8	0	0	0	0	0	10	0
Hanamkonda	0830	269	1015·9	985·2	+1·0	22·1	19·4	17·7	20·2	77	+8	1·6	−1.5	1·9	0	0	28	9	8	4	0	6	1	0	0	2	0
	1730	"	1012·2	982·1	..	26·5	19·9	15·4	17·8	52	..	1·3	..	1·9	0	0	29	7	17	5	0	0	0	0	0	1	0
Hakimpet (Aerodrome)	0530	613	1014·1	944·7	..	17·9	15·9	14·7	16·8	85	..	3·3	..	3·5	0	0	18	0	5	10	3	0	0	0	0	12	0
	0830	"	1015·0	946·4	..	21·4	17·9	15·7	17·7	71	..	3•8	..	7.9	0	0	28	0	3	11	12	2	0	0	0	2	0
	1130	"	1013·8	946·1	..	25·1	19·1	15·3	17·4	55	..	4·0	..	11·2	0	0	30	0	8	14	8	0	0	0	0	0	0
	1730	"	1011·7	944·1	..	24·3	18·5	14·8	16·7	56	..	3·3	..	7·3	0	0	30	0	7	18	5	0	0	0	0	0	0
Bhadrachallam	0830	111	1015·9	1003·1	+0·8	22·3	20.0	18.6	21.6	80	+1	3·4	0	3·6	0	0	29	0	2	4	1	10	3	9	0	1	0
	1730	"	1011.9	999.4	..	26.6	21.5	18.4	21.6	61	..	2·0	..	2.7	0	0	29	1	8	3	1	7	3	6	0	1	0

(b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in Millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in Millibars: At station level	Mean pressure in Millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*contd.*																											
Hyderabad (Begampet)	0230	545	1011·1	952·0	..	17·1	15·7	14·9	16·7	87	..	2·3	..	2·3	0	0	12	0	5	3	4	0	0	0	0	18	0
	0530	,,	1014·6	952·5	..	16·1	15·1	14·5	16·3	90	..	2·1	..	2·3	0	0	13	3	3	4	3	0	0	0	0	17	0
	0830	,,	1015·3	954·4	+1·4	20·8	17·7	15·8	17·7	73	+8	3·5	+0·5	5·4	0	1	18	0	1	8	8	2	0	0	0	11	0
	1130	,,	1014·3	953·8	..	25·2	18·6	14·4	16·1	53	..	3·7	..	8·5	0	0	29	0	2	13	13	0	0	0	0	1	1
	1730	,,	1011·5	951·2	..	25·1	18·3	13·9	15·5	51	..	3·6	..	8·6	0	1	29	0	4	18	7	5	0	0	0	0	0
	2330	,,	1015·1	953·2	..	18·1	16·2	14·9	16·9	82	..	2·1	..	3·3	0	0	19	0	7	10	1	1	0	0	0	11	0
Khammam	0830	112	1015·4	1002·8	..	22·9	20·5	19·1	22·1	79	..	2·8	..	1·4	0	0	10	3	1	6	0	0	0	0	0	20	0
	1730	,,	1011·9	999·2	..	27·3	20·7	16·7	19·0	53	..	3·1	..	2·1	0	0	17	4	4	9	0	0	0	0	0	13	0
Mahbubnagar	0830	505	1015·0	958·3	..	22·6	18·7	16·3	18·8	68	..	3·7	..	10·3	0	2	27	0	4	22	3	0	0	0	0	1	0
	1730	,,	1010·7	954·8	..	25·8	18·7	14·1	16·4	49	..	3·6	..	5·6	0	0	30	0	5	24	1	0	0	0	0	0	0
Rayalaseema																											
Kurnool	0830	281	1015·6	983·5	+1·7	23·3	19·6	17·4	19·7	69	—2	3·4	+0·4	3·7	0	0	27	0	2	20	5	0	0	0	0	3	0
	1730	,,	1011·1	979·8	..	28·4	20·6	15·6	17·9	47	..	3·6	..	6·0	0	0	29	0	2	23	4	0	0	0	0	1	0
Anantapur	0530	350	1012·7	972·8	..	20·2	18·7	17·7	20·2	86	..	3·3	..	4·7	0	0	16	0	2	14	0	0	0	0	0	14	0
	0830	,,	1014·7	975·1	+1·3	22·8	20·1	18·4	21·3	76	+5	4·4	+0·9	6·7	0	0	24	0	5	16	3	0	0	0	0	6	0
	1130	,,	1013·3	974·2	..	26·4	20·5	16·8	19·3	56	..	4·9	..	13·0	0	4	25	0	6	22	1	0	0	0	0	1	0
	1730	,,	1010·1	971·2	..	27·2	20·4	16·0	18·4	52	..	4·7	..	15·1	0	9	21	0	1	27	2	0	0	0	0	0	0
	2330	,,	1013·3	973·6	..	22·7	19·5	17·4	20·0	73	..	2·4	..	11·5	0	4	26	1	0	26	3	0	0	0	0	0	0
Cuddapah	0830	130	1015·3	1000·3	+1·6	23·4	21·7	20·7	24·6	85	+9	4·1	+0·3	0·2	0	0	1	0	0	1	0	0	0	0	0	29	0
	1730	,,	1011·4	996·7	..	26·5	22·5	20·3	24·0	70	..	4·1	..	4·1	0	0	23	0	2	21	0	0	0	0	0	7	0
Arogyavaram	0830	701	1014·8	936·5	..	20·2	18·6	17·8	20·2	86	..	5·3	..	4·1	0	0	27	9	5	5	3	2	2	0	1	3	0
	1730	,,	1010·8	933·5	..	22·9	19·2	17·2	19·6	71	..	5·7	..	7·8	0	1	29	5	18	7	0	0	0	0	0	0	0
Madras State																											
Madras	0830	6	1011·1	1013·3	..	25·9	23·4	22·1	26·6	80	..	4·5	..	7·9	0	0	29	12	15	0	0	0	0	0	2	1	0
Madras (Minambakkam)	0230	16	1011·6	1009·9	..	23·2	22·3	21·8	26·3	92	..	3·0	..	4·5	0	1	20	6	1	0	0	0	0	7	6	9	1
	0530	,,	1012·0	1010·2	..	22·7	21·9	21·5	25·6	93	..	4·5	..	5·4	0	0	23	4	1	1	0	0	1	4	12	7	0
	0830	,,	1014·1	1012·3	+1·1	25·3	23·1	22·0	26·4	82	—1	4·9	+0·1	10·3	0	2	27	18	2	1	0	0	0	1	7	1	0
	1130	,,	1013·3	1011·5	..	28·0	23·2	20·7	24·6	65	..	5·7	..	18·0	0	12	18	14	11	4	0	0	0	0	1	0	0
	1730	,,	1011·3	1009·5	..	26·5	22·8	20·8	24·7	72	..	5·3	..	14·3	0	4	26	17	12	1	0	0	0	0	0	0	0
	2330	,,	1013·2	1011·4	..	24·0	22·5	21·7	25·9	87	..	3·6	..	6·4	0	0	27	18	4	0	0	0	0	0	5	3	0
Vellore	0530	214	1012·4	987·2	..	20·6	20·2	20·0	23·4	97	..	5·2	..	0·7	0	0	3	0	2	1	0	0	0	0	0	27	0
	0830	,,	1014·4	990·0	+1·6	23·5	21·6	20·6	24·1	84	0	5·2	+1·1	1·1	0	0	10	3	4	0	0	0	0	2	1	20	0
	1130	,,	1013·3	989·1	..	27·2	22·7	20·4	23·8	67	..	6·7	..	7·3	0	0	29	5	19	5	0	0	0	0	0	1	0
	1730	,,	1010·4	986·3	..	26·0	22·1	20·0	23·5	70	..	6·3	..	6·4	0	0	30	0	24	5	0	1	0	0	0	0	0
	2330	,,	1013·5	989·0	..	22·8	21·4	20·7	24·4	88	..	5·0	..	2·3	0	0	13	1	12	0	0	0	0	0	0	17	0
Tambaram (Aerodrome)	0830	29	1013·8	1010·5	..	26·1	23·9	22·8	27·9	82	..	4·4	..	12·2	0	2	28	18	8	1	0	0	0	0	3	0	0
	1730	,,	1010·8	1007·5	..	26·6	23·0	21·1	25·2	73	..	4·6	..	15·6	0	6	24	4	21	3	2	0	0	0	0	0	0
Tiruppattur	0830	390	1014·1	969·9	..	21·6	20·2	19·4	22·5	87	..	4·1	..	3.6	0	0	25	15	4	3	1	2	0	0	0	5	0
	1730	,,	1009·8	966·4	..	25·8	21·4	18·9	21·8	67	..	6·2	..	7·3	0	0	30	11	5	3	4	7	0	0	0	0	0
Cuddalore	0530	12	1011·1	1009·7	..	23.0	22·1	21·6	25·9	92	..	5·3	..	5·5	0	2	24	9	7	0	0	0	0	0	19	4	0
	0830	,,	1013·7	1012·3	+1·1	24.9	23·1	22·1	26·7	85	+1	6·2	+1·3	6·3	0	1	26	6	11	1	0	0	0	0	9	3	0
	1130	,,	1012·9	1011·5	..	28.0	24·0	22·1	26·6	71	..	6·2	..	14·9	0	0	24	7	22	0	0	0	0	0	1	0	0
	1730	,,	1010·6	1009·3	..	26.7	23·4	21·6	25·9	74	—	5·4	..	11·2	0	0	30	3	25	2	0	0	0	0	0	0	0
	2330	,,	1012·5	1011·1	..	24.9	22·9	21·9	26·3	84	..	4·7	..	7·1	0	0	28	8	18	1	0	0	0	0	1	2	0
Kallakkurichchi	0830	127	1013·9	999·4	..	25.0	22·3	20·8	24·7	78	..	3·5	..	9·4	0	1	29	27	0	0	0	0	0	0	3	0	0
	1730	,,	1010·2	995·8	..	26.7	22·7	20·5	24·3	70	..	5·0	..	8·2	0	0	30	11	16	2	0	0	0	0	1	0	0
Salem	0530	278	1011·7	980·0	..	21.6	19·7	18·6	21·4	83	..	5·3	..	2.0	0	0	18	0	7	11	0	0	0	0	0	12	0
	0830	,,	1013·6	982·1	+0·9	24·4	20·9	18·8	21·8	71	—7	5·9	+1·7	3·9	0	0	25	2	16	3	1	0	0	1	2	5	0
	1130	,,	1012·2	981·3	..	28·7	2.0	18·1	21·0	54	..	6·2	..	7·3	0	0	27	0	9	15	0	1	0	2	0	3	0
	1730	,,	1009·3	978·3	..	27·6	21·7	18·3	21·1	58	..	5·9	..	7·5	0	2	28	0	6	23	1	0	0	0	0	0	0
	2330	,,	1012·4	980·9	..	24·0	20·7	18·8	21·8	73	..	4·5	..	10·0	0	1	29	0	3	26	0	0	0	1	0	0	0
Coimbatore (Pilamedu)	0530	399	1011·8	966·6	..	20·7	20·0	19·6	22·8	93	..	5·1	..	4·9	0	0	22	6	8	6	0	0	0	0	2	8	0
	0830	,,	1013·8	968·9	..	23·2	21·1	19·9	23·2	82	..	5·1	..	13·9	0	6	24	4	18	8	0	0	0	0	0	0	0
	1130	,,	1012·2	967·8	..	26·2	22·1	19·8	23·1	68	..	5·6	..	19·7	0	12	18	1	18	11	0	0	0	0	0	0	0
	1730	,,	1009·1	964·9	..	26·7	22·1	19·4	22·8	66	..	5·2	..	12·0	0	1	29	1	13	16	0	0	0	0		0	0
	2330	,,	1012·4	967·5	..	22.7	21.1	20.1	23.7	85	..	4.7	..	7.4	0	1	27	2	8	17	1	0	0	0	0	2	0
Coimbatore	0830	409	1013·6	967·6	+0·8	23·3	20·3	18·6	21·4	75	—7	6·5	+2·2	20·9	0	20	10	0	15	15	0	0	0	0	0	0	0
	1730	,,	1009·0	963·8	..	27·0	21·7	18·5	21·6	61	..	6·0	..	13·7	0	2	28	0	12	15	3	0		0	0	0	0
Nagapattinam	0830	9	1013.3	1012·2	+1.2	25·7	23·1	22·5	27·3	83	+1	5·7	+0·3	8·5	0	2	28	5	6	1	0	0	0	0	18	0	0
	1730	,,	1010·1	1009·0	..	27·4	24·1	22·5	27·3	75	..	5·9	..	25·1	0	27	3	6	22	2	0	0	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madras State—*contd.*																											
Tiruchchirapalli	0230	88	1011·2	1001·2	..	23·3	21·9	21·0	25·2	87	..	3·1	..	9·7	0	1	25	4	17	5	0	0	0	0	0	4	0
	0530	,,	1011·6	1001·5	..	22·9	21·5	20·7	24·6	87	..	3·2	..	9·0	0	0	26	4	19	2	0	0	0	0	1	4	0
	0830	,,	1013·7	1003·7	+1·0	25.0	22·3	20·3	24·7	73	−3	4·3	−0·2	15·3	0	9	21	10	17	1	0	0	0	0	1	0	1
	1130	,,	1012·7	1002·8	..	27·8	23·0	20·5	24·1	65	..	4·9	..	15·1	0	8	21	4	21	1	0	0	0	0	0	1	0
	1730	,,	1010.2	1000.2	..	26·6	23·1	21·3	25·3	73	..	5·7	..	13·2	0	2	28	0	22	8	0	0	0	0	0	0	0
	2330	,,	1012·7	1002.7	..	23·8	22·3	21·5	25·6	87	..	3·0	..	11·1	0	2	26	1	25	2	0	0	0	0	0	2	0
Vedaraniyam	0830	4	1012·7	1012·2	..	26·1	23·8	22·5	27·1	80	..	5·5	..	8·8	0	1	27	14	5	2	1	0	0	0	6	2	0
	1730	,,	1009·5	1009·0	..	26·9	23·8	22·3	26·9	76	..	5·1	..	13·0	0	2	28	13	15	1	0	1	0	0	0	0	0
Atirampattinam	0830	6	1012·9	1012·2	..	25·4	23·4	22·4	27·1	83	..	5.6	..	11·3	0	2	28	16	10	0	0	1	0	0	1	0	0
	1730	,,	1010·0	1009·3	..	26 9	24·1	22·8	27·7	79	..	5·8	..	11·2	0	2	28	0	28	2	0	0	0	0	0	0	0
Madurai	0830	133	1013·0	997·9	+0·6	25·9	22·6	20·9	24·7	74	−6	5·8	+0·7	6.6	0	0	29	10	17	1	0	0	0	0	1	1	0
	1730	,,	1009·1	994·1	..	27·5	23·3	21·3	25·2	70	..	5·9	..	6.1	0	0	30	1	26	0	1	0	1	0	1	0	0
Madurai Aerodrome	0530	131	1011·2	996·1	..	22·8	21·3	20·5	24·1	88	..	5·8	..	8·3	0	2	22	1	21	2	0	0	0	0	0	6	0
	0830	,,	1013·1	998·2	..	25·3	22·2	20·6	24·1	76	..	5·6	..	13.5	0	7	22	0	28	1	0	0	0	0	0	1	0
	1130	,,	1011·9	997 2	..	28·1	23·1	20·4	24·1	64	..	5.9	..	22·1	0	16	14	0	29	1	0	0	0	0	0	0	0
	1730	,,	1009·4	994 6	..	27·0	22·9	20·7	24·6	69	..	6·2	..	18·3	0	13	15	1	23	5	0	0	0	0	0	1	0
Tondi	0830	5	1013·0	1012·4	..	21·9	22·9	21·8	26·3	83	..	6·0	..	4 9	0	0	14	4	1	1	0	0	0	0	8	16	0
	1730	,,	1009·7	1009·1	..	27·6	24·3	22·8	27 6	75	..	5·6	..	17·9	0	8	22	2	16	11	0	0	0	0	1	0	0
Kadalur	0830	11	1012·1	1011·1	+0·6	26·1	24.2	23 3	28·6	81	+1	5·7	+1·7	8·5	0	0	28	13	8	1	1	0	0	0	2	2	0
	1730	,,	1009·5	1008·2	..	26·8	24·6	23·5	29·1	80	..	5·4	..	9·5	0	0	30	17	12	0	1	0	0	0	0	0	0
Tuticorin	0830	4	1013·1	1012·7	+0.6	25·2	23·3	22·2	26·9	84	+3	6·6	+1·7	15·9	0	8	22	14	15	0	0	0	0	0	1	0	0
	1730	,,	1009·5	1009·1	..	27·9	24·9	23·6	28·9	77	..	6·0	..	24·2	0	24	6	2	20	6	2	0	0	0	0	0	0
Palayankottai	0830	51	1013·1	1007·3	+0.7	25·0	22·7	21·5	25·6	82	+4	7·2	+2·0	3·2	0	0	25	24	0	0	0	0	0	0	1	5	0
	1730	,,	1009·4	1003·7	..	27·1	23 7	22·1	26·4	75	..	7·3	..	2·5	0	0	23	10	2	8	1	0	0	2	0	7	0
Kanniyakumari	0830	37	1011·6	1007·5	..	25·9	22·9	21·4	25·5	77	..	5·8	..	25·1	0	25	5	11	19	0	0	0	0	0	0	0	0
	1730	,,	1008·8	1004·7	..	27·7	24·0	22·1	26·9	72	..	5·7	..	17·8	0	17	13	6	21	2	1	0	0	0	0	0	0
Coastal Mysore																											
Karwar	0830	4	1012·6	1012·1	0	25·0	21·5	19·2	22·7	74	−3	4·1	+1·1	7·9	0	0	28	0	7	17	4	0	0	0	0	2	0
	1730	,,	1008·9	1008.4	..	30·2	24·7	21·7	26·6	61	..	3·8	..	5·5	0	0	22	0	1	0	4	0		2	14	8	0
Honawar	0830	26	1012·7	1009·7	+0·3	25·8	21·1	18·2	20·9	64	−6	4·9	+0·8	5·7	0	0	29	2	13	12	0	1	0	0		1	0
	1730	,,	1008·8	1005·8	..	31·0	23·9	20·1	23·8	54	..	4·2	..	5·2	0	0	29	3	6	2	0	0	0	13	2	1	0
Mangalore (Bajpe)	0230	102	1009·9	998·3	..	23·2	22·1	21·5	25·6	94	..	2·8	..	2·7	0	0	13	0	0	9	3	1	0	0	0	17	0
	0530	,,	1010·0	998·3	..	22·5	21·4	20·8	24·7	90	..	2·5	..	6·0	0	1	21	0	0	15	7	0	0	0	0	8	0
	0830	,,	1012·2	1000.7	..	25·7	22·1	20·1	25·7	72	..	4.1	..	10·1	0	1	29	0	3	15	12	0	0	0		0	0
	1130	,,	1011.4	1000·0	..	30·1	23.1	19·3	22·5	53	..	4·0	..	11·7	0	1	29	0	1	13	13	2	1	0	0	0	0
	1730	,,	1008·4	997·1	..	28·8	23·8	21·3	25·3	65	..	4·6	..	11·7	0	0	30	0	0	1	0	0	0	7	22	0	0
	2330	,,	1011·1	999·5	..	24·5	22·7	21·8	26·1	85	..	3·3	..	5·3	0	0	24	1	3	9	4	0	0	0	7	6	0
Mangalore	0830	22	1012·1	1009·6	−0·1	26·9	22·5	20·2	23·7	67	−8	3·6	+0·2	0·4	0	0	30	0	4	21	2	0	0	0	0	0	0
	1730	,,	1008·5	1006·1	..	29·8	24·4	21·7	26·1	62	..	1·4	..	4·3	0	0	30	6	0	0	0	0	1	8	15	0	0
Interior Mysore (North)																											
Bidar	0830	664	1015·3	941·2	..	21·0	16·8	14·0	16·1	66	+6	3.2	+0 7	13·8	0	4	26	0	10	13	5	1	1	0	0	0	0
	1730	,,	1011.0	938·0	..	24·6	17·0	11·5	13·8	45	..	2·3	..	13·7	0	5	25	0	21	7	1	0	0	0	1	0	0
Gulbarga	0830	458	1015·4	963·7	+1·0	22·7	18.0	15·0	17·1	63	+2	3 5	+1·4	7·5	0	0	30	0	3	22	5	0	0	0	0	0	0
	1730	,,	1010·5	959.9	..	27·4	18·3	12·1	14·4	40	..	3·8	..	11·4	0	0	26	0	9	19	0	0	0	0	0	2	0
Bijapur	0830	594	1015·2	943·4	+0·9	20·7	17·2	14·9	17·1	70	+8	4·0	+1·3	3·5	0	0	25	1	4	6	12	2	0	0	0	5	0
	1730	,,	1009·4	944·6	..	27·6	18·3	12·1	14·3	39	..	3·8	..	2·5	0	0	24	3	3	10	2	1	0	0	0	6	0
Raichur	0830	400	1014·7	969·3	+0.5	23·0	18·9	16·6	18·5	68	+3	4 0	+1·6	6·1	0	1	26	2	9	0	10	0	0	4	2	3	0
	1730	,,	1010·1	966·3	..	27·7	19·4	13·5	15·7	43	..	4·2	..	5·9	0	0	30	1	27	0	1	0	0	0	1	0	0
Belgaum	0830	753	1013·9	930·4	+0·4	20·1	17·4	15·7	17.8	76	+10	3·1	+0·3	5·4	0	0	30	0	1	27	2	0	0	0	0	0	0
	1730	,,	1008·6	927·4	..	27·1	18·8	13·4	15·7	44	..	3·7	..	6·3	0	0	30	0	3	25	3	1	0	0	0	0	0
Belgaum (Samra)	0530	747	1013·0	929 3	..	18·0	15·7	14·0	16·1	78	..	2·1	..	5·0	0	0	18	0	4	11	3	0	0	0	0	12	0
	0830	,,	1014·3	931·4	..	21·1	17·7	15.5	17·8	71	..	3·4	..	11·9	0	3	26	0	0	22	7	0	0	0	0	1	0
	1130	,,	1012·8	931·1	..	25·1	18·3	13·7	16·1	51	..	3·8	..	14·8	0	8	21	0	0	22	7	0	0	0	0	1	0
	1730	,,	1009·0	927.9	..	26·5	18·0	12·0	14·5	42	..	3·6	..	8·6	0	1	24	0	6	15	3	1	0	0	0	5	0
Gadag	0530	650	1013·2	940·4	..	18·4	17·7	17·3	19·7	93	..	1·8	..	4·1	0	0	21	0	3	18	0	0	0	0	0	9	0
	0830	,,	1014·5	941·9	+0·9	21·2	19.6	18·6	21·7	85	+20	3·3	+0.5	6·3	0	0	30	0	6	24	0	0	0	0	0	0	0
	1130	,,	1012·8	941·6	..	26·5	21·8	19·4	22·7	66	..	4·2	..	10·5	0	1	29	1	7	20	2	0	0	0	0	0	0
	1730	,,	1009·4	938·4	..	26·9	21·8	19·2	22·4	63	..	3·7	..	4·8	0	0	29	0	9	20	0	0	0	0	0	1	0
	2330	,,	1013·4	940.8	..	20·9	18·6	17·3	19·7	80	..	2·0	..	7·6	0	0	27	0	3	24	0	0	0	0	0	3	0

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—																											
Bellary	0830	449	1014·8	964·1	+1·0	22·4	19·9	18·5	21·3	78	+10	3·7	+0·2	7.8	0	0	24	0	0	6	17	0	0	0	1	6	0
	1730	,,	1009·4	960·0	..	28·2	20.8	16·2	18·5	49	..	4·2	..	10.9	0	0	30	0	0	8	21	0	0	0	1	0	0
Chitradurga	0830	733	1014·0	932·5	+1·1	20·5	18·4	17·0	19.6	81	+11	4·3	+0·4	6·5	0	0	30	0	0	27	3	0	0	0	0	0	0
	1730	,,	1009·1	929.2	..	25·2	18.5	14.0	16·2	51	..	3.7	..	4.8	0	0	29	0	0	29	0	0	0	0	0	1	0
Shimoga	0830	571	1013·4	949·5	−1·0	21·8	18·8	17·0	19·5	74	−8	7·2	+3·0	6·8	0	0	26	2	13	11	0	0	0	0	0	4	0
	1730	,,	1007·7	945·3	..	27·1	19·6	15·0	17·4	48	..	6·9	..	5·5	0	0	25	0	14	11	0	0	0	0	0	5	0
Agumbe	0830																										
Balehonnur	0830		..	..	..	18·3	17·0	16·2	18·5	87	+2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hassan.	0830	960	1528·9	908·4	..	19·6	17·7	16·6	18·8	83	+7	5·2	+1·2	3·3	0	0	29	1	4	10	13	0	0	1	0	1	0
	1730	,,	1505·3	904·9	..	24·4	19·3	16·3	18·6	62	..	4·7	..	2·2	0	0	24	2	7	9	6	0	0	0	0	6	0
Bangalore	0230	921	1505·3	910·5	..	17·8	17·2	16·8	19·1	94	..	5·3	..	9·3	0	0	30	0	2	28	0	0	0	0	0	0	0
	0830	,,	1528·7	912·7	+1·0	19·4	17·6	16·5	18·8	83	+5	5.8	+1·3	9·3	0	0	30	0	5	24	1	0	0	0	0	0	0
	1130	,,	1530·7	912·0	..	23·6	18·7	15.7	18·1	62	..	5·4	..	10·8	0	1	29	2	8	16	4	0	0	0	0	0	0
	1730	,,	1508·1	909·6	..	23·3	18·6	15·8	18·1	64	..	5·8	..	8·7	0	0	29	0	10	16	3	0	0	0	0	1	0
Bangalore Aerodrome	0530	897	1504·6	913·2	..	17·3	16·9	16·6	19·0	95	..	4·4	..	4 5	0	0	17	0	3	13	1	0	0	0	0	13	0
	0830	,,	1529·9	915·2	..	20·1	18·0	16·9	19·0	82	..	6·0	..	11·2	0	0	29	0	5	24	0	0	0	0	0	1	0
	1130	,,	1533·9	914·5	..	24·7	19·5	16·5	18·9	60	..	5·5	..	12·7	0	0	30	0	6	24	0	0	0	0	0	0	0
	1730	,,	1508·9	912·1	..	24·2	19·6	16·9	19·5	65	..	5·3	..	10·9	0	1	29	0	4	25	1	0	0	0	0	0	0
	2330	,,	1519·3	914·3	..	19·1	18·0	17·4	19·7	90	..	4·1	..	8·7	0	0	26	0	1	25	0	0	0	0	0	4	0
Mysore	0830	767	1013·0	928·5	+0·6	22·7	20·3	19·1	22.1	80	+3	4·7	+0·4	6·7	0	0	30	0	5	21	1	0	0	3	0	0	0
	1730	,,	1007·6	925·0	..	27·5	20 8	17·2	19·7	54	..	5·6	..	7·3	0	0	30	0	5	18	0	0	1	5	1	0	0
Kerala																											
Calicut	0530	5	1010·2	1009·6	..	24·0	22.9	22·3	26·9	91	..	3·3	..	7·7	0	1	26	0	6	18	2	0	1	0	0	3	0
	0830	,,	1012·0	1011·4	−0·3	26·1	23·3	21·9	26·3	78	−4	4·2	0	5·5	0	0	26	1	9	14	0	0	1	0	1	4	0
	1130	,,	1011·6	1011·0	..	29·6	24·5	22·1	26·6	65	..	4·5	..	7·4	0	1	28	2	3	2	2	1	8	7	4	1	0
	1730	,,	1008·8	1008·2	..	29·6	24·9	22·7	27·5	67	..	4·5	..	9·5	0	1	29	0	0	0	0	0	3	11	16	0	0
	2330	,,	1011·3	1010·7	..	25·8	24·1	23·3	28·6	86	..	3·2	..	5·5	0	1	27	1	15	10	0	0	1	0	1	2	0
Palghat	0830	97	1012·4	1001·4	..	25·9	22·1	19·9	23·6	70	..	5.1	..	12·8	0	2	28	0	0	28	2	0	0	0	0	0	0
	1730	,,	1008·5	997·7	..	29·8	23·4	20·0	23·7	56	..	5·4	..	7·1	0	0	29	0	3	25	0	0	0	1	0	1	0
Fort Cochin	0830	3	1011·6	1011·3	−0·4	27·2	23·8	22·2	26·7	75	−4	6·4	+2·4	5·7	0	0	30	6	14	8	1	0	0	0	1	0	0
	1730	,,	1008·0	1007·7	..	28·6	24·5	22·6	27·3	71	..	6·6	..	6·7	0	0	30	1	0	0	1	0	5	12	11	0	0
Cochin (Naval Air Station)	0230	3	1010·0	1009·7	..	25·0	23·8	23·2	28·4	89	..	5·4	..	2·4	0	0	14	0	7	5	1	0	1	0	0	16	0
	0530	,,	1009·9	1009·6	..	24·3	23·0	22·3	26·9	89	..	5·7	..	1·6	0	0	11	1	9	1	0	0	0	0	0	19	0
	0830	,,	1011·8	1011·5	..	26·7	23·5	21·8	26·3	75	..	6·0	..	4·2	0	0	23	4	12	6	1	0	0	0	0	7	0
	1130	,,	1011·2	1010·9	..	30·1	24·4	21·6	25·7	60	..	6·0	..	8·2	0	0	26	4	5	7	4	0	1	2	3	4	0
	1730	,,	1008·5	1008·2	..	29·4	24·4	22·1	26·6	65	..	6·4	..	9·8	0	0	28	0	1	2	0	1	2	18	4	2	0
	2330	,,	1011·2	1010·9	..	26·2	24·4	23·6	29·1	86	..	6·0	..	2·4	0	0	15	1	2	6	2	1	0	0	3	15	0
Alleppey	0830	4	1011·5	1011·1	−0·2	27·6	24·8	23·5	28·9	79	−2	4·8	−0·4	5·9	0	0	29	0	6	5	18	0	0	0	0	1	0
	1730	,,	1008 2	1007·8	..	29·3	25.3	23·5	28·9	72	..	5·7	..	14·7	0	0	30	0	1	0	1	0	1	8	19	0	0
Punalur	0830	34	1011·3	1007·5	..	25·8	22·9	21·4	25·6	78	..	5·7	..	1·8	0	0	11	0	3	5	2	1	0	0	0	19	0
	1730	,,	1008·0	1004·2	..	28·9	23·8	21·3	25 3	64	..	6·9	..	3·5	0	0	28	1	3	9	10	4	1	0	0	2	0
Trivandrum	0230	64	1009·2	1001·9	..	24·4	23·1	22·5	27·3	90	..	4·4	..	3.5	0	0	21	4	10	3	1	1	0	1	1	9	0
	0530	,,	1009·5	1002·1	..	23.8	22·7	22·2	26·7	91	..	4.2	..	5·6	0	0	28	7	14	6	1	0	0	0	0	2	0
	0830	,,	1011·3	1004·0	−0·5	26·0	23·6	22·4	27·1	81	−4	4·5	−0·5	4·5	0	0	28	8	15	3	0	0	0	0	2	2	0
	1130	,,	1010.5	1003·3	..	29.5	24.4	21.9	26.3	65	..	5·3	..	5·0	0	0	27	2	8	0	1	2	5	7	2	3	0
	1730	,,	1008·5	1001·3	..	28·0	24·6	23·0	28.1	75	..	5·2	..	4·7	0	0	28	1	1	2	6	4	6	3	5	2	0
	2330	,,	1010·8	1003·5	..	25·2	23·9	23·2	28·4	89	..	4·8	..	3.9	0	0	27	9	7	4	1	0	1	1	4	3	0
Trivandrum Aerodrome.	0830	8	1011·3	1010·4	..	26·8	23·7	22·2	26·9	77	..	5·8	..	3·7	0	0	19	2	15	1	0	0	1	0	0	11	0
Arabian Sea Islands																											
Amini*	0830																										
	1730																										
Minicoy*	0530																										
	0830																										
	1130																										
	1730																										
	2330																										
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1477.9	802·7	+0.8	9·5	4·4	−2·2	5·1	46	−7	2·4	+1·6	2.5	0	0	17	0	8	1	6	1	1	0	0	13	0
	1730	,,	1462·6	801·8	..	10·8	8·3	5·8	9·2	73	..	3·8	..	3·1	0	0	30	0	6	2	13	2	4	1	2	0	0
Dharmsala	0830	1211	1564·4	887·1	+0·4	11·8	8·1	3·9	8·2	59	+10	2·3	+1.0	0·7	0	0	7	1	3	0	0	0	1	1	1	23	0
	1730	,,	1561·6	886·2	..	15·2	11·1	7·3	10.2	59	..	4·2	..	2·0	0	0	27	0	2	0	0	0	23	2	0	3	0

*Data given as addenda in December, 1961 issue.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir —*(contd.)*																												
Simla	0830	2202	1524·2	784·0	0	8·9	6·7	4.3	8·5	74	+10	2·3	+1·0	3 0	0	0	30	3	5	0	11	3	4	1	3	0	0
	1730	,,	1519·2	783·4	..	8·5	7·5	6·6	9·7	89	..	2·9	..	2·9	0	0	29	2	7	0	9	5	5	0	1	1	0
Lokpal	0830	..	..	..	..	−7·5	−9·1	−12·7	2·0	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..	..	Closed during winter months.																						
Josh math	0830	..	..	..	..	8·3	4·2	0·5	5·6	52	..	2·2	..	10·4	0	3	24	0	3	17	5	1	1	0	0	3	0
	1730	..	..	..	..	10·1	5.9	2·5	6·6	55	..	3·1	..	7·6	0	0	30	0	1	1	2	16	8	1	1	0	0
Mussoorie	0830	2042	1521·9	799·0	−0·6	9·7	6·0	1·6	6·9	59	+12	2·2	+1·0	1·9	0	0	18	2	0	0	4	7	3	0	2	12	0
	1730	,,	1507·7	797·7	..	9·1	7·3	5 5	9·1	81	..	4·3	..	2·6	0	0	26	3	0	0	7	10	3	0	3	4	0
Mukteswar (Kumaun)	0830	2311	3146·2	775·3	+0·3	8·2	4·3	−1·3	6·3	55	+11	1·8	+0·5	7·7	0	1	23	0	5	9	2	1	1	3	3	6	0
	1730	,,	3128·3	773·7	..	7·7	5·1	1·9	7·3	68	..	2·2	..	12·2	0	0	25	0	4	4	1	0	2	8	6	5	0
Nainital	0830	1953	1525·6	807·9	+0·4	9·4	5·6	0·8	6·6	56	+3	1·5	+0·8	3 8	0	0	11	0	2	4	3	0	0	1	1	19	0
	1730	,,	1508·6	806·1	..	9 6	6·1	2·6	7 5	67	..	2·6	..	4·7	0	0	22	2	0	2	1	3	1	13	0	8	0
Kalimpong	0830		1454.7	874.9	−8·3	17.7	16·0	14·8	16·8	84	+10	1·9	−0·3	3.0	0	0	30	1	2	0	1	0	0	0	26	0	0
	1730	1209	1456·3	875.1	..	17·4	15 6	14·4	16·4	83	..	2·4	..	3·3	0	0	30	0	1	1	27	0	0	0	1	0	0
Darjeeling	0830	,,	1501·1	789·3	−2·1	10·6	7·0	3·4	7·7	61	0	2·1	−0·8	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
	1730	2128	1481·1	787·2	..	10·0	7.2	4·0	8·1	72	..	1·5	..	0·5	0	0	3	0	0	0	0	0	1	2	0	27	0
Kohima (R)	0830	,,																									
(R)	1730	1466																									
Shillong	0830	,,	1539·7	854·2	+1·1	16·0	13·9	11·8	11·3	79	+11	2·4	+0·3	1·1	0	0	8	1	1	2	0	1	3	0	0	22	0
	1730	1500	1514·4	851·6	.	14·0	13·3	12·7	14·7	93	..	6·3	..	0·1	0	0	1	0	0	0	0	0	1	0	0	29	0
Cherrapunji	0830	,,	1439·6	862·8	−9·1	16·7	15·4	14·4	16·4	87	+26	3·3	+1·0	2·6	0	0	25	0	11	11	0	1	2	0	0	5	0
	1730	1313	1436·3	862·5	..	15·8	14·6	13·7	15·7	87	..	3·1	..	2·1	0	0	20	1	11	3	0	0	3	2	0	10	0
Abu	0830	,,	1531·8	884·9	0	14·0	10·9	7·8	10 8	67	+22	0·3	−0·7	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	1195	1527·5	883·7	..	19·3	13·2	7·5	10·7	47	..	0·4	..	0·5	0	0	5	2	1	0	0	0	2	0	0	25	0
Aijal	0830	,,	..	..	..	18·9	16·0	13·9	15·1	74	..	4·5	..	2·7	0	0	27	2	1	14	2	3	0	4	1	3	0
	1730	..	..	..	..	19 1	16·4	14·6	16·6	76	..	2·6	..	2·9	0	0	29	3	1	5	0	3	3	11	3	1	0
Pachmarhi	0830	..	1546·9	898.7	+1·1	16·7	13.9	11·9	13·8	74	+17	2·1	+0·6	1·6	0	0	21	0	4	2	0	13	2	0	0	9	0
	1730	1075	1530·3	896·2	..	21·3	16·2	12·7	14·7	59	..	2·8	..	1·7	0	0	17	5	5	2	0	0	0	2	3	13	0
Mahabaleshwar	0830	,,	1532·7	865.4	+0·7	17·3	13·5	10·8	13·0	68	+2	1·2	−1·0	11·0	0	0	30	1	1	10	17	1	0	0	0	0	0
	1730	1382	1515·7	863.5	..	20·3	15·7	12·5	14·5	62	..	1·4	..	9·4	0	0	29	7	0	18	2	0	1	1	0	1	0
Mercara	0830	,,	1520.7	887.7	+0·9	17·2	16·1	15·3	17·5	89	+6	3·4	−1·4	14.0	0	2	28	0	15	15	0	0	0	0	0	0	0
	1730	1152	1503.7	885·2	..	21·7	17·9	15·4	17·6	68	..	3·9	..	8·5	0	0	30	0	15	15	0	0	0	0	0	0	0
Coonoor	0830	,,	1523.2	828.5	..	15·9	13·8	12·2	14·3	81	+5	5·5	+0·4	4·1	0	0	27	0	1	3	11	11	1	0	0	3	0
Cotacamund	0830	1747	1521·7	780·7	+0·8	12·7	10·6	8·8	11·4	77	+1	4·0	−0·6	2.1	0	0	16	0	1	14	0	1	0	0	0	14	0
	1730	,,	1499.1	779.2	..	16·7	12·7	11·0	13·4	79	..	5·3	..	2·2	0	0	17	0	4	11	0	0	2	0	0	13	0
Kodaikanal	0830	2249	3160.7	772.4	+0·9	13·3	11·0	8·4	11·5	79	0	5·9	+1·0	12·2	0	8	19	1	6	11	8	1	0	0	0	3	0
	1130	2343	3164.7	772.1	..	15·6	12·8	10·5	12·9	76	..	6·3	..	12·9	0	7	23	0	7	8	13	2	0	0	0	0	0
	1730	,,	3138·9	770·5	..	12·8	11·5	10·2	12·5	87	..	6·9	..	6·5	0	2	22	1	4	8	7	2	0	0	2	6	0
Nepal																											
Katmandu	0830	,,	1532·6	871·8	..	9·6	9·0	8·4	11·0	93	..	3·7	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1130	1324	1525·7	870·4	..	18·5	12·7	7·8	10·5	49	..	1·9	..	0	0	0	0	0	0	0	0	0	0	0	0	30	0
	1730	,,	1505·9	868·6	..	14·6	11·8	9·4	11·8	71	..	2·4	..	0·4	0	0	4	1	0	0	0	0	1	0	2	26	0
Sikkim		,,																									
Lachen	0830		..	..	..	7·1	2·1	−5·7	+3·9	40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydro meteorological Observatories Damodar Catchmen		..																									
Tilaiya	0830	..	..	..	..	20·8	16·5	13·1	15·0	62	..	0·9	..	4·7	0	0	24	2	0	1	1	3	0	11	3	6	3
	1730	..	..	..	..	21·3	15·9	11·5	14·0	55	..	1·1	..	2·3	0	0	22	0	0	0	0	0	0	20	1	8	1
Hazaribagh	0830	615	1016·6	947·0	..	19·1	15·1	12·0	14·3	65	..	0·4	..	3·3	0	0	21	4	1	2	3	1	1	4	5	9	0
	1730	,,	1013·9	944·4	..	18·5	14·9	12·2	13·8	67	..	1·0	..	0·7	0	0	7	3	0	0	0	0	0	2	2	23	0
Konar	0830	..	.	..	..	..	..	..	..	..	..	1·2	..	6·4	0	0	27	1	0	0	0	0	0	23	3	3	0
	1730	..	..	..	..	..	..	..	..	..	..	1·8	..	10·5	0	2	28	4	0	2	0	1	0	18	5	0	0
Bokaro	0830	242	1018·3	989·0	..	18·8	16·0	13·9	16·1	70	..	1·3	..	4·2	0	0	29	0	0	0	0	0	7	11	11	1	0
	1730	,,	1013·5	985·7	..	19·4	16·8	14·9	17·5	76	..	1·8	..	4·7	0	0	28	12	6	0	0	0	0	5	5	2	0
Maithon	0830	..		..	..		..	..	..	..	..	1·0	..	5·8	0	0	29	3	1	0	0	0	8	12	5	1	0
	1730	..		..	..		..	..	..	..	..	1·5	..	6·6	0	0	30	10	15	0	0	0	0	0	5	0	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in kms. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Damodar Catchment *contd.*—																											
Ramgarh	0830	..	..	..	..	17·5	15·7	14·5	16·6	83	..	1·1	..	1·9	0	0	19	2	0	0	0	1	5	3	3	11	0
	1730	..	..	..	..	21·7	18·9	16·7	19·6	72	..	1·7	..	0·2	0	0	2	0	0	0	0	0	1	1	0	23	0
Panchet Hills	0830	..	..	..	..	21·5	17·5	14·9	16·9	66	..	1.5	..	3·8	0	0	26	1	0	0	0	0	9	3	13	4	0
	1730	..	..	..	..	23·2	17·8	14·1	16·4	57	..	2·3	..	1·1	0	0	10	1	0	1	0	0	0	0	8	20	0
Durgapur	0830	..	..	..	..	21·7	18·5	16·4	18·4	72	..	1·6	..	5·4	0	0	30	15	3	0	0	0	0	5	7	0	0
	1730	..	..	..	..	23·6	18·8	15·5	18·0	61	..	1·5	..	4·1	0	0	30	12	6	1	0	0	0	0	11	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	19·0	15·3	12·2	12·4	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hirakud	0830	159	1017·3	999·0	..	21·7	18·5	16·4	15·9	72	..	1·0	..	2.6	0	0	25	10	5	5	4	0	0	0	1	5	0
	1130	,,	1015·9	997.7	..	25·2	19·4	15·5	17·6	56	..	1·3	..	3·0	0	0	29	3	10	0	4	0	1	1	10	1	0
	1730	,,	1013·7	995.6	..	24·2	18·5	14·4	14·7	55	..	0·9	..	1·3	0	0	13	3	4	0	1	0	0	0	5	17	0
Bhimkund	0830	..	..	..	..	18·7	16·8	15·2	15·5	80	..	1·2	..	4·3	0	0	24	11	3	1	0	0	0	0	9	6	0
	1730	..	..	..	..	22·8	17.8	14·2	14.3	59	..	1·0	..	0·6	0	0	6	1	2	2	0	0	0	0	1	24	0
Sonepur	0830	..	..	..	..	20·6	18·8	12·5	17·7	82	..	..	..	3·2	0	0	24	2	2	7	3	2	4	3	1	6	0
Khijrawan	0830	..	..	..	..	20·6	16·8	14·0	16.1	66	..	0.9	..	3·2	0	0	22	2	0	1	13	5	1	0	0	8	0
	1730	..	..	..	..	21·0	17·1	14·2	16·3	66	..	1·0	..	5.0	0	0	29	0	7	0	11	0	11	0	0	1	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	19·7	16·2	13·5	15·6	67	..	1·4	..	3·0	0	0	11	3	7	1	0	0	0	0	0	19	0
	1730	..	..	..	..	24·0	18·9	15·4	17·1	57	..	1·4	..	0·3	0	0	2	0	1	0	0	0	0	0	1	28	0
Punasa	0830	..	..	..	..	21·0	17·0	14·2	16·4	65	..	..	..	7·3	0	0	26	0	24	2	0	0	0	0	0	4	0
	1730	..	..	..	..	26.9	20·0	15·6	17·7	50	..	..	..	(b) 0·3	0	0	3	0	2	0	0	1	0	0	0	26	0
Thikri	0830	..	..	..	..	22.1	18·2	15·3	17·7	67	..	2·9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Dharoi	0830	..	..	..	..	21·6	25·8	11·0	13·3	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	27·8	18·9	12·3	14·6	39	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukdim	0830	..	..	..	..	10.4	6·7	2·6	7·4	60	..	2.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·9	6.7	3·1	7·7	65	..	2.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tehri	0830	..	..	..	..	11·5	10·2	9·1	11·5	85	..	2.4	..	0.2	0	0	2	1	0	0	0	0	1	0	0	28	0
	1130	,,	..	..	..	18·4	12·8	7·9	10·7	51	..	2.7	..	1.3	0	0	10	2	1	1	3	0	1	1	1	20	0
	1730	,,	..	..	..	19·1	13·6	9·2	11·5	53	..	2.8	..	2.9	0	0	18	0	1	3	7	5	1	0	1	12	0
Gandak Catchment																											
Jomosom	0830	..	..	.		4·3	1·8	—1·3	5·5	67	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	7·2	4·5	1·7	6·9	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	15·4	12·6	10·8	12·9	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	17·9	14·4	12·2	14.4	70	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
Timure	0830	..	..	..	..	7·4	4·1	0	6·1	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	11·6	8·6	5.9	9·3	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	15·9	12·8	10.3	12·5	69	..	1.6	..	1.6	0	0	11	3	0	0	2	2	3	0	1	19	0
	1130	,,	..	..	..	20·1	14·7	10.7	12·9	55	..	2.1	..	5.2	0	0	27	0	0	2	14	9	1	1	0	3	0
	1730	,,	..	.	..	17·0	14·4	12.5	14·5	75	..	3.9	..	1.2	0	0	6	1	1	2	1	0	0	0	1	24	0
Gorkha*	0830																										
	1730																										
Nawakot	0830	..	..	..	..	16.5	14.2	12.5	14.5	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	17.6	13.9	11·1	13.2	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans Himalayan Region).																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari (R)	0830																										
(R)	1730																										
Dadeldhura	0830	..	..	..	..	10·4	7.3	4·0	8·2	66	..	1·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·0	7·4	4·4	8.9	71	..	2.1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sallayana	0830	..	..	..	..	13·8	10·4	7·2	10·1	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	,,	..	..	..	13·1	10·8	8.8	11·3	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	,,	..	..	..	21·5	16·7	13.1	15.1	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	.	..	21·5	16·0	15.7	17·8	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(R) Register not received. (b) Mean of 29 days. *Data not reliable.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.*																											
Baghmati Catchment																											
Katmandu**	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..	..	..	..	..	..
	1130	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Kosi Catchment—																											
Chautara	0830	..	..	..	..	12·8	10·2	8·1	10·8	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·0	10·7	7·1	10·1	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	9·8	6·7	4·4	8·4	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·7	8·1	6·4	9·6	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola*	0830	..	..	..	..	6·1	1·7	−4.2	4·3	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730		..	..	.	1·6	1·2	−1·9	5·2	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	11.8	7·9	3·5	7·9	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	15·1	10·2	5·3	8·9	52	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	14·2	10·5	7·5	10·4	64	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·3	10·0	8·1	10·8	75	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Taplejung	0830	..	..	..	..	12·8	8·7	4·7	8·7	59	..	2 0	..	..	..	..	..	0	0	1	1	1	0	1	0	26	0
	1130	..	..	..	..	15·9	10·3	6·3	9·7	54	..	2·9	..	..	..	..	..	6	0	0	1	2	2	9	3	7	0
	1730	..	..	..	..	12·0	8·7	5·6	9·1	66	..	3·6	..	..	..	..	..	0	0	1	1	3	20	1	0	4	0
Okhaldhunga	0830	..	..	..	..	13·0	9·6	6·2	9·7	65	..	1·4	..	1·5	0	0	11	0	1	0	2	3	1	3	1	19	0
	1130	..	..	..	..	16·1	11·3	7·4	10·3	58	..	3·3	..	4·1	0	0	23	2	0	1	2	7	1	9	1	7	0
	1730	..	..	..	..	11·0	9·2	7·7	10·5	80	..	4·2	..	4·8	0	0	16	4	0	0	0	1	1	8	2	14	0
Chainpur	0830	..	..	..	..	16·1	13·0	10·5	12.7	69	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	..	..
	1730	..	..	..	..	17·7	14·8	12·7	14·7	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung †	0830	..	..	..	..	15·2	11·0	7·3	10·2	59	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
††	1730	..	..	..	..	16·9	11·9	7·5	10·4	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1017.9	1000·8	..	17·3	14·6	12·3	14·5	73	..	0·9	..	6·5	0	0	30	0	5	4	10	3	7	1	0	0	0
	1130	„	1015·7	998·9	..	24·0	18·6	14·9	17·0	58	..	1·9	..	3·6	0	0	30	0	1	1	4	1	18	5	0	0	0
	1730	„	1013·8	996·9	..	19·2	17·1	15·7	17·8	80	..	1·3	..	4·0	0	0	29	0	2	17	8	1	1	0	0	1	0
Tista Catchment																											
Gangtok	0830	1812	1537·3	822·9	..	11·4	7·3	2·7	7·6	58	..	1·4	..	0·2	0	0	2	0	2	0	0	0	0	0	0	28	0
	1130	„	1520·9	821·8	..	16·5	11·5	7·2	10·4	56	..	2.4	..	3·0	0	0	30	1	2	0	6	4	15	0	2	0	0
	1730	„	1514·5	820·6	..	10·6	8·6	6·7	9·9	78	..	4·1	..	2·0	0	0	16	0	4	0	9	1	2	0	0	14	0
Gezing	0830	..	..	..	..	14·2	10·2	6·8	9·9	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·7	10·1	7·9	10·7	73	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..

** Data included under 'Nepal'.
* Observations for 28 days.
† Observations for 25 days.
†† Observations for 26 days.

MONTHLY MEANS OF UPPER WINDS

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 41 stations all the observations, were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. Particulars of these stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk(*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations;

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

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

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

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

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

PARTICULARS OF PILOT BALLOON AND RAWIN STATIONS IN INDIA

	Station	Lat. N.	Long. E.	Height of anemometer head a.m.s.l. in metres	Date of opening	Approximate times of flight (I.S.T.)			
1	Agartala	23 53	91 15	17	28th November 1951	0530	1730	2330	
2	Ahmedabad	23 04	72 38	61	19th May 1928	0530*	1130	1730*	2330
3	Amausi	26 45	80 53	133	20th November 1950	0530	1730	2330	
4	Ambala	30 23	76 46	279	1st April 1941	0530	1730	2330	
5	Anantapur	14 41	77 37	365	12th February 1946	0530	1730	2330	
6	Asansol	23 41	86 59	135	29th May 1942	0530	1730	2330	
7	Baghdogra	26 38	88 19	140	7th June 1953	0530	1730	2330	
8	Bahraich	27 34	81 36	134	1st Oct. 1957	0530	1730		
9	Bairagarh	23 17	77 21	532	26th February 1943	0530	1730	2330	
10	Bajpe	12 55	74 53	104	25th May 1959	0530	1730	2330	
11	Bamrauli	25 27	81 44	103	28th February 1930	0530*	1130	1730*	2330
12	Bangalore	12 58	77 35	936	19th May 1915	0530	1730	2330	
13	Bareilly	28 22	79 24	181	12th January 1943	0530	1730		
14	Begumpet	17 27	78 28	543	1st September 1929	0530	1730	2330	
15	Bhagalpur	25 14	86 57	61	19th May 1950	0530	1730		
16	Bhubaneshwar	20 15	85 50	54	5th December 1942	0530	1730	2330	
17	Bhuj	23 15	69 48	90	14th September 1937	0530	1730	2330	
18	Bikaner	28 00	73 18	229	18th October 1946	0530	1730	2330	
19	Chikalthana	19 51	75 24	583	7th October 1951	0530	1730	2330	
20	Cochin†	09 56	76 14	13	16th March 1942	0530	1730	2330	
21	Darjeeling	27 03	88 16	2115	21st May 1956	0830	1730		
22	Dehra Dun	30 19	78 03	692	1st October 1958	0530	1730		
23	Dum Dum	22 39	88 27	13	14th May 1921	0530*	1130	1730*	2330
24	Gadag	15 25	75 38	650	3rd May 1943	0530	1730	2330	
25	Gannavaram	16 32	80 48	32	8th April 1942	0530	1730	2330	
26	Gauhati	26 05	91 43	55	12th March 1955	0530*	1130	1730*	2330
27	Gaya	24 45	84 57	119	19th March 1937	0530	1730	2330	
28	Gopalpur	19 16	84 53	24	15th February 1946	0530	1730	2330	
29	Gorakhpur	26 45	83 22	83	5th January 1943	0530	1730		
30	Gwalior	26 14	78 15	208	7th May 1938	0530	1730	2330	
31	Imphal	24 51	93 58	805	8th March 1952	0530	1730	2330	
32	Jabalpur	23 10	79 57	402	30th July 1928	0530	1730	2330	
33	Jagdalpur	19 05	82 02	562	25th March 1948	0530	1730	2330	
34	Jaipur	26 49	75 48	403	6th June 1953	0530	1730	2330	
35	Jamshedpur	22 49	96 11	144	23rd July 1942	0530	1730		
36	Jharsuguda	21 55	84 05	240	1st May 1944	0530	1730	2330	
37	Jodhpur	26 18	73 01	229	15th October 1934	0530*	1130	1730*	2330
38	Madras	13 00	80 11	29	8th April 1926	0530*	1130	1730*	2330
39	Minicoy	08 18	73 00	15	14th April 1941	0530	1730	2330	
40	Mohanbari	27 29	95 01	112	1st June 1948	0530	1730	2330	
41	Nagpur	21 06	79 03	316	23rd April 1943	0530*	1130	1730*	2330
42	New Delhi	28 35	77 12	227	20th October 1936	0530*	1130	1730*	2330
43	Poona	18 32	73 51	593	5th January 1925	0530	1730	2330	
44	Port Blair	11 40	92 43	93	29th October 1945	0530*	1130	1730*	2330
45	Raipur	21 14	81 39	308	15th July 1944	0530	1730	2330	
46	Raxaul	26 59	84 51	83	28th October 1957	0530	1730		
47	Santa Cruz	19 07	72 51	27	14th May 1933	0530*	1130	1730*	2330
48	Tiruchirapalli	10 46	78 43	96	22nd June 1936	0530	1730	2330	
49	Trivandrum	08 29	76 57	73	8th December 1928	0530*	1130	1730*	2330
50	Udaipur	24 35	73 42	587	24th June 1947	0530	1730	2330	
51	Vengurla	15 52	73 38	8	22nd November 1941	0530	1730	2330	
52	Veraval	20 54	70 22	17	13th October 1941	0530	1730	2330	
53	Visakhapatnam	17 43	83 14	10	24th September 1928	0530*	1130	1730*	2330

*Radiowind ascents.

†Naval Meteorological Office.

5—564 D.D.G. Obs. Poona/65

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht, in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.7	0.2	045	30	0.9	0.8	330	30	1.0	0.2	101	30	2.2	2.1	059	30	3.9	3.5	083	30	1.7	1.1	045
0 15 a.g. .	30	3.3	2.1	032	30	2.7	1.7	313	30	3.6	1.5	332	30	7.1	6.3	074	30	3.4	3.1	082	30	4.3	2.2	044
0.3 a.m.s.l. .	30	3.4	2.3	031	30	2.8	1.8	310	30	3.3	1.8	335	30	6.9	5.7	077	30	3.3	3.0	083	30	3.7	1.9	053
0.6 „ .	30	3.0	1.9	030	30	2.5	1.4	305	30	2.9	1.6	336	30	5.4	4.0	087	30	3.5	2.7	088	30	2.5	1·4	045
0.9 „ .	30	2.8	1.0	040	30	2.5	0.8	296	30	2.7	0.8	312	30	3.7	1.8	100	30	3.1	2.0	092	30	2.8	1.4	049
1.5 „ .	30	3.3	0.5	229	30	2.8	0.8	233	30	3.0	1.2	222	30	3.5	1.9	215	30	3.0	1.3	223	30	3.2	0.4	031
2.1 „ .	30	4.8	2.2	250	30	4.2	2.5	250	29	4.5	2.8	225	30	4.1	3.4	226	29	4.4	3.1	236	30	3.9	2.1	265
3.0 „ .	30	7.8	5.8	255	30	7.9	6.6	262	27	7.9	5.7	248	30	6.1	5.1	274	28	5.1	4.6	256	30	6.0	5.3	280
3.6 „ .	28	9.0	7.8	260	28	10.2	8.8	267	18	9.8	8.4	256	30	7.9	7.2	285	26	6.6	6.2	273	30	7.8	7.4	289
4.5 „ .	26	12.4	11.5	266	28	13.9	12.9	271	5	11.9	11·7	271	30	11·0	9·8	285	25	9.8	9.3	279	30	10.1	9.7	282
5.4 „ .	20	16.0	14.5	268	24	17.5	16.7	273	1	15.0	15.0	265	30	15·3	14·7	280	25	14.3	13.6	280	30	14.0	13.5	282
6.0 „ .	12	18.1	17.4	267	21	20.8	20·2	273					30	17·7	17.1	280	24	16.6	16.0	281	30	16.5	15.7	276
7.2 „ .	5	18.3	17.8	271	11	24·7	23·7	275					30	23.7	22.8	277	22	22.5	21.7	277	30	23.1	22.2	275
9.0 „ .					4	29·4	28·2	282					24	32.8	31.7	276	13	31.6	30.2	277	25	30.9	29.5	273

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.1	1.7	035	30	1.2	0.5	320	30	2.5	2.3	306	30	1.3	0.4	311	30	0.4	0.2	102	30	0.9	0.4	338
0.15 a.g. .	30	5.2	3.8	045	29	3.7	2.2	321	30	3.6	2.9	318	30	3.9	2.3	328	30	4.2	1.3	011	30	3.7	1.5	320
0.3 a.m.s.l. .	30	4.6	3.5	043	29	3.6	2.2	324	30	3.5	3.0	313	30	3.9	2.6	330	30	1.9	0.6	065	30	1.8	0.7	337
0.6 „ .	30	4.0	2.9	053	30	3.4	2.4	313	30	3.9	3.5	305	30	3.5	2.8	318	30	5.3	2.1	331	30	4.1	1.8	321
0.9 „ .	30	3.3	2.1	065	30	4.1	3.5	312	30	3.9	3.4	304	30	4.0	3.4	300	30	4.8	2.1	327	30	4.2	1.7	301
1.5 „ .	30	3.3	0·9	172	30	5.9	5.2	308	30	4.9	4.5	300	30	5.3	4.8	298	30	3.9	1.4	313	30	4.3	1.6	293
2.1 „ .	30	4.3	2.4	210	30	6.4	5.4	302	30	6.5	5.9	294	30	6.1	4.9	296	30	4.3	0.9	354	30	4.4	1.1	299
3.0 „ .	30	4.5	3.7	267	24	6.3	5.6	292	30	6.7	6.1	287	28	6.2	5.4	286	30	4.7	1.7	313	30	5.4	1.2	343
3.6 „ .	6	5.	4.9	277	21	7.1	6.4	291	30	7.8	7.0	290	20	7.7	7.1	285	29	5.9	2.9	283	29	5.4	1.6	299
4.5 „ .					11	10.3	9.6	275	29	11.8	11.1	285	3	8.3	5.8	086	29	7.4	4.7	274	26	7·0	5·5	291
5.4 „ .					8	12.9	12.1	275	27	14.9	14.4	283					24	9.4	8.8	271	24	9.4	8.5	292
6.0 „ .					4	13.7	13.0	270	23	18.6	17.8	281					17	11.2	10.5	272	22	11.2	10.4	290
7.2 „ .					1	17.5	17.5	245	21	24.9	23.4	279					5	14.2	14.0	273	11	13.3	12.1	292
									8	29.9	28.6	260					2	22.3	22.0	283	4	24.3	22.4	280

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	AMBALA				ANANTAPUR												ASANSOL							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.1	0.4	350	30	1.8	1.7	085	30	4.3	4.2	091	30	3.4	3.3	093	30	0.5	0.5	274	30	0.3	0.3	298
0.15 a.g.	30	5.8	3.2	338	30	4.6	4.5	088	29	6.6	6.4	083	30	6.9	6.8	097	30	4.7	4.4	326	30	3.7	3.2	332
0.3 a.m.s.l.	30	2.4	1.2	349													30	4.8	4.5	347	30	3.9	3.4	332
0.6 ,,	30	5.4	3.0	337	30	5.1	5.0	094	29	6.0	5.9	086	30	7.3	7.2	096	30	5.0	4.9	353	30	4.3	4.0	334
0.9 ,,	30	4.8	2.7	332	29	7.3	7.3	089	29	5.6	5.5	083	30	8.1	7.9	091	30	5.2	4.5	343	30	4.3	4.1	329
1.5 ,,	30	3.6	1.2	318	26	7.2	6.9	083	29	5.4	5.2	078	30	6.7	6.4	080	30	5.3	4.5	320	30	4.7	3.7	320
2.1 ,,	30	3.8	1.1	314	23	4.5	3.4	061	28	4.5	3.6	068	29	5.0	4.0	066	29	5.9	4.1	301	29	5.8	3.9	296
3.0 ,,	29	5.4	0.9	264	22	4.1	0.6	055	23	3.4	1.1	073	29	3.7	1.5	073	26	7.7	6.0	271	29	7.0	6.7	280
3.6 ,,	10	6.2	1.1	246	20	3.7	0.5	320	23	3.3	0.5	080	27	3.6	1.2	079	16	8.4	7.3	271	27	10.2	9.3	280
4.5 ,,	2	3.7	3.3	257	20	3.4	0.8	298	22	3.6	0.6	118	23	2.9	0.6	123	13	13.0	11.8	267	18	12.3	11.3	279
5.4 ,,	2	6.0	5.0	256	18	3.2	0.5	303	19	4.3	0.5	085	17	3.8	1.2	086	6	16.1	15.0	280	9	18.0	17.3	276
6.0 ,,	1	5.0	5.0	295	17	4.0	1.6	007	18	4.6	0.8	009	15	4.5	1.3	064	1	17.5	17.5	260	3	17.3	17.0	274
7.2 ,,					16	5.3	0.7	315	18	5.7	1.4	342	5	4.8	2.5	316					1	26.5	26.5	260
9.0 ,,					8	6.5	4.7	278	13	7.6	3.2	262												

Station	ASANSOL				BAGHDOGRA												BAHRAICH							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.3	0.2	283	30	1.4	1.0	008	30	1.3	0.9	215	30	1.6	1.3	010	30	0.4	0.2	292	30	1.1	0.9	274
0.15 a. g.	30	5.9	4.8	350	30	3.0	2.1	056	30	2.6	1.7	236	30	2.1	1·7	057	30	4.0	3.0	315	30	3.6	3.2	286
0.3 a.m.s.l.	30	5.9	4.7	350	30	2.9	2.2	076	30	2.6	1.7	235	30	2.2	1.3	061	30	4.2	3.2	313	30	3.7	3.3	287
0.6 ,,	30	5.1	4.3	344	30	3.1	2.2	081	30	2.5	1.4	241	30	2.5	0.1	204	30	4.2	3.3	310	30	4.2	3.7	290
0.9 ,,	30	4.7	4.1	332	30	3.0	2.6	087	30	2.5	1.0	246	30	2.5	0.3	053	30	4.1	2.9	302	30	4.2	3.7	293
1.5 ,,	30	5.3	4.5	235	30	3.0	2.0	081	30	2.7	0.4	190	29	3.5	0.8	098	30	5.1	2.3	303	30	4.9	2.8	302
2.1 ,,	30	6.4	4.5	251	29	3.9	1.7	110	30	3.8	0.7	210	29	3.7	0.9	104	30	5.1	1.9	299	30	5.3	2.5	306
3.0 ,,	27	7.6	7.0	281	28	4.9	1.2	294	28	4.5	2.6	288	24	3.7	0.8	292	30	4.7	3.9	298	30	5.6	3.9	286
3.6 ,,	14	8.8	7.0	266	25	7.1	5.6	275	25	6.0	4.9	278	9	5.0	4.2	267	30	5.6	4.8	296	30	6.6	5.2	290
4.5 ,,	13	12.0	11.0	269	23	12.1	10.6	276	21	9.6	8.9	276	3	9.5	9.0	272	29	9.5	8.2	281	29	9.5	8.5	291
5.4 ,,	2	12.0	11.9	243	19	18.1	16.0	279	20	13.6	13.1	279					27	12.7	11·7	282	29	13.9	13.0	286
6.0 ,,	2	14.3	14.2	244	15	20.4	19.4	276	18	17.9	17.4	278					21	16·1	15.1	277	29	16.9	15.8	285
7.2 ,,					6	23.7	22.7	283	8	24.5	23.9	270					15	20.9	19.8	281	28	23.7	22.4	282
9.0 ,,					2	15.3	14.6	282									5	17.6	16.9	277	24	35.0	33.1	278

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	BAIRAGARH												BAJPE											
Time in I.S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	1.9	0.7	077	30	2.0	1.2	037	30	1.9	1.5	058	30	2.2	2.1	094	30	2.9	2.7	311	30	1.7	0.9	004
0.15 a.g. . .	30	6.6	5.5	112	29	3.2	1.3	034	29	6.2	4.5	078	30	6.8	6.5	101	30	3.9	3.5	302	30	3.8	2.9	345
0.3 a. m. s. l. .													30	7.7	7.3	099	30	3.8	3.3	306	30	3.8	3.0	344
0.6 „ .	30	5.7	4.7	109	29	2.9	1.2	037	29	5.8	4.3	075	30	7.1	6.8	094	30	2.7	1.7	358	30	3.5	2.3	017
0.9 „ .	30	5.4	3.7	127	29	3.1	1.3	018	29	5.1	3.4	087	30	6.2	5.7	093	29	3.4	2.5	049	30	4.2	3.3	078
1.5 „ .	30	3.4	0.8	237	30	2.7	1.1	339	29	2.9	0.3	141	30	4.8	4.4	097	28	6.0	5.8	078	30	7.5	7.3	094
2.1 „ .	29	4.4	3.9	290	26	3.4	2.9	294	27	4.0	2.4	276	30	4.1	3.1	088	27	5.4	4.9	079	29	7.1	6.8	097
3.0 „ .	25	6.4	5.7	292	25	5.4	5.0	284	19	5.9	4.7	286	28	4.4	2.9	099	25	4.2	2.9	081	25	4.0	2.4	096
3.6 „ .	25	7.4	6.9	285	21	7.9	7.4	288	4	6.9	6.5	275	28	4.5	2.0	097	25	4.1	2.3	083	22	4.1	2.1	090
4.5 „ .	21	9·9	9·2	282	15	11·3	11·1	290					23	4.9	2.3	089	25	4.8	2.4	096	18	3.9	1.0	108
5.4 „ .	14	14·4	13·7	284	11	14·7	14·0	283					21	4.7	2.6	100	25	5.3	3.9	105	7	4.3	1.9	156
6.0 „ .	11	16·0	15·2	278	9	17·2	16·6	287					18	4.6	2.9	093	24	5.1	3.6	093	2	5.5	5.5	068
7.2 „ .	7	22·3	21·9	274	5	23·1	22·7	274					12	5.7	2.6	050	13	5.0	3.9	081				
9.0 „ .	4	34·3	33·7	270	2	29·7	28·8	276					7	6.1	2.8	044	9	5.8	1.3	081				

Station	BAMRAULI																BANGALORE							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.1	0.1	245	30	1.4	0.6	335	27	0.7	0.6	336	30	0.4	0.3	333	30	2.7	2.5	080	30	2.5	2.3	077
0.15 a.g. . .	30	2.7	0.6	342	30	2.1	0.9	335	27	3.4	2.6	320	30	3.9	2.5	003	17	8.6	8.3	078	29	5.8	5.5	081
0.3 a.m.s.l. .	30	2.7	0.6	343	30	2.2	0.9	331	27	3.4	2.6	320	30	3.7	2.5	357								
0.6 „ .	30	2.6	1.0	348	30	2.7	1.4	317	27	3.4	2.6	317	29	3.6	2.5	337								
0.9 „ .	30	3.3	2·2	320	29	3.6	2.1	307	27	3.4	2.6	311	29	4.0	2.9	310								
1.5 „ .	30	5.6	4.8	302	29	6.3	3.9	310	27	4.3	3.5	301	30	5.0	3.9	295	17	7.9	7.1	084	29	5.8	5.7	082
2.1 „ .	30	6.7	6.1	301	30	6.8	5.3	301	27	5.9	5.4	298	29	6.3	5.6	296	17	4.7	3.8	088	27	5.0	4.6	073
3.0 „ .	30	6.8	6.2	291	29	8.4	6.2	300	27	6.9	6.2	290	45	6.9	6.1	290	17	4.1	2.7	087	25	3.8	2.4	076
3.6 „ .	29	7.8	7.1	287	28	8.3	7.5	290	27	8.4	7.9	280	10	7.3	6.8	270	17	4.1	2.5	087	24	4.2	2.5	075
4.5 „ .	29	11.7	10.9	280	26	11·2	10.1	277	27	12.2	11.5	280	1	13.5	13.5	266	16	4.8	1.8	083	23	5.1	3.2	089
5.4 „ .	29	14.7	14.4	278	23	16.1	15.2	278	27	16.2	15.7	279					15	4.6	3.3	082	21	5.3	3.8	095
6.0 „ .	29	18.3	17.3	271	21	17.8	17.0	276	27	18.8	18.0	275					15	5.0	3.9	068	19	5.5	3.8	083
7.2 „ .	29	25.7	24.4	268	15	24.1	23.5	271	26	25.3	24.2	272					16	6.0	2.2	050	17	4.7	1.5	062
9.0 „ .	27	35.0	30.3	267	1	34.1	33.5	270	26	35.2	33.4	266					15	5·8	1.3	108	18	5.3	1.0	359

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	BANGALORE				BAREILLY								BEGUMPET											
Time in I. S. T.	2330				0530				1730				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2.8	2.5	072	30	0.7	0.3	305	30	1.0	0·8	291	30	0.3	0.3	085	30	2.1	1.9	080	30	0.9	0.9	075
0.15 a.g.	22	8.1	8.0	089	30	3.9	2.3	316	30	3.4	2.5	306	29	4.2	3.7	098	30	4.7	4.5	085	30	6.0	5.5	082
0.3 a.m.s.l.					30	3.8	2.1	317	30	3.3	2.4	304												
0.6 ,,					30	4.6	3.2	302	30	3.5	3.0	307	29	3.2	2.9	095	30	4.1	3.9	085	30	4.0	3.7	077
0.9 ,,					30	4.6	3.7	301	30	4.0	3.2	307	28	5.5	5.1	089	30	4.6	4.5	082	30	6.3	6.0	086
1.5 ,,	22	7.7	7.5	082	30	4.8	4.0	302	30	4.4	3.5	303	27	6.1	5.6	069	30	4.8	4.6	070	30	5.9	5.4	079
2.1 ,,	22	5.0	3.7	066	30	5.1	3.1	304	30	4.7	3.7	299	25	5.6	4.2	048	29	3.9	3.5	043	30	5.2	3.6	046
3.0 ,,	19	3.6	2.4	076	30	5.2	3.7	302	30	4.8	3.5	296	26	4.0	1.3	304	29	3.8	1.9	310	26	3.7	1.6	298
3.6 ,,	17	4.1	2.6	088	28	5.9	4.8	296	30	5.7	4.7	291	26	3.7	2.1	275	27	4.0	3.2	280	17	3.4	2.4	263
4.5 ,,	13	4.4	1.7	121	25	8.1	7.1	281	28	8.7	7.7	292	25	4.7	3.7	290	25	5.2	4.4	271	4	4.6	4.2	276
5.4 ,,	9	3.7	2.4	098	20	10.3	9.4	272	26	13.7	12.2	286	24	6.6	5.7	285	25	6.7	5.8	273	2	9.3	9.0	266
6.0 ,,	7	4.1	2.0	066	15	12.2	11.2	268	24	15.4	14.1	284	24	7.9	6.8	285	23	7.6	6.3	280	1	9.0	9.0	280
7.2 ,,	5	6.7	2.2	023	8	8.4	7.8	264	19	18.8	16.8	281	24	10.2	9.1	281	18	11.0	10.2	278				
9.0 ,,	1	9.5	9.5	360	2	10.5	10.3	283	6	28.0	27.2	266	20	13.6	12.6	281	13	11.5	10.1	272				

Station	BHAGALPUR								BHUBANESHWAR												BHUJ			
Time in I.S.T.	0530				1730				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.9	0.7	241	30	1.3	1.3	281	30	2.1	1.7	359	30	2.0	1.7	025	30	1.5	0.6	014	30	0.6	0.4	224
0.15 a.g.	30	3.6	2.5	289	30	3.6	3.2	285	30	4.9	3.7	011	30	3.4	2.8	018	30	4.3	2.7	084	30	5.5	4.5	018
0.3 a.m.s.l.	29	4.0	3.0	312	30	3.8	3.4	290	30	4.7	4.0	041	30	3.8	3.1	020	30	4.3	2.3	055	30	6.3	5.3	027
0.6 ,,	29	3.9	2.9	334	30	3.9	3.5	299	30	5.0	4.3	042	30	3.8	3.5	016	30	4.3	2.9	030	30	7.1	6.1	038
0.9 ,,	29	3.4	2.2	335	30	3.7	3.2	299	30	5.0	4.6	036	30	3.8	3.5	015	30	4.2	3.6	014	30	5.6	4.4	043
1.5 ,,	29	3.0	1.2	326	30	3.6	1.8	287	30	4.0	2.5	022	30	4.3	3.4	009	30	4.6	3.2	014	30	4.5	0.1	096
2.1 ,,	29	4.4	1.5	300	30	4.9	2.1	280	28	3.9	2.2	020	29	4.2	2.6	327	27	3.6	1.7	326	30	5.0	2.5	224
3.0 ,,	27	6.6	5.1	280	30	6.0	4.7	289	28	6.0	4.5	275	27	6.7	5.6	283	24	5.7	4.0	294	30	4.6	2.6	296
3.6 ,,	26	8.5	7.0	277	29	8.3	7.6	283	27	7.4	6.5	271	26	8.5	7.7	275	11	7.9	6.7	279	5	5.0	4.6	302
4.5 ,,	24	11.9	11.0	280	29	11.8	11.3	282	26	10.4	9.5	277	23	11.0	10.1	277	3	9.7	8.6	268	1	7.5	7.5	310
5.4 ,,	22	16.6	15.8	275	29	16.5	15.0	277	21	12.2	11.8	278	21	14.4	13.6	281	1	12.5	12.5	265				
6.0 ,,	15	18.6	16.9	278	26	19.4	18.8	276	17	14.0	13.5	275	21	15.9	15.0	281								
7.2 ,,	5	22.2	20.8	266	16	25.7	25.0	275					10	19.9	19.0	284								
9.0 ,,					2	31.7	28.0	295					1	11.5	11.5	255								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	BHUJ								BIKANER												CHIKALTHANA			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·2	2·5	027	30	0.7	0.3	311	30	0.2	0.1	045	30	0.2	0.1	333	30	0.2	0.2	007	30	0.9	0.6	087
0.15 a.g.	30	5.4	4·2	022	30	5.3	3.7	011	30	5.6	3.2	110	29	2.7	1.4	010	30	5.9	4.6	048	30	6.1	5.4	113
0.3 a.m.s.l.	30	5.5	4·4	023	30	5.7	4.5	019	30	4.4	2.9	115	29	2.4	1.3	005	30	4.7	3.7	045				
0.6 „	30	5.3	4·1	024	30	6.5	5.4	030	30	5.2	2.0	068	29	3.0	1.9	010	30	5.2	4.1	051				
0.9 „	30	5.0	4·0	025	30	6.0	4.5	035	30	4.7	2.1	032	29	3.1	2.1	018	30	3.9	2.2	044	30	7.7	7.4	123
1.5 „	30	4.1	2.0	023	30	4.7	2.0	084	30	4.2	2.5	332	29	3.4	1.9	350	30	3·7	0.9	287	30	4.7	4.3	104
2.1 „	29	3.9	1.0	354	30	4.4	1.6	174	30	4.6	2·4	323	28	4.3	2.7	055	30	4.6	2.4	271	30	2.9	0.9	360
3.0 „	28	4.1	3.0	284	30	3.9	2.6	287	30	5.8	2.5	311	29	5.1	3.7	295	29	5.7	4.3	292	27	4.4	3.5	292
3.6 „	28	5.8	4.6	279	10	6.1	5.1	299	27	7.3	5.2	300	29	8.5	6.4	290	8	6.4	6.0	311	14	5.8	4.5	282
4.5 „	28	9.0	7.6	279	1	10.5	10.5	310	22	10.5	9.0	280	29	9.7	8.9	285					1	8.0	8.0	260
5.4 „	28	12.2	11.7	277					2	19.0	13.5	302	27	13.9	12.5	280								
6.0 „	28	14.1	13.0	276									20	14.2	13.4	280								
7.2 „	7	23.0	22.5	271									4	24.0	24.0	284								
9.0 „	2	24.0	22.3	275																				

Station	CHIKALTHANA								COCHIN												DARJEELING			
Time in I.S.T.	1730				2330				0530				1730				2330				0830			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.4	1.3	094	30	0.8	0.8	094	30	1.1	1.1	049	30	2.5	2.1	272	30	1.1	0.4	061	30	0.1	0.1	225
0.15 a.g.	30	2.6	2.0	099	30	6.5	6.2	089	30	3.5	2·8	070	27	3.4	3.0	288	29	2·7	0.4	128	27	1.4	0.5	134
0.3 a.m.s.l.									30	3·0	2.1	070	27	3.2	2.5	304	29	2.6	0.4	126				
0.6 „									30	2.8	1.7	076	27	2.7	2.2	004	29	3.3	1.7	097				
0.9 „	30	2.8	2.5	097	30	7.3	7.1	095	30	3·3	2·5	083	27	2.9	2.7	035	29	3.8	2·8	101				
1.5 „	30	2.9	2.4	074	30	5.7	5.5	100	30	3·5	2·5	079	27	4.8	4.3	091	28	4.3	3.9	091				
2.1 „	30	2.4	1.8	061	30	3.3	2.1	102	29	4.0	3.3	089	26	4.3	3.9	085	24	4.7	4.1	079				
3.0 „	28	3.5	2·6	313	29	3.7	2.3	280	27	4.9	4.5	088	22	4.7	4.2	076	20	5.4	5.0	090	27	4.0	0.3	237
3.6 „	23	5.3	4.7	285	21	5.4	4.5	287	24	4·7	4.1	086	20	5.2	4.8	075	14	6.3	6.2	080	26	5.7	4.3	274
4.5 „	20	7·3	6·9	273	4	7·1	6·7	284	14	6.4	5.9	091	14	6.5	6·1	081	7	6.0	5.7	077	23	9.2	8.3	273
5.4 „	13	9·1	8·6	274					6	5.5	4.7	081	9	6.5	6.1	088	2	8.5	8.5	099	19	14.7	13.8	271
6.0 „	11	11·1	10·5	272					5	5.9	5.2	066	5	8.0	7.3	088	2	9.7	9.7	107	15	16.2	15.1	272
7.2 „	3	10.3	9.2	239									1	8.0	8.0	090					9	21·3	19.7	265
9.0 „																					2	21.3	21.0	274

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Station	DARJEELING				DEHRA DUN								DUM DUM											
Time in I. S. T.	1730				0530				1730*				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.9	0.9	222	30	0.7	0.6	022	30	1.2	1.0	286	30	0.3	0.2	337	30	1.4	1.2	347	30	0.1	0.1	315
0.15 a. g.	26	2.5	2.0	218	30	1.4	1.0	068	30	2.4	1.7	271	30	5.1	4.4	358	30	2.9	2.8	346	30	4.5	4.0	325
0.3 a. m. s. l.													30	5.4	2.5	359	30	3.0	2.8	346	30	4.4	3.9	328
0.6 ,,													30	4.7	4.2	001	30	3.6	3.2	347	30	4.0	3.8	338
0.9 ,,					30	1.3	0.9	108	30	2.4	2.0	268	30	4.7	3.9	351	30	3.8	3.4	340	30	3.9	3.7	337
1.5 ,,					30	1.4	0.7	154	30	2.0	1.3	280	30	4.4	2.7	332	30	4.2	2.5	319	30	3.6	2.2	325
2.1 ,,					30	2.2	1.2	136	29	2.2	0.1	032	30	4.9	2.5	288	28	5.6	3.6	284	30	5.2	2.9	289
3.0 ,,	26	2.9	1.6	287	28	4.5	0.6	099	28	4.4	0.6	191	30	7.6	5.4	263	21	8.3	6.7	275	30	7.2	5.9	265
3.6 ,,	21	4.4	3.1	291	27	6.0	1.1	256	22	5.6	0.9	139	30	8.7	7.5	268	20	10.3	9.3	278	30	9.2	7.7	270
4.5 ,,	21	9.6	8.6	273	21	6.3	3.4	275	19	6.7	2.9	295	30	12.0	11.1	270	20	13.9	13.0	281	30	11.8	10.5	271
5.4 ,,	18	14.1	13.4	274	17	10.0	9.4	270	17	9.1	7.9	290	30	17.0	15.2	272	20	17.1	16.3	277	30	14·8	13.9	275
6.0 ,,	15	24.9	21.3	275	13	13.4	12.3	276	16	11.8	10.7	284	30	18.8	17.5	273	20	19.1	18.4	276	30	17.8	16.3	275
7.2 ,,	13	29.2	27.8	278	4	17.4	16.3	258	4	19·4	18·8	272	29	22.8	21.4	274	16	24.0	22.9	275	30	23.5	22.3	270
9.0 ,,	3	31.7	31.5	288									24	29·0	27·1	265	5	29.7	27.6	282	25	29.2	27.4	267

Station	DUM DUM				GADAG												GANNAVARAM							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.3	0.3	006	30	3.5	3.2	097	30	3.5	3.4	087	30	3.9	3·8	087	30	2.1	2.0	041	30	2.6	2.3	078
0.15 a. g.	30	4.9	4.1	350	30	8.5	8.3	103	30	5.8	5.6	083	30	10.2	9.9	085	30	6.3	6.2	063	29	3.9	3.5	077
0.3 a. m. s. l.	30	4.7	4.1	349													30	6.7	6.6	077	29	4.2	3.9	073
0.6 ,,	30	4.6	4.0	348													30	6.2	6.1	080	29	4.4	4.2	067
0.9 ,,	30	4.1	3.5	343	30	9.5	9.3	101	30	6.1	6.0	085	30	10.7	10.6	087	30	5.4	5.0	071	29	4.4	4.1	058
1.5 ,,	30	3.8	2.3	321	29	9.7	9.3	083	30	6.7	6.5	081	30	9.2	9.0	091	30	5.2	4.3	060	29	4.4	3.7	048
2.1 ,,	29	4.9	3.2	290	27	5.4	4.0	079	30	5.7	5.2	075	30	6.8	6.4	078	29	4.1	2.5	049	27	4.2	3.0	028
3.0 ,,	24	5.8	5.7	269	26	3.4	1.2	066	28	3.6	1.5	046	27	4.6	2.1	053	28	3.4	1.0	282	25	3.6	1.5	294
3.6 ,,	11	7.6	6.9	261	26	3.4	0.9	310	27	3.1	0.4	352	26	3.1	0.4	070	28	3.6	1.5	260	23	4.0	2.4	259
4.5 ,,	8	8.3	7.2	253	25	3.0	1.5	284	24	3.3	1.0	273	21	3.7	1.1	210	26	4.9	3.6	274	22	5.3	4.0	267
5.4 ,,	2	13.7	12.5	245	25	4.2	1.1	264	23	4.6	2.0	261	17	4.3	1.6	235	24	6.0	5.3	295	22	6.1	5.4	278
6.0 ,,	1	10.5	10.5	230	25	4.9	1.9	301	23	4.1	1.5	278	14	4.6	1.0	287	24	7.3	6.3	293	22	6.9	5.7	286
7.2 ,,					24	6.0	3.3	275	22	6.3	4.1	297	5	6.0	4.7	300	16	9.6	8.3	277	19	8.9	8.3	287
9.0 ,,					21	8.5	5.2	272	22	8.4	6.0	279	1	6.5	6.5	290	7	11.4	9.9	287	12	12·5	11·4	289

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Station	GANNAVARAM				GAUHATI																GAYA			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v		n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.8	1.7	069	30	0.3	0.3	053	30	2.3	1.9	051	30	0.5	0.4	032	30	0.7	0.2	086	30	1.2	1.0	182
0.15 a.g.	30	6.3	5.9	087	30	2.4	2.0	085	30	3.3	2.9	039	30	3.6	3.0	069	28	2.4	1.6	087	30	3.1	2.3	250
0.3 a.m.s.l.	30	6.7	6.4	085	30	2.6	2.2	087	30	3.4	3.0	064	30	3.7	3.0	068	28	2.8	2.2	093	30	2.9	1.9	272
0.6 „	30	6.1	5.9	077	30	3.9	3.0	090	30	4.1	3.4	080	30	3.3	2.5	087	28	3.5	2.8	087	30	3.0	2·1	331
0.9 „	30	5.0	4.7	063	30	4.4	3.4	087	30	4.2	3.4	093	30	2.8	1.5	096	28	3.5	2.0	087	30	3.5	2.9	318
1.5 „	30	5.0	4.1	058	30	4.3	2.2	103	28	3.5	1.5	134	30	2.7	0.8	200	28	3.2	0.5	088	30	5.5	4.6	311
2.1 „	30	3.7	2.3	052	30	4.5	0.7	142	24	4.0	3.2	190	30	3.8	1.9	230	22	3.1	1.3	145	29	6.0	5.1	306
3.0 „	30	3.2	0.4	278	30	6.3	3.7	253	22	6.6	2.8	270	30	5.5	3.8	255	17	4.7	2.3	240	27	7.3	6·2	294
3.6 „	27	3.7	1.3	264	30	8.8	6.4	259	22	9.5	7.1	268	30	8.2	6.9	268	5	9·3	8·8	268	23	8.7	7.6	288
4.5 „	20	4.6	2.3	279	30	13.1	12.0	266	22	14.7	12.7	271	29	13·5	11·5	272	3	14·7	14.5	279	19	12.3	11.6	280
5·4 „	16	6.1	3.3	286	30	16.9	16.0	269	21	19·2	18·5	272	29	18·6	16·8	276	1	15·5	15·5	300	5	12.1	11.7	265
6.0 „	12	7.5	3.7	294	30	19.0	18.4	270	20	21·2	20·8	275	29	20·8	19·5	274	1	14.0	14·0	285				
7.2 „	3	10.8	10.6	268	30	26.9	25.5	269	17	26·8	25·2	278	29	27.3	25.6	274								
9.0 „					24	36.0	34.0	272	5	43·1	41·6	274	20	35.4	33·1	266								

Station	GAYA								GOPALPUR												GORAKHPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.5	1.2	312	30	0.7	0.4	189	30	3.3	3.1	328	30	4.2	3.3	078	30	2.4	2.1	330	30	0.3	0.2	272
0.15 a.g.	30	3.7	3.2	318	30	3.2	1.8	336	29	5·6	5.2	358	30	4.3	3.5	070	30	3.9	2.7	037	30	4.7	3.8	307
0.3 a.m.s.l.	30	3.7	3.3	315	30	3.3	2.4	334	29	5.2	4.8	039	30	4.5	4.1	063	30	3.5	3.0	049	30	4.6	3.8	303
0.6 „	30	3.6	3.2	310	30	3.7	3.2	326	29	5.0	4.4	047	30	4.1	3.7	042	30	3.5	3·0	048	30	4.2	3.3	297
0.9 „	30	3.7	3.2	306	30	4.0	3.7	311	29	5.1	4.8	042	30	4.5	3.8	021	30	4·4	4·0	037	30	4.5	3.2	291
1.5 „	30	5.0	4.5	304	30	5.8	5.2	300	29	4.9	3.5	036	30	5.6	4.0	360	29	4.7	3.3	016	30	4.6	2.3	290
2.1 „	30	6.1	5.4	301	28	6.9	6.2	301	28	4.3	1.7	357	29	4.9	3.1	328	29	4.3	1.8	330	30	4.8	2.8	305
3·0 „	30	7.5	6.8	298	15	5.5	4.4	303	27	5.7	3.9	279	28	5.9	4.7	286	28	5.1	3.5	273	29	5.4	3.8	292
3·6 „	27	8.4	7.9	290	1	4.5	4.5	260	24	6.5	5.2	270	26	6.9	6.1	277	11	6.6	4.9	269	28	6 6	5.9	291
4·5 „	24	11.7	11.1	289					22	7.9	6.6	279	23	9.8	8.5	280	1	15.0	15.0	270	25	10.3	8.8	288
5.4 „	14	17.7	10.0	282					18	8.8	7.7	282	21	12.7	11.8	282					18	14.7	12.3	280
6·0 „	13	20.8	20.1	282					15	10·5	9.9	281	20	13.5	12.6	284					9	15.6	13.1	275
7.2 „									6	13.7	13.3	270	14	17.1	16.4	077					4	13.5	12.5	270
9.0 „									2	13.3	13.3	270	3	10.0	9·9	273					1	16.5	16.5	280

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9.0 Km. above mean sea level

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	GORAKHPUR				GWALIOR												IMPHAL							
Time in I.S.T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.6	0.5	257	30	0.4	0.2	231	30	0.8	0.4	359	30	0.0	0.0	225	30	0.7	0.4	062	30	1.2	0.5	213
0.15 a. g.	30	3.1	2.6	279	30	4.7	1.9	137	30	3.0	1.8	014	30	4.2	2·7	078	26	1.8	1.3	058	29	1.9	0.7	206
0.3 a. m. s. l.	30	3.2	2.7	278	30	3·8	1·6	157	30	2·7	1·6	015	30	3·7	2·3	079								
0.6 „	30	3.7	3.2	282	30	4·6	1·2	121	30	3·1	1·6	008	30	4·1	1·3	072								
0.9 „	30	3.8	3.2	286	30	3.5	0.1	223	30	3·2	1.5	347	30	3.6	0.4	336	26	1.7	1.3	049	29	1.9	0.9	211
1.5 „	30	4.2	2.9	292	30	4.1	2·9	302	30	3.8	2·3	299	30	4 1	3.1	283	26	2.3	1.0	088	29	2.2	1.2	179
2.1 „	30	5.2	3.5	300	30	6.2	5.2	297	30	5.4	4.6	280	30	5.9	5.4	288	22	4.2	2.1	205	28	3.6	2.0	237
3.0 „	30	5.7	4.5	300	30	7.9	6.9	287	28	7.1	6.6	286	26	7.1	6.0	288	11	5.0	4.0	227	24	7.5	6.0	265
3.6 „	30	6.7	5.8	292	29	8.9	7.5	273	27	9.3	8·7	287	19	8.7	8.1	278	8	7.6	6·8	253	23	11.0	9 7	271
4.5 „	29	11·3	10.7	234	27	11.2	10.6	280	26	12.9	11.9	287					3	16.2	15.8	255	21	14.9	14 2	272
5.4 „	28	15·1	11·6	282	27	15.1	14.2	278	25	16.1	15.2	283					2	20.7	20.5	263	19	18.9	16.1	275
6.0 „	27	17·7	17·1	279	26	17.6	15.5	277	25	17.5	16.8	283									15	22.4	21.8	272
7.2 „	21	26·3	25·5	282	23	24.8	23.7	275	23	22.7	21.8	282									4	30.1	29.1	274
9·0 „	13	37·0	17·5	274	9	31·3	30·3	271	10	27.6	27.0	269									1	44·0	44·0	280

Station	IMPHAL				JABALPUR												JAGDALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·1	0.7	040	30	0.4	0.3	142	30	0.7	0.5	027	30	0.7	0.4	090	30	6.5	0.2	050	30	1.0	0.9	035
0 15 a. g..	30	1.8	0.8	015	30	3.9	2.7	119	30	3.1	2.6	007	30	5.4	4.2	063	24	3.6	3.5	060	29	4.0	3.7	033
0.3 a. m. s. l.																								
0.6 „					30	4.1	2.9	118	30	3·2	2.8	009	30	5.3	4.5	060	24	1.7	1.5	057	29	2.8	2.7	033
0 9 „	30	1.9	1.2	017	30	3.4	1.5	098	30	3.1	2.5	005	30	4.3	3.3	060	24	5.2	4.9	063	29	4.2	4.0	031
1·5 „	30	2.6	0.9	116	30	4.1	2.2	343	30	3.4	2.6	349	28	3.2	1.5	349	22	5.4	4.5	043	29	3.7	3.2	026
2.1 „	27	3.5	1.5	211	30	5.9	5.1	325	30	4.4	3.6	325	28	4.5	3.7	309	22	5.0	3.0	002	28	3.7	2.6	023
3.0 „	18	8.1	4.6	255	30	6.8	6.3	306	30	6.5	5.7	296	25	6·8	6.1	297	21	4.5	2.8	306	26	5.1	3.4	294
6 „	11	9.5	8.3	262	29	7.8	6.9	288	27	8.5	7.9	289	19	7.8	7.2	286	21	5.6	4.5	283	25	6.3	5.3	274
4.5 „	2	13.0	12.9	264	27	9.9	9.3	281	26	11.1	10.5	285	2	8·5	8·4	285	19	7.2	6.2	274	25	8·0	7.5	264
5.4 „	1	10·0	10·0	275	25	13.4	12.7	273	27	14·9	14.8	279	1	14·5	14·5	275	15	9·4	8·3	275	22	9·9	9·0	282
6.0 „					15	16.6	15.5	275	25	17·6	16·8	277					10	10·9	9·8	281	19	11·3	9·7	290
7.2 „					6	18·9	18·9	272	19	21·4	20.9	273					1	12·5	12.5	290	2	15·2	14·7	301
9.0 „									1	31·5	31·5	265					1	14·0	14·0	275				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	JAGDALPUR				JAIPUR												JAMSHEDPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.0	0.1	037	30	1.4	1.1	064	30	1.0	0.4	360	30	1.6	1.6	058	30	1.0	0.9	305	30	1.2	1.0	315
0·15 a. g.	29	5.9	5.4	058	30	4.7	3.0	094	30	2.6	1.1	002	30	5.2	3·1	078	30	3.1	2.6	314	29	2.3	1.9	333
0·3 a. m. s. l.																	30	3·1	2·6	325	29	2·3	1·9	342
0·6 „	29	2.9	2.8	059	30	4·7	2.4	104	30	2.7	1.1	355	30	5.1	2.9	084	30	3.9	3.1	016	29	2.4	2.1	343
0·9 „	29	5.7	5·4	053	30	4.1	1.3	156	30	3.0	1.3	344	30	4.2	1.9	085	30	4.2	3.4	003	29	2.8	2.4	342
1·5 „	28	3.7	2·6	034	30	3.4	1.8	265	30	3.1	1.1	312	30	3.4	0·9	292	30	4.5	3.7	342	29	4.2	3.5	320
2·1 „	27	3.8	1.9	014	30	3.9	3.0	291	30	4.2	3.0	294	30	3.7	2.4	274	30	4.9	3.7	313	29	4.8	4.0	308
[illegible] „	24	4.7	3.7	287	23	6.8	5.0	280	30	6.3	5.1	283	30	6.6	5.5	280	27	7.3	6.2	285	28	7.6	7.2	283
3·6 „	7	4.9	3.7	295	16	7.6	6.5	274	28	9.2	7.5	278	28	7.2	6.8	284	25	8.7	7.3	280	27	9.6	9·0	281
4·5 „	2	10·3	9·3	297	10	11.4	10.9	274	27	12.0	11.0	281	14	10.8	10·3	275	21	12·9	12·1	280	25	13.6	12.5	279
5·4 „					3	17·6	16·2	269	25	15.4	13.5	278	6	12.8	12.0	275	13	15.1	14.1	277	24	18.0	17.2	278
6·0 „									23	16.8	5.8	299	3	12.7	12.6	273	2	17.5	17.4	271	18	20.8	19.8	275
7·2 „									19	22.0	10.4	280	1	3.5	3.5	325					2	18.7	18.5	264
9·0 „									5	24.7	23.1	269												

Station	JHARSUGUDA												JODHPUR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1.9	1.7	017	30	0.7	0.3	002	30	0.8	0.5	012	30	2·8	2.4	039	30	2.0	1.5	058	30	2.4	1.1	025
0.15 a. g.	28	5.5	5.3	037	29	2.1	0.9	013	30	2.9	0.6	043	30	5·9	5.0	055	30	3.1	1.9	068	30	5.4	3.7	028
0.3 a. m. s. l.	28	4·8	4·7	036	29	2·0	0·9	010	30	2.7	0.8	043	30	5·4	4.9	053	30	2.8	2·0	055	30	3.6	2.3	028
0.6 „	27	4.6	3.3	046	29	2.1	1·1	010	30	2.7	0.8	015	30	5.0	3.6	052	30	3.3	1.8	081	30	4.2	2.5	011
0.9 „	27	4.2	3·1	033	29	2.4	1.1	360	30	2.9	1.6	012	30	4.1	1.7	036	30	3.7	1.5	075	30	3.8	2.6	006
1.5 „	27	3.8	2.8	013	29	3.7	3.1	005	30	4.0	2.9	028	30	3.8	1.1	294	30	3.6	0.3	047	30	3.3	1.1	358
2.1 „	27	4.9	4.1	339	29	5.1	4.4	354	30	4.1	2.2	018	30	5.4	2.6	272	30	4.3	1.7	250	30	3.3	1.6	294
3.0 „	27	5.8	4.7	299	29	6.9	6.0	293	29	6.3	5·5	295	30	5.3	4·3	276	30	5.1	3.6	271	30	4.5	3.7	269
3.6 „	20	8.5	7.1	290	28	8·2	7.6	288	20	7.6	6·9	293	28	7·0	5·9	275	30	7.6	6.2	280	30	6.6	5.4	280
4.5 „	15	11.3	10.5	286	25	12·1	11.6	281					27	11·0	10·4	270	29	11.2	10.6	279	28	9.2	8.4	275
5.4 „	3	13·7	13.3	263	18	15·3	14·3	280					26	14·7	14·0	267	29	13.8	13.1	278	27	13.7	12.8	274
6.0 „					7	16·4	15·9	276					25	18·1	17·6	270	28	17.1	16.1	280	27	16·2	15·2	275
7.2 „													23	25.1	24.5	270	15	22.3	21.9	272	26	21·7	20·7	275
9.0 „													16	34.6	34.1	267	1	14·5	14·5	280	16	32·0	30·0	268

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

November 1961 (Kartika 10,—Agrahayana 9, 1883 Saka)

Station	JODHPUR				MADRAS																MINICOY			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	2·4	1·8	025	30	1·9	1·6	018	30	4·9	4·5	023	30	4·8	4·4	030	30	2·5	2·3	005	30	1·2	1·0	082
0·15 a.g.	30	7·1	5·0	035	30	7·0	6·5	037	29	6·1	5·8	038	29	7·9	7·8	040	30	6·5	6·2	037	30	3·5	2·9	073
0·3 a. m. s. l.	30	6·1	4·7	027	30	6·7	6·3	046	29	6·4	6·0	042	29	7·4	7·3	043	30	7.2	7·0	046	30	3·7	3·3	077
0·6 ,,	30	6·4	3·9	046	30	6·6	6·1	059	29	6·0	5·7	046	29	6·9	6·7	050	30	7.9	7·7	053	30	4·2	3·7	077
0·9 ,,	30	5·1	3·6	037	29	6·7	6·0	067	28	6·2	5·7	052	29	6·6	6·1	055	30	7·6	7·6	057	30	5·2	4·7	080
1.5 ,,	30	3·7	0·5	130	29	6·6	5·3	067	19	5·9	4·7	060	29	5·9	5·1	063	28	6·8	5·8	058	30	6·6	6·1	082
2·1 ,,	29	4·7	2·3	221	29	5·7	4·5	084	16	4·7	2·3	053	29	4·7	3·2	080	25	4·9	4·1	078	30	6·4	5·2	083
3·0 ,,	27	5·2	3·6	275	30	4·8	3·3	096	13	2·8	1·0	069	29	4·4	3·1	086	23	4·2	2·9	078	24	5·6	5·1	091
3·6 ,,	9	6·6	5·3	285	30	4·8	2·6	087	12	3·4	1·6	091	29	3·5	2·0	090	19	3·7	1·7	081	25	6·3	5·8	091
4·5 ,,	1	15·0	15·0	280	28	4·8	3·1	090	11	4·3	1·8	079	29	4·6	2·1	077	15	4·9	1·6	072	16	6·6	6·3	086
5·4 ,,					28	5·2	2·2	078	8	4·7	1·3	034	29	5·2	2·7	078	11	4·7	1·9	103	14	7·0	6·6	097
6·0 ,,					29	5·1	3·2	072	7	3·6	1·2	055	29	5·1	2·4	076	11	4·9	1·6	067	11	7·3	6·6	088
7·2 ,,					29	5.7	2·7	040	7	4·3	2·2	024	28	5·1	2·6	047	6	5·7	3·8	331	10	7·7	6·7	087
9·0 ,,					27	6·6	2·0	011	3	8·8	5·9	027	26	5·6	1·1	350	1	2·0	2·0	025	6	5·1	4·0	085

Station	MINICOY								MOHANBARI												NAGPUR			
Time in I.S.T.	1730				2330				0530				1730				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	1·4	1·0	057	30	1·7	1·3	081	30	1·2	1·2	048	30	0·2	0·2	062	30	0·5	0·5	045	30	0·7	0·5	046
0·15 a.g.	28	3.9	2·9	060	29	3·8	3·2	076	29	4·0	3·5	057	30	2·2	1·6	069	28	2·7	2·5	056	30	4·9	4·0	079
0·3 a. m. s. l.	28	4·1	3·3	059	29	3·9	3·6	075	29	4·1	3·7	053	30	2·3	1·7	071	28	2·5	2·3	062				
0·6 ,,	28	4·5	3·9	063	29	4·5	4·3	080	29	3·3	3·1	046	80	2·6	2·3	065	28	2·7	2·6	064	30	4·6	4·0	084
0·9 ,,	28	4·8	4·2	071	29	5·6	5·0	087	29	2·9	2·5	050	30	2·3	1·7	062	28	3·1	2·9	057	30	4·1	3·6	089
1·5 ,,	28	5·0	4·5	088	28	5·8	5·5	091	27	2·5	1·9	075	30	2·0	0·8	153	28	2·3	1·2	066	30	3·8	2·6	062
2·1 ,,	25	4·9	4·4	084	28	5·8	5·6	093	25	2·6	0·4	128	27	2·7	1·9	185	27	2·2	0·7	190	30	4·9	3·5	347
3·0 ,,	23	5·8	5·4	085	21	6·3	5·9	091	21	3·2	0·8	220	26	4·6	2·3	208	25	4·3	1·9	231	30	5·7	4·7	315
3·6 ,,	20	6·0	5·7	085	12	5·8	4·3	077	15	3·8	1·5	269	23	5·5	4·1	231	15	4·8	1·3	227	30	7·1	6·0	291
4·5 ,,	17	7·2	6.9	082	3	6·5	6·2	074	11	11·5	10·3	260	21	8·8	7·7	257					30	9·0	8·4	281
5·4 ,,	12	6·6	6·0	089					6	14·4	11·1	267	21	15·5	14·5	262					30	12·5	11·7	276
6·0 ,,	6	4·6	4·0	099					2	21·5	21·4	248	21	18·0	17·1	265					30	14·7	13·8	273
7·2 ,,	4	6·4	4·4	094									6	16·6	15·8	272					30	19·6	18·7	272
9·0 ,,	4	8·1	4·1	223									1	22·5	22·5	280					30	24·4	23·5	274

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

November 1961 (Kartika 10, —Agrahayana 9, 1883 Saka)

Station	NAGPUR												NEW DELHI											
Time in I.S.T.	1130				1730*				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0.5	0·3	092	30	1.0	0 7	071	30	0·5	0.3	047	30	1·1	0·8	323	30	2.2	1·0	300	30	1·2	0·8	325
0·15 a.g.	30	1.7	0·9	100	30	3·3	2.8	046	30	4·9	4.4	097	30	4·5	1.2	328	29	3·0	1·3	293	30	3·9	2·4	338
0·3 a. m. s.l.													30	3·9	1.0	338	29	3·1	1.1	298	30	3·2	1·9	335
0·6 „	30	2·3	1.6	091	30	3.0	2·6	049	30	4·9	4·3	098	30	4·4	1·2	310	29	4·3	0.8	280	30	3·6	2·1	327
0·9 „	30	2.9	2.3	074	30	2.6	2.0	053	30	4·0	3·6	090	30	4·3	1·7	297	29	4·5	2·1	280	30	3.5	2·1	310
1·5 „	29	4.0	3.0	033	30	2.8	2.3	043	30	3·7	2.8	040	30	4·7	3·5	292	29	4·6	2·7	287	30	3·8	2·7	.94
2·1 „	29	4·9	4.0	358	30	4.4	3·7	358	29	3·7	3.0	338	30	5.3	3·7	298	29	4·7	2·8	290	30	4.6	2·5	283
3·0 „	30	4.7	3.8	304	30	4.9	4·2	309	29	5·1	4·1	289	30	5.9	4·2	293	29	6·0	3.4	280	30	5.7	4·1	282
3·6 „	29	6·4	5·9	285	30	6.5	5·9	289	19	6.5	6·1	275	30	5·9	4·7	285	29	6.7	4.1	278	30	6·5	5·2	287
4·5 „	29	9·5	9.3	272	30	9·1	8·7	281	6	8.5	8.2	272	30	8·4	7·5	277	26	9·1	7.4	283	30	9.9	8.5	285
5·4 „	28	12.6	11·7	274	30	12·7	12.2	279	1	11·5	11.5	285	30	12.2	11.2	279	26	12.9	12·0	280	30	13·3	12.6	280
6·0 „	28	15.6	14.8	275	30	14·4	13.9	275					30	14·9	13.8	275	24	16.3	14·8	280	30	15·9	14.6	260
7·2 „	22	21.2	20.4	270	30	18.9	18.1	271					30	19·7	18·7	276	17	19·9	18.5	275	30	20.3	18.6	275
9·0 „	11	24.5	22.7	272	30	23·4	22.1	269					29	28.2	26.8	276	7	25.4	25·4	267	27	26.8	26.0	273

Station	NEW DELHI				POONA												PORT BLAIR							
Time in I.S.T.	2330				0530				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·7	0.5	306	30	0.1	0·1	090	30	0·8	0·7	086	30	0·3	0·3	085	30	1.9	1.6	069	30	3·2	2.7	061
0·15 a.g.	30	5·0	1.5	352	30	3.9	3.7	109	30	3·0	2·4	094	30	3·7	2.1	073	29	6.4	5.9	065	29	5.7	5·3	061
0·3 a. m. s.l.	30	2·8	1·3	344													29	6.4	5.5	065	29	6.4	6.0	064
0·6 „	30	4.7	1.7	345	30	1.2	0·6	105	30	2.0	1.5	091	30	1.7	0.3	146	28	7.1	6·2	075	29	7.6	7.0	075
0·9 „	30	4.1	2.2	323	30	5.5	5.2	119	30	2·9	2.4	096	30	5.3	4.3	081	28	7.8	7·2	086	25	8.3	7·9	081
1.5 „	30	4.3	3.3	292	30	6.7	6.4	120	30	3·1	2·8	100	30	6·5	6·4	099	27	8.1	7·6	095	22	8.4	8·0	096
2·1 „	29	4.9	3.8	284	30	4·1	3.5	108	29	3·1	2·5	090	30	5·3	4.5	102	21	7.0	7·0	087	15	8.1	7.9	093
3·0 „	28	6·0	4·8	290	29	3·8	0·7	259	25	2·6	1·5	050	28	3·5	0·4	153	17	7·0	6.5	084	12	7·1	6.9	093
3·6 „	8	8·4	6·6	291	23	4·4	3·0	295	22	3·3	1.6	312	20	5·4	3·0	284	12	7·1	6·5	088	10	6·3	4.8	088
4·5 „					12	4·4	3·3	267	22	4·9	4.4	281	11	5·0	3·8	290	11	7·5	6·8	083	7	7.2	6·1	084
5·4 „									20	7·1	6·0	271	3	8.3	6·8	289	6	8·4	7·2	093	7	7.1	6·3	087
6·0 „									19	9·1	7·6	275	3	9.8	7.9	285	5	9·9	8·1	108	5	.0	3.4	072
7·2 „									15	11·5	9·5	268	1	7.5	7·5	260	4	12·7	12·5	085	5	5.9	4·2	056
9·0 „									8	10·5	9·0	275									2	11.3	11·3	094

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10, —Agrahayana 9, 1883 Saka)

Station	PORT BLAIR								RAIPUR												RAXAUL			
Time in I. S. T.	1730*				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	2.6	2·1	057	30	3·1	2·9	062	30	0·6	0·3	021	30	1.0	0.9	043	30	1.3	1·0	109	30	0·7	0·7	090
0·15 a. g. . .	30	5.6	5 6	062	29	5.7	5.2	065	30	3·8	2·9	062	30	3.4	2 6	041	30	4.4	3.4	099	30	2.8	1·2	320
0·3 a. m. s. l. .	30	5.8	5.7	063	29	6.1	5.6	064													30	3.2	2.2	303
0·6 „ .	30	6.7	6.1	071	29	6.4	6.0	075	30	4.4	3·5	076	30	3.5	2·8	039	30	4.2	3.1	081	30	3·5	2.7	285
0·9 „ .	29	7.7	6.8	084	27	6.7	6·2	091	29	4·3	3.5	073	30	3.3	2·6	037	30	4·0	3·0	065	30	3·0	1·7	267
1·5 „ .	27	7.3	6.5	093	21	6.1	5.8	095	28	5·1	3·5	032	29	4·0	3.0	021	30	4.4	3·2	023	30	3·4	0.4	164
2·1 „ .	22	6.2	5.3	093	9	5.9	5.8	090	28	6.3	5·1	354	27	5·1	4·1	356	29	4·5	3.7	349	30	4·6	1.4	103
3·0 „ .	16	5.9	5·2	089	7	5.9	5.9	093	21	5·7	4.1	308	27	6.2	2·9	308	27	5.5	3·9	302	29	5·0	1·3	289
3·6 „ .	14	6·0	5.3	087					18	7.3	6.2	275	26	7·0	6.6	287	12	8·0	7.2	283	26	4·8	3·0	293
4·5 „ .	12	6.3	4·6	084					11	9.5	8·3	278	23	10·6	10.1	279	1	4.5	4·5	295	24	7.4	6·5	281
5.4 „	6	5.7	3.3	085					9	12.5	11.8	269	23	13·6	13.1	278					20	13·5	13·0	276
6·0 „ .	6	6.6	5.3	087					6	15.1	14.3	275	22	15.5	15.0	277					13	15.3	14.1	278
7·2 „ .	4	6.1	3.8	061									9	18.6	18.0	273					2	18.0	17.6	254
9·0 „ .																								

Station	RAXAUL				SANTA CRUZ																TIRUCHIRAPALLI			
Time in I. S. T.	1730				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	0.3	0.3	270	30	1.7	1.5	065	30	1.4	0.9	118	30	3.0	2.6	290	30	1·3	1.1	038	30	2.9	2·6	023
0·15 a. g. .	30	3.3	2.7	271	30	4.9	4.1	056	30	2.5	2·2	098	30	5.4	4.2	296	30	4·5	4.0	014	29	7.1	6·9	027
0·3 a. m. s. l. .	30	3.3	2.7	269	30	5.0	3.9	063	30	3.1	2.1	112	30	4·2	2.6	303	30	4.8	4.0	009	29	8.6	8·3	032
0·6 „ .	30	3.3	2.7	271	30	4.7	3.6	084	30	4.1	3.6	124	30	2.5	1.0	360	30	4.8	3.9	019	29	8.9	8·5	046
0·9 „ .	30	3.3	2·6	272	30	4.7	3.7	096	30	4.4	3.8	126	30	2·6	1.8	054	30	4.4	3.8	034	29	8.1	7·5	053
1·5 „ .	29	3.2	1.1	285	30	3.6	2.8	114	30	3.1	2.0	120	30	3·4	2.6	068	30	4.2	3·7	078	28	5.4	4.7	064
2·1 „ .	29	3.6	0.2	066	30	3.0	1.9	151	30	2.8	1·1	136	30	3.8	2 5	085	30	5.4	5.0	107	25	5·1	4.6	087
3·0 „ .	29	5·7	2.1	289	30	4.4	2.9	266	30	3.7	1·6	315	30	3.2	1.5	036	29	3.6	1.2	138	24	5.4	5.1	089
3·6 „ .	29	6.6	4.5	284	30	4.9	3.7	296	30	4.3	2.5	302	30	3.3	1.9	324	26	4.2	2.3	270	24	5.3	4.9	088
4·5 „ .	26	8.4	7.5	281	30	6.1	4.1	299	30	4.9	4.8	275	30	5.1	4.2	282	17	5.6	4·0	277	22	6·5	5·5	082
5·4 „ .	24	12.7	12·2	275	30	8.0	7.1	283	28	7.4	6.1	279	30	7.3	6.3	276	9	8·9	8.3	277	21	7.2	6.2	090
6·0 „ .	20	15·6	15·1	275	30	10.3	9.1	275	27	9.5	8.4	274	30	9.5	8.7	287	9	10.8	10.1	268	20	7.1	6·2	079
7·2 „ .	14	21.5	20.8	269	30	13.9	12.7	276	26	13.1	11.9	271	30	12.9	11.6	272	2	12.7	12.7	256	14	6.8	4.8	060
9·0 „ .	2	20.3	20.3	278	28	18.2	17.1	275	26	17.8	16.6	274	28	19.0	17.3	270					10	6.9	3.8	027

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

November 1961 (Kartika 10, —Agrahayana 9, 1883 Saka)

Station	TIRUCHIRAPALLI								TRIVANDRUM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	3·6	3.2	059	30	3·0	2·8	046	30	1·2	0·7	030	30	1·1	0·4	309	30	1·3	0·7	249	30	1·1	0·7	027
0·15 a. g.	28	6·4	6·1	059	29	8·9	8·7	046	30	2·7	1·5	033	29	2·4	0·5	302	30	2·8	1·5	265	27	2·0	0·5	315
0·3 a. m. s. l.	28	6·8	6·5	057	29	9·8	9·6	048	30	2·7	1·5	036	29	2·2	0·7	318	30	2·7	1·2	264	27	2·1	0·5	288
0·5 „	28	7·9	7·6	054	28	10·6	10·4	052	30	2·5	1·2	069	29	2·1	1·0	026	30	2·6	0·4	358	27	2·6	0·9	025
0·9 „	28	8·2	7·7	033	28	9·7	9·2	052	30	2·9	2·0	074	27	2·8	1·7	056	30	3·6	2·7	057	27	2·9	2·2	064
1·5 „	26	7·1	6·7	055	28	6·6	6·1	061	30	4·3	3·1	074	23	4·1	3·0	073	30	4·6	4·3	069	26	4·0	3·5	080
2·1 „	25	5·3	4·9	071	27	5·8	5·4	079	30	4·8	3·9	087	18	6·0	5·3	089	30	5·2	4·7	080	24	4·2	3·6	092
3·0 „	23	5·5	4·9	076	22	4·6	4·3	088	30	6·0	5·4	088	11	6·2	5·6	093	30	5·9	5·6	083	18	5·4	5·0	097
3·6 „	21	5·2	4·6	080	19	4·9	4·4	087	29	6·1	5·2	089	10	7·1	6·5	084	28	6·0	5·8	086	15	5·5	5·2	095
4·5 „	18	6·7	5·6	077	9	6·2	5·5	090	29	7·2	6·5	082	7	6·6	6·4	083	28	7·8	7·3	082	12	7·5	6·9	079
5·4 „	15	7·6	5·8	084	4	6·5	5·8	100	28	8.3	7.7	090	5	7·6	7·4	091	28	8·4	7·7	086	9	7·9	7·3	086
6·0 „	13	7.0	6.2	081	3	6·8	6·8	079	27	8.3	7.4	093	4	9·9	9·6	094	28	8·2	8·0	087	6	6·3	5·9	097
7·2 „	9	6.3	4.9	068	1	6·5	6·5	085	27	8.1	6.4	079	3	12·8	12·8	092	27	9·0	7·7	081	2	4·5	3·3	092
9·0 „	4	9.1	7.1	047					22	7.3	5.7	083	3	7·3	6·7	082	26	7·8	6·1	085	1	1·0	1·0	165

Station	UDAIPUR												VENGURLA											
Time in I. S.T.	0530				1730				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	30	0·1	0·1	316	30	5·5	0·3	273	30	2·0	2·0	018	30	0·3	0·3	360	30	1·5	1·2	273	30	0·5	0·5	001
0.15 a.g.	30	2·2	1·7	012	30	2·4	0·2	087	30	2·6	1·2	047	30	4·3	3·8	081	30	2·6	1·8	279	30	4·5	3·6	012
0.3 a. m. s. l.													30	5·1	4·8	093	30	2·7	1·5	284	30	5·4	4·4	010
0·5 „													30	6·0	5·7	099	30	2·6	1·9	049	30	5·2	3·9	034
0·9 „	30	3·1	1·8	074	30	2·5	0·3	155	30	3·7	1·8	067	30	6·7	6·3	102	30	3·9	3·7	063	30	5·2	4·4	068
1·5 „	30	3·7	0·5	183	30	2·7	0·8	257	30	3·3	1·0	111	30	5·9	5·2	095	30	7·1	7·0	072	30	7·0	6·9	091
2·1 „	30	5·1	3·8	242	30	3·6	2·7	271	30	3·3	1·8	208	29	4·3	3·4	077	30	7·9	7·5	072	28	6·9	6·7	086
3·0 „	28	6·4	5·4	273	30	5·6	5·2	277	29	5·9	5·5	273	28	3·7	1·3	063	30	4·5	3·2	059	23	3·6	2·2	069
3·6 „	27	8·1	7·3	281	28	7·9	7·4	279	20	7·9	7·5	281	7	2·5	0·5	282	29	3·5	1·2	049	4	3·1	1·6	016
4·5 „	27	10·9	10·1	278	24	11·4	11·0	281	7	12·1	11·7	282					29	3·5	0·6	287				
5·4 „	21	14·8	13·4	274	21	15·1	14·5	279	2	12·7	12·7	272					28	4·5	1·4	259				
6·6 „	18	16·2	15·0	280	19	17.1	16·2	277									28	5·5	2·0	267				
7·2 „	4	19·5	17·8	289	14	22·6	21·6	277									13	6·5	3·5	299				
9·0 „					4	36·6	36·2	271									3	8·7	5·1	259				

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

November 1961 (Karttika 10,—Agrahayana 9, 1883 Saka)

Station	VERAVAL												VISAKHAPATNAM											
Time in I.S.T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	30	3·7	3·4	022	30	4·2	2·2	238	30	2·8	1·7	342	30	1·9	1·8	039	30	2·3	1·0	055	30	2·9	2·7	044
0·15 a.g. .	30	9·7	8·6	038	30	4·1	2·6	230	30	5·3	3·3	347	30	8·3	8·2	030	29	4·1	3·7	052	30	7·8	7·6	050
0·3 a.m s.l. .	30	8·0	6·4	040	30	3·7	2·3	233	30	5·4	3·8	357	30	7·4	7·3	040	29	4·0	3·8	056	30	7·1	6·9	054
0·6 ,, .	30	5·0	3·2	047	30	2·7	0·8	297	30	4·6	3·0	003	30	5·3	5·1	059	29	4·5	4·4	058	30	4·6	4·4	062
0·9 ,, .	30	3·7	1·4	069	30	2·9	0·9	354	30	4·2	1·8	026	30	4·9	4·6	058	29	5·4	5·1	058	30	4·6	4·3	042
1·5 ,, .	30	3·5	1·9	171	30	3·6	2·7	027	30	3·5	2·3	078	30	3·9	2·9	047	27	5·6	4·6	043	30	4·9	3·9	015
2·1 ,, .	30	3·7	1·9	207	30	3·8	1·9	007	30	3·9	2·3	089	30	3·6	1·1	010	25	4·6	2·3	008	30	3·9	2·4	358
3·0 ,, .	30	4·1	1.9	266	30	4·7	3·5	304	30	4·6	1·7	312	30	3·8	2·1	285	23	4·7	3·0	286	30	3·6	2·0	280
3·6 ,, .	19	5·5	4·6	289	30	6·2	5·1	291	26	5·8	4·2	289	30	4·5	3·1	270	22	5·9	4·3	268	29	4·6	3·3	266
4·5 ,, .	4	9·0	8·8	289	30	8·2	7·4	284	20	7·9	7·2	277	30	5·5	3·4	275	18	7·3	6·1	275	28	5·3	3·7	268
5·4 ,, .	2	10·0	9·9	278	30	10·1	9·3	277	11	11·8	10·8	267	30	6·0	4·5	283	18	8·7	7·6	281	28	6·5	5·6	295
6·0 ,, .					30	12·5	11·6	273	4	12·1	11·1	269	30	7·2	6·0	285	16	10·3	9·5	286	28	7·2	6·1	289
7·2 ,, .					26	18·0	16·8	271					30	8·8	7·9	270	14	13·5	12·9	283	28	9·4	7·9	262
9·0 ,, .					24	24·7	23·1	268					29	11·4	9·8	281	13	15·1	13·6	285	28	10·7	9·2	273

Station.	VISAKHAPATNAM			
Time in I.S.T.	2330			
Ht. in Km.	n	V	v	D
Surface . .	30	0·8	0·7	036
0·15 a.g. .	29	3·4	3·3	057
0·3 a.m.s.l. .	29	4·4	4·3	067
0·6 ,, .	29	5·6	5·5	064
0·9 ,, .	29	5·7	5·5	058
1·5 ,, .	27	5·9	5·0	037
2·1 ,, .	24	4·6	2·8	012
3·0 ,, .	23	4·8	2·7	266
3·6 ,, .	19	5·2	4·0	278
4·5 ,, .	17	6·6	5·6	277
5·4 ,, .	9	7·0	6·0	279
6·0 ,, .	7	8·7	7·6	290
7·2 ,, .				
9·0 ,, .				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

November 1961 (Kartika 10, —Agrahayana 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	AGARTALA			
	1730 hr.			
10.5	2	45.7	44.7	275
12.0	1	34·5	34·5	280
	AHMEDABAD			
	0530 hr.*			
10.5	21	36.5	35.2	278
12·0	18	33.9	32.5	279
14.1	12	38.4	37.6	273
16·2	6	33.6	32.9	280
18.0	2	17·5	17·1	293
	1130 hr.			
10.5	6	35·7	35·7	264
12·0	2	46.0	45.6	262
	1730 hr.*			
10.5	20	40.3	38.5	274
12.0	13	33.4	31.7	271
14·1	8	27.6	26·5	263
16.2	2	16.5	16.3	280
18.0	1	14.5	14.5	230
	AMAUSI			
	1730 hr.			
10.5	5	3.6	3.3	272
12.0	1	21.5	21.5	255
	AMBALA			
	0530 hr.			
10.5	1	21.0	21.0	255
	ANANTAPUR			
	0530 hr.			
10.5	4	8.3	6.7	285
12.0	2	7.3	5.2	210
14.1	1	11.0	11.0	175
16.2	1	8.0	8.0	320
18.0	1	6.5	6.5	270
	1730 hr.			
10·5	9	7.8	5.8	274
12.0	7	8.1	6.1	285
14.1	5	10.0	9.0	286
16.2	2	5.7	5.7	280
18.0	1	5.0	5.0	220

Ht. in Km.	n	V	v	D
	BAGHDOGRA			
	0530 hr.			
10.5	1	22.0	22.0	305
12.0	1	28.5	28.5	305
	BAHRAICH			
	0530 hr.			
10.5	3	25·8	25 6	270
12.0	1	19.0	19.0	250
	1730 hr.			
10.5	20	43.1	39.4	276
12.0	12	48.8	42.9	280
14·1	7	44.6	43.6	277
16·2	1	81.0	81.0	275
	BAIRAGARH			
	0530 hr.			
10.5	2	33.5	33.5	272
12.0	1	30.0	30.0	265
	BAJPE			
	0530 hr.			
10.5	6	6.3	5.1	290
12·0	2	3.3	2.3	257
	1730 hr.			
10.5	6	5.7	2.3	267
12.0	3	7.2	4.8	236
14.1	3	7.5	2.5	274
	BAMRAULI			
	0530 hr*			
10.5	23	40.7	38.8	268
12.0	17	44.7	42.3	270
14.1	1	39.5	39.5	245
	1130 hr.			
10.5	1	40.0	40.0	285
	1730 hr.*			
10.5	22	42.5	40.2	267
12.0	17	45.2	40.5	270
14.1	8	50.6	49.2	270
16.2	2	38.7	38.0	252
18.0	1	23.0	23.0	280
	BANGALORE			
	0530 hr.			
10.5	14	5.8	1.1	238
12.0	13	5.7	1.6	221

Ht. in Km.	n	V	v	D
	BANGALORE			
	0530 hr.			
14.1	11	6.0	2.8	158
16.2	6	5.9	0.3	028
18.0	4	4.9	3.0	253
21.0	2	18.0	2.4	206
	1730 hr.			
10.5	18	7.1	1.6	280
12.0	17	7.1	3.8	248
14.1	14	6.8	3.2	250
16.2	12	5.0	0.7	172
18.0	11	5.6	2.0	271
21.0	4	5·7	2·0	141
	BAREILLY			
	0530 hr.			
10.5	1	16.5	16.5	275
	1730 hr.			
10.5	2	30.0	29.9	275
	BEGUMPET			
	0530 hr.			
10.5	20	15.5	14.5	285
12.0	19	16.1	15.1	276
14.1	16	15·4	14.0	265
16.2	13	6.5	6.3	258
18·0	11	6.2	5.0	274
21·0	7	5.6	2.7	293
24·0	4	8.0	4.0	354
27·0	2	9·8	9·5	352
	1730 hr.			
10.5	12	15·3	13·1	281
12.0	6	17·1	16·0	264
14.1	4	13·3	12·5	248
16.2	2	7·5	7·1	285
18.0	2	4·5	4·4	246
21.0	1	18·0	18.0	250
	BHUJ			
	0530 hr.			
10.5	1	42·5	42·5	245
	DARJEELING			
	1730 hr.			
10.5	1	28·5	28·5	285

Ht. in Km.	n	V	v	D
	DUM DUM			
	0530 hr.*			
10·5	17	32.9	29.4	263
12·0	10	31·7	30·7	265
14·1	2	19·7	15·2	248
16·2	1	14·0	14·0	285
	1130 hr.			
10·5	1	24·0	24·0	250
	1730 hr.*			
10·5	17	30·6	27·9	265
12.0	11	33·4	28.4	273
14·1	5	22·3	21·7	272
16·2	3	21.8	21.7	271
18.0	1	16.0	16.0	295
	GADAG			
	0530 hr.			
10.5	19	9.7	7·3	272
12.0	18	8·7	7·4	260
14·1	14	7.2	4.8	252
16·2	13	6.4	4.0	253
18.0	11	4.8	0.9	282
21.0	6	6.4	4.0	119
24·0	1	12.0	12.0	270
	1730 hr.			
10·5	20	9.7	8.1	279
12·0	19	11.7	9.9	275
14·1	17	8.3	7.5	253
16·2	14	4.2	3.0	264
18·0	4	5·9	1·5	251
21·0	1	9·0	9·0	330
	GANNAVARAM			
	0530 hr.			
10.5	1	8·5	8·5	270
	1730 hr.			
10·5	8	11·4	10·0	292
12·0	4	16·9	16·9	280
14·1	1	21·0	21·0	295
	GAUHATI			
	0530 hr.*			
10·5	16	43·5	41·9	265
12·0	11	44·1	42·8	270
14·1	4	35·1	34·8	267
16·2	1	29·5	29·5	250
18·0	1	8·0	8·0	250

Ht. in Km.	n	V	v	D
	GAUHATI			
	1130 hr.			
10·5	1	17.5	17.5	325
	1730 hr.*			
10.5	11	40.8	37·7	254
12·0	8	45.6	42.7	250
14·1	4	46.4	45.4	257
	GOPALPUR			
	1730 hr.			
10.5	1	7·0	7.0	270
	GORAKHPUR			
	0530 hr.			
10·5	4	37·4	37·2	279
12·0	1	33·0	33·0	270
	GWALIOR			
	0530 hr.			
10·5	2	37.0	34.3	269
	1730 hr.			
10.5	4	38.6	36.1	268
	JAIPUR			
	1730 hr.			
10·5	3	29.3	29.2	278
	JODHPUR			
	530 hr.*			
10·5	7	43.3	41.6	270
12·0	1	32.0	32.0	285
	1730 hr.*			
10·5	5	34·2	33·4	270
12·0	2	52·3	52·0	262
14·1	1	40·0	40·0	260
	MADRAS			
	0530 hr.*			
10 5	26	7·0	1·8	353
12.0	23	7.4	2.1	305
14.1	19	8.1	3.0	283
16·2	13	5.3	1.5	210
18·0	5	6·0	3·9	357
21·0	3	6·7	1·1	315
	1130 hr.			
10·5	2	3 7	3·1	122
12.0	2	6.3	2·1	179
14.1	1	6·5	6·5	320
16.2	1	2·5	2·5	350

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Ht. in Km.	n	V	v	D
	MADRAS			
	1730 hr.*			
10·5	26	6·8	1·8	321
12·0	24	7·3	3·1	312
14·1	18	7·8	2·9	285
16·2	13	4·4	1·3	234
18·0	8	7·3	1·5	335
21·0	4	6·5	6·2	232
24·0	1	5·0	5·0	080
	MINICOY			
	0530 hr.			
10·5	2	5·7	2·4	355
12·0	1	7·0	7·0	070
14·1	1	2·5	2·5	040
	1730 hr.			
10·5	3	5·7	3·5	226
12·0	1	12·5	12·5	060
14·1	1	14·0	14·0	105
	NAGPUR			
	0530 hr.*			
10·5	30	28·2	26·9	274
12·0	30	29·1	27·4	270
14·1	28	25·4	24·5	267
16·2	26	19·8	19·0	270
18·0	23	16·2	15·4	268
21·0	10	13·7	12·4	280
24·0	2	10·3	10·3	277
	1130 hr.			
10·5	3	19·7	18·6	250
12·0	2	20·0	19·8	246
	1730 hr.*			
10·5	30	27·9	26·7	273
12·0	29	27·5	26·2	270
14·1	28	24·9	24·2	266
16·2	27	17·9	16·9	268
18·0	23	11·8	10·6	267
21·0	8	9·4	7·9	290
24·0	1	2·0	2·0	060
	NEW DELHI			
	0530 hr.*			
10·5	28	34·3	32·9	275

Ht. in Km.	n	V	v	D
	NEW DELHI			
	0530 hr.*			
12·0	24	39·6	38·6	272
14.1	18	36·4	35·1	274
16.2	12	28·6	27·8	273
18·0	4	12·6	12·0	273
	1130 hr.			
10·5	3	31·5	30·5	263
12.0	1	41·0	41·0	270
	1730 hr.*			
10·5	27	38·7	37·0	272
12·0	20	41·8	40·6	275
14·1	11	41·0	39·7	274
16·2	6	22·5	21·5	261
18·0	2	13·5	11·5	289
21·0	1	18·0	18·0	290
	POONA			
	1730 hr.			
10·5	2	12·7	10·9	240
12·0	1	9·5	9·5	230
14·1	1	6·5	6·5	270
	PORT BLAIR			
	1130 hr.			
10·5	1	14·0	14·0	060
12·0	1	17·0	17·0	055
	SANTA CRUZ			
	0530 hr.*			
10·5	28	22·9	21·3	275
12·0	27	25·7	23·3	270
14·1	14	26·9	25·6	263
16·2	5	16·5	16·0	272
18·0	2	13·5	13·5	261
	1130 hr.			
10·5	20	20·3	18·7	273
12·0	17	22·6	21·3	270
14·1	13	20·0	18·9	253
16·2	9	16·6	15·6	257
18·0	7	10·7	9·2	286
21·0	3	9·5	7·2	279

Ht. in Km.	n	V	v	D
	SANTA CRUZ			
	1730 hr.*			
10·5	25	23·8	22·7	277
12·0	25	26·8	25·1	269
14·1	14	23·9	18·6	249
16·2	8	19·4	18·3	261
18·0	2	9·5	9·1	260
	TIRUCHIRAPALLI			
	0530 hr.			
10·5	5	5·7	3·9	122
	1730 hr.			
10·5	2	9·3	3·9	048
12·0	1	5·0	5·0	330
14·1	1	5·0	5·0	335
	TRIVANDRUM			
	0530 hr.*			
10·5	20	7·1	5·4	090
12·0	19	8·3	6·4	087
14·1	12	9·8	6·5	084
16·2	8	8·6	5·5	076
18·0	4	9·9	4·4	045
	1130 hr.			
10·5	2	7·5	6·5	083
12·0	2	8·3	8·1	108
14·1	2	7·3	7·1	107
16·2	1	8·0	8·0	070
18·0	1	7·0	7·0	295
	1730 hr.*			
10·5	25	8·8	7·0	094
12·0	21	8·5	5·7	090
14·1	17	7·1	4·7	084
16·2	12	8·9	5·7	110
18·0	7	4·6	1·2	033
21·0	1	8·0	8·0	150
	VERAVAL			
	1730 hr.			
10·5	16	29·3	27·5	271
12·0	9	29·2	26·5	256
14·1	2	20·0	15·9	257

Ht. in Km.	n	V	v	D
	VISAKHAPATNAM			
	0530 hr.*			
10·5	28	11·4	9·7	277
12·0	27	12·9	11.3	275
14·1	26	10·9	10·0	260
16·2	20	7·5	6·6	259
18·0	12	5·7	4·4	270
21·0	8	5·9	3·4	291
	1130 hr.			
10·5	7	14·3	12·5	272
12·0	5	13·9	11·5	271
14·1	5	14·3	12·6	260
16·2	2	13·0	13·0	263
18·0	2	5·7	5·5	300
	1730 hr.*			
10·5	28	11·3	10·0	277
12·0	26	12·4	11·8	262
14·1	25	12·0	10·4	260
16·2	22	6·7	5·4	266
18·0	16	6·3	4·7	258
21·0	8	4·4	3·4	288
24·0	1	4·0	4·0	290

RADIOSONDE DATA

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I.M.D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of Station	Type of instrument used	Date of starting	Hours of routine observations in G.M.T. during the month	Remarks
1	Ahmedabad	Fan type	20th July 1961	00 and 12	
2	Allahabad	Clock type	1st October, 1944	00 and 12	
3	Bangalore	Fan type	10th March, 1961	00 and 12	
4	Bombay	Clock type	7th September, 1954	00 and 12	
5	Calcutta	Clock type	13th December, 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
6	Gauhati	Clock type	22nd July, 1955	00 and 12	
7	Jodhpur	Clock type	17th April, 1946	00 and 12	
8	Madras	Fan type	29th June, 1946	00 and 12	
9	Nagpur	Fan type	1st October, 1946	00 and 12	
10	New Delhi	Clock type	3rd December, 1943	00 and 12	
11	Port Blair	Fan type	4th December, 1946	00 and 12	
12	Trivandrum	Fan type	1st July, 1947	00 and 12	
13	Visakhapatnam	Fan type	8th December, 1946	00 and 12	

RADIOSONDE DATA

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

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

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (1007 mb.)						ALLAHABAD (1004 mb.)						BANGALORE (911 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	291·7	296	287	285·1	29	098	287·0	293	283	285·0	31	921	289·3	292	286	287·1
1000	30	114	..	..	..	..	29	133	..	..	..	..	31	123	..	..	..	..
900	30	1029	292·8	296	289	277·3	29	1035	289·2	293	286	278·8	31	1025	288·8	291	286	286·1
850	30	1518	289·3	293	286	276·3	29	1519	286·6	289	284	275·3	30	1515	288·1	291	286	283·3
800	30	2030	284·8	289	281	273·3	29	2026	283·0	287	280	272·2	30	2028	287·3	291	285	276·9
700	30	3135	278·7	284	274	266·5	29	3124	277·6	282	274	263·4	30	3145	281·9	287	279	268·1
600	30	4381	271·6	277	269	254·0	29	4367	271·6	276	266	253·0	30	4407	275·0	280	271	261·5
500	30	5812	262·7	270	255	..	29	5796	263·2	268	260	..	30	5854	266·5	271	261	..
400	30	7493	250·8	254	241	..	29	7481	252·2	258	247	..	29	7564	255·9	261	250	..
300	27	9563	237·1	244	228	..	27	9553	239·3	244	235	..	28	9658	240·6	245	230	..
250	24	10809	227·9	234	218	..	24	10813	231·3	236	226	..	27	10925	230·9	235	224	..
200	20	12243	216·1	224	207	..	23	12305	222·8	229	216	..	26	12347	218·7	226	211	..
175	17	13096	211·2	219	204	..	20	13154	217·5	225	208	..	25	13236	212·1	219	202	..
150	17	14043	205·8	214	198	..	17	14133	212·6	220	204	..	24	14219	204·8	213	193	..
125	14	15109	200·3	209	195	..	15	15258	208·7	214	199	..	23	15238	199·7	207	190	..
100	12	16439	200·0	208	193	..	11	16615	205·0	208	196	..	22	16541	197·5	204	189	..
80	9	17710	203·7	208	200	..	7	17936	205·3	209	199	..	19	17889	200·8	207	191	..
70	8	18515	208·0	216	199	..	6	18675	207·1	212	204	..	16	18672	203·5	211	189	..
60	..	..	..	..	..	..	..	..	..	..	..	..	16	19583	206·9	218	191	..
50	..	..	..	..	..	..	..	..	..	..	..	..	15	20646	209·1	218	193	..
40	..	..	..	..	..	..	..	..	..	..	..	..	6	21915	210·3	216	204	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1010 mb.)						CALCUTTA (1014 mb.)						GAUHATI (1010 mb.)					
Surface	30	013	294·8	297	291	291·6	29	006	290·4	295	286	289·1	30	049	289·9	296	285	289·0
1000	30	098	..	..	..	..	29	123	..	..	..	..	30	131	..	..	..	..
900	30	1021	294·3	297	291	283·9	29	1023	286·8	296	284	280·4	30	1034	288·2	293	283	283·8
850	30	1513	290·6	294	286	281·9	29	1504	284·2	288	281	275·3	30	1517	285·4	291	282	279·8
800	30	2028	286·7	290	282	279·8	29	2009	281·9	285	275	271·0	30	2023	282·8	288	278	276·1
700	30	3141	280·9	287	276	268·1	29	3105	276·7	280	270	264·2	30	3118	275·7	282	271	266·5
600	30	4401	275·1	279	271	255·3	29	4345	270·2	274	265	257·0	30	4350	269·0	275	263	..
500	30	5850	266·7	273	261	..	29	5774	262·8	267	259	..	30	5765	260·7	268	255	..
400	30	7560	255·8	263	251	..	28	7459	252·7	258	248	..	28	7442	251·1	260	242	..
300	30	9662	241·8	249	237	..	22	9530	239·0	245	233	..	23	9513	239·4	247	230	..
250	30	10929	233·2	241	225	..	13	10816	231·7	235	228	..	16	10744	230·9	238	221	..
200	30	12425	222·3	229	213	..	11	12308	221·1	225	216	..	14	12216	222·3	228	214	..
175	26	13292	216·8	223	207	..	5	13216	216·8	221	212	..	11	13043	216·7	224	209	..
150	20	14236	209·6	215	200	..	..	..	..	..	..	..	11	14025	211·5	219	205	..
125	16	15343	203·0	210	194	..	..	..	..	..	..	..	9	15139	207·2	218	199	..
100	14	16630	197·9	204	191	..	..	..	..	..	..	..	8	16497	205·4	216	200	..
80	8	17991	202·3	207	195	..	..	..	..	..	..	..	7	17830	207·0	221	201	..
70	5	18822	206·0	210	202	..	..	..	..	..	..	..	7	18664	208·7	223	204	..
60	..	..	..	..	..	..	..	..	..	..	..	..	6	19845	214·1	225	209	..
50	..	..	..	..	..	..	..	..	..	..	..	..	6	20800	219·0	228	216	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November 1961 (Kartika 10 —Agrahayana 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR (990 mb.)						MADRAS (1010 mb.)						NAGPUR (979 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point			Mean	Max.	Min.	Dew Point
Surface	27	218	288·7	292	285	277·7	29	015	296·6	300	292	294·4	30	311	288·7	293	283	286·4
1000	27	133	..	..	..	..	29	100	..	..	..	..	30	129	..	..	..	..
900	27	1037	291·7	295	289	279·0	29	1014	291·5	295	287	286·6	30	1033	291·0	294	287	285·7
850	27	1525	288·0	291	281	275·7	29	1505	289·1	293	286	281·0	30	1521	287·5	292	285	278·8
800	27	2036	284·4	287	282	274·0	29	2018	287·0	293	283	277·2	30	2031	284·2	288	281	276·4
700	27	3138	277·9	282	274	266·3	29	3136	282·0	286	277	271·5	30	3136	278·9	284	274	262·5
600	26	4382	271·5	274	269	263·0	29	4397	275·4	281	272	264·6	30	4388	273·5	278	267	253·8
500	26	5812	263·1	266	260	..	29	5849	267·3	274	262	..	30	5827	264·4	270	260	..
400	25	7503	252·4	256	249	..	29	7564	256·3	261	251	..	30	7522	253·6	257	248	..
300	19	9572	239·1	243	234	..	27	9660	241·9	247	235	..	30	9607	239·6	244	230	..
250	13	10834	231·8	237	224	..	23	10920	231·0	240	222	..	30	10862	230·0	235	223	..
200	9	12344	224·5	227	220	..	21	12377	219·3	228	207	..	30	12331	218·5	226	209	..
175	6	13199	219·8	223	216	..	21	13233	212·7	223	201	..	30	13158	212·6	221	204	..
150	..	..	..	..	..	..	20	14200	205·6	218	194	..	29	14124	206·4	215	199	..
125	..	..	..	..	..	..	16	15265	200·3	208	192	..	29	15195	201·4	211	195	..
100	..	..	..	..	..	..	14	16600	197·4	205	191	..	28	16509	196·3	203	187	..
80	..	..	..	..	..	..	9	17919	201·5	209	195	..	26	17821	198.8	209	191	..
70	..	..	..	..	..	..	9	18718	203·0	216	193	..	23	18588	200·1	211	194	.
60	..	..	..	..	..	..	7	19607	207·4	219	198	..	18	19552	205·6	221	199	..
50	..	..	..	..	..	..	5	20686	212·6	222	204	..	17	20652	208·8	219	202	..
40	..	..	..	..	..	..	..	..	..	..	..	..	10	22062	209·3	214	206	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI (992 mb.)						PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)					
Surface	30	209	285·9	289	282	283·2	28	079	298·2	301	296	296·7	30	064	297·3	299	296	294·9
1000	30	136	..	..	..	..	28	097	..	..	..	..	30	079	..	..	..	..
900	30	1033	288·8	290	286	288·8	28	1015	293·1	296	291	291·3	30	999	292·8	295	290	287·0
850	30	1516	286·1	289	283	272·3	28	1506	290·0	293	287	288·0	30	1491	290·1	295	287	283·5
800	30	2019	282·6	286	278	268·8	28	2021	287·4	290	285	284·5	30	2008	287·0	289	285	281·0
700	30	3117	276·4	280	273	258·2	28	3139	282·1	285	277	276·7	30	3126	281·2	285	276	274·4
600	30	4351	269·0	273	264	..	27	4399	275·2	279	269	268·4	29	4386	274·2	277	271	265·7
500	30	5766	260·1	264	257	..	27	5848	266·3	270	261	..	28	5833	265·9	270	262	..
400	30	7430	248·7	254	242	..	27	7558	255·7	259	252	..	27	7541	255·6	261	250	..
300	29	9475	235·6	243	229	..	25	9655	240·5	245	233	..	23	9633	240·2	244	232	..
250	29	10714	228·4	237	220	..	22	10833	231·0	239	223	..	22	10890	229·4	236	221	..
200	28	12181	220·6	227	213	..	22	12400	218·7	232	210	..	21	12362	218·5	228	208	..
175	27	13040	216·6	223	211	..	20	13223	209·7	221	199	..	20	13208	213·3	220	203	..
150	27	14007	211·6	220	203	..	17	14182	203·6	212	197	..	18	14182	208·1	217	195	..
125	24	15119	208·0	214	200	..	15	15265	198·3	204	194	..	14	15293	202·9	209	195	..
100	20	16464	206·2	211	197	..	11	16555	195·8	205	191	..	12	16630	198·7	204	189	..
80	8	17855	209·6	213	206	..	9	17855	199·5	208	193	..	8	17916	200·7	205	194	..
70	7	18677	211·2	216	208	..	7	18654	200·2	210	194	..	7	18731	203·0	211	194	..
60	5	19596	212·0	217	210	..	6	19551	203·7	217	193	..	..	..	..	..	..	..
50	5	20736	214·6	218	211	..	5	20643	204·4	211	194	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	295·1	298	294	290·7
1000	30	118	..	..	..	..
900	30	1031	290·2	293	287	283·4
850	30	1518	287·4	290	283	279·9
800	30	2030	286·0	291	283	271·5
700	30	3145	281·7	286	278	263·4
600	30	4405	274·5	278	269	254·5
500	30	5850	265·6	271	261	..
400	30	7555	255·2	261	252	..
300	29	9650	240·5	245	234	..
250	29	10915	230·2	237	222	..
200	29	12377	218·0	227	206	..
175	26	13233	211·8	219	199	..
150	26	14167	204·8	213	193	..
125	24	15277	200·3	208	191	..
100	21	16575	198·1	211	189	..
80	16	17925	202·2	216	193	..
70	14	18693	204·0	210	191	..
60	13	19629	207·1	215	197	..
50	11	20771	210·0	217	203	..
40	5	22137	212·0	218	209	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November 1961 (Kartika 10—Agrahayana 9, 1883 Saka).

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. (1006 mb.)						ALLAHABAD (1003 mb.)						BANGALORE (909 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A				No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	30	055	303·9	306	301	303·9	27	098	297·2	300	290	286·7	30	921	297·1	299	294	288·9
1000	30	105	..	..	..	..	27	123	..	..	..	..	30	086	..	..	..	..
900	30	1031	294·0	299	290	280·9	27	1035	290·8	295	287	278·0	30	1012	296·4	299	293	285·5
850	30	1523	289·5	295	280	278·6	27	1521	287·3	291	284	272·6	30	1506	291·8	295	289	285·9
800	30	2036	285·6	291	279	276·3	27	2030	283·8	287	280	268·8	30	2023	287·6	291	285	282·8
700	30	3143	278·3	283	274	264·3	27	3130	278·2	283	276	259·3	30	3144	283·1	286	279	271·9
600	30	4389	271·9	276	267	256·9	27	4374	272·3	277	267	244·5	30	4409	276·2	279	274	262·1
500	30	5822	263·2	269	255	..	27	5807	263·5	269	259	..	30	5865	267·5	273	261	255·3
400	30	7506	251·1	257	244	..	26	7496	252·7	259	246	..	29	7584	257·2	265	253	..
300	28	9562	236·4	243	227	..	25	9572	239·8	245	233	..	26	9691	242·8	247	238	..
250	27	10604	226·1	233	218	..	24	10827	232·3	241	225	..	24	10959	232·6	239	227	..
200	21	12241	214·5	221	205	..	23	12312	223·4	232	218	..	23	12431	220·0	228	214	..
175	19	13070	208·6	215	199	..	21	13171	218·2	224	214	..	22	13267	212·2	221	208	..
150	18	13991	202·4	209	192	..	19	14161	213·1	219	207	..	21	14216	204·7	213	199	..
125	15	15052	197·3	203	193	..	15	15303	209·0	215	202	..	21	15280	198·1	206	191	..
100	13	16344	196·8	200	193	..	13	16637	205·3	211	197	..	19	16581	194·4	203	188	..
80	10	17665	202·1	208	196	..	10	17978	205·9	209	201	..	15	17918	196·6	203	192	..
70	8	18427	205·6	212	199	..	9	18784	208·5	214	203	..	14	18697	199·6	207	193	..
60	..	..	..	..	..	..	6	19647	212·0	214	210	..	13	19583	201·7	209	194	..
50	..	..	..	..	..	..	6	20988	215·3	217	213	..	11	20662	205·8	213	194	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1009 mb.)						CALCUTTA (1012 mb.)						GAUHATI (1007 mb.)					
Surface	30	013	303·5	307	302	292·7	30	006	297·7	301	295	290·8	30	049	295·1	300	291	292·2
1000	30	091	..	..	..	..	30	111	..	.	..	..	30	112	..	..	..	..
900	30	1022	296·6	300	293	285·4	30	1024	291·0	295	288	280·9	30	1021	289·9	294	286	285·3
850	30	1518	292·8	296	290	282·8	30	1513	288·2	293	284	275·6	30	1507	286·9	291	283	281·2
800	30	2037	288·9	292	285	279·0	30	2021	285·2	289	279	270·4	30	2016	283·6	288	279	277·8
700	30	3159	283·2	287	280	265·3	30	3130	280·0	288	276	261·2	30	3115	276·4	281	272	268·4
600	30	4427	276·6	280	273	255·5	30	4384	273·5	281	267	252·5	29	4349	269·4	273	265	259·4
500	30	5886	268·5	273	266	260·0	30	5825	265·1	271	258	249·6	29	5768	261·3	266	256	..
400	30	7610	258·2	263	255	258·2	30	7527	255·0	259	247	..	29	7446	251·3	258	245	..
300	29	9732	244·5	249	239	..	21	9644	242·2	250	235	..	20	9512	239·3	247	232	..
250	29	11015	236·0	241	229	..	16	10880	233·7	240	230	..	16	10768	230·5	235	225	.
200	28	12520	225·6	229	215	..	13	12447	223·2	231	219	..	14	12243	220·9	225	216	..
175	27	13383	219·3	224	209	..	12	13329	217·3	223	213	..	12	13090	216·4	220	209	..
150	25	14372	213·4	219	209	..	10	14271	210·1	219	206	..	9	14054	211·3	216	203	..
125	22	15504	207·0	214	201	..	7	15409	204·1	212	201	..	8	15165	208·0	215	197	..
100	17	16844	203·4	215	194	..	5	16749	197·2	200	194	..	..	..	..	..	..	..
80	8	18202	203·7	208	195	..	..	..	..	..	..	..	..	..	..	..	..	..
70	6	19046	208·5	212	203	..	..	..	..	..	..	..	..	..	..	..	..	..
60	6	20004	213·7	216	212	..	..	..	..	..	..	..	..	..	..	..	..	..
50	5	21152	217·0	219	215	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November 1961 (Kartika 10 —Agrahayana 9, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR Surf. Pr. (988 mb.)						MADRAS (1009 mb.)						NAGPUR (977 mb.)					
	No. of Obs.	Ht. gpm.	Temperature ° A				No. of Obs.	Ht. gpm.	Temperature ° A				No. of Obs.	Ht. gpm.	Temperature ° A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	28	218	300·6	304	297	278·9	29	015	299·7	301	297	294·5	30	311	299·8	302	296	286·2
1000	28	113	..	..	..	..	29	096	..	..	..	..	30	108	..	..	..	..
900	28	1036	294·0	298	290	276·4	29	1015	292·2	297	287	288·3	30	1032	294·0	297	291	280·5
850	28	1527	289·6	294	286	273·7	29	1505	289·5	293	285	283·3	30	1523	289·3	292	287	279·3
800	28	2040	285·5	290	282	270·7	29	2021	286·9	289	284	279·4	30	2036	285·1	289	282	276·0
700	28	3147	279·0	283	276	262·2	29	3138	281·2	286	279	271·9	30	3143	279·1	284	275	263·9
600	28	4395	272·3	276	268	255·7	29	4399	274·9	279	270	263·7	30	4395	271·2	277	269	250·4
500	27	5830	263·8	267	259	..	29	5850	266·7	269	263	..	30	5839	265·2	269	260	..
400	24	7528	252·7	259	543	..	29	7559	256·4	260	250	..	30	7538	253·9	257	249	..
300	17	9612	240·7	248	235	..	26	9656	241·3	247	232	..	30	9622	239·7	245	233	..
250	13	10867	232·9	238	227	..	26	10917	230·6	240	220	..	30	10883	230·5	236	227	..
200	11	12387	224·8	229	219	..	23	12392	218·2	225	207	..	30	12356	219·2	225	213	..
175	9	13276	220·1	225	214	..	22	13241	211·6	219	203	..	30	13203	213·2	219	206	..
150	6	14245	214·5	218	208	..	20	14186	207·0	218	199	..	30	14151	206·2	213	197	..
125	..	..	..	..	..	..	16	15256	200·2	207	191	..	30	15230	200·8	209	191	..
100	..	..	..	..	..	..	15	16554	196·4	204	189	.	30	16539	197·0	207	191	.
80	..	..	..	..	..	..	10	17860	197·9	210	191	..	27	17863	200·3	210	194	..
70	..	..	..	..	..	..	9	18642	199·0	208	193	..	25	18657	202·6	212	195	..
60	..	..	..	..	..	..	7	19514	201·9	211	195	..	22	19584	205·6	215	197	..
50	..	..	..	..	..	..	6	20567	207·3	215	198	..	19	20680	209·6	218	200	..
40	..	..	..	..	..	..	5	21960	210·0	217	200	..	9	22116	211·8	221	204	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI (990 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1000 mb.)					
Surface	30	209	296·2	290	292	285·7	30	079	299·6	301	297	297·0	30	064	301·1	303	296	296·2
1000	30	123	..	..	..	..	30	088	..	..	..	..	30	068	..	..	..	..
900	30	1031	290·5	294	288	277·3	30	1007	293·1	301	289	290·4	30	995	294·4	297	292	289·1
850	30	1514	287·0	291	285	272·9	30	1498	290·3	292	287	287·1	30	1489	291·2	294	289	285·6
800	30	2023	283·4	287	281	269·0	30	2014	287·6	290	285	283·0	30	2027	288·3	292	285	282·0
700	30	3120	276·6	280	273	258·8	30	3114	282·5	285	278	274·4	30	3131	282·2	285	279	274·8
600	30	4355	269·8	275	265	245·0	29	4397	275·0	279	270	267·7	28	4395	274·9	277	270	265·8
500	30	5774	261·2	267	257	..	29	5848	266·9	272	262	..	28	5846	267·1	271	262	..
400	30	7448	250·0	256	246	..	29	7561	256·5	264	252	..	27	7560	256·2	260	251	..
300	27	9502	236·1	241	227	..	28	9668	241·4	248	234	..	26	9659	241·2	246	232	..
250	25	10747	229·4	235	223	..	26	10924	230·0	241	218	..	25	10925	231·1	238	222	..
200	25	12219	221·9	228	216	..	24	12403	217·3	231	207	..	21	12389	219·1	226	210	..
175	23	13069	216·7	223	211	..	20	13225	209·0	219	198	..	19	13230	212·7	220	203	..
150	19	14024	211·7	219	206	..	18	14169	202·5	210	194	..	18	14194	206·2	214	195	..
125	16	15131	207·7	215	201	..	13	15270	198·3	205	192	..	15	15282	201·1	209	193	..
100	15	16494	206·1	213	199	..	9	16530	195·9	201	192	..	14	16600	197·3	206	193	..
80	10	17857	208·8	216	201	..	6	17879	199·2	207	190	..	11	17884	199·3	204	195	..
70	9	18670	209·7	216	202	..	..	..	..	..	..	..	8	18629	200·3	207	196	..
60	8	19626	211·5	217	205	..	..	..	..	..	..	..	6	19591	203·2	209	199	..
50	7	20782	216·7	222	211	..	..	..	..	..	..	..	..	..	..	..	..	..
40	5	22189	218·2	224	214	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

November 1961 (Kartika 10 —Agrahayana 9, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (.1008 mb.)					
	No. of Obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	30	041	299·2	301	297	291·8
1000	30	109	..	..	..	..
900	30	1026	291·4	294	287	284·7
850	30	1514	288·5	292	285	280·6
800	30	2027	286·1	290	282	275·0
700	30	3143	281·8	286	278	265·6
600	30	4405	275·2	281	271	260·0
500	29	5854	266·5	272	263	246·0
400	29	7561	255·6	261	249	..
300	29	9661	240·5	247	230	..
250	29	10921	230·4	238	221	..
200	27	12384	217·9	227	206	..
175	26	13210	211·8	220	202	..
150	26	14175	205·0	213	197	..
125	25	15249	199·2	206	189	..
100	23	16565	195·8	204	189	..
80	20	17875	200·1	210	189	..
70	19	18656	202·8	213	189	..
60	13	19562	204·8	217	191	..
50	12	20633	208·7	219	193	..
40	5	22036	213·6	219	208	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	.	..	..

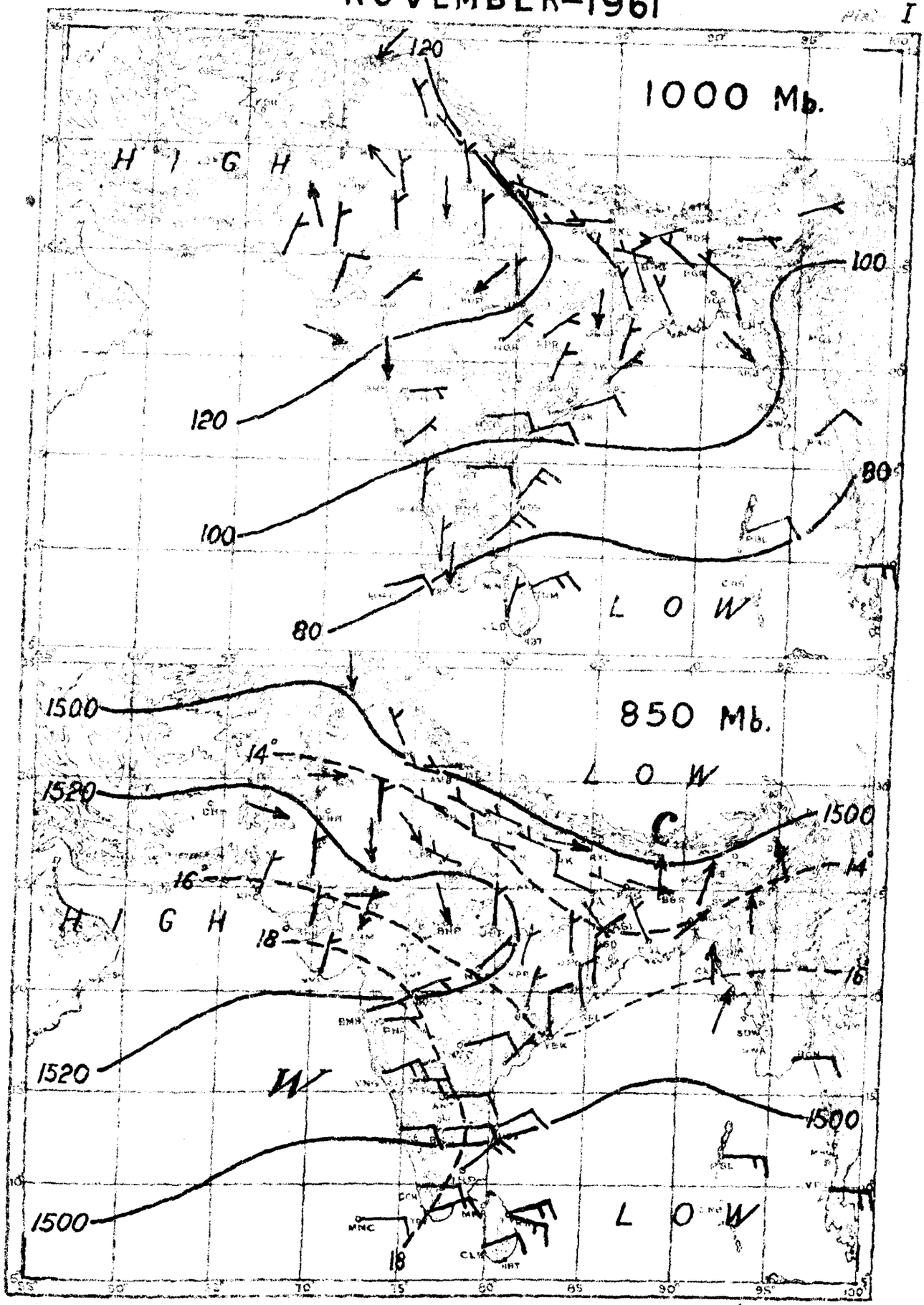
GIPN—S4—262 D. D. G. Obs. Poona/65—11-3-66- 260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

I. Met. D.

NOVEMBER–1961

Plate I



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

DAGE/2393(1):10:65

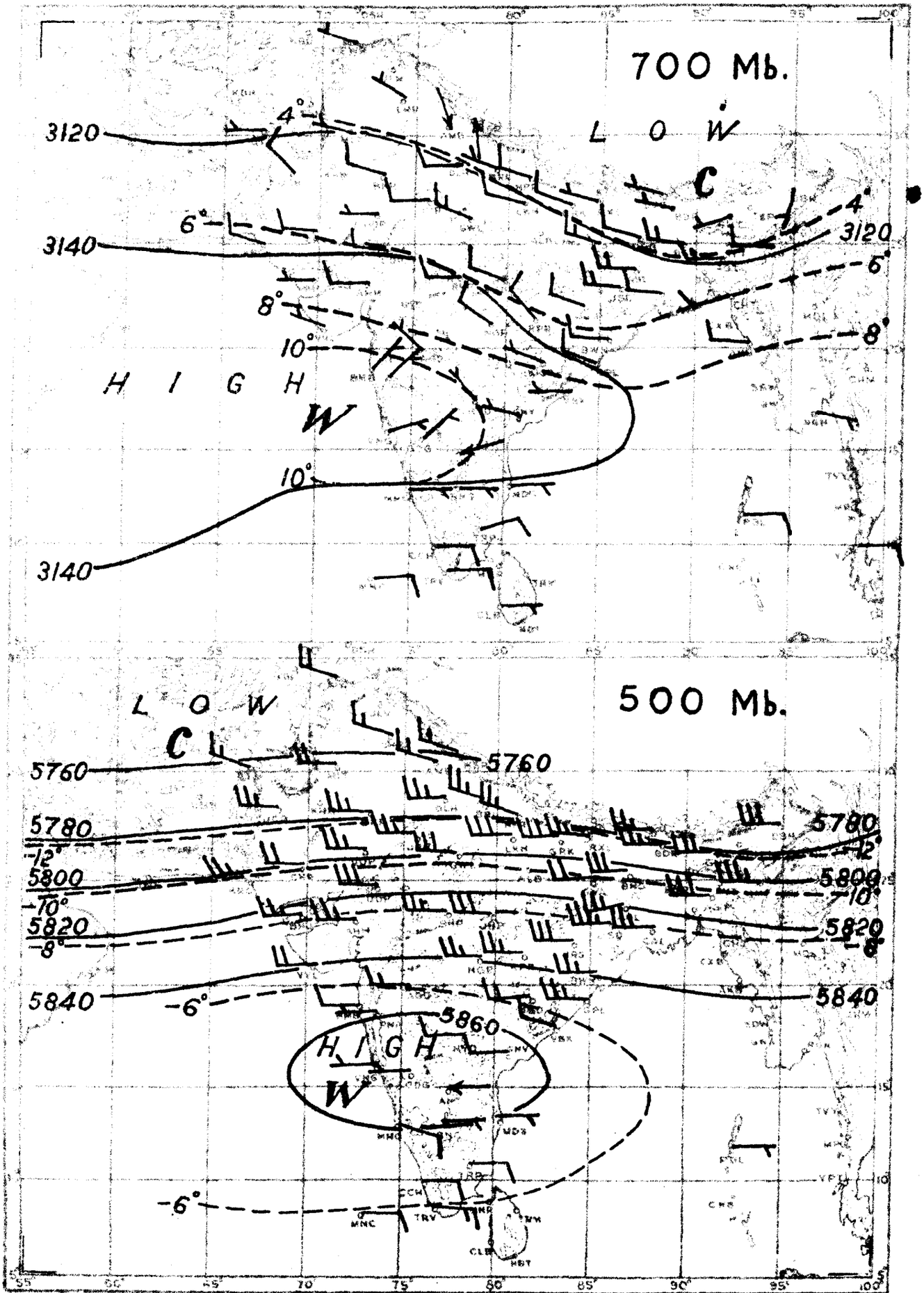
Isotherms in degrees centigrade ——— Contours in geopotential metres.

G.P.Z.P. POONA, 1966

MONTHLY MEAN CONSTANT PRESSURE CHARTS

NOVEMBER–1961

Plate II



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

Isotherms in degrees centigrade — Contours in geopotential metres.

DDCC/2393(11):10-65

G.P.Z.P. POONA, 1965

Registered No. MH-75

INDIA WEATHER REVIEW, 1961

Monthly Weather Report
December

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MAR 27 1967
E. S. S. A.
U. S. Dept. of Commerce

Published by authority of the Government of India

Chief feature :

An unusually long spell of moderate to severe cold wave conditions over Uttar Pradesh, Bihar State and north Madhya Pradesh, during the second half of the month in the wake of an active western disturbance that moved across the country between 17th and 20th.

The low pressure wave from the east that was passing westwards across the Comorin area on 30th November, moved westwards, across the Laccadive Maldive area on 1st December. It weakened and became unimportant on 2nd. Under its influence, northeast monsoon rains revived over the south Peninsula. Rain or thundershowers were fairly widespread in the Madras State and occurred locally in Kerala on 1st, Alleppey reporting 7 cm and Kodaikanal 6 cm of rain. In association with an upper air trough that developed over the southeast Bay of Bengal on the evening of 1st and moved westwards across the south Peninsula on 3rd, fairly widespread rain occurred in the south Madras State on 4th and in the Madras State and Kerala on 5th. Nagapattinam reported 10 cm of rain and Vedaranyam 8 cm on 4th and Kodaikanal 11 cm and Tuticorin and Coonoor 9 cm each on 5th. Scattered showers occurred in the Madras State on most of the days between 8th and 15th. Weather remained mainly dry over the south Peninsula during the second half of the month.

A trough in the low level easterlies extending from the north Konkan to east Uttar Pradesh developed on 9th and persisted over the central parts of the country till 15th. Under its influence, moist air from the Bay of Bengal penetrated inland and a few showers occurred over the central parts of the country between 10th and 12th. Seoni reported 4 cm of rain on 11th and Mandla 3 cm on 12th. Scattered thundershowers occurred in Maharashtra State on 21st and 22nd in association with a feeble upper air trough which extended from the Konkan to southwest Madhya Pradesh.

Rainy weather prevailed over the south Bay Islands during the month but for a break between 7th and 16th. The rainfall extended to the north Bay Islands also between 23rd and 27th. A few heavy rainfall amounts reported were Kondul 6 cm on 17th, Car Nicobar 9 cm on 25th, Long Island 7 cm each on 26th and 27th and Kondul 7 cm on 30th.

An active western disturbance lay over Baluchistan on 15th and the Punjab (I) on 17th. It moved into the Nepal Himalayas by 18th and then moved eastwards across Assam by 20th. An induced low developed over east Rajasthan on 17th. It moved into northeast Madhya Pradesh on 18th and later moved away across Assam by 20th. In association with these two systems, rain or snow was fairly widespread in the Punjab (I) and Himachal Pradesh on 17th and 18th and in Uttar Pradesh on 18th and occurred locally in Jammu and Kashmir on 17th and 18th. Local or scattered showers also occurred in Madhya Pradesh between 17th and 19th and in Bihar State on 18th and 19th. The chief amounts of rainfall reported were : Joshimath 7 cm on 17th and Dehra Dun 5 cm and Najibabad, Roorkee, Munsyari, Simla and Dharchula 4 cm each on 18th. According to press reports, Mussoorie and some other hill stations were temporarily cut off from the plains due to blocking of roads by heavy snowfall.

Another feeble western disturbance moved into Baluchistan on 28th evening. It lay as a sea level low over the northern divisions of West Pakistan on 30th and moved away across Jammu and Kashmir on 31st. Under its influence, a few showers of rain or snow occurred in Jammu and Kashmir on 31st.

Night temperatures were generally below normal over north India during the first half of the month. They were appreciably so in Rajasthan on 6th and 7th. The area over which minimum temperatures were apparently below normal shifted eastwards to east Uttar Pradesh and Bihar State

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J — 572 D.I.G. Obs. Poona/65.

on 8th and Gangetic West Bengal on 9th. Ahead of the western disturbance, temperatures started rising on 16th and became appreciably above normal in Uttar Pradesh on 18th. However, in the wake of the disturbance cold continental air spread over north India. Extensive morning fog and moderate to severe cold wave conditions with night temperatures 6 to 8°C below normal and day temperatures 8 to 12° C below normal were experienced at a number of places in Uttar Pradesh, Bihar State and north Madhya Pradesh between 21st and 28th. Temperatures fell below the freezing point at a number of places resulting in the bursting of water mains. According to press reports, more than 700 people died in Uttar Pradesh and Bihar State as a result of this cold wave. There was also considerable damage to crops. Air Services to and from Delhi were dislocated due to extensive foggy conditions. The unique feature of this cold wave was its persistency over large areas and for long period.

Night temperatures were nearly normal over the south Peninsula during the month. They were generally above normal over the north Peninsula except during the last week when they were normal or below normal.

The rainfall for the month was in large excess in Bihar Plains, Uttar Pradesh, east Madhya Pradesh and the Arabian Sea Islands and normal in Bihar Plateau and the Punjab (I). It was in slight defect in west Madhya Pradesh, the Madras State and Kerala, in moderate defect in Assam, Orissa, Jammu and Kashmir, west Rajasthan, Gujarat Region, Madhya Maharashtra, Marathwada and Vidarbha and in large defect in the Bay Islands, West Bengal, east Rajasthan, the Konkan, coastal Andhra Pradesh, and the Mysore State. There was no rain over the rest of the country outside Himachal Pradesh.

The mean maximum temperature was above normal in the Bay Islands, below normal in West Bengal, Orissa, Bihar State, Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan, Madhya Pradesh and normal over the rest of the country outside Himachal Pradesh. The mean minimum temperature was below normal in West Bengal, Orissa, Bihar State, Uttar Pradesh, the Punjab(I), Jammu and Kashmir, Rajasthan, Madhya Pradesh, Saurashtra and Kutch and normal over the rest of the country outside Himachal Pradesh.

The mean relative humidity in the morning was above normal in the Bay Islands, west Uttar Pradesh, the Punjab(I), east Rajasthan, north Interior Mysore and the Arabian Sea Islands, below normal in Assam and Jammu and Kashmir and normal over the rest of the country outside Himachal Pradesh.

The mean cloud amount in the morning was above normal in Sub-Himalayan West Bengal, Bihar Plains, Uttar Pradesh, east Rajasthan, west Madhya Pradesh, the Maharashtra State, Rayalaseema, the Madras State, coastal and north Interior Mysore, Kerala and the Arabian Sea Islands, below normal in Gangetic West Bengal, Orissa, Bihar Plateau and coastal Andhra Pradesh and normal over the rest of the country outside Himachal Pradesh.

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

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

R. ANANTHAKRISHNAN
for *Director General of Observatories.*

Poona 5,
The 29th January 1962.

Errata to M.M.R. for December 1961 (Agrahayana 10 - Pausa 10, 1883 Saka).

Page No.	Station	Hour	Column	For	Read
Table I Sub-Division					
631	29 Interior Mysore (South)		7	(Not clear)	45
Table II					
632	Calcutta		11	(Blank)	0
632	Jharsuguda		12	+	+9.8
[illegible]	Keonjhargarh		10	(Blank)	0
[illegible]	Nagpur		20(b)	...	1
[illegible]	Jaipur (Sanganer)		4	25.3	25.8
[illegible]	Bhagalpur		16	-0.6	-0.4
[illegible]	Bombay		13	-0.1	-1.0
636	Madras		7	+0.6	+0.4
636	Hanamkonda		28	3	0
637	Vellore		19	+4.	+4.3
637	Tiruchchirappalli		16	-2.1	-2.5
637	(Foot note)		-	(g)Mean of 30 days.	(a)Mean of 30 days.
638	Lachen		8	6.4	-6.4
638	Lachung		21	0	9
638	Kalimpong		5	8 days	...
638	Bokaro		5	...	8 days
638	Ramgarh		14	28	18
638	Panchet Hills		11	..	0.2
638	Tehri		10	27.3	37.8
638	Nuwakot		11	1	21.2
Addenda to Table II					
November					
640	Minicoy		18	6.5	5.6
Table III					
641	Long Island	1730	5	007.5	1007.5
641	Jorhat (Aerodrome)	1130	13	2.3	2.8
641	Gauhati	0830	2	5	55
642	Jalpaiguri	0830	21	(Blank)	0
642	Jalpaiguri	1730	20	(Blank)	0
642	Asansol	0830	25	3	6
642	Calcutta (Dum Dum)	0230	9	10.2	10.3
642	Calcutta (Alipore)	0830	24	1	0
642	Midnapore	0830	14	+1.0	-1.0
642	Contai	0830	24	9	0
643	Jharsuguda	0830	12	-5	+5
643	Angul	0830	3	13	139
643	Titlagarh	0830	9	17.7	17.6
643	Chaibasa	1730	21	(Blank)	0
643	Bhagalpur	1130	13	3.6	2.6
646	Varanasi (Babatpur)	1130	11	63	53
646	Dehra Dun	0530	21	1	0
646	Aligarh	0830	13	(Blank)	3.2
646	Mainpuri	0830	11	7	77
646	Mainpuri	0830	25	13	10
646	Agra (Aerodrome)	1730	9	6.0	6.8
646	Agra (Aerodrome)	2330	24	2	2
646	Jhansi	0830	15	5.3	0.3
646	Jhansi	0830	28	(Blank)	0
646	Jhansi	1730	1	1515.6	1015.6
646	Jhansi	1730	28	(Blank)	0
647	Palam (Aerodrome)	2330	11	(Blank)	82
648	Loh	0830	8	13.5	-13.5
648	Loh	1730	5	66.2	661.2
648	Loh	1730	8	10.8	-10.8
648	Bandhal	0830	14	+1.1	..
648	Muktbao	1730	20	(Blank)	4
648	Manabao	1730	28	0	1

...2

Page No.	Station	Hour	Column	For	Read
649	Pilani	0830	8	5.0	5.9
649	Erinpura (Jawai Dam)	0830	3	395	295
650	Ratlam	1730	24	0	2
650	Bhopal (Bairagarh)	0230	24	2	0
650	Bhopal (Bairagarh)	1130	24	0	1
650	Bhopal (Bairagarh)	1730	24	1	2
650	Bhopal (Bairagarh)	2330	24	2	0
650	Hoshangabad	1730	24	0	1
650	Indore	0530	24	1	3
650	Sidhi	1730	20	9	0
650	Umaria	1730	5	971.7	961.7
650	Umaria	1730	20	0	10
[illegible]	Jabalpur	0530	22	18	8
[illegible]	Jabalpur	0830	22	3	13
[illegible]	Ambikapur	0830	20	4	7
[illegible]	Pendra	0830	6	..	-0.9
[illegible]	Pendra	0830	20	..	3
650	Raipur	1130	27,28	0,0	2,1
650	Raipur	1730	5	79.4	979.4
650	Raipur	1730	7	2.2	22.2
651	Deesa	0830	7	25.3	13.3
651	Deesa	1730	7	13.8	25.3
651	Radhanpur	0830	7	13.7	13.8
651	Radhanpur	1730	17	1	0
651	Idar	0830	17,18	0,24	1,27
651	Idar	1730	13	1.5	1.6
651	Idar	1730	22	5	0
651	Ahmadabad	0530	5	1017.3	1007.3
651	Ahmadabad	2330	5	1008.5	1008.0
651	Dohad	0830	10	8.2	8.5
651	Baroda (Aerodrome)	1130	15	11.9	11.8
651	Baroda (Aerodrome)	1730	24	2	0
651	Baroda	0530	4	1013.5	1013.4
651	Baroda	1130	24	0	1
651	Baroda	1730	10	13.7	13.8
651	Baroda	1730	24	1	0
651	Baroda	2330	7	17.5	17.4
651	Surat	1130	8	15.3	18.8
651	Bhutakia Bhimasar	0830	21	3	0
651	Bhutakia Bhimasar	1730	21	0	3
[illegible]	Jamnagar	1730	7	23.3	25.3
[illegible]	Bhuj (Rudramata)	1130	20	12	17
[illegible]	Bhuj (Rudramata)	1130	22	0	3
[illegible]	Bhuj (Rudramata)	1730	22	3	0
[illegible]	Kandla (Aerodrome)	1130	27	9	0
[illegible]	Surendranagar	0830	27	(Blank)	3
[illegible]	Surendranagar	1730	27	(Blank)	1
[illegible]	Jamnagar (Aerodrome)	0530	27	(Blank)	0
652	Ratnagiri	1730	25	1	4
653	Poona	1730	27	22	23
653	Baramati	0830	11	51	61
653	Kolhapur	0830	12	+3	-3
653	Aurangabad	0830	12	+1	-1
653	Aurangabad (Chikalthan)	2330	10	16.7	10.7
653	Aurangabad (Chikalthan)	2330	13	2.0	0.7
653	Aurangabad (Chikalthan)	2330	22	1	0
653	Bhir	1730	5	963.5	953.5
653	Bhir	1730	25	6	0
653	Nagpur (Sonegaon)	0830	19	(Blank)	11

...3

Page No.	Station	Hour	Column	For	Read
652	Amraoti	0830	21	0	9
653	Amraoti	1730	26	6	4
654	Akola Aerodrome	2330	8	2.7	12.7
654	Akola Aerodrome	2330	13	0.0	0.9
654	Akola	1130	8	10.0	16.0
654	Chanda	1730	5	909.9	989.9
654	Sironcha	1730	4	1011.9	1012.2
654	Nellore	1130	7	28.3	27.3
654	Hakimpet (Aerodrome)	0530	17	0	1
654	Hakimpet (Aerodrome)	0830	7	18.7	18.1
655	Hyderabad (Begampet)	0530	2	1530	0530
655	Khammam	1730	19	1	3
655	Mahabubnagar	0830	19	3	0
655	Anantapur	1730	2	1370	1730
655	Madras (Minambakkam)	0230	2	2330	0230
655	Madras (Minambakkam)	2330	5	1010.9	1011.9
655	Cuddalore	0830	24	9	0
655	Coimbatore (Pilamedu)	1730	28	(Blank)	0
655	Coimbatore	0830	2	0808	0830
656	Tiruchchirappalli	0230	2	0830	0230 (correct the spelling of station name)
656	Vedaranniyam	0830	26,27	0,6	6,0
656	Vedaranniyam	1730	26,27	1,1	0,0
656	Madurai Aerodrome	0530	27	0	1
656	Pamban	0830	28	7	0
656	Pamban	1730	28	2	0
656	Tuticorin	1730	10	22.9	27.9
656	Honavar	0830	23	2	0
656	Mangalore (Bajpe)	0230	25	(Blank)	0
656	Mangalore (Bajpe)	1130	15	4.7	11.7
656	Bidar	0830	14	+0.9	-0.9
656	Belgaum	1730	28	0	1
656	Belgaum (Samra)	1130	15	11.8	4.8
656	Gadag	1730	28	..	0
657	Bellary	0830	15	8.7	6.7
657	Chitradurga	0830	5	932.6	932.0
657	Agumbe	0830	3	"	(3)
657	[illegible] Calicut	2330	19	5	4
657	Alleppey	0830	1	(Not clear)	Alleppey
657	Trivandrum	1130	26	4	3
657	Trivandrum	2330	8	28.3	23.3
657	Dalhousie	0830	6	0.8	-0.8
657	Dalhousie	1730	28	0	1
658	Simla	0830	12	23	+23
658	Mussoorie	0830	9	6.2	-6.2
658	Ootacamund	0830	2	8030	0830
658	Kodaikanal	1130	21	1	7
658	Katmandu	0830	21	(Blank)	1
658	Bokaro	0830	18	25	26
659	Hirakud	1130	8	15.1	15.7
659	Hirakud	1730	8	15.7	15.1
659	Bagra Tawa	0830	7	13.4	14.3
660	Mallungchung Gola	0830	2	† 0830	†† 0830
660	Taplejung	1730	7	8.4	8.8
660	Foot note	-	-	†Observations for 29 days	††Observations for 29 days.

[illegible]	Station	Hour	Column	For	Radd
[illegible] to table III					
[illegible]					
361	Minicoy	2330	3	4	,,
[illegible]					
[illegible]	Minicoy	1730	13	8.2	5.2
Jan.					
[illegible]	Amini	0830	7	27.8	26.8
	Minicoy	1130	7	24.4	28.4
Table III(A)					
664	Gohpur	June	N	21.6	21.1
664	Jorhat (Aerodrome)	May	X	38.8	37.8
664	Tangla	July	X	36.7	37.6
664	Tangla	July	N	20.7	20.9
666	Gauhati	July	N	(Not clear)	20.6
668	Krishnanagar	July	X	(Not clear)	37.2
669	Calcutta (Dum Dum)	Oct.	R	(Not clear)	150.2
669	Baripada	Aug.	R	(Not clear)	198.2
670.	Chandbali	Jan.	R	(Not clear)	35.1
670	Chandbali	Jan.	N	-do-	1934
670	Chandbali	Feb.	X	-do-	1934
670	Chandbali	Apr.	N	-do-	1943
670	Bolangir	Feb.	R	-do-	53.2
670	Titlagarh	Mar.	X	-do-	42.2
670	Titlagarh	Jul.	R	-do-	255.3
670	Titlagarh	Mar.	N	-do-	1952
[illegible]	Bhubaneshwar	Mar.	N	-do-	1952
[illegible]	Bhubaneshwar	Apr.	R	-do-	1952
[illegible]	Puri	Feb.	R	-do-	107.9
[illegible]	Puri	Jul.	R	-do-	301.5
[illegible]	Gopalpur	Feb.	R	-do-	134.4
670	Koraput	Feb.	X	-do-	31.7
[illegible]	Koraput	Mar.	R	-do-	35.6
[illegible]	Dumka	Feb.	X	-do-	36.1
670	Dumka	Jun.	R	70.9	170.9
670	Dumka	Jul.	R	46.3	146.3
670	Dumka	Jun.	X	(Not clear)	1924
670	Daltonganj	Feb.	X	-do-	35.6
670	Daltonganj	Jun.	R	74.0	174.0
670	Daltonganj	Jul.	R	(Not clear)	290.8
670	Dalgonganj	Jan.	N	..	1923
670	Hazaribagh	Feb.	X	(Not clear)	33.3
670	Dhanbad	Feb.	X	3.9	33.9
670	Dhanbad	Mar.	R	(Not clear)	16.3
670	Ranchi	Feb.	X	-do-	33.9
670	Ranchi	May	R	04.7	104.7
670	Ranchi	Jun.	R	65.6	165.6
670	Ranchi Aerodrome	Feb.	X	(Not clear)	33.3
670	Jamshedpur	Jan.	X	-do-	31.2
670	Jamshedpur	Apr.	R	-do-	32.3
670	Jamshedpur (PHO)	May	R	-do-	38.1
670	Jamshedpur (PHO)	Jul.	R	87.5	187.5
670	Chaibasa	Feb.	X	7.2	37.2
670	Chaibasa	Jun.	R	31.3	131.3
670	Motihari	Feb.	N	..	1905

Page No.	Station	Hour	Column	For	Read
671	Forbesganj	Sep.	R	(Not clear)	228.6
672	Purnea	Mar.	R	1850	1950
672	Nautanwa	Jun.	R	82.6	182.6
672	Gonda	Jun.	R	12.7	127.8
672	Lucknow (Amausi)	Jun.	R	(Not clear)	179.1
672	Lucknow (Amausi)	Jun.	X	1963	1953
674	Bareilly	Feb.	N	..	1905
675	Dehra Dun	Dec.	N	..	1954
676	Ambala	Mar.	N	3.6	3.9
676	Ambala	Feb.	R	1893	1898
676	Ambala	Apr.	R	(Not clear)	1935
676	Patiala	Mar.	R	(Not clear)	27.4
676	Patiala	Jun.	N	(Not clear)	19.4
676	Karnal	Jul.	X	(Not clear)	1959
676	Hissar	Jan.	N	3.9	-3.9
676	Palam	Apr.	R	196	1960
676	Mandi	Jul.	R	41.8	141.8
677	Ferozepur	Sep.	R	(Not clear)	209.6
677	Ferozepur	Oct.	R	..	1955
678	Leh	Jan.	N	(Not clear)	-28.3
678	Srinagar	Jun.	X	37.2	37.8
678	Ganganagar	Apr.	R	(Not clear)	22.3
678	Ganganagar	May	X	(Not clear)	46.1
678	Bikaner	Jun.	[illegible]	10.7	110.7
680	Ajmer	Jan.	R	46.6	46.5
681	Nimach	Aug.	R	136.0	186.0
684	Naliya	Jun.	N	23.3	23.0
684	Rajkot	Station		(Not clear)	Rajkot
685	Jagdalpur	Nov.	X	33.0	33.3
686	Veraval	Jul.	N	(Not clear)	20.4
686	Veraval	May	N	-do-	1909
686	Dahanu	May	N	-do-	20.6
686	Bombay (Santacruz)	May	N	-do-	20.6
686	Bombay	Apr.	X	-do-	40.6
686	Bombay	Apr.	N	-do-	20.0
686	Bombay	Jun.	R	-do-	408.9
686	Bombay	Apr.	N	-do-	1905
686	Alibag	Apr.	X	-do-	40.0
686	Alibag	Apr.	N	-do-	1937
686	Alibag	Jul.	N	1959	1949
686	Ratnagiri	Jul.	N	20.5	20.6
686	Ratnagiri	Jul.	X	(Not clear)	1900
686	Devgarh	Apr.	N	-do-	20.6
686	Devgarh	Jun.	R	-do-	276.0
686	Vengurla	Apr.	N	-do-	20.5
686	Nandurbar	May	R	-do-	76.2
686	Malegaon	Jul.	R	1996	1896
688	Poona	May	X	(Not clear)	43.3
688	Sholapur	Apr.	N	13.0	13.9
689	Poona	Oct.	X	(Not clear)	1899
689	Poona	Oct.	R	-do-	1892
689	Poona	Dec.	X	1996	1896
689	Miraj	Temp.	-	1831	1931
689	Miraj	Rain-fall	-	1831	1931
689	Miraj	Aug.	R	(Not clear)	150.9
689	Aurangabad	Sep.	X	36.6	36.7
689	Aurangabad	Dec.	N	(Not clear)	1902
689	Aurangabad (Chikalthan)	Nov.	X	33.6	33.4

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Page No.	Station	Hour	Column	For	Read
689	Yeotmal	Sep.	R	210.6	210.3
690	Chanda	Mar.	X	44.2	44.4
690	Sironcha	Apr.	X	44.2	44.7
690	Nellore	Feb.	R	196.8	116.8
691	Nidadavole	Nov.	R	1967	1957
691	Masulipatam	Nov.	R	335.6	355.6
691	Nellore	Sep.	X	41.7	41.1
692	Cuddapah	May	N	1826	1896
693	Cuddapah	Dec.	N	10.7	10.6
693	Arogyavaram	Aug.	N	(Not clear)	1958
694	Kanniyakumari	Feb.	N	22.4	22.1
696	Bangalore	Jul.	N	19.1	16.1
696	[illegible] Calicut	Jul.	X	32.1	32.2
696	Fort Cochin	Feb.	X	34.9	34.0
696	Fort Cochin	Jul.	X	32.7	32.1
696	Dharmsala	Jan.	X	21.1	21.2
697	Balehonnur	Dec.	X	30.3	30.0
697	Lokpal	Nov	N	12.1	-12.2
698	Joshimath	Apr.	R	(Not clear)	37.5
698	Mussoorie	Feb.	N	6.7	-6.7
698	Nainital	Apr.	R	1963	1953
698	Kalimpong	May	X	30.5	30.9
699	Anjal	Nov.	R	86.3	86.0
700	Konar	Jul.	R	34.6	134.6
700	Maithon	Jul.	R	(Not clear)	53.6
701	Lachen	Oct.	X	1959	1961
702	Daroi	May	N	22.5	20.2
702	Daroi	May	N	1960	1961
702	Tehri	May	X	(Not clear)	1960
702	Timure	May	X	30.7	30.9
702	Nuwakot	Feb.	X	(Not clear)	27.0
702	Nuwakot	Jun.	X	(Not clear)	1960
702	Mansiari	Mar.	X	(Not clear)	20.7
702	Dadeldhura	Apr.	R	(Not clear)	1957
703	Chautara	Nov.	N	1958	1961
704	Chainpur	Mar.	N	1953	1960
704	Brahakshetra	Feb.	X	31.6	31.7
704	Gangtok	Jan.	R	63.6	63.3
705	Bhojpur	Nov.	N	1957	1961

Page No.	Station	Time In I.S.T	Height in Km.	Entry under column	Existing entry	Correct entry
707	Trivandrum	2330	-	Apprxoximate time of flight	233	2330
711	Begumpet	2330	3.6	D	294	284
711	Bhagalpur	1730	6.0	v	23.9	23.8
713	Darjeeling	1730	4.5	D	288	278
713	Dum Dum	1130	9.0	n	12	2
714	Gopalpur	1730	4.5	v	13.7	13.0
714	Gopalpur	1730	4.5	D	268	269
715	Gwalior	0530	4.5	v	15.5	15.1
715	Gwalior	1130	6.0	V	2,8	22.8
715	Gwalior	1730	5.4	v	18.0	19.0
720	Santacruz	2330	3.6	D	272	275
721	Index Column	-	0.3	-	a. s.l.	a.m.s.l
722	Minicoy	1730	12.0	n	2	1
723	Trivandrum	1730	21.0	D	162	262
725	Bangalore	Column headings for temperature Min				Max.
725	Bangalore	Column headings for temperature Max				Min.
725	Bombay	00 GMT	Surface mean		2991.	291.9
726	Madras	00 GMT	70 mb.	Ht. gpm	18634	18624
726	New Delhi	00 GMT	400 mb	No.ofobs.	0	30
729	Nagpur	12 GMT	600 mb.	Dew Point	233.3	235.3

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division								
1. Assam (Including Manipur, Tripura)	5·2	55	23·4	9·7	81	72	2·1	2·1
	−4·3		−0·5	−0·7	−6		−0·3	
2. West Bengal	0·5	14	23·4	10·6	71	59	0·8	0·9
	−3·0		−2·4	−2·1	−1		−0·5	
3. Orissa	2·6	57	24·9	12·1	67	54	0.8	1·3
	−2·0		−2·0	−1.8	−5		−0·7	
4. Bihar	7·6	173	21·8	8·1	72	61	1·6	1·0
	+3·2		−2·6	−2·2	−1		+0·4	
5. Uttar Pradesh	16·3	177	20·2	6·3	80	60	2·4	1·9
	+7·1		−3·5	−2·0	+6		+1·1	
6. Punjab (India) (Including Himachal Pradesh and Delhi)*	17·7	109	20·0	4·7	79	56	2·0	2·3
	+1·4		−2·2	−1·8	+6		−0·1	
7. Jammu and Kashmir.	9·9	52	2·9	−8·3	63	49	4·3	3·5
	−9·3		−2·5	−1·7	−11		−0·5	
8. Rajasthan	2·1	40	23·6	6 7	63	34	1·5	1·6
	−3·1		−1·6	−2·1	+4		−0·1	
Sub-Division								
1. Bay Islands	83·3	41	29·8	23·2	77	81	5·0	5·8
	−117·9		+1·1	+0·5	+6		+0·8	
2. Assam (Including Manipur, Tripura).	5·2	55	23·4	9·7	81	72	2·1	2·1
	−4·3		−0·5	−0·7	−6		−0·3	
3. Sub-Himalayan, West Bengal.	1·2	43	22·0	9·4	79	72	1·5	1·4
	−1·6		−3·0	−1·6	+2		+0·4	
4. Gangetic, West Bengal.	0·2	5	23·8	10.9	69	56	0·6	0·7
	−3·6		−2·2	−2·3	−2		−0·7	
5. Orissa	2·6	57	24·9	12·1	67	54	0·8	1·3
	−2·0		−2·0	−1.8	−5		−0·7	
6. Bihar Plateau	5·3	93	22·4	8·0	68	57	1·0	0·9
	−0·4		−2·0	−2·1	−1		−0·3	
7. Bihar Plains	9·0	243	21·2	8·3	76	66	2·1	1·1
	+5·3		−3·2	−2·2	−1		+1·1	
8. Uttar Pradesh (East).	12·1	181	20·3	6·7	82	62	2·7	1·8
	+5·4		−3·8	−2·0	+5		+1·5	
9. Uttar Pradesh (West).	22·0	173	20·0	5·8	77	57	2·1	2·0
	+9·3		−3·1	−2·0	+6		+0·6	
10. Punjab (India) (Including Delhi).	17·7	109	20·0	4·7	79	56	2·0	2·3
	+1·4		−2·2	−1·8	+6		−0·1	
11. Himachal Pradesh	52·0		17·7	1·6	97	59	3·6	3·2
	..		..	..	..		..	
12. Jammu and Kashmir.	9·9	52	2·9	−8·3	63	49	4·3	3·5
	−9·3		−2·5	−1·7	−11		−0·5	
13. Rajasthan (West)	3·1	63	24·1	7·2	57	29	1·4	1·3
	−1·8		−1·2	−1·6	−3		−0·3	
14. Rajasthan (East)	0·9	16	23·0	6·3	69	38	1·6	1·9
	−4·6		−1·9	−2·5	+11		+0·3	
15. Madhya Pradesh (West).	6·3	87	24·1	8·2	63	43	2·0	2·1
	−0·9		−2·0	−1·7	+1		+0·5	

	Rainfall (millimetres)	Percentage of normal	Mean maximum temperature °C	Mean minimum temperature °C	Relative humidity % 0830 hrs. I.S.T.	Relative humidity % 1730 hrs. I.S.T.	Cloud 0830 hrs. I.S.T.	Cloud 1730 hrs. I.S.T.
1	2	3	4	5	6	7	8	9
Division—*Contd.*								
9. Madhya Pradesh	10·6	161	24·1	8·4	67	45	1·8	1·9
	+4·0		−1·9	−1 5	+1		+0·3	
10. Gujarat State	0·2	15	28·6	12·7	59	38	1·1	1·1
	−1·1		−0·8	−1·0	+1		−0·2	
11. Maharashtra State	2·4	49	29·2	15·1	64	43	2·3	2·6
	−2·5		−0·2	+0·3	+2		+0·7	
12. Andhra Pradesh	1·0	7	28·2	16·8	73	53	2·3	2·4
	−12·7		−0 6	+0·1	0		−0·2	
13. Madras State	88·6	78	28·4	20·9	79	67	5·0	5·0
	−24·8		−0·4	−0·1	−1		+1·1	
14. Mysore	0·7	8	29·3	17·0	72	46	3·2	3·8
	−7·8		+0.3	+0·5	+4		+0·8	
15. Kerala	35·8	81	31·6	23·0	73	66	4·3	4·3
	−8·5		+0·7	+0·4	−4		+1·0	
Sub-Division—*Contd.*								
16. Madhya Pradesh (East).	16·1	282	24·0	8·7	72	48	1·5	1·8
	+10·4		−1·9	−1·4	0		0	
17. Gujarat Region	0.5	50	29 9	12·5	62	35	1·0	0·9
	−0·5		−0·8	−0·5	−1		−0·2	
18. Saurashtra and Kutch.	0	0	27·7	12·8	57	40	1·2	1·2
	−1·5		−0·8	−1·3	+2		−0·2	
19. Konkan	0·1	5	30·8	19 8	70	60	2·3	2·3
	−1·9		+0·3	+0·5	+4		+0·7	
20. Madhya Maharashtra	3·0	56	29·7	13·5	62	36	2·3	3·0
	−2·4		+0·2	+0·6	+1		+0·8	
21. Marathwada	3·8	64	28·7	13·4	55	35	2·3	3·0
	−2·1		−0·3	+0·5	−1		+0·5	
22. Vidarbha	3·6	51	27·4	13·1	64	41	2·3	2·2
	−3·4		−1·0	−0·3	+2		+0·7	
23. Coastal Andhra Pradesh.	2.2	11	27 7	17·6	72	62	1·9	2·6
	−18·3		−0·7	−0·8	−2		−0·7	
24. Telangana	0	0	28·2	15·4	74	46	2·3	1·7
	−5·9		−0·7	+1·0	+4		+0·2	
25. Rayalaseema	0	0	29·4	17 6	72	43	2·9	3·1
	−11·0		−0·3	+0·4	− 1		+0·5	
26. Madras State	88·6	78	28·4	20·9	79	67	5·0	5·0
	−24.8		−0·4	−0·1	−1		+1·1	
27. Coastal Mysore	1·4	18	33 0	20·7	66	58	3·7	3·6
	−6·5		+0·8	0	0		+1·2	
28. Interior Mysore (North)	0·1	2	29·0	16·1	69	42	2·5	3·4
	−6·3		+0·1	+0·5	+7		+0·8	
29. Interior Mysore. (South)	0·9	9	27·9	16·2	77	45	3·7	4·4
	−9·5		+0·3	+0·8	+4		+0·6	
30. Kerala	35·8	81	31 6	23·0	73	66	4·3	4·3
	−8·5		+0·7	+0·4	−4		+1·0	
31. Arabian Sea Islands	93·9	152	31·1	23·5	79	71	5·9	6·0
	+32·1		+1·0	+0·1	+8		+2·8	

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

*Data of Himachal Pradesh not included.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5 mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with												
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28			
Bay Islands																															
Maya Bandar	28·5	...	29·9	1	22·4	...	20·0	16,17	12·2	41·2	...	25·0	26	3	...	16·2	11·0	...	0	3	0	0	0	0	0	0	0	0			
Long Island	29·2	...	30·2	7	23.0	...	19·3	17	127.2	165·6	...	65·2	26	4	...	4.8	2·9	...	0	4	0	0	0	0	0	0	0	0			
Port Blair	29·8	+1·1	31·2	29	23·2	+0·5	19·6	14	7·1	83·3	—117·9	38·3	26	5	—2·2	10·8	10.1	—4.5	0	6	0	0	1	0	0	0	0	0			
Car Nicobar	29.1	...	30·1	6	24.9	...	22·8	1,24	103.8	294.8	...	92·2	25	11	...	7·6	5·3	...	0	14	0	0	4	0	0	0	0	0			
Nancowry	30·5	...	32·2	7	24·2	...	22·9	1,25	163·2	387.1	...	68.0	31	17	...	0·1	0	...	0	17	0	0	1	0	0	0	0	0			
Kondul	27·4	...	28·6	23	24.2	...	22·4	26	103·6	439·2	...	71·8	30	20	...	...	..	...	1	25	0	0	5	0	0	0	0	0			
Assam (Including Manipur, Tripura)																															
Pasighat	22.9	...	26·4	4	12·1	...	7·2	16	1·9	3·9	...	2·0	13	0	0	11·4	17·0	...	0	2	0	0	0	0	0	0	0	0			
Dibrugarh (Mohanbari).	23·1	+0·4	25·3	7	7·4	—1·5	2·7	28	0	2·2	—13·8	1·8	15	0	—1·4	4·3	2·0	+0.3	2	1	0	0	0	14	0	0	0	0			
Dibrugarh	24 2	+0·9	26.6	11	9·8	—0.8	6·2	29	0	3·2	—12·8	2.0	14	0	—1.4	0·8	0·5	—0·3	0	2	0	0	0	2	0	0	0	0			
Digboi	..	..	..	..	..	..	..	..	0	22·0	..	22·0	15	1	...	..	...	..	0	1	0	0	0	0	0	0	0	0			
North Lakhimpur	23·4	—0·8	26.3	5	7·7	—1·6	3.1	29	0·1	1·3	—30·9	1·2	19	0	—3·3	3·9	2·2	...	1	1	0	0	0	0	0	0	0	0			
Sibsagar	23.5	+1.2	26.2	5	9·2	—1·3	5·6	14	0	22·2	+7·5	20·7	15	1	—0·5	3·7	1.8	+0.2	0	2	0	0	0	0	0	0	0	0			
Gohpur (R)																															
Majbat	..	...	..	..	..	...	..	..	2·0	7·8	...	5·8	15	1	...	6·1	2·5	...	0	2	0	0	1	0	0	0	0	0			
Jorhat (Aerodrome)	23.8	...	26·7	5	9·1	...	5·6	28	0	0·8	...	0·8	15	0	...	..	..	...	0	1	0	0	2	16	0	0	0	0			
Tangla	24.9	..	27·8	1	8.8	..	5·2	28	0	0	..	0	0	0	...	0·3	0·1	..	0	0	0	0	0	0	0	0	0	0			
Tezpur	23·9	—0·1	26·1	4 days	12·2	—0·1	8.3	28	0	13·8	+7·5	13·8	15	1	+0·3	5·6	4·3	+2·0	0	1	0	0	0	0	0	0	0	0			
Golaghat	24·1	...	6·7	5	9.9	...	5·8	28	0	0	...	0	0	0	...	...	...	...	0	0	0	0	0	0	0	0	0	0			
Rangia (R)																															
Chaparmukh	25·2	..	28·9	4	10·8	..	8·3	8 days	0	0	..	0	0	0	..	4·3	3·7	..	0	0	0	0	0	0	0	0	0	0			
Goalpara	25·2	...	27·3	1,5	10.5	...	6·2	31	0	0	..	0	0	0	...	2·7	1·8	...	0	0	0	0	0	0	0	0	0	0			
Gauhati	24·0	—0.2	26.4	5	11·8	+0·3	8.4	28	0	0·6	—3·5	0·3	8·9	0	—0·5	0	0	—1·8	0	2	0	0	0	30	0	0	0	0			
Gauhati (Bhorjor)	23·9	+0·1	26·0	2	9.4	—0·3	4.9	28	0	0·7	—3·4	0.5	19	0	—0·5	5·2	3·2	...	1	1	0	0	1	22	0	0	0	0			
Dhubri (Rupsi)	23·2	..	26.4	1	9·5	..	5·1	31	1·3	3·5	...	3·0	19	1	...	3.9	2·1	...	0	2	0	0	0	4	0	0	0	0			
Dhubri	22·4	—1·0	24.5	2,5,8	12·6	—0·6	8·3	24	0	0·2	—1·6	0·2	19	0	—0·1	5·9	4·9	—0·7	1	0	0	0	0	4	0	0	0	0			
Dumding	23 9	+0·6	26·5	5	10·9	+0·5	8·0	28	0	15·2	+11·6	15·2	15	1	+0·6	2·1	1·1	...	0	1	0	0	0	0	0	0	0	0			
Umori	20·3	...	22.5	5,29	4·8	...	0.1	25	0	16·5	...	7·6	13	2	...	6·7	2·9	..	0	4	0	1	1	8	0	1	0	1			
Tura	23.2	...	26·1	29	10·2	...	6.7	30	0	1·0	..	1·0	19	0	...	4.2	5·8	...	0	1	0	0	0	0	0	0	0	0			
Haflong	20·4	..	23.7	1	10·6	...	7.0	15	3·0	3·6	...	3·6	14	1	...	...	...	...	0	1	0	0	0	1	0	0	0	0			
Silchar (Kumbhirgram)	26 2	...	28·5	28	11·3	...	8·5	24	0	0	...	0	..	0	...	4·4	7.0	...	0	0	0	0	0	0	0	0	0	0			
Silchar	22·7	—3.9	26·4	28	12·2	—0·4	9·4	18,24	0	0	—10·7	0	.	0	—0·7	1·2	0·6	—0·8	0	0	0	0	0	0	0	0	0	0			
Imphal (Tulihal)	21·1	—1·0	23·2	28	4·8	—0·3	1·6	30	4·5	2·7	—0·4	3·6	29	1	+0·5	4·5	2·7	—0·8	0	1	0	0	0	15	0	0	0	0			
Kailashahar	25·6	..	27·4	1,27	9·6	...	6·3	28	0	0	...	0	..	0	...	1·7	0·7	...	0	0	0	0	0	5	0	0	0	0			
Agartala	25·1	—1·6	26.8	6	9·0	—2·8	5·8	26	0	0	—1 7	0	..	0	—0·1	5·7	2·6	—0·3	0	0	0	0	0	12	0	0	0	0			
Sub Himalayan—West Bengal																															
Baghdogra	23·9	—2·1	26·9	1	7·4	—2·5	2·4	26	5·0	3·0	+1·9	2·0	15	0	—0 1	7·0	6·0	+2·7	0	2	0	0	2	6	0	0	0	0			
Jalpaiguri	20·1	—4·7	23·3	8	10·7	—1·1	5·7	26	0	1·0	—3·3	1·0	19	0	—0·4	5·3	4·5	+3·2	0	1	0	0	0	5	0	0	0	0			
Cooch Behar	24·2	..	27·1	1	8·5	...	4·2	31	0·2	0·8	—3·3	0·8	19	0	—0·3	4·3	2·0	...	0	1	0	0	0	20	0	0	0	0			
Balurghat	24·3	...	27·6	1	8·3	...	4·7	31	0·2	1·8	...	1·4	13	0	..	5·0	4·0	...	0	2	0	0	0	4	0	0	0	0			
Malda	22·1	—2·2	26·1	1	10·2	—1·2	6·6	30	0	0	—1 3	0	..	0	—0·2	8·9	6·6	+2·1	0	0	0	0	0	1	0	0	0	0			
Gangetic West Bengal																															
Berhampore	24·0	—1·1	27·3	6,7	9·0	—3·8	5·7	24	0	0	—4·1	0	..	0	—0·4	3·4	2·3	+0·9	0	0	0	0	0	6	0	0	0	0			
Suri	23.4	..	26·6	12	10·6	...	7·1	24	0	0	...	0	..	0	...	..	..	...	0	0	0	0	0	0	0	0	0	0			
Asansol	23·7	—2·2	26·6	1	10·2	—1·7	5·8	26	0	0	—4·6	0	..	0	—0·4	(b) 8·8	(b) 6·2	+0·9	0	0	0	0	0	0	0	0	0	0			
Shanti Niketan	24·1	..	26·4	1	9·7	...	6·1	24	0	0	...	0	..	0	..	5·3	5·5	...	0	0	0	0	0	0	0	0	0	0			
Krishnanagar	24·7	—1·2	27·2	1,3	9·9	—1·8	7·2	24,27	0	0	—2·8	0	..	0	—0·2	0·6	0·4	—1·4	0	0	0	0	0	0	0	0	0	0			
Purulia	22·8	—3·3	26·2	12	10.3	—2·9	5 7	26	0	0	—1·3	0	..	0	—0·3	5·3	4·1	+1·4	0	0	0	0	0	0	0	0	0	0			
Bankura	..	..	..	..	..	..	..	..	0	0	—2·8	0	..	0	—0·3	...	...	...	0	0	..	..	..	..	..	..	..	..			
Burdwan	20·1	—6·0	22·7	1	11·2	—2·1	4·4	24	0	0	—4·8	0	..	0	—0·3	3·5	3·0	+1·1	0	0	0	0	0	0	0	0	0	0			
Barrackpore (Aerodrome)	24·2	...	26·6	13	10·0	...	7.3	31	0	0	...	0	..	0	...	...	...	...	0	0	0	0	0	1	0	0	0	0			
Calcutta (Dum Dum)	25·3	—1·3	27·8	2	10·1	—3·2	7·8	24	0	0	—2·5	0	..	0	—0·3	6·3	3·4	—0·1	0	0	0	0	0	6	0	0	0	0			
Calcutta	25·1	—1·2	28·2	13	11·9	—0·9	9·5	26	0		—4 6	0	..	0	—0·3	7·2	4·5	+1·4	0	0	0	0	0	1	0	0	0	0			
Midnapore	24·6	—2·0	27·4	12	10·8	—2·3	7·7	25	0	0	—4·1	0	..	0	—0·3	11·4	6·9	+4·6	0	0	0	0	0	0	0	0	0	0			
Contai	24·7	—2·2	26·9	1.2	11·8	—2·9	8.3	25	0	0	—4·3	0	..	0	—0·2	5·3	3·1	—0·1	0	0	0	0	0	0	0	0	0	0			
Sagar Island.	23.4	—1·5	25·7	1	14·2	—0·9	10·4	25	0	2·0	—3·3	2·0	15	0	—0·4	16·0	13·0	+4·1	0	1	0	0	0	9	0	0	0	0			
Sandheads	26·4	...	31·3	19	19·6	...	12·0	4	0	0	—3·8	0	..	0	—0·3	...	...	...	0	0	0	0	0	0	0	0	0	0			
Orissa																															
Baripada	25·4	...	28·3	2	10·1	...	6·7	25	0	0	...	0	..	0	...	3·9	1·9	...	0	0	0	0	0	0	0	0	0	0			
Jharsuguda	24·8	—2.8	27·3	2	9·7	—2·4	6·6	21	11·2	11·2	+	11·2	12	1	+0·8	6·5	5·1	0	0	1	0	0	1	1	0	0	0	0			
Keonjhargarh	23·0	...	25·7	2	9·9	...	7·2	21,22		0·4	...	0·4	19	0	...	4·3	2·6	...	0	1	0	0	0	0	0	0	0	0			
Balasore	25·1	—1·6	27·8	2	11·8	—1·4	8·2	25	1·2	1·2	—2·9	1·2	15	0	—0·3	7·3	4·2	+1·6	0	1	0	0	0	0	0	0	0	0			

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

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Orissa—*contd.*																													
Sambalpur	25·1	−1·7	28·3	12	10·4	−1·7	7·6	28	0·3	7·1	+2·8	6·4	12	1	+0·7	3·9	2·4	−0·7	0	2	0	0	0	0	0	0	0	0	0
Angul	25·0	−1·7	27·6	11	11·5	−1·3	8·1	24	0	0·6	−3·0	0.6	12	0	−0·4	5.1	5·6	+0·8	0	1	0	0	0	0	0	0	0	0	0
Cuttack	27·0	−0·3	29.5	13	13·2	−1·6	9·9	27	0	0	−5·8	0	..	0	−0·4	4·2	2·7	+1·5	0	0	0	0	0	1	0	0	0	0	0
Chandbali	25·3	−1·5	29·7	12	11·3	−3·0	8·3	25	4·9	4·9	+4·1	0	..	1	+0·9	7·9	6·0	+0·7	0	1	0	0	0	0	0	0	0	0	0
Bolangir	25·7	...	29·5	12	11·5	...	7·6	28	2·8	2·8	...	2·8	13	1	...	5·7	4·1	...	0	1	0	0	0	0	0	0	0	0	0
Phulbani	23.9	...	26·4	19	6·4	...	1·7	28	6·4	9·8	...	6·4	13	2	...	2·1	1·3	..	0	2	0	0	0	0	0	0	0	0	0
Titlagarh	28·1	...	30·6	20	11·4	...	7·9	28,29	0	0·2	...	0·2	19	0	...	2·1	2·1	...	0	1	0	0	0	0	0	0	0	0	0
Bhubaneswar	25·7	−2·5	28·8	15	13·7	−2·1	9·9	22	0	0	−3·2	0	..	0	−0·4	8.1	6·8	+0·3	0	0	0	0	0	1	0	0	0	0	0
Puri	25·9	−1·0	28.3	2,3	15·3	−1·6	12·3	28	0	1·0	−5·1	1·0	19	0	−0·4	11·7	10·8	+1·5	0	1	0	0	0	0	0	0	0	0	0
Gopalpur	25·8	−1·1	28.1	4	14·5	−1·6	11·1	28	0	0	−13·5	0	..	0	−0·7	13·5	11·2	+1·4	0	0	0	0	0	0	0	0	0	0	0
Koraput	18·9	−5·6	21·7	4	9·9	−1·4	3·9	29	0	0	−2·8	0	..	0	−0.3	...	...	...	0	0	0	0	0	0	0	0	0	0	0
Bihar Plateau																													
Dumka	22·9	−1·8	25·8	1, 12	9·0	−1·9	5·4	26	0	0	−3·3	0	..	0	−0·3	4.7	3·3	+1·5	0	0	0	0	0	0	0	0	0	0	0
Daltonganj	20·5	−4·2	26·7	18	6·2	−1·9	1·8	27	3·2	11·2	+4·9	8·0	18	2	+1·5	4·1	2·5	+0·1	0	2	0	0	0	4	0	0	0	0	0
Hazaribagh	19·6	−2·8	23·7	12	7·0	−3·0	0·5	24	8·2	16·7	+9·8	8·5	18	2	+1·5	9·0	6·6	−0·6	0	2	0	0	0	3	0	0	0	0	0
Dhanbad	22·8	..	26·0	1	9·7	...	4·1	26	0	0	...	0	..	0	...	6·0	4·8	...	0	0	0	0	0	3	0	0	0	0	0
Ranchi	22.3	−0·4	25·6	12	7·6	−2·7	4·6	24	2·5	2·5	−4·4	2·5	19	1	+0·4	2·6	1·7	−3·0	0	1	0	0	0	0	0	0	0	0	0
Ranchi Aerodrome	20·7	..	24·2	12	8·1	...	4·8	27	0·5	0·5	...	0·5	19	0	...	(i) 10·2	8.2	...	0	1	0	0	1	2	0	0	0	0	0
Jamshedpur	24·9	−1·7	27·8	1,12	9·3	−1·5	5·7	26	0	0·8	−5·0	0·8	19	0	−0·4	5·0	3·1	+0·7	0	1	0	0	0	0	0	0	0	0	0
Jamshedpur (P.B.O.)	23·7	...	26.3	3	9·2	...	5·4	30	0	1·0	...	1·0	19	0	...	7.2	4·4	...	0	1	0	0	0	1	0	0	0	0	0
Chaibasa	24·4	−1·3	27·7	31	9·1	−1·8	5.2	27	0	0·4	−4·2	0·4	19	0	−0·4	2·9	2·3	+0·5	0	1	0	0	0	0	0	0	0	0	0
Bihar Plains																													
Motihari (R)																													
Forbesganj	23·4	...	27·9	1	9·1	...	5·6	25,30	1·8	6·4	...	6·0	19	1	...	6·5	4·8	...	0	2	0	0	0	8	0	0	0	0	0
Darbhanga	21·4	−3·3	26·1	4	9·1	−1·9	4·8	25,26	4·4	8·0	+4·9	4·4	19	2	+1·7	2·5	1·1	−0·7	0	2	0	0	0	0	0	0	0	0	0
Muzaffarpur	..	..	..	..	..	..	..	..	..	11·2	+8·1	11·2	18	1	+0·7	...	...	...	0	1	0	0	0	12	0	0	0	0	0
Chapra	21·0	...	26·5	8	9·1	...	5·1	21	4·6	12·3	+8·7	7·6	18	2	+1·6	8·8	4·2	...	0	2	0	0	0	2	0	0	0	0	0
Purnea	22·1	−2·5	26·9	1	8·4	−1·3	4·7	31	3·0	4·9	+1·8	4·4	19	1	+0·7	5·5	3·3	+1·5	0	2	0	0	0	6	0	0	0	0	0
Patna	20·8	−2·9	25·8	1	9·1	−2·2	5·0	25,27	6·8	12·2	+6·6	6·8	19	2	+1·5	5·5	5·6	+2·9	0	2	0	0	1	5	0	0	0	0	0
Patna Aerodrome	20 6	...	25·6	1	7·4	...	2·2	25	8·1	13·8	...	8·1	19	2	...	7·5	3·9	...	0	2	0	0	1	7	0	0	0	0	0
Arrah	..	..	..	..	..	..	..	..	..	1·8	−2·5	1·8	18	0	−0·5	...	...	..	0	1	..	..	..	..	..	..	..	..	..
Bhagalpur	21·0	−4·5	26·2	11	9·7	−3·1	5·2	27	3·5	5·5	+3·9	3·4	19	1	+0·8	9·3	6·6	+2·7	0	4	0	0	0	6	0	0	0	0	0
Sabaur	21·1	−3·2	25·7	1	6·7	−2.1	2·2	27	6·6	7·8	+4·7	3·8	13	2	+1·9	8.4	5·1	+0.8	0	3	0	0	1	7	0	0	0	0	0
Jamui	20·8	...	26·3	11	8·2	...	5·1	26	13·6	16·0	...	4·8	19	2	...	8·6	4·7	...	0	2	0	0	1	11	0	0	0	0	0
Dehri	21·2	...	25·6	1,13	8·6	...	1·8	26	3·4	15·6	+11·0	12·2	18	2	+1·5	6·1	4·2	...	0	2	0	0	0	7	0	0	0	0	0
Gaya	20.9	−2·8	25·8	1	6·6	−2·6	1·4	25	6·1	10·5	+5·9	5·8	19	2	+1·6	7.6	5.6	+0·6	0	3	0	0	0	7	0	0	0	0	0
Uttar Pradesh (East)																													
Kheri (R)																													
Bahraich	20·6	−3·3	25·8	5	7·3	−1·7	4·1	26	0·6	14·0	+5·4	13·0	18	1	+0·1	5·1	4·0	+2·1	0	2	0	0	1	6	0	0	0	0	0
Nautanwa	23·0	...	26·2	6	8·5	...	3·2	28	4·8	15·1	...	10·3	18	2	..	6·0	3·7	...	0	2	0	0	0	7	0	0	0	0	0
Hardoi	20·2	−4·1	24·4	13	6·8	−2·1	1·7	27	5·4	6·4	+4·3	6·4	18	1	+0·5	..	..	..	0	1	0	0	0	6	0	0	0	0	0
Gonda	20·3	−4·0	25·1	6	7·3	−1·4	4·4	26, 27	0	14·2	+6·1	14.2	18	1	−0·1	4·0	3·1	−0.3	0	1	0	0	0	4	0	0	0	0	0
Lucknow	19·7	−4·7	24·2	12	6.8	−1·7	2·0	26	0	19·2	+11·1	19·2	18	1	+0·3	2·6	2·2	+0·6	0	1	0	0	0	10	0	0	0	0	0
Lucknow (Amausi)	19·8	−4·6	23·8	4	5·2	−1·7	0·6	26	0	12·0	+3·9	12·0	18	1	+0·3	7 9	5·8	...	0	1	0	0	0	12	0	0	0	0	0
Faizabad	20·5	...	24·4	13	6·2	...	2·9	26,27	0	15·0	...	15·0	18	1	...	4·8	2·7	...	0	1	0	0	0	0	0	0	0	0	0
Gorakhpur	21·3	−2·3	25·2	10,13	7·5	−2·4	3·8	26	10·2	28·6	+23·8	18·2	18	2	+1·6	...	...	...	0	2	0	0	0	3	0	0	0	0	0
Kanpur	19 9	−3·4	24·9	3	6·0	−2·1	−0·9	27	0	9·2	+2·1	9·2	18	1	+0·2	8.6	6·5	+3 1	0	1	0	0	0	6	0	0	0	0	0
Kanpur (Aerodrome	19·9	...	24·7	3	5·4	...	−1·4	26	0	10·2	...	10·2	18	1	...	...	...	...	0	1	0	0	0	10	0	0	0	0	0
Sultanpur	20·3	...	24·5	4 days	7·1	...	3·3	26	3·2	21·8	...	21·8	18	1	...	4·9	3·4	...	0	1	0	0	0	5	0	0	0	0	0
Azamgarh	20·5	...	25·8	15	5·2	...	0·9	26	..	..	...	..	..	..	...	...	...	...	..	..	0	0	0	0	0	0	0	0	0
Fatehpur	20·3	−4·2	25·0	3	7·1	−1·5	1·9	27	0·6	6·8	−1·8	6·8	18	1	−0·1	6·0	3.6	+1·0	0	1	0	0	0	11	0	0	0	0	0
Ballia	22·5	...	29·2	31	9·4	...	4·8	28	2·2	8·8	...	6·6	18	1	...	1·6	0·7	...	0	2	0	0	0	4	0	0	0	0	0
Banda	21·7	...	26·8	17	6·6	...	0·8	27	8·3	11·6	...	11·6	18	1	...	3·9	2·0	...	0	1	0	0	0	0	0	0	0	0	0
Allahabad (Bamhrauli)	20·9	−3·4	26·3	3	6·0	−2·4	−0.7	26	1·0	3·6	−5·0	3·6	18	1	+0·3	4.5	2·8	−0 6	0	1	0	0	0	10	0	0	0	0	0
Varanasi (Babatpur)	20·3	−4·3	25·1	3	6·7	−2·9	2·7	26	0·4	8·4	+5.7	8·4	18	1	+0·7	8·8	5·9	+1 0	0	1	0	0	1	12	0	0	0	0	0
Varanasi	20·0	−4·0	24·8	3,17	7.3	−1·7	2·9	25	0	10·8	+3·9	10·8	18	1	+0·5	5·7	(a) 3·6	+0· 7	0	1	0	0	0	0	0	0	0	0	0
Uttar Pradesh (West)																													
Dehra Dun	19·0	−1·4	22·6	2	4.1	−3·2	1·2	22	45·0	93·4	+67.5	51·0	18	3	+1·3	3·4	3·2	+0·8	0	3	0	0	0	1	0	3	0	0	0
Roorkee	18·5	−3·3	22.2	5	5·7	−0·6	3·6	23,26	19·6	48·3	+31·0	42·4	18	3	+1·7	4·2	3·0	+0·9	0	3	0	0	2	1	0	0	0	0	0
Najibabad	19·3	...	23·4	9	4·9	...	1·4	26	14·6	49·0	...	44·2	18	2	...	2·8	1·9	...	0	2	0	0	3	6	0	0	0	0	0
Meerut	20·2	−2·5	25·6	1,6	5·5	−1·5	0·2	25	...	23·0	+10·8	23·0	13	1	−0·2	...	5·0	...	0	1	0	0	0	0	0	0	0	0	0
Bareilly	20·0	−2·6	24·0	12	7·4	−0·7	3·4	27	4·0	4·4	−6·0	4·4	18	1	0	6·3	3·8	+1·9	0	1	0	0	1	14	0	0	0	0	0

(i) Mean of 22 days. (a) Mean of 30 days. (R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or Sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	(b)	21	22	23	24	25	26	27	28	29
Uttar Pradesh (West)—*contd.*																													
Aligarh	19.8	−3.5	24.4	2	6.0	−2.4	2·5	23	4·6	4·6	−6.3	4.6	18	1	−0·2	11·1	8·8	+4.0	0	1	0	0	0	5	0	0	0	0	0
Mainpuri	20·9	−3·2	25.1	3	5·9	−2.0	0.6	26	0	0	−9·4	0	..	0	−0.8	..	..	..	0	0	0	0	0	8	0	0	0	0	0
Agra	19·9	−4.2	24.5	3,17	5·4	−2·5	0.9	25	0	0	−7.6	0	..	0	−0.8	2·5	1·5	−2·2	0	0	0	0	0	8	0	0	0	0	0
Agra (Aerodrome)	20.5	...	25.3	3	4.5	...	0	27	0	0	..	0	..	0	...	...	...	...	0	0	0	0	0	11	0	0	0	0	0
Orai	18.1	...	22.8	2,13	6·0	...	−1.7	26	0.6	11·2	...	9.6	18	1	...	6·4	5·1	...	0	2	0	0	0	0	0	0	0	0	0
Jhansi	21.9	−3.7	27.0	17,18	6·2	−2·9	0.3	26	0	2.0	−5.4	2·0	18	0	−0.8	3.7	3.1	+0.4	0	1	0	0	0	0	0	0	0	0	0
Punjab (India), (Including Delhi)																													
Pathankot	18·3	−2.8	21.9	13	4·4	−2·5	1.9	22	17.3	25.1	−1.6	16·3	18	3	+1.2	5·5	3.3	−1.8	0	3	0	0	1	0	0	6	0	0	0
Amritsar (Rajasansi)	19·5	−1.7	22.5	5,6	3·2	−1.3	1.5	4,6	3.7	14·9	+0.9	13·1	17	1	−0·4	5·5	3·6	−1·8	0	2	0	0	2	6	0	0	0	0	0
Adampur Aerodrome) (R)																													
Ludhiana	20.8	−0.8	24.0	6	3.7	−3·1	1·1	23	0.5	0.5	−17.8	0·5	18	0	−1.4	5·7	2·8	+1.0	0	1	0	0	0	17	0	0	0	0	0
Ferozepore	20.2	...	23.6	16	3.1	...	−0.3	8	0	0	..	0	..	0	...	3·2	1·6	...	0	0	0	0	0	1	0	0	0	0	0
Halwara (Aerodrome)	20.1	...	22.9	3,5	2.6	...	−0.4	22	0	0	..	0	..	0	...	...	...	...	0	0	0	0	1	8	0	0	0	0	0
Chandigarh	19.8	−2·7	23.5	12	5.6	−1·8	1.3	22	6.4	22·4	+4.0	13.2	17	2	+0.6	(0) 1.5	(n) 1.0	...	0	2	0	0	0	0	0	0	0	0	0
Ambala	20.1	−2.3	24·4	12	5·6	−1·0	1·8	23	5·8	31.0	+11.7	16 4	18	2	+0.5	4.1	3.4	0	0	2	0	0	0	0	0	0	0	0	0
Ambala (Aerodrome)	19·4	...	23·9	2	..	...	..	..	4·2	26.3	...	13·5	17	2	...	...	...	..	1	2	0	0	0	10	0	2	0	0	0
Patiala	19·5	...	23.7	4	4·6	...	0·4	21	4.0	21.0	+8.1	13·0	17	2	+0.8	7.1	(a) 6·7	...	0	2	0	1	0	4	0	0	0	0	0
Bhatinda	21·2	...	24.7	3	3·9	...	1·4	7	0	5·2	...	5·2	17	1	...	4.5	3·6	...	0	1	0	0	0	6	0	0	0	0	0
Karnal	19.1	...	23·0	4	4.7	...	0.5	24	5.0	10·0	..	5·0	16,17	2	...	...	...	..	0	2	0	0	0	0	0	0	0	0	0
Hissar	21.2	−2·2	26·2	17	4.8	−1.4	2·1	23,26	12.8	18.2	+8.3	17·0	18	1	0	6.0	5.5	+0·7	0	2	0	0	1	6	0	0	0	0	0
New Delhi (Safdarjung)	20·0	−3.1	23·8	2	5.6	−1.2	1.6	24	4·8	8.8	−2.1	8·0	18	1	+0·1	11.0	8.0	−0·4	0	2	0	0	1	17	0	0	0	0	0
Palam (Aerodrome)	19.9	...	..	..	4.7	...	1·7	23	0	4·8	...	4·3	18	1	...	...	...	...	0	2	0	0	1	16	0	0	0	0	0
Himachal Pradesh																													
Mandi	17.7	−2·4	22.1	5	1·6	−2·1	0	21	31·0	52·0	+18·9	30.6	18	3	+0·3	1·7	1·3	−0·5	0	5	0	0	0	26	0	0	0	0	0
Bilaspur	18·9	...	23·0	1	3·1	...	1·1	23	13·3	24.1	...	16.6	18	2	...	..	..	...	0	4	0	0	0	24	0	0	0	0	0
Jammu and Kashmir																													
Misgar (R)																													
Gilgit (R)																													
Skardu (R)																													
Dras†																													
Sonamarg*																													
Leh	−1·1	−2·9	2·5	2	−14·3	−3·6	−17·9	29	5.6	5.6	+0·8	3.6	17	1	+0.4	3.2	4.1	+1·8	0	3	3	0	0	0	0	0	0	0	0
Srinagar	7·0	−2.0	9·9	15	−2·3	+0·1	−4·8	28,29	3·3	14·1	−19·4	9 8	16	2	−1·4	(a) 4·0	(a) 3·5	+0·3	0	3	3	0	0	1	0	17	0	0	0
Srinagar (Aerodrome)	6·5	...	8·9	15	−2·6	...	−5·3	29	4·0	33·5	...	27·5	16	2	..	...	...	...	0	4	3	0	0	2	0	15	0	0	0
Gulmarg	(closed during winter months)																												
Banihal	10·2	...	14.6	16	−0.4	...	−6.2	19	24.4	68.1	...	48.3	17	4	...	...	...	...	0	5	3	0	0	1	0	0	0	0	0
Jammu (R)																													
Jammu (Aerodrome)	18·2	..	21·8	13	6·3	...	4.2	23	11·4	54·8	...	45·7	17	3	...	...	...	...	0	3	0	0	1	0	0	0	0	0	0
Rajasthan (West)																													
Ganganagar	22·1	−1.7	25·8	2,8	5·0	−2·4	2·9	18	1·4	1.8	−9.8	1·6	17	1	−2·3	3·3	1·7	−7.4	1	1	0	0	1	5	0	0	0	0	0
Anupgarh (R)																													
Mahajan	..	...	..	...	..	...	...	...	0	2·0	..	2·0	17	0	...	(b) 1·5	(b) 1·0	...	0	1	0	0	0	0	0	0	0	0	0
Churu	22·3	...	27·1	17	2·9	...	−0·4	24	0	0	...	0	...	0	...	6·0	3.8	...	0	0	0	0	0	3	0	0	0	0	0
Bikaner	23·9	−0 8	27·8	3	3·8	−1.8	1·2	20	0	1.0	−4.1	1·0	17	0	−0.5	3·3	2.4	−1.6	0	1	0	0	0	2	0	0	0	0	0
Nagaur	22·3	...	26·9	2	6·3	...	3·6	7	0	5·0	...	5.0	17	1	...	4·6	5·6	...	0	...	0	0	0	2	0	0	0	0	0
Phalodi	23·7	...	28·1	3	7·3	...	4·2	26	12·6	12·6	+10·1	12·6	17	1	+0·8	9·6	(a) 7·6	...	0	1	0	0	0	0	0	0	0	0	0
Jaisalmer	24.7	..	29.1	3	6·7	..	2·5	6	0	0	...	0	...	0	...	7·9	6·1	...	0	0	0	0	0	0	0	0	0	0	0
Jodhpur	24.9	+1·2	29.0	3	9.2	−1.1	6·3	21	0	0	−2.8	0	...	0	−0.3	9·4	8·0	−1.8	0	0	0	0	1	0	0	0	0	0	0
Barmer	25·6	−1.1	29·1	3,4	10.7	−1.2	5·5	21	0	0	−2.5	0	...	0	−0.3	7.5	6·0	−0.6	0	0	0	0	0	0	0	0	0	0	0
Munabao	27·6	...	...	...	3·5	...	...	...	...	...	...	...	...	...	...	(i) 5.6	(h) 3.5	...	..	..	0	0	0	0	0	0	0	0	0
Rajasthan (East)																													
Pilani	21.8	...	25.7	2	3.3	...	0 1	24	1·0	1·6	...	1.6	18	0	...	8·9	(a) 5·6	...	0	1	0	1	0	0	0	0	0	0	0
Sikar	22·3	...	25·8	17	2·1	...	−1.1	20	0	0.5	...	0·5	17	0	...	6.6	4.1	...	0	1	0	0	0	0	0	0	0	0	0
Alwar	21·3	...	25·6	3	5·4	...	1·4	24	0	2·4	...	1·8	17	0	...	3.0	1·4	...	0	2	0	0	0	6	0	0	0	0	0
Jaipur (Sanganer)	22·0	−2·4	25.3	2,3	6·2	−2·5	2·1	26	0·3	0·6	−7·0	0·3	18,23	0	−0.7	...	...	...	0	2	0	0	1	1	0	0	0	0	0
Dholpur	20·9	...	26·5	17	4·8	...	0 7	23	0	0	...	0	...	0	...	4.7	3.0	...	0	0	0	0	0	10	0	0	0	0	0
Ajmer	23·1	−1·0	27·3	2	5·3	−2·8	2·2	23	0	1 8	−4·8	1·8	17	0	−0·4	5·6	3·1	+1·2	0	1	0	0	0	1	0	0	0	0	0
Tonk	19·7	..	22·9	3	5·1	...	1·7	26	0	0	...	0	...	0	...	6·2	3·8	...	0	0	0	0	0	0	0	0	0	0	0
Kota (Aerodrome)	22·9	...	27·7	10	8.0	...	4.6	23,26	8.4	8·4	...	8.4	18	1	...	6·7	5·0	...	0	1	0	0	0	1	0	0	0	0	0
Kota	23.8	−2·4	28.2	17	7·5	−3.7	2·6	27	6·0	6.0	+0.7	6·0	18	1	+0·5	2.7	2.0	+0.4	0	1	0	0	0	0	0	0	0	0	0
Erinpura (Jawai Dam)	26.6	...	29·6	2	8·0	...	3.6	19	0	1.4	...	1.4	17	0	...	4.2	3.2	...	0	1	0	0	0	0	0	0	0	0	0
Chambal (Rawat Bhatta Dam)	23.8	...	27.4	3	6.8	...	3.3	23	2.0	2.0	...	2.0	18	0	...	6.2	3.8	...	0	1	0	0	1	0	0	0	0	0	0
Udaipur	23·5	−2.2	26.8	3	5.9	−3·3	3.1	20	0	0	−2·8	0	...	0	−0·3	3·3	(a) 1·5	...	0	0	0	0	0	0	0	0	0	0	0
Jhalawar	23·5	−2.2	27·7	17,31	7.7	−1.6	3 9	26	0	1.0	−3.8	1·0	18	0	−0.3	4·7	2.9	+0.5	0	1	0	0	0	0	0	0	0	0	0

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2.5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 to 0·2mm)	Precipitation (0·3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	
Madhya Pradesh (West) *(contd.)*																													
Gwalior	20·9	−3·7	25·9	17	4·3	−2·8	−0·4	26	0	1·2	−4·9	1·2	18	0	−0·7	5·6	2·9	..	0	1	0	0	0	9	0	0	0	0	0
Sheopur	23·4	−2·7	27·6	17	5·0	−3·3	0	26	2·2	3·2	−0·2	3·2	18	1	+0·5	6·3	5·7	+1·7	0	1	0	0	0	1	0	0	0	0	0
Shivpuri	21·9	..	25·5	17	4·5	..	−0·3	27	0	5·8	..	5·8	18	1	..	6·3	3·8	..	0	1	0	0	0	4	0	0	0	0	0
Nowgong	21·5	−2·1	26·4	3	4·0	−4·0	−1·7	27	0	2·3	−7·9	2·0	18	0	−0·7	4·9	2·6	+1·2	0	2	0	0	1	6	0	0	0	0	0
Guna	23·8	−1·7	26·8	31	5·6	−1·9	−0·4	26	0	0·7	−10·0	0·7	18	0	−1·2	8·0	5·5	..	0	1	0	0	0	4	0	0	0	0	0
Nimach	23·7	−2·1	26·9	1	8·5	−1·2	4·7	26	5·0	5·8	+1·2	5·8	18	1	+0·5	8·1	6·6	+1·0	0	1	0	0	1	0	0	0	0	0	0
Rajgarh	24·7	..	27·9	18	6·6	..	3·5	20	0	0	..	0	..	0	..	(a) 3·1	(a) 2·3	..	0	0	0	0	0	0	0	0	0	0	0
Sagar	22·6	−2·8	26·5	1	8·5	−3·7	2·1	22	0	1·0	−11·9	1·0	17	0	−0·8	6·4	6·4	..	0	1	0	0	1	3	0	0	0	0	0
Ratlam	26·1	−1·8	29·0	10	9·9	−2·0	6·2	20	0	3·8	+3·3	3·8	18	1	+0·9	11·6	11·2	+4·7	0	1	0	0	0	0	0	0	0	0	0
Bhopal (Bairagarh)	23·9	−1·8	26·6	1	9·3	−0·5	5·8	21	0	0	−5·1	0	..	0	−0·5	9·7	8·6	+2·8	0	0	0	0	1	0	0	0	0	0	0
Ujjain	25·4	..	28·4	6	8·4	..	5·6	15	..	0·5	..	0·5	18	0	..	..	6·6	..	0	1	0	0	0	1	0	0	0	0	0
Hoshangabad	25·1	−1·6	28·4	1	11·0	−1·2	8·2	20	0	0	−11·9	0	..	0	−0·7	(a) 5·6	5·4	+2·3	0	0	0	0	0	0	0	0	0	0	0
Indore	25·0	−1·5	28·2	10	8·6	−1·2	4·3	20	1·7	2·5	−4·4	1·7	28	0	−0·6	10·6	8·1	..	0	2	0	0	0	0	0	0	0	0	0
Rajpur (Jhabua)	27·4	..	29·6	9,10,17	10·3	..	6·0	19	0	0·6	..	0·6	18	0	..	7·9	4·0	..	0	1	0	0	0	0	0	0	0	0	0
Chhindwara	24·6	−1·7	27·3	6	8·8	−1·0	4·8	20	0	8·6	+4·8	4·7	11	2	+1·5	3·9	1·9	−1·4	0	3	0	0	2	0	0	0	0	0	0
Seoni	23·7	−1·7	26·5	11	9·7	−0·6	6·7	27	33·6	57·6	+44·4	42·8	11	3	+2·1	8·6	5·5	+2·3	0	3	0	0	2	0	0	0	0	0	0
Betul	24·9	−1·9	27·7	11	10·1	−0·1	7·0	20,23	0	0·6	−3·8	0·6	10	0	−0·5	7·2	5·0	+1·1	0	1	0	0	0	0	0	0	0	0	0
Khandwa	28·4	−0·5	30·8	9	11·1	+0·3	7·7	20	0	1·2	−6·9	1·2	21	0	−0·5	8·7	6·1	+2·6	0	1	0	0	0	1	0	0	0	0	0
Madhya Pradesh (East)																													
Satna	22·3	−2·0	26·0	1,3	5·8	−2·8	0·4	27	5·2	16·0	+5·1	9·4	18	2	+1·1	4·5	3·2	+0·5	0	2	0	0	1	6	0	0	0	0	0
Sidhi	22·1	..	25·6	3	5·8	..	1·0	27	3·5	18·5	..	18·5	18	1	..	4·7	2·6	..	0	1	0	0	0	0	0	0	0	0	0
Umaria	23·2	−1·7	26·0	10	5·8	−1·9	0·5	27	10·3	26·1	+17·2	26·1	18	1	+0·1	4·7	2·6	−0·3	0	1	0	0	2	3	0	0	0	0	0
Jabalpur	23·9	−1·2	27·3	1	7·7	−0·4	3·0	27	0·7	25·9	+16·5	24·5	18	1	+0·3	4·6	2·9	+1·1	0	3	0	0	2	3	0	0	0	0	0
Ambikapur	21·6	−2·6	24·7	11	6·3	−1·7	2·0	24	6·2	6·4	+4·1	6·2	19	1	+0·8	8·9	6·4	+1·0	1	1	0	0	0	3	0	0	0	0	0
Pendra	21·4	−1·8	24·6	10	8·6	−1·2	4·2	24	17·8	21·4	+14·0	10·2	19	3	+2·5	7·6	5·1	..	0	4	0	0	2	0	0	0	0	0	0
Mandla	23·6	−3·0	26·5	10	6·8	−1·0	3·1	28	28·4	48·0	+42·1	28·8	12	2	+1·5	4·2	2·3	+1·0	0	3	0	0	3	9	0	0	0	0	0
Champa	24·5	−3·0	27·0	1	10·7	−2·8	7·2	24	9·2	12·0	+7·9	11·4	12	1	+0·6	6·4	6·2	+1·9	0	2	0	0	2	0	0	0	0	0	0
Raigarh	26·0	−2·4	29·4	2	10·7	−2·7	7·0	24	3·0	6·0	+4·7	6·0	12	1	+0·7	2·6	2·1	−1·1	0	1	0	0	0	0	0	0	0	0	0
Raipur	25·3	−1·4	28·1	11	11·5	−1·0	8·1	21,28	0·8	11·0	+5·9	10·2	12	1	+0·7	6·2	4·0	−0·3	0	2	0	0	2	1	0	0	0	0	0
Kanker	25·4	−1·3	28·2	11	10·9	+0·5	7·0	28,29	0	4·2	+0·6	4·2	12	1	+0·6	3·5	2·0	−0·7	0	1	0	0	0	1	0	0	0	0	0
Jagdalpur	26·5	−0·2	28·4	12	10·9	0	6·6	29	0	0	−4·1	0	..	0	−0·6	5·0	2·5	..	0	0	0	0	0	12	0	0	0	0	0
Gujarat Region																													
Deesa	28·0	..	31·0	1	9·3	..	6·3	19	0	0	..	0	..	0	..	7·9	6·9	..	0	0	0	0	0	0	0	0	0	0	0
Radhanpur	27·7	..	31·0	2	9·8	..	6·5	11	0	0	..	0	..	0	..	7·3	6·3	..	0	0	0	0	0	0	0	0	0	0	0
Idar	27·1	..	30·0	1	15·6	..	11·8	17	0	0	..	0	..	0	..	9·2	8·7	..	0	0	0	0	0	0	0	0	0	0	0
Ahmadabad	28·4	−0·9	30·9	1	11·9	−0·2	8·2	19	0	0	−1·0	0	..	0	−0·1	13·5	8·0	+4·8	0	0	0	0	0	0	0	0	0	0	0
Dohad	26·6	−2·5	29·5	10	11·1	−1·2	6·8	20	0	2·4	+1·1	2·4	18	0	−0·2	8·6	7·3	0	0	1	0	0	0	1	0	0	0	0	0
Baroda (Aerodrome)	29·6	..	32·3	1	12·5	..	7·4	19	0	0	..	0	..	0	..	9·5	7·4	..	0	0	0	0	0	1	0	0	0	0	0
Baroda	30·1	−1·0	32·2	1,2	12·7	+1·4	8·3	19	0	0	−0·5	0	..	0	−0·1	5·4	..	..	0	0	0	0	0	0	0	0	0	0	0
Broach	31·8	−1·2	34·0	9,16	12·5	−1·5	9·8	20	0	0	−0·1	0	..	0	0	8·3	5·5	+0·5	0	0	0	0	0	0	0	0	0	0	0
Surat	32·5	+1·4	34·7	1,6	14·4	−0·8	10·8	20	0	0	−2·0	0	..	0	−0·1	8·4	8·5	+4·2	0	0	0	0	0	1	0	0	0	0	0
Saurashtra and Kutch																													
Bhatakia Bhimasar	..	..	..	..	13·2	..	10·0	19	0	0	..	0	..	0	..	15·5	14·3	..	0	0	0	0	0	0	0	0	0	0	0
Naliya	28·1	..	31·0	3,4	7·4	..	4·0	20	0	0	..	0	..	0	..	13·7	8·1	..	0	0	0	0	0	2	0	0	0	0	0
Bhuj (Rudramata)	27·4	−0·3	30·7	3	7·6	−3·9	4·4	19	0	0	−1·8	0	..	0	−0·1	14·3	9·2	+2·3	0	0	0	0	0	0	0	0	0	0	0
Kandla	27·7	..	30·8	3,4	11·7	..	9·0	20	0	0	..	0	..	0	..	17·7	17·9	..	0	0	0	0	0	0	0	0	0	0	0
New Kandla	25·7	..	28·3	2,4	14·4	..	12·4	29	0	0	..	0	..	0	..	12·2	13·3	..	0	0	0	0	0	0	0	0	0	0	0
Mandvi	26·6	−0·3	30·5	4,5	14·3	−1·3	11·4	19,30	0	0	−2·9	0	..	0	−0·1	15·1	13·8	−0·5	0	0	0	0	0	0	0	0	0	0	0
Surendranagar	28·4	−1·5	30·8	1,2	13·0	−1·2	9·1	19	0	0	−0·2	0	..	0	0	10·3	8·4	+0·8	0	0	0	0	0	0	0	0	0	0	0
Jamnagar (Aerodrome)	26·2	−1·9	29·3	3	10·6	−0·2	6·8	29	0	0	−2·0	0	..	0	−0·1	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Dwarka	27·2	−0·1	30·3	3,4	15·2	−1·4	12·8	19	0	0	−2·3	0	..	0	−0·2	19·8	14·9	+2·8	0	0	0	0	0	0	0	0	0	0	0
Rajkot	28·5	−1·3	31·4	16	11·4	−1·3	6·8	29	0	0	0	0	..	0	0	18·1	13·1	+1·8	0	0	0	0	0	0	0	0	0	0	0
Bhavnagar Aerodrome	28·4	+0·1	31·0	2	13·8	−0·5	11·2	19	0	0	−1·5	0	..	0	−0·1	17·2	14·5	+4·5	0	0	0	0	0	0	0	0	0	0	0
Porbander Aerodrome	29·6	..	32·8	3,4	15·5	..	11·1	18	0	0	..	0	..	0	..	18·2	14·2	..	0	0	0	0	0	0	0	0	0	0	0
Porbander	29·1	−1·3	33·0	3	16·5	−0·3	13·7	19	0	0	−0·8	0	..	0	−0·1	11·0	9·9	+0·6	0	0	0	0	0	0	0	0	0	0	0
Keshod	30·2	..	33·0	2	12·4	..	8·6	19	0	0	..	0	..	0	..	17·0	14·8	..	0	0	0	0	0	0	0	0	0	0	0
Mahuva	30·5	..	33·3	9	15·8	..	9·4	30	0	0	..	0	..	0	..	(a) 10·5	(a) 9·3	..	0	0	0	0	0	0	0	0	0	0	0
Veraval	30·3	..	34·0	4	15·6	..	11·5	30	0	0	−1·8	0	..	0	−0·2	18·1	15·6	..	0	0	0	0	0	0	0	0	0	0	0
Konkan																													
Dahanu	29·2	−0·2	33·3	4	17·5	0	14·2	19	0	0	0	0	..	0	0	16·3	10·9	−0·1	0	0	0	0	0	0	0	0	0	0	0
Bombay (Santacruz)	31·3	+0·2	34·8	6	17·3	+1·6	13·1	19	0	0	−1·0	0	..	0	−0·1	10·7	7·5	..	0	0	0	0	0	0	0	0	0	0	0

(a) Mean of 30 days.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0·1 and 0.2mm)	Precipitation (0·3mm. or more)	Snow or sleet	Hail	Thunderheard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Konkan—(*Contd.*)																													
Bombay	31·3	+1.0	34·7	3	20·9	+0.5	17·3	19	0	1·0	−0·1	1·0	21	0	−0.2	7·0	5·9	−4·6	0	1	0	0	0	0	0	0	0	0	0
Alibag	29·8	+0·2	33·8	2	19·0	+0 6	16·0	19	..	0	−3·8	0	..	0	−0·4	..	7·9	+0·7	0	0	0	0	0	0	0	0	0	0	0
Harnai	29·6	+0·1	32·4	5	23·2	+0.6	21·3	19,31	0	0	−1·3	0	..	0	−0.1	11.9	10·8	−0·7	0	0	0	0	0	0	0	0	0	0	0
Ratnagiri	31·9	...	34.4	5	20·0	...	16 6	31	0	0	−3·8	0	..	0	−0.3	11·9	7·9	..	0	0	0	0	0	0	0	0	0	0	0
Devgarh	31·2	0	34·0	5	21·5	+0·2	20·0	31	0	0	−4·3	0	.	0	−0·4	14·2	11·6	+0·6	0	0	0	0	0	0	0	0	0	0	0
Vengurla	33·0	+0·5	35·4	2	19·0	+0 5	16·0	31	0	0	−0·3	0	..	0	−0·1	10·1	6·1	..	0	0	0	0	0	0	0	0	0	0	0
Madhya Maharashtra																													
Nandurbar	...	...	...	...	...	...	...	...	0	0·8	...	0·8	21	0	...	9·0	6.2	...	0	1	0	0	0	0	0	0	0	0	0
Jalgaon	28·9	−1·4	32·9	10	12·0	−0 1	9.3	30	21·6	22·6	+17·0	21·6	22	1	+0·5	12·8	11·0	+4·3	0	2	0	0	0	1	0	0	0	0	0
Malegaon	29·5	+0·1	32·4	9,11,12	11·8	+0·5	7·6	19	0	2·2	−3·1	2·2	21	0	−0·4	8·1	5·7	+1·0	0	1	0	0	0	0	0	0	0	0	0
Deolali (Aerodrome)	29·2	..	31 9	8	11·7	...	9·1	19	0	0	...	0	..	0	...	9·9	5·8	...	0	0	0	0	0	0	0	0	0	0	0
Ahmednagar	29·7	+1·3	32·2	8	12·4	+0·8	9·1	31	0	2·2	−4.4	2·2	21	0	−0·5	8·7	6·5	+1·0	0	1	0	0	0	0	0	0	0	0	0
Khandala	..	...	...	...	...	..	...	..	..	0	−3·1	0	..	0	0	..	..	...	0	0	..	..	..	..	..	..	..	..	..
Poona (Aerodrome)	29.2	...	31·8	8	14·5	...	11·1	17	0	0	..	0	..	0	..	...	..	...	0	0	0	0	0	0	0	0	0	0	0
Poona	30·7	+1·3	33·0	9	13·3	+1·6	10·2	31	0	0	−3.8	0	..	0	−0·5	3·9	2·2	−3·4	0	0	0	0	0	0	0	0	0	0	0
Jeur	29·8	−0·3	32·0	8,14	12·8	−0·1	8·4	30,31	0	0	−5·0	0	..	0	−0·2	9·5	5·9	+1·0	0	0	0	0	0	0	0	0	0	0	0
Baramati	30 0	+0·4	32·1	8	14·1	+0 5	9·8	31	0	0	−4·3	0	..	0	−0.4	7·7	7·2	+0·9	0	0	0	0	0	0	0	0	0	0	0
Sholapur	28·5	−1·2	30·6	8,9,12	15·6	+0·9	10·4	30	2·0	2·6	−7·8	2·6	22	1	+0·3	11.0	9·7	+0·5	0	1	0	0	0	0	0	0	0	0	0
Miraj	30·0	+1·1	32·2	7	14·8	+0 9	9·4	30	0	0	−7·1	0	..	0	−0.6	..	...	...	0	0	0	0	0	0	0	0	0	0	0
Kolhapur	30 1	+0·5	32·1	7	14·9	+0 3	10·4	31	0	0	−2 8	0	..	0	−0·2	11.5	8·0	−1·2	0	0	0	0	0	0	0	0	0	0	0
Marathwada																													
Aurangabad	28·7	+0·1	32.0	9	13·6	+0·4	11·0	31	0	5·8	−1·1	5·8	21	1	+0·5	8·7	6 8	−0.1	0	1	0	0	0	0	0	0	0	0	0
Aurangabad (Chikalthan)	28.1	...	31·1	9	10·2	...	6·1	31	0	4 2	...	4·2	21	1	..	9·6	6·3	..	0	1	0	0	0	0	0	0	0	0	0
Parbhani	28·8	−0·6	31·0	11,12	13·2	+0·5	10 2	3	0	1 8	−3·0	1·8	22	0	−0·3	8·5	6.4	+1·7	0	1	0	0	0	0	0	0	0	0	0
Nander	29·6	...	31·8	12	14·2	...	10·0	3	0	0	...	0	..	0	..	4·9	4·4	...	0	0	0	0	0	1	0	0	0	0	0
Bir	28·9	..	32·1	8	13·4	...	8·0	3	0	1·0	...	1·0	21	0	..	8·0	4·6	...	0	1	0	0	1	0	0	0	0	0	0
Vidarbha																													
Gondia	25·7	−1·9	28·2	10,11	11.8	−1·0	9·1	28	1·8	12·6	+10·4	9·4	12	1	+0·7	4·7	2 8	+0·6	0	3	0	0	2	0	0	0	0	0	0
Nagpur (Sonegaon)	27·1	−1·3	29·5	11	11·0	−0·7	7·4	28	0·6	0·6	−11·3	0·6	22	0	−0·8	9.7	8·0	...	0	1	0	0	0	0	0	0	0	0	0
Amraoti	28·2	−0·2	31·0	12	14.3	−0·4	9·9	24	0·8	0·8	−10·4	0·8	22	0	−0·8	10·0	9·4	+4·1	0	1	0	0	0	0	0	0	0	0	0
Akola	28·8	−0·5	32·0	11	12·7	+0·9	8·5	4	5·2	5·3	−8·4	5·2	21	1	+0·1	6·8	5·1	+1·2	1	1	0	0	1	0	0	0	0	0	0
Bramhapuri	26·8	...	29·3	10	12·7	...	9·1	31	3·7	4·9	...	3·3	19	1	...	7·0	4·5	...	0	4	0	0	0	0	0	0	0	0	0
Buldana	26·7	−0·7	30·1	9	13·8	−1 3	10·4	20	6·2	6·2	+0.3	6·2	22	1	+0·5	10·3	8·3	+1·9	0	1	0	0	0	0	0	0	0	0	0
Yeotmal	26·7	−1·7	30·0	12	14·2	−0·9	11·1	20	3·0	3·0	−0·3	3·0	22	1	+0·7	10·5	9·4	+1·9	0	1	0	0	1	0	0	0	0	0	0
Chanda	27.6	−0·5	29·7	12	12·7	+1·1	8·3	29	0	0	−6·9	0	...	0	−0·7	6·3	3·8	+1·7	0	0	0	0	0	0	0	0	0	0	0
Pusad	..	..	...	...	12·3	...	8·4	31	0	0	...	0	...	0	...	5·5	4·4	...	0	0	0	0	0	0	0	0	0	0	0
Sironcha	28·5	−1·3	30 5	12	14·4	−0·2	9·7	29	0	0	−0·3	0	...	0	−0·1	4·9	3·7	+1·1	0	0	0	0	0	0	0	0	0	0	0
Coastal Andhra Pradesh																													
Kalingapatam	25·9	−0·9	28·2	15	16·2	−1·1	13.1	25,29	0	0	−13·7	0	...	0	−0·4	12.7	9.1	+0.2	0	0	0	0	0	0	0	0	0	0	0
Vishakhapatnam	27·4	−1.7	29·6	2	16·7	−1·7	13·0	29	0	0	−14·5	0	...	0	−0·9	18·0	8·6	+3·1	0	0	0	0	0	0	0	0	0	0	0
Kakinada	26·7	−0·2	27·5	5 days	18·0	−1·1	15·2	31	0	0	−17·8	0	...	0	−0·8	17·1	12·6	+2·3	0	0	0	0	0	0	0	0	0	0	0
Nidadavole	28·8	...	30·5	2	17·4	...	13·9	29	0	0	...	0	...	0	...	8·6	7·0	...	0	0	0	0	0	0	0	0	0	0	0
Rentachintala	29·5	−0·4	30·9	16	16·4	−0.2	11·3	30	0	0	−3·1	0	...	0	−0·4	5·5	3·7	−1·4	0	0	0	0	0	0	0	0	0	0	0
Gannavaram	28·6	−1·2	29·9	16	18·6	−0·5	15.0	29	0	1·4	−3.7	1·4	20	0	−0·8	13·3	10·1	+0.7	0	1	0	0	0	0	0	0	0	0	0
Nagarjunakonda	30·2	..	32·2	17	17·7	..	10·6	30	0	0	...	0	...	0	...	10·8	8·3	..	0	0	0	0	0	0	0	0	0	0	0
Masulipatam	27·4	−0.7	28·8	17	...	...	...	...	2·2	14·0	−2·5	10·6	17	1	+0.1	7.5	5.1	−1.7	0	3	0	0	0	0	0	0	0	0	0
Ongole	27·1	...	30·3	18	18·8	...	15·7	29	0	0	..	0	...	0	...	9·3	5·7	..	0	0	0	0	0	0	0	0	0	0	0
Nellore	28·6	−0.1	29.8	19,21	19·8	−0·4	16·8	25	0	0	−72.6	0	...	0	−3·0	3·9	3·9	−0·9	0	0	0	0	0	0	0	0	0	0	0
Telangana																													
Ramagundam	29·0	−1·0	31·4	12	15·9	+1·2	11·1	29,30	0	0	−0·4	0	...	0	−0·2	7·9	5·1	+1·7	0	0	0	0	0	0	0	0	0	0	0
Nizamabad	27·7	−1·0	29·9	14	14·7	+1·9	10·6	29	0	0	−4·6	0	...	0	−0 4	7·0	5·1	+2·2	0	0	0	0	0	1	0	0	0	0	0
Hanamakonda	28·3	−0·1	30·3	7	17·1	+1·4	13·0	28	0	0	−5·8	0	...	0	−0 4	7·9	6·0	+1·8	0	0	0	0	0	0	0	0	3	0	
Hakimpet (Aerodrome)	26·3	..	28·1	19	15·4	...	12·7	31	0	3·8	...	3·8	19	1	...	...	...	...	0	1	0	0	0	6	0	0	0	0	0
Bhadrachalam	28·8	−0·9	30·4	13	15·4	−0·3	9·8	29,30	0	0	−11·1	0	...	0	−0·6	5·7	3·8	0	0	0	0	0	0	0	0	0	0	0	0
Hyderabad (Begampet)	27·0	−0·7	28·9	19	13·9	+0·6	8·7	29	0	0	−7·6	0	...	6	−0·4	12·7	8·3	+1·5	0	0	0	0	0	2	0	0	0	0	0
Khammam	29·1	...	30·6	14,15	17·0	...	11·7	30	0	0	...	0	...	0	...	4·5	3·3	...	0	0	0	0	0	0	0	0	0	0	0
Mahbubnagar	28·2	...	30·0	3	15·8	...	12·3	27	0	0	...	0	...	0	...	11·5	9·7	...	0	0	0	0	0	0	0	0	0	0	0
Rayalaseema																													
Kurnool	29·9	−0·3	31·4	19	16·7	−0·7	9·5	30	0	0	−5·1	0	...	0	−0·3	7·2	5·5	+1·6	0	0	0	0	0	0	0	0	0	0	0
Anantapur	29·2	+0·3	31·4	19	17·6	+0·5	12·3	29	0	0	−7·3	0	5	0	−0·6	12·0	11·0	+2·2	0	0	0	0	0	0	0	0	0	0	0
Cuddapah	29·2	−0·8	31·0	19	18·6	−0·1	14·1	26	0	0	−20·6	0	...	0	−1·5	9·7	7·0	−0·2	0	0	0	0	0	0	0	0	0	0	0
Arogyavaram	25·4	...	27.7	20	15·2	...	11·7	28	0·4	5·0	...	4·6	1	1	..	8·5	6·0	...	0	2	0	0	0	0	0	0	0	0	0
Madras State																													
Madras	27·9	...	29·9	14	21·0	...	17·3	27	..	11·8	...	6·5	12	2	...	...	9·7	...	0	3	0	0	0	0	0	0	0	0	0

Division and Station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5 mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0.2mm	Precipitation (0.3 mm or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20(a)	20(b)	21	22	23	24	25	26	27	28	29
Madras State—(Contd.)																													
Madras(Minambakkm)	27·7	−1.2	28·8	19	20.3	−0·2	17·0	26	0	9·6	−128·8	5·1	10	2	−3·4	18.9	12.2	−1·5	0	3	0	0	0	0	0	0	0	0	0
Vellore	28·6	+0.6	30.4	19	18·3	+0·1	14·6	26	2·0	5.5	—61·0	2.6	1	1	−2·9	7·5	8·0	+4·	0	4	0	0	0	0	0	0	0	0	0
ambaram(Aerodrome)	28.5	..	29·6	18	..	..	..	..	0	18·8	..	13·5	4	2	..	..	..	..	0	2	0	0	0	0	0	0	0	0	0
Tiruppattur	28·4	..	30 4	20,31	16·6	..	13 2	28	0	0.6	..	0·6	4	0	..	6·2	4·9	...	0	1	0	0	0	1	0	0	0	0	0
Cuddalore	27·3	—0·8	28.7	19	20·6	—0·6	17·2	28	69·4	230·9	+40·6	51·4	13	7	+0·7	17·1	12·3	+4·6	1	8	0	0	0	0	0	0	0	0	0
Kallakkurichchi	28·0	..	30·0	19	20·6	..	18.7	27	22·8	39·6	..	13·8	1	5	..	12·3	9·6	..	0	6	0	0	0	0	0	0	0	0	0
Salem	29·7	—0·4	31·8	23	19·8	+1·0	17·5	28	9·2	22·0	—4·2	11·8	1	3	+0·8	11·3	11·2	+5·9	0	3	0	0	0	0	0	0	0	0	0
Coimbatore (Pilamedu)	28·1	..	30·1	30	16·6	..	12·9	29	0	23·3	..	20·0	5	2	..	15·0	10 6	...	0	2	0	0	0	0	0	0	0	0	0
Coimbatore	28.6	−0·5	30·9	30	18·8	−0.1	14·3	29	0·6	26 6	—7·9	13·2	5	2	−0·6	10·1	6·7	+2·7	0	4	0	0	0	0	0	0	0	0	0
Nagapattinam	27·0	−0·8	28·4	19,23	22·7	+0·3	19·8	28	99·8	261·5	−16·6	102·6	4	10	+0·9	20·4	19·5	+6·1	0	11	0	0	0	0	0	0	0	0	0
Tiruchchirappalli	29·0	−0·5	30·3	20	20·9	+0·1	19·0	26,28	5·2	58·4	−12·7	43·0	5	2	−2·1	16·0	13·2	+4·5	2	5	0	0	0	0	0	0	0	0	0
Vedaranniyam	28.7	..	30 5	1	..	..	..	..	56.6	223·7	..	82·4	4	9	...	14·1	11·8	..	0	12	0	0	0	0	0	0	0	0	0
Atirampattinam	29·0	..	30·8	1	21·4	..	19·0	26,28	38·8	68·6	..	24 2	4	4	...	14·1	11 0	...	0	10	0	0	1	0	0	0	0	0	0
Madurai	29·8	+0·5	31·4	1,29	21·8	+0·6	19·9	26	2·4	52·4	+1·3	28·6	5	3	−0·6	9·9	7·6	+0·8	0	3	0	0	0	0	0	0	0	0	0
Madurai(Aerodrome)	29·2	..	30·4	19	21·0	..	18·8	24	6·2	35·4	..	21·6	5	2	..	17.1	12·7	...	0	4	0	0	1	0	0	0	0	0	0
Tondi	29·6	..	30 8	14	21·9	..	20·1	26,28	0·8	31·8	..	12·0	3	4	..	17·8	14·6	..	0	5	0	0	0	0	0	0	0	0	0
Pamban	27 9	−0·2	31·0	2	23·6	−0·2	22·5	9,19	9·2	119·6	—73·2	85·0	8	5	—4·4	15·4	16·2	−2·1	2	8	0	0	0	0	0	0	0	0	0
Tuticorin	27·6	−0·2	28·4	14,15	21·8	−0·8	20 0	29	3·6	119·7	+23·6	87·6	5	5	+1·0	23·1	22·0	+2·0	0	5	0	0	0	0	0	0	0	0	0
Palayankottai	29·4	−0·8	31·1	20	21·5	−1·1	20·2	29	8·0	68·6	−34·8	51·4	5	2	—3·2	8·3	6·6	−2·2	0	9	0	0	0	0	0	0	0	0	0
Kanniyakumari	29·9	..	31.1	30	23·4	..	21·4	29	0	30.8	..	11·6	5	4	..	28 6	25·7	...	0	5	0	0	0	0	0	0	0	0	0
Coastal Mysore																													
Karwar	32.7	+0·6	34·4	6.13,14	19·5	+0·1	14·9	30	0	0	—5·8	0	..	0	−0·4	10.1	5 9	..	0	0	0	0	0	0	0	0	0	0	0
Honavar	33·2	+0·5	35·1	3,13	21·0	+0·1	18·0	30	0	0	5·1	0	..	0	−0·4	10·0	8·5	+3·8	0	0	0	0	0	0	0	0	0	0	0
Mangalore (Bajpe)	32·5	..	33·7	2	21 4	..	18·7	28	0	2·5	..	2·4	1	0	..	10·5	7·4	..	1	1	0	0	0	0	0	0	0	0	0
Mangalore	33.0	+1·3	34·8	2	21.5	—0.3	18·9	29	0	4·2	−8·7	4·2	1	1	+0·3	10·5	8·5	+1·3	0	1	0	0	0	0	0	0	0	0	0
Interior Mysore (North)																													
Bidar	27·0	—0.3	30·5	12	15·4	—1·0	13·2	23,31	0	0·8	−5·3	0·8	22	0	−0·5	13·3	10.9	+2.0	0	1	0	0	0	0	0	0	0	0	0
Gulbarga	29·1	—0·6	31·0	7	15·1	+0·3	10·0	30	0	0	−3·8	0	..	0	—0.3	10·5	9·6	+1·7	0	0	0	0	0	0	0	0	0	0	0
Bijapur	29·4	+0·4	32·0	7	16·7	+1·9	12·2	30	0	0	−6·3	0	..	0	−0·6	5·6	4·3	+0·6	0	0	0	0	0	0	0	0	0	0	0
Raichur	29·1	—0 2	30·7	18	17·7	+0·1	15·0	29	0	0	−3·3	0	..	0	−0.3	10.3	10·7	+2·2	0	0	0	0	0	0	0	0	0	0	0
Belgaum	29·8	+0·6	31·6	8	15·0	+1.1	10.7	31	0	0	−8·6	0	..	0	−0·5	8·1	6·5	+0·7	0	0	0	0	0	0	0	0	0	0	0
Belgaum (Samra)	28·4	..	29·8	7,8	15·7	..	10·7	31	0	0	..	0	..	0	..	..	..	..	0	0	0	0	0	0	0	0	0	0	0
Gadag	29·4	+0·8	31·7	7	16·7	+0·4	13·2	30	0	0	−10·4	0	..	0	−0·6	10·1	8·2	+1·1	0	0	0	0	0	0	0	0	0	0	0
Interior Mysore (South)																													
Bellary	29·4	−0·4	31·2	3	17·6	+1·0	13·4	30	0	0	−3·3	0	..	0	−0·3	8·9	6·1	+2·2	0	0	0	0	0	0	0	0	0	0	0
Chitradurga	27·4	−0·6	29·9	18	16·9	+0·3	12·8	29	0	0	−13·2	0	..	0	−0·8	9·6	7·7	+0·3	0	0	0	0	0	0	0	0	0	0	0
Shimoga	29·4	+0·4	31·2	31	15·2	+1·0	10·7	28	0	0	−6·6	0	..	0	−0·5	8·2	4·6	+0·1	0	0	0	0	0	0	0	0	0	0	0
Agumbe (R)																													
Kalehonnur	26·9	+0·8	28·9	25	15·2	+0·4	11·1	29	..	0·3	−11·6	0·3	12	0	−0·8	..	..	...	0	1	0	0	0	0	0	0	0	0	0
Kasan	26·8	−0·2	28·5	14	15 0	+0·8	11·1	28	0	0	−16·8	0	..	0	−1·1	6.9	4·6	−0·2	0	0	0	0	0	0	0	0	0	0	0
Mangalore	26·2	+0·5	27·7	31	15·5	+0·9	11 2	29	0·6	2·9	−8·3	2.3	1	0	−1·2	10·9	10·0	+2·3	0	2	0	0	0	1	0	0	0	0	0
Mangalore Aerodrome.)	26·9	..	28·4	31	15·1	...	11·5	28	0·4	2·6	..	2·2	1	0	...	..	..	...	0	2	0	0	0	5	0	0	0	0	0
Mysore	29·2	+1·5	30·6	2	17·7	+1·5	14·8	27,28	0	3·2	−7·0	3 2	1	1	+0·1	14·5	11·4	+1·3	0	1	0	0	0	5	0	0	0	0	0
Kerala																													
Calicut	31·9	+1·0	32·9	31	22·7	+0·9	19·4	7	0	0	−25·7	0	..	0	−1·6	10·0	9·1	+2·7	0	0	0	0	0	0	0	0	0	0	0
Palghat	31·6	..	33·6	20,30	21·9	..	17·2	29	0	7·0	...	7·0	5	1	..	14·0	11·8	..	0	1	0	0	0	0	0	0	0	0	0
Port Cochin	31·1	+0·8	34·4	6	23·8	+0·4	22·7	7,17,21	0	1.9	−38·7	1.1	11	0	−2·5	10·9	8·4	+2·6	0	2	0	0	1	0	0	0	0	0	0
Cochin (Naval Air Station)	32·0	..	33·6	6	22·7	...	18·9	29	0	1·9	..	1·4	11	0	..	10·7	7·5	..	0	2	0	0	1	0	0	0	0	0	0
Alleppey	32·0	+0·6	33·8	4	22·7	−0·1	20·5	29	0	127·8	+79.7	67·4	1	3	−0·5	11·9	7·9	−0·1	0	3	0	0	2	0	0	0	0	0	0
Punalur	32·3	..	34·3	19	21·0	...	16·7	29	0	17·0	...	11·4	5	2	..	8·6	4·1	..	0	2	0	0	0	0	0	0	0	0	0
Trivandrum	31·3	+0·6	33·3	2	22·9	+0·5	20·5	29	6·3	13·5	−49·2	9·3	5	1	−2·7	6·2	4·8	+0·6	0	4	0	0	1	0	0	0	0	0	0
Trivandrum (Aerodrome.)	30·8	..	31·9	6	22·3	...	19·7	27	..	16·0	...	10 6	1	2	..	..	5·8	..	2	6	0	0	1	0	0	0	0	0	0
Indian sea Islands																													
Minicoy *																													
Stations excluding Kashmir																													
Dalhousie	13·6	−1·5	17·5	5	4.6	−0·5	1·4	17,18	21·0	43·0	—48·7	30.0	17	3	−1·1	5·1	5·3	+2·4	0	3	0	0	0	0	0	0	0	0	0
Dharmsala	14·4	−2·5	18·4	5	5.4	−2·9	1.7	20	41·6	72·2	+18·4	31.8	17	4	+1·5	3·8	3·1	−0·7	0	4	0	0	0	0	0	0	0	0	0
Simla	8·9	−1·4	14·6	1	2·1	−2·0	−2·5	19	27·1	54·2	+22·7	37·5	18	3	+0·6	3·9	3·1	+1·0	0	4	4	0	0	2	0	0	0	0	0
Dharmpur	..	...	..	..	..	..	..	..	..	36·0	−9·2	18·0	18	2	−0·5	...	..	...	0	3	..	..	...	...	..	..	...	...	...
Mukpal	−5·4	...	1·6	4	—11·3	..	−12·9	19	..	190·0	...	100.0	17	3	...	..	...	...	0	3	3	0	0	11	0	28	0	0	0
Badrinath										Closed during winter months																			
Joshimath	10·1	..	15·6	23	1·4	..	2·4	19	35·8	106·8	..	70·0	17	3	...	(a) 1·3	2·3	..	0	3	3	0	0	0	0	0	0	0	0

*Data given as addenda.

(g) Mean of 30 days.

(R) Register not received.

Division and station	Air temperature in °C: Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Rainfall in millimetres: Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	No. of rainy days (2·5mm. or more): Total in the month	Departure from normal	Wind speed, km. per hour: Mean between 30—1730 hours	Mean 24 hours	Departure from normal	Weather phenomena—No. of days with: Precipitation (0.1 and 0·2 mm.)	Precipitation (3mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squal	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20(b)	21	22	23	24	25	26	27	28	29
Hill Stations excluding Kashmir—*contd.*																													
Mussoorie	(c) 11·1	—0·9	..	..	(c) 2·7	—1·5	..	..	..	..	..	..	..	..	..	(c) 8·8	(c) 6·0	—1·2	..	..	2	0	0	0	0	29	0	0	0
Mukteswar	10·8	—1·0	16·6	2	1·4	—2·2	—3·8	19	30·0	53·0	+26·3	40·0	18	2	+0·2	6·9	8·1	—0·3	0	3	2	0	1	3	0	31	0	0	0
Nainital	10·6	—2·5	17·3	2	0·3	—3·2	—3·3	19	29·0	58·0	+22·7	30·0	19	2	+0·9	6·6	5·6	—1·1	0	2	2	0	0	1	0	0	0	0	0
Kalimpong	19·1	+2·3	22·4	19,24	10·6	+1·6	5·6	3	0	0	—8·1	0	..	0	—0·7	5·5	4·2	—6·7	0	0	0	0	0	0	0	0	0	0	0
Darjeeling	10·3	—0·9	13·9	2	2·6	—1·0	0·4	19	0·7	7·1	+0·2	7·1	19	1	+0·3	2·2	1·5	+0·2	0	1	2	0	0	1	0	0	0	0	0
Kohima (R)																													
Shillong	15·1	—1·3	17.4	26	3·4	—1·0	1·1	15,18,24	0	4·4	—2·7	3·0	15	1	+0·1	4·4	3·8	+1·9	0	2	0	0	0	0	0	0	0	0	0
Cherrapunji	14·6	—2·2	17·3	1	7·7	—1·2	6·3	20	3·0	3·0	—9·5	3·0	14	1	+0·3	6·1	5.3	+1·3	0	1	0	0	0	0	0	0	0	0	0
Abu	21 8	+1·6	23.7	11 days	7·2	—4·2	3·4	20	0	0	—3·1	0	...	0	—0.3	6·6	3·6	—1·1	0	0	0	0	0	0	0	0	0	0	0
Aijal	19·8	—	22.7	28	11·5	..	8·6	16	0	0	..	0	...	0	...	6·5	6·5	...	0	0	0	0	0	0	0	0	0	0	0
Pachmarhi	21·5	—0·3	23·5	9,10	6·7	—1·0	2·4	20	0·2	8·2	—2·7	5·4	10	2	+1·2	5·6	2·8	—0.1	0	2	0	1	1	0	0	0	0	0	0
Mahabaleshwar	23·9	+1·3	26·0	8	12·7	—0·9	10·4	18	0	0	—6.6	0	...	0	—0·6	9·4	9·4	—2·0	0	0	0	0	0	1	0	0	0	0	0
Mercara	24·1	+0·3	26·5	19	14·3	0	10 6	28	0	28·6	+10·3	26·2	1	1	—0·2	(c) 11·6	(d) 10·3	+2·9	0	2	0	0	0	0	0	0	0	0	0
Ootacamund	19 1	+0·8	24·4	30	..	...	..	..	2·6	57·2	+13·5	25·4	5	3	—0·7	5·7	5·0	+0 3	0	3	0	0	0	0	0	0	0	0	0
Coonoor*																													
Kodaikanal	15·8	—0·7	18 4	10	8·1	—0·3	5·5	16	49·1	210·4	+79·3	106·8	5	7	—0·1	13·3	13·7	+0·5	1	10	0	0	0	12	0	0	0	0	0
Nepal																													
Katmandu	17·3	..	21·0	3	2·0	..	—1·7	30	2·2	13·0	...	7·4	18	2	...	1·4	0.9	...	0	2	0	0	1	21	0	10	0	0	0
Sikkim																													
Lachen	5·6	...	9·7	2	—2·7	...	6·4	20	..	18·0	...	..	..	...	...	...	..	...	...	..	0	0	0	0	0	0	0	0	0
Hydrometeorological Observatories																													
Damodar Catchment																													
Tilaiya	20·1	...	24·2	12	7·9	...	4 4	25	4·8	6·0	...	4·8	19	1	...	9·0	5·3	...	0	2	0	0	0	6	0	0	0	0	0
Hazaribagh	19·7	...	23·7	12	6·4	...	0·3	24	9·8	20·8	...	11·0	18	2	...	9.6	5.2	...	0	2	0	0	0	6	0	4	0	0	0
Konar	...	...	...	8 days	...	...	...	...	3·8	5·6	...	3·8	18	1	...	...	..	...	1	0	0	0	0	1	0	0	0	0	0
Bokaro	23 4	...	25·9	...	7·2	...	2·6	27	1·3	1·3	...	1·3	19	1	...	6·7	4·8	...	0	1	0	0	0	5	0	0	0	0	0
Maithon	22·1	...	26·0	12	9·8	...	6·4	30	0	0	...	...	...	0	...	...	...	...	0	0	0	0	0	15	0	0	0	0	0
Ramgarh	23·1	..	27·6	13	7·2	...	0·6	24	2·0	2·2	...	2·2	88	0	...	...	1·4	...	0	1	0	0	0	3	0	0	0	0	0
Panchet Hills	23·7	...	26·6	1,13	10·1	...	5·1	26	0·2	..	...	0·2	19	0	...	5·1	4·0	...	1	0	0	0	0	0	0	0	0	0	0
Durgapur	25·3	...	27·9	13	9·5	...	6·1	24,26	0	0	...	0	...	0	...	10·6	8·2	...	0	0	0	0	0	0	0	0	0	0	0
Mahanadi Catchment																													
Ginabahar	24·7	...	27·2	2,3,6	7·0	...	3·9	26,27	...	2·2	...	2·0	19	0	..	...	...	...	1	1	...	...	...	...	...	...	...	...	...
Hirakud	24·8	...	27·2	12	12·2	...	8·7	24	0·4	5·8	...	4·4	12	2	...	5·6	3·1	...	0	3	0	0	0	5	0	0	0	0	0
Bhimkund	24·5	...	26·7	11,12	11·5	...	6·1	4 days	0	0	...	0	...	0	...	4·7	2·2	...	0	0	0	0	0	1	0	0	0	0	0
Sonepur	25·7	...	28·3	4,12	11·1	...	7·8	30	0	0	...	0	...	0	...	...	2·6	..	0	0	...	...	...	...	...	...	...	...	...
Khijrawan	25·8	...	28·6	13	10·1	...	6·1	29	0	14·0	...	14·0	12	1	...	4·4	3·7	...	0	1	0	0	0	0	0	0	0	0	0
Narbada Catchment																													
Bagra Tawa	25 2	...	28·4	18	9·3	...	6·8	23	0	2·0	..	2·0	10	0	...	5·5	3·4	...	0	1	0	0	1	0	0	0	0	0	0
Punasa	27·8	...	30·9	4	11·1	...	7·5	20	0	0	...	0	...	0	...	5·5	2·8	...	0	0	0	0	0	0	0	0	0	0	0
Thikri	28·4	..	31·1	1	11·3	...	5·7	20	...	0·2	..	0·2	21	0	...	1·0	0	...	0	0	0	0	0	0	0	0	0	0	0
Sabarmati Catchment																													
Daroi	27·8	...	31·8	1	11·6	...	9·4	19	0	0	...	0	...	0	...	...	...	...	0	0	..	..	...	..	..	..	..	..	.
Ganga Catchment																													
Mukhim	11·4	...	16·8	1	(d) 3·0	...	0·2	21	80·0	132·6	...	72·4	18	3	...	...	...	...	0	3	3	0	1	0	0	0	0	0	0
Tehri	18·3	...	23·7	1	(i) 1·4	...	—1·5	18,22	37·3	100·9	...	48·2	18	3	...	2·0	1·3	...	0	3	1	0	0	7	0	0	0	0	0
Gandak Catchment.																													
Jomosom	9·8	...	14·7	3	(a) —3·8	...	—6·4	22	2·0	4·6	...	2·6	18	1	...	...	...	...	0	2	...	...	...	...	...	...	...	...	...
Khudi Bazar	...	...	...	...	...	...	...	...	15·9	34·9	...	18·6	18	2	...	...	...	...	0	4	...	...	...	...	...	...	...	...	...
Timure	14·1	...	17·8	3	2·2	...	—0·6	15	12·7	31·3	..	16·3	18	2	...	...	—	...	0	2	...	...	...	...	...	...	...	...	...
Pokhara	18·3	...	21·3	1,4	6·5	...	4·0	26	10·8	27·3	...	15·9	18	2	...	4·7	4·4	...	0	2	0	0	2	0	0	0	0	0	0
Gorkha †																													
Nuwakot	(a) 19·2	...	22·4	4	6·7	...	3·3	15	7·0	1	...	8·2	17	3	...	...	...	...	0	4	...	...	...	...	...	...	...	...	...

(a) Mean of 30 days. (c) Mean of 28 days. d) Mean of 27 days. (i) Mean of 22 days. *Data not available. †Data not reliable. (R) Register not received.

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Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2·5mm. or more)		Wind speed, kms. per hour			Weather phenomena—No. of days with										
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 or 0·2 mm.)	Precipitation (0·3 mm. or more)	Snow or sleet	Hail	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Line squall
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 (a)	20 (b)	21	22	23	24	25	26	27	28	29
Hydrometeorological Observatories—*Contd.*																													
Ghaghara Catchment (Trans Himalayan Region)																													
Dailekh (R) . .																													
Ghaghara Catchment																													
Mansiari (R) . .	...	...	...	...	...	...	...	...	22·2	103·7	...	53·0	17	3	...	2·7	2·9	...	0	3	3	0	0	0	0	0	0	0	0
Dadeldhura . .	11·1	...	18·5	2	3·3	...	−0·8	18	15·4	50·4	...	43·8	18	2	...	...	...	...	2	2	0	0	0	3	0	0	0	0	0
Sallyana . .	15·4	...	20·3	2	6·2 (b)	...	3.0	19,21	0	39·5	...	25·5	18	3	...	...	...	...	0	3	..	..	..	..	..	..	..	..	..
Butwal . .	21·4	...	25·5	1	11·8 (a)	...	6·4	25,26	4·5	16·5	...	12·0	18	2	...	...	...	...	0	2	...	...	...	...	...	...	...	...	...
Bagmati Catchment																													
Katmandu ‡ . .																													
Kosi Catchment																													
Chautara . .	16.7	...	19.9	3	5·9	...	3·1	15,20	3·9	15·4	...	9·0	18	2	...	...	...	...	0	3	...	...	...	...	...	...	...	...	...
Chepua . .	...	...	...	...	...	...	...	...	18·4	108·4	...	66·6	13	8	...	...	...	...	0	9	...	...	...	...	...	...	...	...	...
Walungchung Gola	5·5	...	11·1	5	−5·9	..	−8·8	15,19,20	4·9	12·0	...	4·5	18	2	...	...	...	..	1	5	...	...	...	...	...	...	...	...	...
Taplethok . .	17.3	...	19·8	4 days	6·4	...	3·3	24,25	4·0	31·0	...	8·6	14	4	...	...	...	...	1	5	0	0	0	0	0	0	0	0	0
Bhojpur .	14·4	...	17·7	29	6·2	...	3·5	15	7·0	20·0	...	12·0	19	2	...	...	...	...	0	2	...	...	...	...	...	...	...	..	..
Taplejung . .	13·7	...	16·7	2,29	3·4	...	0·8	24	7·[illegible]	27·0	...	11·4	13	2	...	...	...	...	2	6	0	0	0	2	0	12	0	0	0
Okhaldunga . .	13·7	...	16·6	1	4·2	...	1·1	15	5·8	16·2	...	4·2	13	3	...	2·6	2·1	...	0	4	0	2	1	1	0	13	0	0	0
Chainpur . .	18·0	...	20·5	4	8·7	...	5·8	13	1·0	5·4	...	5·4	19	1	...	...	...	...	0	1	...	...	...	...	...	...	..	...	...
Angbung . .	...	...	...	..	7·4	...	5·1	30	4·0	4·0	...	4·0	27	1	...	...	...	...	0	1	0	0	0	0	0	0	0	0	0
Barahakshetra .	22·9	...	25·4	1	10·6	...	7·5	24	1·2	1·5	...	1·5	19	0	...	7·7	5·9	...	0	1	0	0	0	0	0	0	0	0	0
Tista Catchment																													
Gangtok . .	13·9	...	18·1	29	4·0	...	1·0	15	20·4	33·8	...	10·7	15	4	...	1·9	1·9	...	1	7	0	0	0	3	0	13	0	0	0
Gezing . .	16·2	...	20·9	29	5·4	...	2·2	15	6·2	12·4	...	9·5	19	2	...	...	...	...	0	2	...	...	...	...	...	...	...	...	...

(R)—Register not received. ‡Data included under Nepal. (b) Mean of 29 days. (a) Mean of 30 days.

Division and station	Air temperature in °C								Rainfall in millimetres					No. of rainy days (2.5 mm. or more)		Wind speed, Km. per hour.			Weather phenomena—No. of days with											
	Mean maximum	Departure from normal	Highest	Date	Mean minimum	Departure from normal	Lowest	Date	Total fall during 0830-1730 hours	Total fall in 24 hours	Departure from normal	Heaviest fall in 24 hours	Date.	Total in the month	Departure from normal	Mean between 0830-1730 hours	Mean 24 hours	Departure from normal	Precipitation (0·1 and 0·2 mm.)	Pricipitation (0.3mm. or more)	Snow or sleet	Hail.	Thunder heard	Fog	Dust-storm	Ground frost	Gale	Squall	Fire-cloud
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20a	20b	21	22	23	24	25	26	27	28	2
Arabian Sea Islands																														
January																														
Amini . . .	32·0	+1·4	33·7	18	23·5	0	21·0	26	3·6	5·6	—11·2	4·6	14	1	—0·1	7·5	4·8	—1·3	0	2	0	0	1	0	0	0	0	0	0
Minicoy . . .	30·1	+0·6	32·3	13	23·2	+0·4	20·3	25	40·3	114·9	+68·4	28·6	18	7	+4·4	..	6·7	—0·2	0	9	0	0	3	0	0	0	0	0	0
February																														
Amini . . .	32·2	+1·1	34·4	18	24·9	+0·4	22·4	16	0	0	—1·8	0	..	0	—0·3	9·0	9·0	+1·1	0	0	0	0	0	0	0	0	0	0	0
Minicoy . . .	29·6	—0·1	30.6	19	24·3	+0·6	21·9	28	11·6	94·8	+76·8	83·0	19	2	+0·8	9·8	7·9	+0·5	0	2	0	0	1	0	0	0	0	0	0
March																														
Amini . . .	32·3	+0·2	33·8	27	25·5	+0·1	23·1	10	0	0	—4·1	0	..	0	—0·2	8·1	8·1	—0·1	0	0	0	0	0	0	0	0	0	0	0
Minicoy . . .	30·7	+0·5	32·0	31	24·0	—0·9	21·3	18	0	0	—22·3	0	..	0	—1·5	9·3	7·0	—0·1	0	0	0	0	1	0	0	0	0	0	0
April																														
Amini . . .	33·2	+0·1	35·5	2	27·2	+0·5	24·9	4	0	0	—29·2	0	..	0	—1·6	11·0	9·8	+0·6	0	0	0	0	0	0	0	0	0	0	0
Minicoy . . .	31·4	+0·6	32·1	11,25	26·3	—0·1	23·4	29	49·1	62·5	+4·1	26·6	3	4	+0·5	10·7	8·5	—0·8	1	5	0	0	8	0	0	0	0	0	0
May																														
Amini . . .	32.2	—0·7	35·1	6,15	26·4	—0·9	22·7	23	285·6	589·6	+476·6	153·4	23	15	+10·2	15·3	14·6	+2·4	0	16	0	0	8	0	0	0	0	0	0
Minicoy . . .	31·2	—0·1	32·2	10,21	25·8	—0·4	23·2	7	114·0	252·6	+74·8	38·4	19	12	+3·3	14·1	12·8	+0·7	1	17	0	0	9	0	0	0	0	2	0
June																														
Amini . . .	29·7	—0·9	32·0	10	24·7	—0·9	22·4	28	401·6	847·8	+479·3	199·2	5	20	+3·2	15·5	14·9	—4·9	0	24	0	0	5	0	0	0	0	0	0
Minicoy . . .	29·9	—0·1	31·2	3,30	24·9	—0·3	23·3	13	154·2	338·6	+44·0	74·8	6	13	—4·0	15·7	14·6	—4·4	1	20	0	0	1	0	0	0	0	0	0
July																														
Amini . . .	29·3	—0·4	30·9	20	25·1	—0·2	22·9	21	146·8	420·6	+120·6	75·8	23	17	+1·3	15·7	16·0	—6·5	0	20	0	0	4	0	0	0	0	0	0
Minicoy . . .	29·9	+0·5	31·1	15	24·3	—0·6	22·2	22	102·3	174·0	—51·0	40·0	26	15	+1·3	15·0	12·9	—5·9	0	22	0	0	5	0	0	0	0	0	0
August																														
Amini . . .	29·5	—0·1	30·6	9,27	25·3	0	23·6	3	41·3	175·0	—22·1	25·8	1,2,10	15	+3·7	22·4	22·1	+1·0	0	23	0	0	1	0	0	0	0	0	0
Minicoy . . .	29·5	+0·2	30·4	23	24·4	—0·7	22·4	8	88·2	281·4	+83·0	35·4	11	18	+6·2	15·7	14·3	—1·8	2	22	0	0	2	0	0	0	0	0	0
September																														
Amini . . .	29·7	—0·1	31·5	5	25·0	—0·2	23·1	22	93·8	293·8	+142·4	51·0	22	17	+6·9	12·1	12·6	—4·0	0	19	0	0	1	0	0	0	0	0	0
Minicoy . . .	29·9	+0·5	31·0	8	24·1	—1·0	21·8	5,6	69·4	137·8	—22·2	44·2	11	11	+0·9	11·5	9·4	—4·8	1	18	0	0	3	0	0	0	0	0	0
October																														
Amini . .	30·5	+0·3	33·2	20	24·8	—0·2	23.0	27	58·7	199·3	+53·5	135·4	27	8	—0·6	10·4	9·0	—1·0	0	14	0	0	0	0	0	0	0	0	0
Minicoy . . .	30·2	+0·6	32·0	22	24·2	—0·2	22·2	28	26·7	96·9	—88·0	30·1	27	6	—4·6	9·0	7·6	—3·0	0	11	0	0	1	0	0	0	0	0	0
November																														
Amini . . .	32·2	+1·7	34·0	29	23·7	—0·6	21·9	21,25	51·6	74·7	—2·0	28·8	5	6	+1·1	5·0	2 4	—3·4	0	6	0	0	6	0	0	0	0	0	0
Minicoy . . .	30·8	+1·3	32·5	10	23·8	+0·3	21·9	23	92·9	122·8	—16·4	54·2	26	8	+0·3	7·6	6·5	—2·4	1	12	0	0	6	0	0	0	0	0	0
December																														
Amini . . .	32.2	+1·6	33·5	11	23·6	+0·2	21·3	19	0	27·8	—10·1	21·0	1	2	0	5·6	3·5	—1·6	0	3	0	0	0	0	0	0	0	0	0
Minicoy . .	30·1	+0·4	31.6	13	23·3	0	21·4	22	96·0	159·9	+74·3	46·2	25	7	+2·7	8·2	6·0	—0·9	0	12	0	0	1	0	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, in km. per hour	Wind speed, (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bay Islands																											
Maya Bandar	0830	28	1012.7	1009.6	...	26.4	23.3	21.6	25.8	76	...	3.6	...	5.5	0	1	20	0	16	4	1	0	0	0	0	10	0
	1730	,,	1010.2	1007.0	...	26.1	23.2	21.7	25.9	77	...	3.5	...	7.7	0	0	29	0	24	5	0	0	0	0	0	2	0
Long Island	0830	25	1012.7	1009.8	...	27.1	24.3	23.1	28.3	76	...	4.3	...	3.0	0	0	22	0	21	1	0	0	0	0	0	9	0
	1730	,,	1010.3	1007.5	...	25.0	23.0	22.0	26.4	84	...	4.3	...	1.5	0	0	14	0	14	0	0	0	0	0	0	17	0
Port Blair	0530	79	1010.6	1001.5	...	23.6	22.5	21.8	26.1	90	...	5.6	...	6.6	0	1	19	1	15	4	0	0	0	0	0	11	0
	0830	,,	1012.4	1003.6	−0.5	27.5	24.4	23.0	28.1	77	+6	5.0	+0.8	10.9	0	1	28	2	21	6	0	0	0	0	0	2	0
	1130	,,	1011.0	1002.2	...	28.5	24.8	23.1	28.3	72	...	5.5	...	12.5	0	0	31	0	24	7	0	0	0	0	0	0	0
	1730	,,	1010.0	1001.0	...	25.4	23.1	21.8	26.1	81	...	5.8	...	7.7	0	0	28	2	25	1	0	0	0	0	0	3	0
	2330	,,	1011.5	1002.5	...	24.3	22.9	22.3	26.9	88	...	4.9	...	8.3	0	0	26	2	21	3	0	0	0	0	0	5	0
Car Nicobar	0830	10	1011.6	1010.4	..	27.6	24.6	23.2	28.4	77	...	5.6	...	6.4	0	0	31	0	24	7	0	0	0	0	0	0	0
	1730	,,	1008.9	1007.7	...	26.3	24.2	23.2	28.4	85	...	5.5	...	3.4	0	0	24	0	19	5	0	0	0	0	0	7	0
Mincowry	0830	26	1011.2	1008.3	...	27.4	25.2	24.0	29.8	83	...	5.6	...	0.2	0	0	1	0	0	0	0	0	0	0	0	30	0
	1730	,,	1008.6	1005.7	...	26.0	24.2	23.4	28.8	86	...	5.0	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Kondul	0830	8	1011.1	1010.1	...	26.1	24.4	23.7	29.3	87	..	5.8	...	2.1	0	0	16	0	7	9	0	0	0	0	0	15	0
	1730	,,	1006.3	1007.4	...	26.2	24.5	23.9	29.7	87	..	5.3	...	6.5	0	0	21	0	10	11	0	0	0	0	0	10	0
Assam (Including Manipur, Tripura)																											
Pasighat	0830	157	1017.7	999.2	...	15.5	12.1	8.8	11.3	65	...	2.4	...	26.4	0	21	10	4	0	0	0	0	0	0	27	0	0
	1730	,,	1013.9	995.7	...	15.7	12.9	10.4	12.7	72	...	1.6	...	7.5	0	3	11	0	0	0	0	0	0	0	14	17	0
Dibrugarh (Mohanbari)	0230	111	1014.5	1001.1	...	9.0	8.7	8.3	11.0	95	...	2.0	...	0.2	0	0	1	0	0	0	0	1	0	0	0	30	0
	0530	,,	1015.2	1001.8	...	8.2	7.8	7.5	10.3	95	...	2.7	...	0.5	0	0	3	0	0	0	0	3	0	0	0	28	0
	0830	,,	1017.2	1004.0	−1.6	15.6	13.6	11.8	13.9	79	−19	2.4	−0.2	3.7	0	0	25	0	13	10	0	0	1	0	1	6	0
	1130	,,	1014.9	1002.0	...	21.0	15.2	10.1	12.6	51	...	2.4	...	4.6	0	0	28	1	19	4	2	0	0	0	2	3	0
	1730	,,	1013.2	1000.2	...	15.0	13.2	11.4	13.7	79	...	2.1	...	0.3	0	0	1	0	1	0	0	0	0	0	0	30	0
	2330	,,	1014.9	1001.6	...	10.0	9.6	9.2	11.6	94	...	1.8	...	0.2	0	0	1	0	1	0	0	0	0	0	0	30	0
Dibrugarh	0830	106	1007.1	1004.7	−1.4	17.5	13.9	10.7	12.9	65	−26	1.6	−1.0	0.8	0	0	8	0	2	4	0	1	0	0	1	23	0
	1730	,,	1013.5	1001.1	...	17.8	14.4	11.6	13.7	67	...	1.2	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Digboi	0830	...	...	...	...	17.0	15.4	14.2	16.2	84	...	2.1	...	...	...		...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	17.8	15.7	14.5	16.1	80	...	(o) ...	...	...	...		...	...	...	...	...	...	...	...	...	...	...
North Lakhimpur	0830	102	(o) 1017.7	(o) 1005.6	−0.7	(o) 16.1	(o) 13.6	(o) 11.4	(o) 13.4	(o) 74	−6	(o) 1.6	−1.0	3.0	0	0	29	1	15	7	3	0	0	2	1	2	0
	1130	,,	(o) 1015.3	(o) 1003.5	...	(o) 21.2	(o) 15.3	(o) 10.4	(o) 12.7	(o) 51	...	(o) 1.8	...	3.4	0	0	29	4	10	11	3	1	0	0	0	2	0
	1730	,,	(o) 1013.4	(o) 1001.3	...	(o) 15.7	(o) 13.7	(o) 12.0	(o) 14.0	(o) 78	...	(o) 1.5	...	2.2	0	0	20	4	1	0	0	0	0	2	13	11	0
Sibsagar	0830	97	1018.1	1006.7	−0.5	15.9	14.2	12.8	14.9	79	−15	5.5	−0.4	1.9	0	0	14	1	8	0	1	2	2	0	0	17	0
	1730	,,	1013.7	1002.4	...	19.5	15.8	13.0	15.0	66	...	3.3	...	0.7	0	0	5	0	4	0	0	0	1	0	0	26	0
Jorhat (R)	0830	...																									
(R)	1730	...																									
Walong	0830	77	...	...	...	...	...	...	...	...	.	1.2	...	2.1	0	0	2	0	1	1	0	0	0	0	0	29	0
	1730	,,	...	...	...	...	...	...	...	...	...	1.4	...	0.2	0	0	2	0	1	1	0	0	0	0	0	29	0
Lilabari (Aerodrome)	0530	90	1015.1	1004.3	...	9.6	9.4	9.3	11.6	99	...	3.5	...	0.5	0	0	3	0	1	1	0	0	0	1	0	28	0
	0830	,,	1017.3	1006.6	...	14.9	13.3	12.1	13.9	84	...	3.2	...	3.6	0	1	15	1	8	5	0	0	1	1	0	15	0
	1130	,,	1015.2	1004.8	...	21.3	15.9	11.6	13.6	54	...	2.3	...	9.3	0	2	23	3	16	10	1	0	0	0	0	1	0
	1730	,,	1013.1	1002.6	...	16.6	14.5	12.6	14.8	76	...	2.1	..	1.9	0	0	6	0	6	0	0	0	0	0	0	25	0
	2330	,,	1015.2	1004.4	...	11.7	11.3	10.9	13.1	96	...	1.7	...	1.0	0	0	4	1	2	1	0	0	0	0	0	27	0
Tezpur	0830	78	1016.9	1007.8	...	16.7	13.7	11.1	13.2	70	...	0.2	...	0.2	0	0	1	0	1	0	0	0	0	0	0	30	0
	1730	,,	1013.6	1004.5	...	17.2	13.5	10.4	12.5	64	...	0.2	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	79	1017.4	1008.0	−1.6	15.0	13.3	11.9	13.9	82	−6	1.2	−0.8	1.9	0	0	18	0	18	0	0	0	0	0	0	13	0
	1730	,,	1014.4	1005.1	...	19.0	15.4	12.6	14.6	66	...	0.6	..	4.5	0	0	5	0	5	0	0	0	0	0	0	26	0
Golaghat	0830	...	...	...	...	16.7	14.2	12.1	14.2	75	...	2.7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	...	...	...	...	22.1	17.0	13.1	15.3	58	...	2.9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Rangia (R)	0830	...																									
(R)	1730	...																									
Chaparmukh	0830	66	1018.4	1010.7	...	16.6	14.2	12.3	14.3	76	...	1.7	...	3.7	0	0	31	3	0	19	3	6	0	0	0	0	0
	1730	,,	1013.4	1005.8	...	21.3	17.1	14.3	16.3	64	...	1.6	...	3.6	0	0	31	14	2	12	0	3	0	0	0	0	0
Goalpara	0830	38	1017.4	1012.9	...	15.7	13.8	12.1	14.1	81	...	0.5	...	2.2	0	0	20	0	13	1	2	1	1	0	2	11	0
	1730	,,	1012.2	1007.8	...	23.1	17.3	13.1	15.1	55	...	0.3	...	1.3	0	0	13	1	7	0	2	1	1	0	1	18	0
Gauhati	0830	5	1017.6	1011.0	−0.6	15.0	14.0	13.1	15.1	89	0	0.7	−1.2	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1013.5	1007.0	...	20.1	16.4	13.9	15.7	67	...	1.0	...	0.1	0	0	1	0	0	1	0	0	0	0	0	30	0
Gauhati (Bhorjor)	0230	54	1014.5	1008.1	...	11.2	10.8	10.3	12.6	94	...	1.1	...	0.2	0	0	2	1	0	1	0	0	0	0	0	29	0
	0530	,,	1014.9	1008.3	...	10.1	9.8	9.5	11.9	96	...	2.2	...	0.1	0	0	1	1	0	0	0	0	0	0	0	30	0

(R) Register not received. (o) Mean of 16 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibar: At mean sea level or height in g.p. of nearest standard isobaric level	Mean pressure in millibar: At station level	Mean pressure in millibar: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (oktas): Mean amount	Cloud amount (oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Assam including Manipur, Tripura—(*Contd.*) Gauhati (Bhorjor)—*Contd.*	0830	54	1017·4	1011·0	−0·7	16·1	14·6	13·5	15·5	85	+2	2·4	+0·5	1·2	0	0	9	1	5	0	0	1	0	2	0	22	0
	1130	,,	1015·2	1009·0	...	21·5	16·8	13·4	15·3	60	...	2·2	...	5.8	0	0	28	7	15	1	0	1	0	2	2	3	0
	1730	,,	1013·2	1006·9	...	17·8	15·5	13·7	15·8	77	...	2·6	...	1·6	0	0	16	2	8	1	1	3	1	0	0	15	0
	2330	,,	1015·1	1008·7	...	12·4	11·8	11·4	13·4	94	...	1·3	...	0·2	0	0	2	0	0	1	0	1	0	0	0	29	0
Dhubri (Rupsi)	0530	36	1014·4	1010·1	..	10·3	9·8	9·2	11·7	94	...	0·7	...	1·0	0	0	9	0	8	0	0	0	0	0	1	22	0
	0830	,,	1016·5	1012.2	...	16·0	13·9	12·1	14·1	79	...	1·1	...	5·9	0	0	30	2	17	9	1	0	0	0	1	1	0
	1130	,,	1014.8	1010·6	...	21·5	16·6	12·9	15·0	59	...	1·6	...	8·4	0	0	30	2	4	14	8	0	0	1	1	1	0
	1730	,,	1012·9	1008·6	...	16·6	15·0	13·6	15·6	82	...	0·8	...	0·3	0	0	2	0	2	0	0	0	0	0	0	29	0
Dhubri	0830	35	1017·8	1013·6	−0·2	15 9	14·2	12·8	14·8	82	−1	0·8	−0·9	3·4	0	0	18	0	14	2	2	0	0	0	0	13	0
	1730	,,	1013·8	1009·9	...	19·5	16·0	13·2	15·4	67	...	6·7	...	1·3	0	0	11	0	8	0	0	0	0	1	2	20	0
Lumding	0830	149	1017·4	1000·1	...	14 2	12·9	11·8	13·8	86	−5	0·7	...	0·3	0	0	2	0	0	0	0	0	0	0	2	29	0
	1730	,,	1012·6	995·7	...	19·9	16·8	14·6	16·6	73	...	1·1	...	1·1	0	0	0	0	0	0	0	0	0	0	0	31	0
Umroi	0830	899	...	...	...	11·2	10·3	9·4	11·9	89	...	3·4	...	1·1	0	0	11	0	2	6	3	0	0	0	0	20	0
	1130	,,	...	...	...	18·1	12·3	7·1	10·1	49	...	3·3	...	9·3	0	0	31	4	6	11	4	0	0	0	6	0	0
	1730	,,	...	...	...	13·7	11·7	10·0	12·3	79	...	0·2	...	2·6	0	0	16	8	6	1	0	1	0	0	0	15	0
Tura	0830	370	1017·8	974·5	...	15·9	13·2	10·7	13·0	72	...	1·5	...	2.6	0	0	23	1	0	8	11	1	0	0	2	8	0
	1730	,,	1015·2	971·7	...	20·4	16·0	12·5	14·6	61	...	3 4	...	1·5	0	0	14	0	2	1	3	0	3	1	4	17	0
Haflong	0830	682	1015·9	938·2	...	14·7	12·0	9·8	12·1	73	...	1·8	...	6·3	0	0	31	3	1	0	0	3	14	0	10	0	0
	1730	,,	1012·4	935·2	...	16·2	13·5	11·5	13·6	74	...	1·6	...	7.7	0	0	31	6	7	0	0	1	16	0	1	0	0
Silchar (Kumbhirgram)	0530	97	1013·3	1001·8	...	11·9	11·0	10·1	12·4	90	...	0 7	...	7.7	0	0	31	0	1	30	0	0	0	0	0	0	0
	0830	,,	1015·4	1004·0	..	16·3	13·8	11·7	13·7	74	...	0 6	...	8·9	0	0	31	0	0	25	6	0	0	0	0	0	0
	1130	,,	1010.0	1002·0	...	22·6	16·6	11·7	14·0	51	...	0·6	...	6·2	0	0	30	0	0	11	14	3	2	0	0	1	0
	1730	,,	1011·1	1000·2	...	19·8	15.9	12·8	14·9	64	...	0 4	...	3·0	0	0	23	4	8	1	0	0	1	4	5	8	0
Silchar	0830	29	1016·6	1013.1	−1·2	16·8	14·8	13·2	15·2	79	−4	1 4	−0.6	0·3	0	0	3	0	1	0	2	0	0	0	0	28	0
	1730	,,	1012·9	1009·5	...	20·6	16·4	13·2	15·8	63	...	0·5	...	0·3	0	0	3	1	2	0	0	0	0	0	0	29	0
Imphal (Tulihal)	0530	801	1019·2	927·6	...	5·5	5·4	5·3	8.9	98	...	3·8	...	0·5	0	0	5	1	1	0	1	1	0	0	1	26	0
	0830	,,	1019·7	929·6	−1·3	10.4	9·3	8·1	10·9	87	+6	4·6	+1·7	1·9	0	0	18	0	3	3	0	5	4	1	2	13	0
	1130	,,	1015·1	927·5	...	17·6	13·2	9·5	11·9	60	...	2.3	...	4·5	0	0	27	1	3	1	3	9	7	3	0	4	0
	1730	,,	1013·9	925·5	...	14·4	11.9	9·8	12·1	74	...	1·9	...	3·5	0	0	18	0	3	3	0	5	4	1	2	13	0
	2330	,	1017·9	927 3	...	8·4	8·1	7·8	10.6	97	...	1·7	...	1·3	0	0	12	4	4	0	0	1	0	0	3	19	0
Kailashahar	0530	29	1015·1	1011 6	...	10·5	10·2	9 9	12·2	96	...	1·9	...	3·0	0	0	2	0	0	0	0	0	1	1	0	29	0
	0830	,,	1017·1	1013·7	...	15·8	14·1	12.8	14·8	81	...	0.7	...	0.9	0	0	8	0	0	0	0	4	3	1	0	23	0
	1130	,,	1015·3	1011·9	...	22·7	17·5	13·8	15·7	58	...	1·4	...	3·7	0	0	23	2	2	2	1	1	3	7	5	8	0
	1730	,,	1013·5	1010·0	...	19·3	16·5	14.5	16·5	73	...	0·6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Agartala	0230	16	1013·3	1011·4	..	10·9	10·4	9·8	12·2	93	...	0·5	...	0 7	0	0	5	0	0	1	0	2	0	0	2	26	0
	0530	,,	1013·7	1011·8	...	9·5	9·1	8·8	11·2	95	...	1·9	...	0·7	0	0	7	0	0	1	4	1	0	0	1	24	0
	0830	,,	1015·9	1014·0	−0·4	16·5	14·7	13·2	15 2	81	+2	1·1	−0·1	2·5	0	0	17	6	0	0	0	1	2	3	5	14	0
	1130	,,	1014·3	1012·4	...	23·1	16.5	11·3	13·4	49	...	1·3	...	9·0	0	0	31	5	3	2	1	0	0	4	16	0	0
	1730	,,	1012·5	1010·6	...	19·8	15·7	12·5	14·5	63	...	1·4	...	3·2	0	0	16	4	0	0	0	0	1	0	11	15	0
	2330	,,	1014·0	1012·1	...	12·4	11·5	10·5	12·9	89	...	0·3	...	1·0	0	0	6	0	1	1	2	0	0	0	2	25	0
Sub-Himalayan West Bengal Baghdogra	0230	131	1014.5	998·9	...	11·4	10·5	9·8	12·1	90	...	0·7	...	3.3	0	0	24	13	1	0	0	1	0	5	4	7	0
	0530	,,	1015·0	999·2	...	8·9	8·6	8·4	11·0	97	...	1·1	...	3·5	0	0	23	15	0	0	0	0	1	1	6	8	0
	0830	,,	1017·3	1001·8	−0·6	15·4	13·3	11·7	13·7	78	+2	1·9	+0·1	3·2	0	0	21	3	4	2	2	2	3	2	3	10	0
	1130	..	1015 6	1010·5	...	21·7	16·3	12·5	14·5	56	...	2·5	...	6·7	0	0	28	1	0	5	8	5	8	1	0	3	0
	1730	,,	1013·5	998·1	...	15·9	14·4	13·3	15·3	84	...	2·4	...	4·1	0	0	24	4	0	1	0	0	6	10	3	7	0
	2330	,,	1015·2	999·6	...	12·7	11·6	10·5	12·7	87	...	1·1	...	3·7	0	0	22	12	2	0	1	1	1	2	3	9	0
Jalpaiguri	0830	83	1017·4	1007.5	−0·6	12·7	11 9	11 3	13·4	91	+7	0·7	−0·3	3·5	0	0	29	9	1		0	0	1	5	13	2	0
	1730	,,	1013·3	1003·7	...	19·4	15·5	12·7	14·7	65	...	1·1	...	3·1	0	0	23	1	0	0	3	4	8	6	1	8	0
Cooch Behar	0830	43	1017·4	1012·3	...	15·9	13·7	12·0	14·0	77	...	1·0	...	5·0	0	0	27	0	12	10	1	0	0	0	2	4	2
	1130	,,	1015·7	1010·8	...	21·7	16·0	11·6	13·7	53	...	1·5	...	6·7	0	0	27	0	5	14	1	0	0	1	1	4	5
	1730	,,	1013·5	1008·5	...	17·7	15 0	12·8	14·8	73	...	1·2	...	0·2	0	0	1	0	1	0	0	0	0	0	0	30	0
Balurghat	0830	...	...	...	...	15·5	13.2	11·3	13·4	77	...	1·3	...	2 9	0	0	26	9	3	0	0	0	0	3	11	5	0
	1730	...	...	...	...	20·0	16·0	13·0	15·0	64	...	0·9	...	1 8	0	0	13	3	0	0	0	1	1	6	2	18	0
Malda	0830	31	1017·7	1014·0	−0.4	16·2	13·0	10·2	12·4	69	−4	1·9	+1.3	9·7	0	0	30	5	1	1	1	0	0	4	18	1	0
	1730	,,	1014·1	1010.4	...	18·0	14.4	11·4	13·5	67	...	0.8	...	5·1	0	0	27	4	1	0	0	0	0	7	15	4	0
Gangetic West Bengal Berhampore	0830	19	1017·2	1014·9	−0·8	14·7	12·7	10·6	12·8	76	0	0·7	−0.7	2·8	0	0	23	10	0	0	0	0	1	9	3	8	0
	1730	,,	1013·3	1011·1	...	18·7	14.7	11·5	13·6	63	...	0·5	...	0·9	0	0	7	5	0	0	0	1	0	1	0	24	0
Suri	0830	77	...	...	...	15.2	12·0	9·0	11·5	67	...	0·7	...	5·2	0	0	27	0	0	1	0	0	0	16	10	4	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Gangetic West Bengal-*Contd.*																											
Asansol	0230	126	1015·4	1000·3	...	11·8	10·6	9·4	11·8	85	...	0·2	...	1·9	0	0	14	3	1	0	0	0	0	3	7	17	0
	0530	,,	1015·9	1000·7	...	10·7	9·9	9·2	11·6	90	...	1·2	...	2·3	0	0	11	1	0	0	0	0	0	3	7	20	0
	0830	,,	1017·9	1003·0	−0·1	15·0	12·5	10·5	12·7	74	+7	1·2	−0·2	7·0	0	0	26	1	0	1	0	0	0	3	18	5	0
	1130	,,	1016·4	1001·7	...	21·1	14·7	9·5	11·9	47	...	0·6	...	10·4	0	1	29	3	1	1	2	0	0	6	17	1	0
	1730	,,	1014·0	999.3	...	18·9	14.1	10·1	12·3	57	...	0.9	...	2·3	0	0	13	3	0	0	0	0	0	2	8	18	0
	2330	,,	1016.1	1001·0	..	13·1	11·3	9·3	11·7	80	...	0.4	...	2·8	0	0	11	2	0	0	0	0	0	0	9	20	0
Shanti Niketan	0830	59	1018·0	1010·9	...	15·0	12·6	10·5	12·7	74	...	0·9	...	5·1	0	0	25	6	1	0	0	0	0	3	15	6	0
	1130	,,	1016·3	1009·5	...	21·7	15·4	10·3	12·5	49	...	0·6	...	3·9	0	0	27	14	3	0	1	0	1	0	8	4	0
	1730	,,	1014.1	1007·2	...	17·5	13·8	10·5	12·7	64	...	1·1	...	4·2	0	0	21	9	3	0	0	0	0	1	8	10	0
Krishnanagar	0830	15	1018·0	1016·3	+0·2	15 4	12·8	10 5	12·7	73	−1	0·2	−1·1	0.3	0	0	3	1	0	0	0	0	0	0	2	28	0
	1730	,,	1014.1	1012·4	...	20·3	15·9	12·8	14·8	64	...	0 4	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Purulia	0830	255	1018.5	988.4	−0.5	14·3	11·3	7 5	10·4	61	+2	0 8	−0 1	4·8	0	0	27	0	0	1	0	0	1	2	23	4	0
	1730	,,	1014.4	984.9	...	18·9	13·2	7·7	10·5	49	...	0 9	..	1·3	0	0	12	2	0	0	0	0	0	0	10	19	0
Burdwan	0830	32	1016.9	1013·1	−1.0	16·4	12·9	10·0	12·3	66	−2	0·3	−1.1	1·5	0	0	13	5	0	0	0	0	0	3	5	18	0
	1730	,,	1013.3	1009.6	...	19·9	15·2	10·9	13·0	54	...	0	...	0·5	0	0	5	2	2	0	0	0	0	1	0	26	0
Barrackpore (Aerodrome)	0530	7	1015.2	1014.4	...	11·1	10·0	9·0	11·5	88	...	0·4	...	1·7	0	0	9	7	0	0	0	0	0	0	2	22	0
	0830	,,	1017·5	1016.7	0	16·0	12·7	9·9	12·2	68	−6	0.7	−0.4	6·1	0	0	22	11	4	2	0	0	0	0	5	9	0
	1130	,,	1016·3	1015.5	...	22 2	15·1	9·2	11·6	43	...	0·5	...	10.5	0	0	31	17	5	0	0	0	0	2	6	0	1
	1730	,,	1013·7	1012·9	...	19·3	14·9	11·2	13·3	61	...	0·9	...	1·7	0	0	10	9	0	0	0	0	0	0	1	21	0
	2330	,,	1015·6	1014.8	...	13 4	12·1	11·1	13·2	86	...	0·4	..	1·3	0	0	6	5	0	0	0	0	0	0	1	25	0
Calcutta (Dum Dum)	0230	6	1014·4	1013.6	...	11·7	10·9	10·2	12.5	99	...	0.3	...	1·0	0	0	10	8	0	0	0	0	0	0	2	21	0
	0530	,,	1014·8	1014.0	...	10·7	10.1	9·4	11.8	92	...	0·3	...	0·6	0	0	6	5	0	0	0	0	0	1	0	25	0
	0830	,,	1017·1	1016·3	−0 1	16·1	13.3	11.0	13.1	71	−2	0·5	−0·8	3·6	0	0	28	15	3	0	0	0	0	2	8	3	0
	1130	,,	1015·9	1015·1	...	22.5	15·7	10·2	12·4	45	...	0 6	...	5·5	0	0	30	13	3	0	0	0	0	2	12	1	0
	1730	,,	1013.4	1012·6	...	20·0	15·5	12·2	14·2	60	...	0 9	...	0·7	0	0	8	4	0	0	0	0	0	0	4	23	0
	2330	,,	1015·1	1014·3	...	12·9	11·9	11·1	13 2	88	...	0·1	...	0.8	0	0	7	4	1	0	0	0	0	0	2	24	0
Calcutta (Alipore)	0830	6	1016·9	1016·1	−0·8	16·1	12·9	10·3	12·5	69	−8	0 6	−0·8	5·4	0	0	28	6	6	1	0	0	1	1	14	3	0
	1130	,,	1015·3	1014·6	...	22·9	15·3	9·1	11·5	41	...	0·4	...	5·2	0	0	31	4	5	1	0	0	1	0	20	0	0
	1730	,,	1013·1	1012·4	...	20·9	15.3	10·4	12·6	51	...	0·7	...	2·1	0	0	20	2	1	1	0	1	0	1	14	11	0
Midnapore	0830	45	1017·3	1011·9	−0.5	16·9	12·3	8·0	10·7	56	−7	0·3	+1.0	5·7	0	0	28	19	7	1	0	0	0	0	1	3	0
	1730	,,	1013.3	1007.9	...	21·6	14·5	7·8	10·6	42	...	0·4	...	1·4	0	0	13	10	3	0	0	0	0	0	0	18	0
Contai	0830	11	1016·9	1015.6	+0.1	15·8	13·0	10·5	12·7	69	−5	0·2	−0.7	3·4	0	0	31	30	0	0	0	0	9	0	1	0	0
	1730	,,	1013·3	1012·1	...	20·7	15·2	10 8	12·9	53	...	0·2	...	1·2	0	0	12	4	1	0	0	5	1	1	0	19	0
Sagar Island	0830	3	1016·4	1016·0	−1·0	17·7	15·1	13·0	15·0	75	−2	1·1	−0·8	13·9	0	2	29	14	7	1	1	0	0	0	8	0	0
	1730	,,	1012·5	1012·1	...	20·3	15.9	12·2	14·2	60	...	1·8	...	10.1	0	0	31	11	7	0	0	3	4	1	5	0	0
Saugheads	0530	10	1013·7	1012·6	...	20·8	16·2	12·7	14·7	60	...	0 7	...	14.2	0	0	29	19	7	0	0	0	0	1	2	2	0
	0830	,,	1016·4	1015·3	−0·9	21·3	16·7	13·4	15.4	61	+3	0·7	−1.1	12.9	0	5	25	24	5	0	0	0	0	0	1	1	0
	1130	,,	1015.7	1014.6	...	22 5	17·1	13·4	15·4	57	...	0·6	...	12·1	0	0	30	24	5	0	0	0	0	0	1	1	0
	1730	,,	1013·1	1012·0	...	19·3	13.5	8·5	11·1	53	...	0·5	...	10·2	0	1	23	14	2	1	1	0	0	0	6	7	0
	2330	,,	1014.5	1013 5	...	21·6	16·5	12·9	14·9	57	...	0	...	10·5	0	0	30	19	3	1	1	0	1	1	4	1	0
Orissa																											
Baripada	0230	54	1018·5	1012.1	...	17·7	13 1	9·0	11 5	56	...	0·4	...	2·9	0	0	26	13	10	0	0	0	0	0	2	5	1
	1730	,,	1014·5	1008 2	...	20·3	14 8	10·0	12·3	52	...	0·2	...	0·8	0	0	7	3	2	0	2	0	0	0	0	24	0
Jharsuguda	0230	230	1015·1	987.8	...	11·8	10·9	10·0	12·3	89	...	0 5	...	1 5	0	0	12	7	2	0	0	0	1	0	2	19	0
	0530	,,	1015·6	988·2	..	10·2	9·6	9·0	11·5	92	...	0·6	...	3·1	0	0	17	13	3	0	0	0	0	0	1	14	0
	0830	,,	1017·7	990·7	−0·3	14 5	11·9	9·5	11·9	72	−5	1·0	−0.3	6 5	0	0	29	18	11	0	0	0	0	0	0	2	0
	1130	,,	1016·2	989·8	...	21·3	14·5	8·4	11·0	44	..	1·1	...	7·3	0	1	28	12	10	1	1	0	1	2	2	2	0
	1730	,,	1013·4	987·0	...	20·4	14·8	10·0	12 3	51	...	1·6	...	3 7	0	0	19	2	4	2	0	1	2	4	4	12	0
	2330	,,	1015·9	988·7	...	13·4	12·0	10·7	12·9	83	...	0·7	...	2·2	0	0	11	5	1	2	1	0	0	0	2	20	0
Keonjhargarh	0830	463	1014·6	961·5	...	16·7	13.5	11·1	13·2	69	...	0·5	...	3.2	0	0	28	9	3	0	2	1	0	2	11	3	0
	1730	,,	1010·3	957·9	...	19·8	15·7	13·1	15·1	65	...	1·1	...	2 5	0	0	23	2	9	2	2	0	1	6	1	8	0
Balasore	0830	20	1017·2	1014·9	−0·6	16·3	13·3	10·8	12·9	69	−1	0·8	−0·7	7·0	0	0	29	19	4	1	0	0	0	0	5	2	0
	1730	,,	1013.2	1010·9	...	20·7	16·0	12·3	14·3	59	...	1·4	...	1.3	0	0	12	5	0	1	1	5	0	0	0	19	0
Sambalpur	0830	148	1017·4	1000·0	−0.8	17·4	14·1	11·6	13·7	68	−5	0·9	−0.5	1.7	0	0	14	4	8	0	1	1	0	0	0	17	0
	1730	,,	1013·5	996·5	...	21·1	16·1	12·0	14·0	55	...	1·5	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Angul	0830	13	1017·8	1001.5	+0.1	16·4	13·5	10·8	12·9	69	−3	0·7	−0.9	4·2	0	0	28	2	1	0	1	1	0	5	18	3	0
	1730	,,	1013·5	997·6	...	22·2	15·4	9·7	12·0	47	...	0·8	...	4·3	0	0	30	5	1	2	2	0	0	0	20	1	0
Cuttack	0830	27	1017·5	1014.3	−0.4	17·2	14·7	12·5	14·5	74	−1	0·2	−1.6	0.6	0	0	2	0	2	0	0	0	0	0	0	29	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C.: Dry bulb	Mean temperature in °C.: Wet bulb	Mean temperature in °C.: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Orissa—(*Contd.*)																											
Cuttack—(*contd.*)	1730	27	1013·4	1010·3	...	23·1	17·1	12·9	14·9	55	...	0·5	...	0·6	0	0	2	0	0	0	1	0	0	0	1	29	0
Chandbali	0830	6	1017·4	1016.7	+0·2	18·9	15·3	12·6	14·6	67	—8	0·5	—1·2	7·3	0	0	30	15	5	1	0	0	0	0	9	1	0
	1730	,,	1013.4	1012·7	...	21·1	16·1	12·4	14·4	57	...	0 2	...	4·5	0	0	29	6	6	11	5	0	0	1	0	2	0
Bolangir	0830	190	1017·4	995·4	...	19·2	14·7	11·2	13·3	60	...	1·3	...	3·8	0	0	31	12	4	3	2	0	1	0	8	0	1
	1730	,,	1013.6	991.9	...	22·6	16·2	11·1	13.2	48	...	1·9	...	3·7	0	0	31	14	9	2	1	0	0	0	5	0	0
Panikhaili	0830	464	1015·9	962.0	...	12·1	10·5	8·8	11·3	79	...	0·4	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1011·4	958·9	...	19.6	15·2	12·1	14.1	63	...	0·3	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Titlagarh	0830	211	1019·7	994·5	...	19·3	18·1	17·7	20·1	90	...	0·6	...	2·9	0	0	30	0	29	0	1	0	0	0	0	1	0
	1730	,,	1013·1	989·2	...	23·8	21·1	19·8	23·1	79	...	0·4	..	3·0	0	0	31	0	31	0	0	0	0	0	0	0	0
Bhubaneswar	0230	46	1014.4	1008·9	...	15·4	13.3	11·7	13·7	78	...	0·3	...	4·3	0	0	19	13	2	0	0	0	1	0	3	12	0
	0530	,,	1014·9	1009·4	...	14·5	12·5	10.8	12·9	78	...	0·8	...	7·2	0	0	29	21	3	0	0	0	0	1	4	2	0
	0830	,,	1017·2	1011 7	—0.3	19·5	15·0	11·2	13·3	59	—9	0·5	—1.2	7·3	0	1	23	10	7	1	0	0	0	0	6	7	0
	1130	,,	1016·1	1010 7	...	24·1	15·9	9·3	11·7	41	...	0·7	...	9·0	0	0	30	5	17	2	0	0	4	1	1	1	0
	1730	,,	1013·5	1008·2	...	22·2	15·8	10 6	12 8	48	...	1·1	...	5·2	0	0	23	7	5	5	1	4	0	0	1	8	0
	2330	,,	1015.5	1010·0	...	16·3	14·1	11·7	13·7	72	...	0 2	..	3·6	0	0	19	5	4	1	0	3	0	1	5	12	0
Puri	0830	6	1017·1	1016·4	—0·1	19·7	15·7	12·3	14·3	61	—11	1·1	—0·3	8.0	0	0	30	19	9	0	0	1	0	0	1	1	0
	1730	,,	1013.4	1012.7	...	22·5	17·3	13·7	15·7	56	...	2·6	...	12·4	0	4	27	4	2	5	15	5	0	0	0	0	0
Gopalpur	0530	17	1014·8	1012·3	...	15·0	14.0	13·2	15·2	89	...	1·1	...	11·4	0	0	31	10	0	0	0	0	0	0	21	0	0
	0830	,,	1017·2	1015·2	—0·1	19·0	16·1	13·8	15·3	73	+1	1·2	—0·2	13·5	0	0	31	15	1	0	0	0	0	0	15	0	0
	1130	,,	1016·1	1014.0	...	21·6	18·2	13.7	15·8	51	...	1·3	...	13.0	0	2	29	6	6	13	5	1	0	0	0	0	0
	1730	,,	1013·5	1011·5	..	22·7	17 6	14·1	16·1	59	...	2·3	...	14·7	0	1	30	0	5	16	8	2	0	0	0	0	0
	2330	,,	1015·5	1013·5	...	17·1	15·2	13·8	15 3	81	...	0·4	...	8·1	0	0	30	9	0	0	0	0	0	2	19	1	0
Koraput	0830	913	1532 0	914·1	—1·0	17·2	12·6	8·7	11·2	58	—14	0·8	—0·4	5.2	0	0	31	3	12	1	7	6	2	0	0	0	0
	1730	,,	1502·9	910·8	...	18 1	13·2	9·1	11·5	56	...	1.2	...	6.3	0	0	31	15	2	0	2	2	2	1	7	0	0
Bihar Plateau																											
Dumka	0830	149	1018·0	1000.3	—0·3	14·3	12·0	9.9	12 2	75	+9	0·9	0	2·3	0	0	16	0	0	0	2	0	2	10	2	15	0
	1730	,,	1013·7	996·3	..	18·7	15.1	12·2	14.2	67	...	0·8	...	1·4	9	0	10	1	1	0	0	0	3	4	1	21	0
Daltonganj	0830	221	1018·7	992·5	—0·3	13·4	10·6	7·7	12·8	70	—9	2·3	+1·3	0.2	0	0	2	0	0	1	0	0	1	0	0	29	0
	1730	,,	1013·8	988.2	...	19·2	14·8	11 2	13.3	61	...	1·5	...	0.4	0	0	4	0	1	2	0	0	0	1	0	27	0
Hazaribagh	0830	611	1018·0	947·0	—0·9	12·6	9·3	6.7	9·8	66	+5	1·6	+0·3	6.3	0	0	23	4	0	1	2	2	1	1	12	8	0
	1730	,,	1014·6	944·8	...	15.3	10.7	6·4	9.6	56	...	1·5	...	5·8	0	0	28	10	1	0	1	0	0	0	16	3	0
Dhanbad	0830	257	1017.9	987.6	...	14 9	11.4	7·8	10·6	63	...	1·3	...	4·5	0	0	26	4	4	2	0	0	0	7	8	5	1
	1730	,,	1014·3	984·4	...	17·8	12·8	8·0	10·7	51	...	1·4	...	3.5	0	0	25	6	3	2	1	0	0	2	10	6	1
Ranchi	0830	655	1016·3	942·2	—0·7	15·5	10.3	5·2	8·8	51	—7	0·4	—1·0	2·2	0	0	23	4	2	2	1	2	1	0	11	8	0
	1730	,,	1015·0	940·6	...	16·6	11·8	7·5	10·4	55	...	0 4	...	1 5	0	0	15	1	1	0	1	0	1	1	10	16	0
Ranchi Aerodrome	0530	652	1016·8	940·7	...	8·7	6·8	4 6	8·5	76	...	1·3	...	2 1	0	0	11	6	0	0	0	1	0	0	4	20	0
	0830	,,	1017·4	942·5	...	13·7	9·4	4·9	8·7	57	...	1·0	...	6·9	0	0	23	9	0	0	0	3	0	0	11	8	0
	1130	,,	1015.6	942 0	...	18·4	10·8	2·8	7·5	36	...	1·0	...	9·4	0	0	29	10	2	2	0	1	0	0	10	2	4
	1730	,,	1013·6	939·7	...	17·3	11.2	5·3	8·9	46	...	(i) 1·8	...	(i) 8·0	0	0	19	13	1	2	0	0	0	0	3	3	0
Jamshedpur	0330	129	1018·1	1002 7	—0.2	13·5	11·5	9·7	12·0	77	+2	0.4	—1 2	2.6	0	0	21	0	0	1	0	0	1	15	4	10	0
	1730	,,	1013·6	998·7	...	20·4	15·0	10·5	12·7	53	...	0 7	...	1·0	0	0	7	0	1	4	0	0	0	0	2	24	0
Jamshedpur (F.B.O.)	0530	142	1015·9	998·9	...	10·1	9·3	8·6	11.2	89	...	0·5	...	2·1	0	0	9	0	0	0	0	0	1	2	6	22	0
	0830	,,	1018·0	1001.2	...	13·4	11·3	9·1	11 5	75	..	0·6	...	4·6	0	0	23	0	1	0	0	0	2	9	11	8	0
	1130	,,	1016·4	1000·0	...	20.6	13·8	7·4	10·3	43	...	0·5	...	8·6	0	0	31	1	3	1	0	1	3	9	13	0	0
	1730	,,	1013·7	997·3	...	20·8	14·4	8·7	11·2	46	...	0·9	...	1·8	0	0	13	0	3	0	0	0	2	3	5	18	0
	2330	,,	1016.0	999·1	...	12·5	11·1	10·1	12·3	86	...	0·5	...	3.1	0	0	16	1	0	0	0	4	1	3	7	15	0
Chaibasa	0830	226	1017·5	990.9	—0·7	14·5	11.4	8·3	10·9	67	—9	0.5	—1·0	2·0	0	0	18	0	0	0	1	0	16	0	1	13	0
	1730	,,	1013·3	987.2	...	19·6	13.9	9.0	11.5	50	...	0.8	...	0 8	0	0	7	0	4		1	0	1	0	1	24	0
Bihar Plains																											
Motihari (R)	0830	66																									
(R)	1730	,,																									
Forbesganj	0830	61	1017·5	1010·2	...	13·3	11·9	10·7	12·9	85	...	1·7	...	3·3	0	0	28	2	1	5	0	0	1	17	2	3	0
	1730	,,	1013·8	1006 7	...	17·8	14·4	11·6	13·7	69	...	1·6	...	2 3	0	0	17	0	0	0	0	0	0	17	0	14	0
Darbhanga	0830	49	1018·3	1012·5	+0 2	15·8	12·5	9·7	12·0	67	—16	0·8	—0.1	1·6	0	0	19	0	1	1	0	1	4	10	2	12	0
	1730	,,	1014·7	1009·1	...	17·2	14·1	11·7	13·7	70	...	0	...	1·3	0	0	13	1	0	2	0	1	3	4	2	18	0
Chapra	0830	...	...	...	...	12·9	10·7	8·6	11·2	75	...	2·8	..	3·5	0	0	21	0	0	2	1	2	9	3	4	10	0
	1730	...	...	...	...	16·4	13·0	10.0	12·3	65	...	1·1	...	1.1	0	0	13	0	0	2	0	0	4	5	2	18	0
Purnea	0830	38	1018·1	1013·5	—0·2	13·8	12·0	10·4	12·6	82	—3	2·6	+1·7	2·6	0	0	23	1	0	0	0	1	5	16	0	8	0
	1730	,,	1014·2	1009·7	...	17·3	14·4	12·1	14·1	73	...	1·3	...	1·5	0	0	10	0	0	0	0	0	3	7	0	21	0
Patna	0830	53	1018·2	1011·7	—0·4	12·2	10·1	8·2	10·9	77	+7	3·1	+2.1	5·3	0	0	29	0	1	0	1	2	10	15	0	2	0

(R) Register not received.

(i) Mean of 22 days.

TABLE III—SUMMARY OF OBSERVATIONS AT FIXED HOURS—DECEMBER, 1961 (AGRAHAYANA 10—PAUSA 10, 1883 SAKA)

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean Temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean windspeed, in km. per hour	Wind speed (km. h.p): 62 or more	20 to 61	1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Bihar Plains—(*Contd.*)																											
Patna—*contd.*																											
Patna (Aerodrome)	1730	53	1014·6	1008·3	...	17·7	13·1	9·2	11·6	58	...	...	...	4·9	0	0	27	0	1	2	0	0	2	20	2	4	0
	0530	60	1015·4	1008·2	...	8·7	7·9	7·1	10·1	90	...	2·6	...	3·5	0	0	12	1	0	0	1	0	3	4	3	19	0
	0830	,,	1017·9	1010·7	...	12·4	10·3	8·1	10·8	77	...	3·1	...	6·5	0	0	25	0	0	1	1	1	4	16	2	6	0
	1130	,,	1017·2	1010·1	...	17·4	12·7	8·5	11·1	59	...	3·0	...	8·4	0	0	30	1	0	1	4	0	1	15	8	1	0
	1730	,,	1014·2	1007·2	...	16·7	12·8	9·2	11·6	64	...	0·9	...	2·3	0	0	8	0	0	1	0	0	0	4	3	23	0
	2330	52	1016·2	1010·0	...	11·9	10·3	9·0	11·5	83	...	1·0	...	0·2	0	0	2	0	0	0	1	1	0	0	0	29	0
Bhagalpur	0530	49	1016·1	1010·2	...	10·4	9·5	8·6	11·2	86	...	1·2	...	4·3	0	0	20	0	0	0	0	5	10	4	1	11	0
	0830	,,	1018·3	1012·5	+0·1	12·8	10·8	8·8	11·3	78	+2	2·8	+1·8	4·9	0	0	22	1	0	1	0	0	7	11	2	9	0
	1130	,,	1017·6	1011·8	...	17·4	13·6	10·3	12·5	65	...	3·6	...	9·0	0	1	27	1	0	0	0	1	0	17	9	3	0
	1730	,,	1014·7	1009·0	...	16·9	13·4	10·3	12·5	67	...	1·4	..	6·9	0	0	28	0	1	1	0	0	0	21	4	3	1
	2330	,,	1016·4	1010·6	...	12·9	11·1	9·4	11·8	81	...	0·8	...	4·3	0	0	21	0	0	0	1	0	10	9	1	10	0
Sabour	0830	37	1017·9	1013·5	0	13·1	11·1	9·3	11·7	75	−7	2·1	+0·8	4·4	0	0	25	1	1	0	0	0	9	10	4	6	0
	1730	,,	1014·4	1010·0	...	16·5	13·6	11·2	13·3	71	...	1·6	...	3·4	0	0	17	1	1	0	0	0	0	1	14	14	0
Jamui	0830	82	1018·0	1008·1	...	12·0	10·6	9·2	11·6	84	...	1·4	...	2·8	0	0	23	3	2	2	1	0	0	1	14	8	0
	1730	,,	1014·7	1004·9	...	16·5	13·6	11·1	13·2	71	...	0·6	...	2·5	0	0	18	0	0	1	0	0	0	1	16	13	0
Dheri	0830	107	1018·2	1005·4	...	12·5	10·7	9·0	11·5	81	..	1·2	...	3·0	0	0	31	0	0	1	2	10	12	4	2	0	0
	1730	,,	1014·5	1002·0	...	18·3	13·4	9·0	11·5	56	...	0·9	...	3·2	0	0	30	10	1	3	0	0	1	10	5	1	0
Gaya	0230	116	1016·5	1002·4	...	8·5	7·6	6·4	9·6	87	..	0·3	..	3·6	0	0	25	0	0	0	7	12	3	0	3	6	0
	0530	,,	1016·5	1002·4	...	7·8	7·0	6·1	9·4	89	...	1·3	...	4·8	0	1	26	1	0	1	6	11	5	1	2	4	0
	0830	,,	1018·7	1004·8	+0·6	12·2	10·1	8·2	10·9	77	+10	1·5	+0·5	5·8	0	0	29	0	0	1	2	9	10	4	3	2	0
	1130	,,	1018·0	1004·4	...	18·4	12·5	6·9	9·9	51	...	2·4	...	10·3	0	1	30	4	0	2	2	0	1	11	11	0	0
	1730	,,	1015·0	1001·5	...	17·3	12·4	7·7	10·5	55	...	1·3	...	5·5	0	0	29	6	5	2	0	0	0	1	15	2	0
	2330	,,	1017·2	1003·2	...	10·0	8·5	7·1	10·1	81	...	0·4	...	3·1	0	0	23	0	0	0	6	13	4	0	0	8	0
Uttar Pradesh (East)																											
Kheri (R)	0830	147																									
(R)	1730	,,																									
Bahraich	0830	124	1018·1	1003·2	+0·3	11·2	9·5	7·7	10·5	89	0	3·4	+2·4	3·0	0	0	22	3	1	2	1	0	0	14	1	9	0
	1730	,,	1015·6	1001·0	...	15·5	12·2	9·0	11·5	67	...	2·5	...	1·5	0	0	14	1	2	1	1	0	0	9	0	17	0
Nautanwa	0830	99	1017·3	1005·4	...	10·5	9·9	9·2	11·6	92	...	0·8	...	1·2	0	0	14	1	1	5	1	1	2	2	1	17	0
	1730	,,	1015·2	1003·5	...	18·6	14·8	12·0	13·7	67	...	0	...	1·9	0	0	21	0	1	2	1	2	8	3	4	10	0
Hardoi	0830	142	1018·2	1001·0	+0·2	9·2	8·1	6·9	9·9	86	+3	1·9	+0·3	...	0	0	12	1	0	1	0	0	0	10	0	19	0
	1730	,,	1015·1	998·4	...	16·6	12·6	8·9	11·5	63	...	2·0	...	...	0	0	10	0	0	4	0	0	0	6	0	21	0
Gonda	0830	110	1018·1	1005·0	...	11·5	9·8	8·2	10·7	80	−2	1·5	0	2·0	0	0	21	2	0	3	0	0	0	4	12	10	0
	1730	,,	1014·9	1002·0	...	16·1	12·6	9·4	11·6	66	...	1·8	...	0·9	0	0	9	0	0	2	0	0	0	1	6	22	0
Lucknow	0830	111	1018·6	1005·2	+0·3	10·1	8·7	7·1	10·1	83	+6	2·2	+1·2	1·7	0	0	16	0	0	4	1	1	2	4	4	15	0
	1730	,,	1015·9	1002·9	...	15·9	12·2	8·6	11·2	64	...	1·8	...	0·8	0	0	7	0	0	6	0	0	0	1	0	24	0
Lucknow (Amausi)	0230	128	1016·1	1000·6	...	7·0	6·6	5·9	9·4	91	...	1·4	...	8·8	0	1	24	5	1	2	0	1	2	11	3	6	0
	0530	,,	1016·1	1000·5	...	6·3	5·7	4·9	8·7	91	...	1·7	...	8·9	0	1	25	4	1	2	1	0	4	12	2	5	0
	0830	,,	1018·2	1002·8	−0·3	9·8	8·4	7·0	9·9	84	+16	3·1	+2·1	7·7	0	1	22	0	2	1	1	0	2	14	3	8	0
	1130	,,	1018·0	1003·0	...	16·7	12·0	7·3	10·2	58	...	2·9	...	13·6	0	7	24	3	3	3	2	0	1	10	9	0	0
	1730	,,	1015·1	1000·0	...	15·8	11·9	8·2	10·9	62	...	2·5	...	9·3	0	1	29	2	3	1	3	0	1	13	7	1	0
	2330	,,	1017·0	1001·5	...	8·3	7·4	6·4	9·5	88	...	1·5	...	6·9	0	0	24	4	3	0	0	0	7	9	1	7	0
Faizabad	0830	102	1018·0	1005·8	...	10·6	9·3	7·9	10·7	85	...	2·1	...	2·9	0	0	24	1	0	0	3	0	2	18	0	7	0
	1730	,,	1015·0	1003·0	...	15·1	12·2	9·4	11·8	70	...	2·5	...	2·1	0	0	17	1	0	1	2	1	0	10	2	14	0
Gorakhpur	0830	77	1016·5	1007·2	−1·5	13·1	10·9	8·9	10·5	75	−3	2·5	+1·6	5·5	0	0	28	3	1	1	0	3	11	6	3	3	0
	1730	,,	1013·6	1004·5	...	18·1	13·9	10·3	12·3	62	...	2·3	...	3·0	0	0	21	1	2	0	1	2	5	5	4	10	1
Gorakhpur (P.B.O.)	0230	78	1015·5	1006·1	...	11·9	10·8	10·0	12·0	88	...	1·6	...	1·8	0	0	18	1	1	0	0	0	3	9	4	13	0
	0530	,,	1015·6	1006·2	...	11·4	10·5	9·7	11·9	89	...	2·3	...	2·6	0	0	16	0	2	0	0	0	4	9	1	15	0
	1130	,,	1017·8	1008·5	...	17·3	13·8	11·3	12·9	69	...	2·7	...	5·4	0	0	30	1	2	0	1	4	11	5	6	1	0
	2330	,,	1016·4	1007·0	...	13·2	11·8	10·7	12·7	85	...	2·0	...	2·6	0	0	18	2	1	0	0	1	7	6	1	13	0
Kanpur	0830	126	1019·4	1004·1	+0·7	7·9	6·8	5·7	9·0	87	+10	3·0	+2·3	1·9	0	0	12	0	0	1	1	1	1	7	1	19	0
	1730	,,	1016·3	1001·5	...	17·8	12·5	7·3	10·2	54	...	1·6	...	2·8	0	0	23	2	6	0	0	1	1	13	0	8	0
Kanpur (Aerodrome)	0530	126	1016·3	1001·0	...	6·7	5·9	4·8	8·6	88	...	2·5	...	2·9	0	1	7	2	1	1	1	0	0	2	1	23	0
	0830	,,	1018·2	1003·0	...	9·6	8·1	6·3	9·6	80	...	3·1	...	6·0	0	1	20	1	1	1	1	1	6	8	2	10	0
	1130	,,	1018·2	1003·5	...	16·8	11·6	6·1	9·5	54	...	2·7	...	10·6	0	1	26	4	4	2	2	0	1	8	5	4	1
	1730	,,	1015·1	1000·3	...	16·8	12·1	7·2	10·3	57	...	2·0	...	3·4	0	0	13	0	3	0	0	0	0	5	5	18	0
	2330	,,	1017·0	1001·9	...	9·7	8·1	6·2	9·5	80	...	1·3	...	3·0	0	0	11	1	0	1	0	0	0	5	4	20	0
Sultanpur	0830	7	1018·8	1007·1	...	11·1	9·2	7·4	10·5	77	...	2·2	...	2·7	0	0	24	1	0	3	0	1	4	9	6	7	0
	1730	,,	1014·9	1003·6	...	18·0	12·7	7·4	10·3	56	...	2·6	...	2·7	0	0	25	2	1	4	0	0	4	5	9	6	0

(R) Register not received.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Jammu and Kashmir-*Contd.*																											
Gilgit . . (R)	0830																										
(R)	1730																										
Skardu . . (R)	0830																										
(R)	1730	2288																									
Leh . . .	0530	3514	3109·7	664·3	...	-13·7	-15·4	-22·3	0·8	48	...	2·9	...	5·5	0	0	22	3	19	0	0	0	0	0	0	9	0
	0830	"	3116·8	665·2	—1·3	-11·0	13·5	-23·6	0·7	35	—23	3·1	—1·5	1·3	0	0	7	1	1	0	0	2	3	0	0	24	0
	1730	"	3062·6	66[illegible]·2	..	—7·7	10·8	-21·5	0·9	28	...	3·3	...	5.1	0	0	23	0	1	1	2	10	9	0	0	8	0
Srinagar . . .	0830	1587	1543·0	845·[illegible]	—1·[illegible]	(a) —1·0	(a) —1·4	(a) —2·2	5·4	(a) 92	+2	5·5	+0·6	1.0	0	0	12	0	0	0	5	0	1	3	3	19	0
	1130	"	1547·4	846·1	...	3·6	1·4	—1·9	5·3	68	...	4·4	...	1·5	0	0	16	0	1	3	5	2	0	5	0	15	0
	1730	"	1521·0	843·5	...	4·4	2·2	—0·8	5·7	70	...	3·8	...	1·3	0	0	15	1	1	0	3	1	1	4	4	16	0
Srinagar (Aerodrome)	0530	1666	1539·3	836·2	...	—1·7	—2·3	—3·2	4·7	88	...	3·6	...	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
	0830	"	1505·5	836·1	...	—1·3	—2·0	—2·8	5·0	86	...	4·8	...	3·0	0	0	15	0	1	1	4	3	0	3	3	16	0
	1130	"	1543·6	837·9	...	2·9	1·0	—1·7	5·3	73	...	4·5	...	4·8	0	0	26	5	5	3	6	0	0	0	7	5	0
	1730	"	1518·8	835·1	...	3·6	—1·5	—1·5	5·1	70	...	4·1	...	2·9	0	0	15	2	1	2	4	0	0	2	4	16	0
	2330	"	1533·2	836·9	...	0·1	—1·0	—2·7	4·8	81	...	2·8	...	0·5	0	0	3	1	0	1	1	0	0	0	0	28	0
Gulmarg . .	0830	2655				Closed during Winter months																					
	1730	"																									
Banihal	0830	...	...	...	...	1·6	—0·5	—4·2	4·2	69	..	(a) 2·5	+1·1	4·9	0	0	11	1	0	0	0	0	0	6	4	20	0
	1730	...	...	...	...	5·4	1·5	—5·0	4·1	52	...	(b) 2·8	...	3·6	0	0	12	1	0	0	1	0	0	5	5	19	0
Jammu (R) . .	0830	...																									
Jammu (Aerodrome)	0530	292	1017·3	981·9	...	7·9	6·6	5·0	8·7	83	...	2·1	...	3·6	0	0	15	1	11	2	0	0	0	1	0	16	0
	0830	"	1018·3	983·1	...	8·6	7·1	5·0	8·9	78	...	2·7	...	5.7	0	0	26	1	20	5	0	0	0	0	0	5	0
	1130	"	1018.8	984·1	...	14·8	10·6	6·0	9·4	57	...	3·1	...	4·1	0	0	22	2	9	2	3	4	1	0	1	9	0
	1730	"	1016·1	981·7	...	14.8	11·4	8·2	10·7	65	...	3·2	...	2·1	0	0	12	2	2	0	0	1	2	3	2	19	0
	2330	"	1018·0	982·9	...	9·8	8·2	6·3	9·6	79	...	2.3	...	3·5	0	0	13	3	8	1	0	0	1	0	0	18	0
Rajasthan (West)																											
Ganganagar . .	0530	177	1017·2	996·7	...	6·5	5·2	3·2	7·9	80	...	0.5	...	0·7	0	0	6	0	3	1	1	0	0	0	1	25	0
	0830	"	1018·9	997·3	+0·1	6·5	5·0	3·0	7·5	80	+1	1·3	—0·7	0·6	0	0	7	1	3	1	1	0	1	0	0	24	0
	1130	"	1018·9	998·0	...	17·9	11·5	4·1	8·4	42	..	2·3	...	2·5	0	0	25	2	2	0	3	3	5	7	3	6	0
	1730	"	1015·6	995·0	...	19·2	12·8	6·0	9·6	44	...	1·8	...	0·7	0	0	9	5	0	0	2	1	0	0	1	22	0
	2330	"	1018·0	996·7	...	9·8	7.7	4·8	8·9	73	...	0·6	...	0.5	0	0	6	0	0	2	3	0	0	0	1	25	0
Anupgarh (R)	0830	...																									
(R)	1730	...																									
Mahajan	0830	187	1017·4	994·9	...	10.6	7·9	5·0	8·5	68	...	0·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1730	"	1014·3	992·6	...	19·4	14·4	9·7	12·3	58	...	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Churu . . .	0830	291	1019·6	984·3	...	6·1	4·5	2·1	7·2	77	...	1·4	...	1·4	0	0	13	1	1	2	4	2	3	0	0	18	0
	1730	"	1015·3	981·7	...	19·6	13·5	7·4	10.5	47	...	2·0	...	5·0	0	0	30	26	2	1	0	0	0	1	0	1	0
Bikaner . . .	0830	224	1019·0	991·9	0	7·6	4·4	—1·6	5·3	54	—2	0·9	—0·9	1.2	0	0	11	1	1	1	7	1	0	0	0	20	0
	1730	"	1014·7	989·0	...	21·2	12·0	0·5	6·3	27	...	0·5	...	3·4	0	0	23	5	9	2	2	0	0	2	3	8	0
Bikaner (P.B.O.) .	0530	224	1017·1	989·7	...	4·8	3·6	1·7	6·9	82	...	0·3	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1130	"	1018·4	992.1	...	19.5	13·5	7·6	10·7	48	...	1·0	...	2·5	0	0	19	3	6	0	2	6	0	0	2	12	0
	2330	"	1017·6	990·7	...	9·9	7.4	4·3	8·3	69	...	0·4	...	1·4	0	0	8	2	6	0	0	0	0	0	0	23	0
Nagaur . .	0830	298	1019·1	984·0	...	15·0	9.0	1·4	6·7	42	...	1·4	...	4·4	0	0	31	3	5	6	8	3	2	0	4	0	0
	1730	"	1014·3	980·2	...	21·6	12·4	2.0	7·0	29	...	1.4	...	5.1	0	0	30	9	6	2	1	1	2	1	8	1	0
Phalodi . . .	0830	234	1018·4	990·5	...	9·5	6·4	1.7	7·1	57	...	1·7	...	4·1	0	0	24	2	2	1	8	8	1	1	1	7	0
	1730	"	1015·6	988·7	...	22·1	13·7	5.4	8·8	34	...	1·4	...	5·5	0	0	24	7	7	4	0	1	2	0	3	7	0
Jaisalmer . . .	0830	242	1017.3	988·6	...	10·4	6·2	0·3	6·6	49	...	1·1	...	5·2	0	2	16	5	4	2	1	3	1	1	1	13	0
	1730	"	1013·9	986·3	...	23·0	13·1	1·3	7·1	26	...	1.4	...	11·7	0	0	29	13	8	1	0	1	1	3	2	2	0
Jodhpur . . .	0230	224	1016·3	989·5	...	12·5	7·2	—0·9	5·7	42	...	0·5	...	11·1	0	0	31	6	25	0	0	0	0	0	0	0	0
	0530	"	1016·2	989·4	...	10·8	6·4	—0·4	5.9	47	...	0.7	...	12·1	0	2	29	7	23	1	0	0	0	0	0	0	0
	0830	"	1018·0	991.1	+0·9	11·5	6·8	—0·5	5.9	46	—4	1·9	+0·2	10·2	0	1	28	2	26	0	1	0	0	0	0	2	0
	1130	"	1018·0	991·8	...	19·8	11·1	—0·2	6·2	29	...	1·4	...	10·8	0	3	25	4	11	8	3	0	2	0	0	3	0
	1730	"	1014·0	988·2	...	22·5	12·3	—0·6	5·8	23	...	1.5	...	8·5	0	0	27	4	15	4	0	1	2	0	1	4	0
	2330	"	1016·7	990·2	...	14·6	8·4	—0.7	6·1	37	...	0.7	...	10·4	0	0	31	7	21	2	0	0	0	1	0	0	0
Barmer	0530	194	1015·3	992·1	...	12·1	7.0	—0·7	6·0	43	...	0·5	...	7·5	0	0	28	14	1	0	0	0	0	0	13	3	0
	0830	"	1017·3	994·1	—0·2	12·5	7·6	0·6	6·5	47	—6	1·6	0	6·5	0	0	28	8	2	0	0	1	0	0	17	3	0
	1130	"	1017·3	994·7	...	20·3	11·9	1·6	7·2	31	...	1·4	...	6·5	0	0	30	8	12	4	1	0	2	0	3	1	0
	1730	"	1013·3	991·1	...	23·4	13·0	0·9	6·6	23	...	1·5	...	4·9	0	0	27	5	9	6	0	0	2	1	4	4	0
	2330	"	1016·0	993·2	...	15·3	9·0	0·2	6·2	37	...	0·6	...	4·5	0	0	22	4	0	2	0	0	1	1	14	9	0
Munabao . . .	0830	80	1017·5	1008.7	...	12·4	7·8	1·7	6·9	48	...	(g) 0·6	...	(g) 4·2	0	0	22	4	10	6	0	2	0	0	0	2	0
	1730	"	1014·4	1005·0	...	24·3	14·2	3·9	8·1	27	...	(g) 0·3	...	(h) 5·3	0	0	21	11		2	0	1	1	1	0	2	0

(R) Register not received. (a) Mean of 30 days. (g) Mean of 24 days. (h) Mean of 23 days. (b) Mean of 29 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Rajasthan (East)																											
Pilani	0830	301	1019·6	983.6	...	9·5	5·0	0·4	6·4	56	...	0·4	...	4·8	0	0	30	3	1	5	7	9	5	0	0	1	0
	1730	"	1015·9	980·9	...	17.7	10·6	1·2	7·0	36	...	1·0	...	7·2	0	0	30	16	8	1	0	0	1	0	4	1	0
Sikar	0830	433	1019·0	968·3	..	13·1	8·9	3·7	8·0	53	...	1·5	..	1·2	0	0	12	0	2	1	8	0	0	1	0	19	0
	1730	..	1014.6	965·3	...	19·8	12·8	6·0	9·1	42	...	1·5	...	0·7	0	0	7	1	2	1	0	0	1	1	1	24	0
Alwar	0830	271	1017.9	985·2	...	8·0	6·9	5·5	9·0	86	...	2·6	...	0·4	0	0	5	2	0	0	0	1	0	0	2	26	0
	1730	"	1015·1	983·6	...	18·0	12·1	5·8	9·3	46	..	1·8	...	0·6	0	0	9	6	0	0	1	0	2	0	0	22	0
Jaipur (Sanganer)	0230	390	1016·7	970.2	...	8·8	6·3	2·8	7.5	68	...	0·4	...	4·7	0	0	24	4	10	8	1	0	0	0	1	7	0
	0530	"	1016·9	970·3	...	7·4	5·4	2·5	7·3	73	...	0·6	...	3·9	0	0	25	6	10	6	0	0	1	0	2	6	0
	0830	"	1018·4	972·1	−1·0	11·0	7·7	3·6	7·9	63	+8	1·3	−0·2	3·7	0	0	21	2	5	8	1	0	0	1	4	10	0
	1130	"	1017·5	972·5	...	18·4	11·3	2·7	7·6	38	...	1·1	...	7·5	0	1	26	2	2	11	4	2	1	2	3	4	0
	1730	"	1014·2	969·3	...	18·7	11·5	2·8	7·8	37	...	2·1	...	4·4	0	0	29	3	3	7	6	3	1	1	5	2	0
	2330	"	1017·3	971·5	...	10·4	7.3	3·2	7·7	63	...	0·4	...	4·5	0	0	22	2	11	9	0	0	0	0	0	9	0
Dholpur	0830	176	1018·3	997·1	..	10·5	8·4	6·0	9·3	76		3·3	..	2·5	0	0	15	1	0	0	2	1	4	4	3	16	0
	1730	"	1014·8	994·2	..	17.7	12·3	7·2	10·1	52	..	1·8	..	2·6	0	0	19	8	4	2	1	0	1	0	3	12	0
Ajmer	0830	486	1019·4	961·6	−0·9	7·7	5·7	3·0	7·7	74	+17	2·0	+0·6	1·4	0	0	16	4	5	0	2	1	0	0	4	15	0
	1730	"	1014·2	959·0	...	19·7	11·5	2.6	7·6	35	...	2·2	...	4·5	0	0	30	6	7	6	3	2	0	2	4	1	0
Tonk	0830	272	1018·0	985·2	..	8·5	7·7	6·7	9·9	88	..	1·2	..	2·3	0	0	26	3	0	0	1	2	1	2	17	5	0
	1730	"	1013·3	981·9	...	19·1	15·1	11·7	13·9	63	...	1·8	...	3.7	0	0	24	1	10	6	1	0	0	1	5	7	0
Kota (Aerodrome)	0530	257	1017·2	984·4	...	9.1	6·9	4·3	8·2	71	...	0·7	...	2·9	0	0	17	3	2	1	0	1	7	3	0	14	0
	0830	"	1018.3	986·0	...	11·6	8·4	4·4	8·5	64	...	1·9	...	2·8	0	0	16	0	1	4	0	0	4	6	1	15	0
	1130	"	1018·2	986·4	...	18·3	11·6	4·1	8·2	42	...	2 1	...	7·1	0	0	29	5	4	14	3	1	1	0	1	2	0
	1730	"	1014·4	982·9	...	20·8	12·5	2·9	7·9	33	...	2·0	...	7·0	0	0	29	2	16	8	2	1	0	0	0	2	0
	2330	"	1017·6	985·0	...	12·5	8·8	4·4	8·4	59	...	0·8	...	4·2	0	0	22	0	6	2	0	2	7	5	0	9	0
Kota	0830	257	1018·6	988.1	−0·2	12.7	9·6	6·0	9·5	66	+9	1·3	−0·1	0·8	0	0	6	0	0	1	0	0	1	1	3	25	0
	1730	"	1014.5	984·9	...	20·2	13·2	6·0	9·5	41	...	1·3	...	1·7	0	0	16	0	3	7	1	0	0	4	1	15	0
Erinpura (Jawai Dam)	0830	395	1017·9	982·6	...	10.1	9·2	8·2	10·9	88	...	2·1	...	2·1	0	0	9	0	0	1	3	3	2	0	0	22	0
	1730	"	1013·5	979·8	...	22·5	17·5	13·7	15·9	58	...	1·5	...	3·7	0	0	26	15	5	1	0	0	1	1	3	5	0
Chambal (Rawat Bhatta Dam)	0830	351	1019·1	977·7	..	10·6	8·2	5·4	9·0	71	..	1·5	..	1·0	0	0	13	6	1	0	0	1	0	0	5	18	0
	1730	"	1014·0	974·0	...	20·4	11·9	2·0	7·1	31	...	1·7	...	2·7	0	0	30	1	23	3	0	0	1	0	2	1	0
Udaipur	0230	582	1017·3	948·9	...	8·2	6·7	5·1	8·8	81	...	0·5	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0530	"	1017.6	948·9	...	7·0	5·9	4·5	8·4	84	...	0·5	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
	0830	"	1018·6	950·6	−0·7	10·8	7·8	4·5	8·4	65	+7	1·4	+0·4	0·5	0	0	3	1	1	0	0	0	0	1	0	28	0
	1130	"	1016·6	950·9	...	20·5	12·9	5·8	9·1	39	...	1.8	...	1·7	0	0	8	0	4	1	1	1	1	0	0	23	0
	1730	"	1013·2	947·7	...	19·9	13.0	6·8	9·9	43	...	1·9	...	2·1	0	0	11	0	3	3	1	0	4	0	0	20	0
	2330	"	1017·8	949·7	...	9·9	7·7	5·2	8·8	73	...	0.5	...	0·1	0	0	1	0	0	0	0	0	0	0	1	30	0
Jhalawar	0830	321	1018.5	980·4	−0·2	10·7	8·7	6·3	9·7	75	+12	1·7	+0·2	0·7	0	0	7	2	2	0	0	0	1	0	2	24	0
	1730	"	1013·3	976·9	...	22·1	14·1	6·7	9·7	38	...	1·6	...	2·6	0	0	19	8	8	0	0	0	0	1	2	12	0
Madhya Pradesh (West)																											
Gwalior	0230	207	1017·0	992·1	...	6·3	5·2	3·9	8·0	86	...	1·3	...	0·6	0	0	6	0	0	1	5	0	0	0	0	25	0
	0530	"	1017·0	991·7	...	5·4	4·6	3.5	7·9	88	...	1·4	...	1·2	0	0	10	0	1	0	6	1	0	1	1	21	0
	0830	"	1018.6	993·8	+0.3	10·5	8·1	5·2	8·9	72	+11	2·9	+1.6	1·2	0	0	10	1	0	1	2	2	2	1	1	21	0
	1130	"	1018·3	994·1	...	17·6	11·2	3·9	8·2	47	...	2·1	..	5·4	0	0	27	3	4	3	2	2	4	2	7	4	0
	1730	"	1015.1	990·9	...	17·6	11·6	4·9	8·8	45	...	2·1	...	2·2	0	0	16	6	6	0	0	0	0	0	4	15	0
	2330	"	1017·7	992·6	...	7·4	6·2	4·8	8·5	84	...	1·3	...	0·7	0	0	7	0	0	0	6	0	1	0	0	24	0
Sheopur	0830	235	1019·2	990·6	0	9·4	7·5	5·2	8·8	74	+4	1·5	−0·5	2.9	0	0	22	5	6	1	5	4	0	0	1	9	0
	1730	"	1014·4	987·0	...	19·8	13·3	6.9	9.9	44	...	2·0	...	7·0	0	0	30	10	7	0	6	1	2	2	8	1	0
Shivpuri	0830	464	1018·3	964·4	...	12·7	8·6	4·1	8·2	60	...	1·9	..	4·7	0	0	24	1	7	4	4	6	2	0	0	7	0
	1730	"	1015·1	961·8	...	17·7	11·3	4·8	8·8	44	...	2·0	...	4·6	0	0	28	6	8	4	2	1	0	3	4	3	0
Nowgong	0830	229	1019·2	991·4	−0·3	8.3	7·2	5·9	9·3	85	+9	2·8	+1·3	2·3	0	0	17	2	1	4	0	3	7	0	0	14	0
	1730	"	1014·9	988·3	...	18·9	13·1	7·6	10·4	51	...	2·3	...	3·1	0	0	20	7	10	1	0	0	1	1	0	11	0
Guna	0530	478	1017·2	960·2	...	6·7	5·3	3·6	7·9	81	...	1·3	...	3·1	0	0	19	2	2	5	6	1	1	1	1	12	0
	0830	"	1018·4	962·4	−0·5	12·4	8·7	4·6	8·5	61	−5	2·2	+0·8	6·1	0	0	30	0	4	10	11	4	0	0	1	1	0
	1130	"	1016·7	962·3	...	20·7	12·3	3.9	8·2	35	...	1·2	...	9·2	0	2	29	6	6	8	6	2	1	1	1	0	0
	1730	"	1013·7	959·3	...	19·7	12.3	5·2	8·8	39	...	2·3	...	7·0	0	0	31	14	6	3	0	1	0	1	6	0	0
	2330	"	1017·4	961·1	...	10·2	7·4	4·3	8·3	68	...	0·8	...	3·7	0	0	22	1	6	7	4	1	1	0	2	9	0
Nimach	0830	496	1018·6	960·7	−0·4	12.6	8·0	2·8	7·5	53	0	1·9	+0·5	4 8	0	0	27	0	23	2	0	0	1	1	0	4	0
	1730	"	1013·8	957·8	...	21·1	12·0	2.6	7·4	31	...	2·0	...	7·1	0	0	31	2	20	6	0	0	1	2	0	0	0
Rajgarh	0830	382	1017·6	972·4	...	11·2	8·2	4·6	8·5	65	...	1·0	...	2·4	0	0	22	17	1	0	0	1	1	0	2	9	0
	1730	"	1012·7	969·5	...	22·3	13·1	3·2	7·7	29	...	2·3	...	2 4	0	0	24	15	2	0	1	1	0	0	5	7	0
Sagar	0830	551	1017·6	953·8	−0·9	14·0	9·2	4·0	8·1	54	+4	1·1	−0·3	3·7	0	0	26	0	8	12	3	0	1	1	1	5	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	At station level	Departure from normal	Mean temperature in °C: Dry bulb	Wet bulb	Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	20 to 61	1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (West) —*Contd.*																											
Sagar—contd.	1730	551	1013·1	950.9	...	20·1	12·0	3·8	8·0	35	...	1·5	..	2·6	0	0	20	0	7	8	0	0	0	2	3	11	0
Ratlam	0830	486	1017·3	960·7	−0·7	12·9	9·5	6·2	9·5	64	0	1·5	−0.4	12·2	0	1	28	2	17	9	0	1	0	0	0	2	0
	1730	,,	1012·2	957·4	...	23·6	15·6	8.9	11·9	41	..	2·1	...	7.8	0	1	30	3	13	7	1	0	0	3	2	0	0
Bhopal (Bairagarh	0230	523	1015·6	954·7	...	12·3	8·5	4·2	8·4	60	...	0·7	..	7·3	0	0	26	7	10	6	1	1	2	0	1	5	0
	0530	,,	1015·9	954·7	...	10·9	7·8	4·4	8·4	65	...	1·3	...	7·4	0	0	27	11	11	4	1	0	0	0	0	4	0
	0830	,,	1017·5	957·1	−0.8	14·5	9·6	4.6	8·4	53	−7	2·3	+0·6	7·6	0	0	25	4	12	5	2	2	0	0	0	6	0
	1130	,,	1016·2	957·0	...	20·8	12·9	5.3	9·1	37	...	2·3	...	11·4	0	2	29	3	6	13	6	2	0	0	0	0	0
	1730	,,	1013·0	954·4	...	21·3	13·1	5·6	9·0	37	...	2·8	...	9·2	0	2	28	13	8	2	1	1	1	0	3	1	0
	2330	,,	1016.3	955·7	...	13·7	9·3	4·6	8·5	55	...	1·2	...	8·5	0	0	29	9	15	1	2	0	2	0	2	2	0
Ujjain	0830	...	...	...	...	13·7	9.7	5·7	9·1	59	...	1·2	...	4·4	0	0	19	0	8	10	1	0	0	0	0	12	0
Hoshangabad	0830	302	1017·8	982·2	−0.9	14·1	11·7	9·4	11·8	73	+13	1.1	−0·3	5·7	0	0	31	0	13	9	9	0	0	0	0	0	0
	1730	,,	1013.3	978·2	...	23·4	18·1	14·3	16·3	58	...	(a) 0·7	...	(a) 3·1	0	0	27	1	11	6	4	0	0	1	3	3	0
Indore	0530	567	1015.7	949·4	...	10·0	7·6	4.9	8·7	71	..	1·3	...	4·6	0	0	24	0	8	10	1	2	1	0	0	7	0
	0830	,,	1017·2	951·6	−1·1	14·0	9.7	5·5	8·9	58	+6	1·6	+0·2	6·0	0	0	26	0	7	13	1	3	1	1	0	5	0
	1130	,,	1015·3	951·6	...	22·0	13·8	6·6	9·8	38	...	1·5	...	12·5	0	4	27	0	5	15	3	4	2	0	0	0	2
	1730	,,	1011.9	948·5	...	22·2	13·9	6·5	9·7	37	...	1·8	...	11·4	0	1	30	4	12	3	3	3	3	1	2	0	0
	2330	,,	1015.9	950.2	...	12·8	9·4	5·8	9·3	63	...	0·7	...	7·8	0	0	28	0	15	7	1	2	3	0	0	3	0
Rajpur (Jhabua)	0830	293	1017·1	982·8	...	14·9	11.2	7·3	10.4	61	...	1·8	...	3·3	0	0	23	0	0	21	1	0	0	1	0	8	0
	1730	,,	1011·5	978·6	...	26·1	17·3	10·2	12·7	38	...	1·3	...	5·3	0	1	26	5	2	10	1	0	0	7	2	4	0
Chhindwara	0830	685	1017.4	939.0	−0·6	14·5	10·9	7·5	10·4	64	−1	2·0	+0·6	1·0	0	0	7	2	3	1	1	0	0	0	0	24	0
	1730	,,	1012·1	935·7	...	20·9	14·4	9·0	11·7	48	...	2·9	...	2·4	0	0	20	3	4	1	2	1	5	2	2	11	0
Seoni	0830	619	1017·2	946·3	−0·7	15·0	11·1	7·5	10·2	61	+1	2·6	+1·2	3·4	0	0	25	6	9	1	0	1	6	0	2	6	0
	1730	,,	1012·5	943·2	...	20·4	14·3	8·9	11·9	49	...	2·2	...	3·8	0	0	30	4	12	1	4	3	5	0	1	1	0
Betul	0830	653	1016.9	942.4	−0·9	16·2	11·7	7·5	10·4	51	−13	1·9	+0·4	5·0	0	0	29	1	4	8	14	2	0	0	0	2	0
	1730	,,	1011·9	939·1	...	21·4	14·4	8·7	11·3	45	...	2·2	...	5·6	0	0	31	8	12	1	1	2	3	1	3	0	0
Khandwa	0830	318	1017·0	979·8	−0.6	15·9	11·8	7·6	10·4	59	−1	2·7	+1·3	2·4	0	0	30	0	20	3	3	2	2	0	0	1	0
	1730	,,	1011.8	975·9	...	24·9	16·0	8·2	10·9	36	...	2·1	...	2·9	0	0	30	5	14	0	4	3	3	0	1	1	0
Madhya Pradesh (East)																											
Satna	0530	317	1017·1	978·9	...	7·0	6·1	4·9	8·7	87	...	0·6	...	1·0	0	0	9	2	0	0	0	0	0	5	2	22	0
	0830	,,	1018·7	931·0	−0·3	11·3	8·4	5·1	8·8	68	+2	2·4	+1·0	0·9	0	0	12	0	1	2	2	1	2	1	3	19	0
	1130	,,	1017.3	980·5	...	18·3	11·7	4·1	8·4	44	...	1·3	...	3·2	0	0	28	4	3	3	5	2	2	2	7	3	0
	1730		1014.6	977·7	...	18·0	12·3	6·3	9·7	48	...	1·4	...	1·1	0	0	9	7	0	1	0	0	0	1	0	22	0
	2330	,,	1017·2	979·4	...	10·1	8.1	5·8	9·1	76	...	0·3	...	0·5	0	0	4	1	0	1	0	1	0	0	1	27	0
Sidhi	0830	272	1018·2	985·9	...	11·8	8·7	5·9	8·9	72	...	0·6	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	,,	1014·1	982·5	...	18·2	12·2	6·1	9·4	47	...	0·5	...	0·1	0	0	1	0	9	0	1	0	0	0	0	30	0
Umaria	0830	459	1018·5	964·7	...	11·8	9·3	6·9	9·9	73	+6	1·9	+0.1	3·2	0	0	25	1	3	8	9	2	1	0	1	6	0
	1730	,,	1013·8	971·7	...	18·9	13·5	9·3	11·5	56	...	2·3	...	1·9	0	0	22	2	0	2	1	0	2	2	3	9	0
Jabalpur	0530	393	1016·3	969·7	...	8·7	8·0	7·2	10·1	90	...	1·2	...	1·0	0	0	12	0	1	3	18	0	0	0	0	19	0
	0830	,,	1018·2	972·0	−0.4	11·7	9·8	7·8	10·6	77	+4	1·6	+0·3	1·7	0	0	19	1	3	0	3	1	0	1	0	12	0
	1130	,,	1016·5	971·6	...	19·7	13·5	7·3	10·5	46	...	1·3	...	3·7	0	0	27	4	8	3	5	4	1	1	1	4	0
	1730	,,	1013·2	968·4	...	20·1	14·2	8·6	11·4	49	...	1·8	...	2·2	0	0	20	2	15	0	1	1	1	0	0	11	0
	2330	,,	1016·4	970·3	...	11·7	10·2	8·7	11.2	82	...	0·5	...	1·2	0	0	10	0	4	0	5	1	0	0	0	21	0
Ambikapur	0830	611	1018·8	947·5	−0·9	10·0	8·5	6·7	9·8	80	+5	1·5	+0·6	1·9	0	0	18	3	4	2	1	3	2	0	0	13	0
	1730	,,	1013·3	944·4	...	18·9	11·9	4·8	8·6	41	...	1·5	...	4·5	0	0	31	25	1	1	0	1	0	1	2	0	0
Pendra	0530	625	1016·5	943·6	...	9·5	7·4	4·9	8·8	74	...	0·7	...	5·2	0	0	25	9	3	0	0	2	2	3	6	6	0
	0830	,,	1018·1	946·0	...	12·9	9·4	5·8	9·3	63	−1	1·4	−0.2	4·9	0	0	28	14	..	1	2	2	3	0	3	3	0
	1130	,,	1016·5	945·7	...	18·4	11·7	4·9	8·9	44	...	1·9	...	8·3	0	2	29	14	6	1	0	3	2	1	4	0	0
	1730	,,	1013·6	943·3	...	17·9	11·8	5·6	9·4	46	...	2·4	...	4·6	0	0	28	11	2	0	1	4	1	2	7	3	0
	2330	,,	1016·7	944·5	...	12·1	8 8	5·2	9·0	64	...	0·6	...	4·0	0	0	27	5	0	0	0	2	5	3	12	4	0
Mandla	0830	443	1018·7	966·6	−0·6	11·2	9·9	8·5	11·1	84	0	1·3	−0·2	0·5	0	0	4	3	0	0	0	0	0	0	1	27	0
	1730	,,	1013·1	962·8	...	20·0	13·8	8·1	10·8	48	...	1·6	...	2·4	0	0	15	6	0	0	1	1	1	0	6	16	0
Champa	0830	245	1017·9	989·5	+0·3	14·1	11·6	8·3	11·6	69	−1	1·6	−0·1	3·7	0	0	28	26	0	1	0	0	0	0	1	3	0
	1730	,,	1013·7	985·6	...	21·7	14·8	8·4	11·2	44	...	1·9	...	2·4	0	0	25	17	1	1	0	0	1	2	3	6	0
Raigarh	0830	220	1017·4	991·5	−0·6	15·6	12·0	8·4	11·0	63	−1	1.0	−0·4	3·1	0	0	23	2	19	0	1	1	0	0	0	8	0
	1730	,,	1012·8	987·5	...	21·2	16·2	12·2	14·4	58	...	1·3	...	0·4	0	0	4	0	4	0	0	0	0	0	0	27	0
Raipur	0530	298	1015·8	980·6	...	12·7	11·0	9·4	11.8	81	...	1·5	...	1·4	0	0	10	2	2	2	3	0	0	1	0	21	0
	0830	,,	1017·8	983·0	−0·1	16·1	12.4	8·8	11·4	63	−1	1·9	+0·7	3·4	0	0	23	6	7	3	2	3	0	1	1	8	0
	1130	,,	1016·5	982·4	...	22·1	14·4	7·7	10·2	41	...	1·4	...	5·7	0	0	29	6	8	5	4	1	3	1	0	0	0
	1730	,,	1013·4	79·4	...	2.2	15·3	9.2	11.9	45	...	1·8	...	2·8	0	0	19	5	8	2	0	1	0	2	0	12	1

(a) Maen of 30 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Cloud amount (Oktas): Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (km. p. h.): 62 or more	Wind speed (km. p. h.): 20 to 61	Wind speed (km. p. h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Pradesh (East)—(*Contd.*)																											
Raipur (*Contd.*)	2330	,,	1015.7	981·0	...	16·3	12·8	9.3	11·9	64	...	0·7	...	3·2	0	0	23	1	3	8	4	7	0	0	0	8	0
Kanker	0830	402	1017·1	970·7	−0·7	16·4	13·4	10·6	12·9	69	−6	1·2	−0·5	0·7	0	0	5	1	0	0	1	2	0	0	1	26	0
	1730	,,	1012·7	967·5	...	23·1	15·8	9·6	12·0	44	...	0·9	...	1·9	0	0	16	0	12	0	0	0	1	0	3	15	0
Jagdalpur . . .	0530	553	1015·4	951·2	...	11·5	10·9	10·4	12·6	93	...	0·8	...	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	0830	,,	1017·2	953·6	−0·5	14·9	12·8	11·2	13·3	79	−2	1·1	−1·1	0·4	0	0	3	1	2	0	0	0	0	0	0	28	0
	1130	,,	1014·4	952.7	...	23·0	15·5	9·8	12·2	44	..	1·2	...	4·1	0	0	27	5	14	2	1	0	0	0	5	4	0
	1730	,,	1011.6	950.0	...	22.3	15.9	11.2	13.3	50	..	2·6	...	1·4	0	0	14	5	7	0	0	2	0	0	0	17	0
	2330	,,	1015.5	952.0	...	14.8	13.0	11.7	13·7	82	...	0.6	...	0·5	0	0	5	0	0	3	1	0	0	0	1	26	0
Gujarat Region																											
Deesa	0830	136	1016·7	1000·4	−0·5	25·3	8·8	3.2	7·7	51	...	0·7	...	3·7	0	0	30	3	20	5	0	1	0	0	1	1	0
	1730	,,	1012·7	997·2	...	13·8	14·0	1·2	6·9	22	...	0·8	...	3·4	0	0	31	11	8	1	0	2	1	2	6	0	0
Radhanpur . . .	0830	30	1016·2	1012·6	...	13·7	11·1	8·1	11·1	69	...	1·0	...	6·0	0	0	31	15	10	5	0	0	1	0	0	0	0
	1730	,,	1013·0	1009·6	...	25·0	18·1	12·8	15·2	48	...	0·6	...	3·0	0	1	18	14	0	1	0	0	0	0	3	13	0
Idar	0830	219	1016·0	990·5	...	18·6	10·7	0·6	6·5	32	...	1·7	...	9·0	0	0	24	0	20	8	0	0	0	0	0	3	0
	1730	,,	1012·2	987·3	...	24·1	14·4	4·4	8·5	29	...	1.5	...	2·8	0	0	22	0	1	17	5	0	0	3	1	9	0
Ahmadabad . .	0230	55	1014·0	1007·4	...	15·0	10·5	5·3	9·1	54	...	0·8	...	12·6	0	3	28	2	20	7	0	0	0	0	2	0	0
	0530	,,	1015·9	1017.5	...	13·3	9·5	5·0	8·8	58	...	0·5	...	13·2	0	3	28	3	18	8	0	0	0	1	1	0	0
	0830	,,	1015·9	1009·4	−0·9	15·2	10·2	4·4	8·4	50	−10	1·4	+0·4	16·7	0	11	20	3	17	10	0	0	0	1	0	0	0
	1130	,,	1016·0	1009·7	...	24·2	14·4	4·4	8·5	29	...	1·4	...	20.6	0	22	9	0	6	22	1	0	0	0	2	0	0
	1730	,,	1012·3	1006·0	...	26·2	15·2	4·1	8·4	25	...	1·3	...	13·5	0	3	28	8	9	11	0	0	0	1	2	0	0
	2330	,,	1014·5	1008·5	...	16·4	11·3	5·7	9·3	50	...	0·6	...	11·5	0	1	29	8	16	4	0	1	0	0	1	1	0
Dohad . . .	0830	333	1016·6	977·6	−0·8	14·1	9·7	4·4	8·2	53	−7	1·1	−0·3	6·8	0	0	30	1	10	16	2	1	0	0	0	1	0
	1730	,,	1011·5	974·1	...	25·1	15·4	6·1	9·7	30	...	0·5	...	7·7	0	1	30	3	15	7	0	0	2	0	4	0	0
Baroda (Aerodrome) .	0830	38	1015·3	1010·8	...	15·8	11·6	7·3	10·3	58	...	1·7	...	8·0	0	0	27	19	3	0	0	1	0	0	4	4	0
	1130	,,	1015·4	1011·0	...	25.6	16 5	8·7	11·4	35	...	1·5	...	11·9	0	5	23	8	10	8	1	0	0	0	1	3	0
	730	,,	1011·5	1007·2	...	27·0	17·3	9·2	11·9	33	...	2·0	...	7·7	0	0	30	9	7	1	0	0	2	3	10	1	0
Baroda . . .	0530	34	1013·5	1009.2	...	13·8	11·4	8·9	11·5	73	...	0·4	...	...	0	0	...	0	27	0	0	0	0	1	1	2	0
	0830	,,	1015·5	1011·3	−0·6	14·2	11·2	8·1	10·9	68	−5	0·9	−0·1	(p) 4·9	0	0	12	0	27	0	1	0	0	0	0	3	0
	1130	,,	1015·6	1011·6	...	25.8	16·8	9·2	11·9	36	...	0·6	...	(p) 3·0	0	0	9	2	17	5	0	0	0	0	0	6	0
	1730	,,	1011·9	1007·9	...	25·6	17·7	11·6	13 7	42	...	0·8	...	(p) 3·7	0	0	5	2	10	1	0	0	1	4	4	10	0
	2330	,,	1014·2	1010·0	...	17·5	13·3	9·6	11·9	61	...	0·1	...	(p) 3·0	0	0	9	1	21	1	0	0	0	0	2	6	0
Broach . . .	0830	17	1014·3	1012·2	−1.4	14·3	11·8	9·4	11·9	73	+7	0·7	−0·5	4·5	0	0	31	0	19	2	2	2	3	0	3	0	0
	1730	,,	1010·8	1008·8	..	29·4	19·1	11·5	13·7	35	...	0·9	...	4·6	0	0	31	5	17	0	0	1	3	3	2	0	0
Surat . . .	0530	12	1012·5	1011.1	...	16·6	13·5	10.7	12·9	69	...	0·6	...	8·3	0	1	26	7	16	2	1	0	0	0	1	4	0
	0830	,,	1014·7	1013·3	−0·9	17·6	14·0	11·2	13·1	66	+8	0·9	−0·4	5·3	0	0	28	6	17	4	0	0	0	0	1	3	0
	1130	,,	1014·9	1013.5	...	27·7	15·3	12·4	14·5	39	...	2·0	...	9·6	0	2	28	4	12	11	1	0	0	2	0	1	
	1730	,,	1010·9	1009·6	..	28·0	19·3	13·2	15·3	41	...	0·8	...	5.6	0	0	29	3	7	2	0	0	3	2	12	2	0
	2330	,,	1013·6	1012·2	...	20·4	15·3	11·0	13·2	55	...	0·6	...	11·5	0	1	30	11	17	0	2	0	1	0	0	0	0
Saurashtra and Kutch																											
Bhutakia Bhimasar .	0830	47	1016.6	1010·9	...	15·4	13·8	12.5	14.5	83	...	0	...	14·7	0	6	25	14	14	3	0	0	1	0	2	0	0
	1730	,,	1013·0	1007·6	...	25·2	21.2	19.0	22.0	69	...	0	...	14·6	0	4	27	16	10	0	0	0	0	1	1	0	0
Naliya . . .	0830	21	1016·3	1013·7	...	11·5	9·0	5·9	9 5	69	...	1·3	...	2·4	0	0	14	2	12	0	0	0	0	0	0	17	0
	1730	,,	1013·0	1010·5	...	23·3	14·8	4·0	8·4	27	...	1·1	..	13·3	0	6	24	6	17	0	0	0	2	1	4	1	0
Bhuj (Rudramata) .	0230	80	1015·0	1005·2	...	10·4	9·2	7·8	10·7	84	...	0·4	...	2·3	0	0	14	0	1	0	0	0	9	4	0	17	0
	0530	,,	1014·7	1005·0	...	9·5	8·4	6·9	10·1	86	...	0·3	...	3·6	0	0	15	0	2	0	0	0	8	4	1	16	0
	0830	,,	1016·6	1006·9	−0·5	12·2	10·2	8·1	10.9	77	+28	1·2	+0·1	1·6	0	0	9	1	2	0	0	0	5	1	0	22	0
	1130	,,	1016·7	1007·4	...	23·7	16·8	11·1	13·6	47	...	1·4	...	12.0	0	4	27	3	12	7	0	0	0	0	1	0	0
	1730	,,	1013·2	1004·0	...	24·6	17·2	11·2	13·7	45	...	1·3	...	15·0	0	7	24	3	26	1	3	0	0	1	0	0	0
	2330	,,	1015.7	1006.0	...	12·7	10·5	8·1	10·9	74	...	0·4	...	3·5	0	0	14	2	4	1	0	0	3	3	1	17	0
Kandla (Aerodrome)	0830	35	1016·5	1012.3	...	15·3	12·4	9·5	12·0	69	...	1·2	...	14.5	0	2	29	16	1	0	0	1	0	0	13	0	0
	1130	,,	1016·9	1012·8	...	24·0	16·5	10·1	12·7	43	...	1·0	...	19·8	0	15	16	7	13	9	0	0	0	1	1	9	0
	1730	,,	1013·2	1009·2	...	25·2	16·7	9·6	12·2	39	...	1·2	...	20·1	0	13	18	19	4	1	0	1	0	0	6	0	0
New Kandla . .	0830	14	1016.6	1014·9	...	15·8	12·4	9·0	11·6	64	...	1·9	...	12·4	0	1	30	19	6	0	0	0	1	1	4	0	0
	1730	,,	1013·5	1011·8	...	24·2	16·3	9·4	12·2	40	...	1·6	...	15·2	0	8	23	19	8	2	0	0	1	1	0	0	0
Mandvi . . .	0830	9	1015·7	1014·6	−1·2	16·2	12.1	8·2	10·8	60	−4	1·9	+0·1	14·4	0	0	30	4	23	2	0	0	0	0	1	1	0
	1730	,,	1012·7	1011·6	...	24·3	18·3	14.4	16.1	54	...	1·7	...	14·4	0	1	29	1	9	2	4	1	9	0	1	1	3
Surendranagar . .	0830	74	1015·8	1007·0	−0.8	15·8	11·1	6.0	9·4	54	+1	1·0	−0·4	5·7	0	0	28	13	12	2	0	0	0	0	1	.	0
	1730	,,	1012·0	1003.6	...	27·1	16.9	8.4	11.0	32	...	1·2	...	6·0	0	0	30	11	11	7	0	0	0	0	1	.	0
Jamnagar (Aerodrome)	0530	23	1013.8	1011·1	...	12·6	9·7	6·4	9·7	67	...	0·3	...	11·6	0	4	27	0	7	12	9	2	0	1	0	.	0

(p) Mean of 15 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in 8 p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %.	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Saurashtra and Kutch—(Contd.)																											
Jamnagar (Aerodrome)—(Contd.)	0830	23	1015·8	1013·1	−0·9	14·5	10.6	6.4	9·5	59	−2	1·3	+0.3	9·3	0	3	27	0	7	18	2	2	1	0	0	1	0
	1130	,,	1016·1	1013·5	...	22·6	14·7	7.5	10·3	38	...	1·4	...	18·7	0	13	18	1	22	6	1	0	0	1	0	0	0
	1730	,,	1012·4	1009.8	...	24·3	15·9	8·5	11·2	38	...	1.1	...	19·2	0	13	18	14	14	0	0	0	0	3	0	0	0
	2330	,,	1014·8	1012·1	...	18·1	14·5	11·4	13.5	66	...	0·6	...	12·5	0	4	25	8	15	3	0	0	1	0	2	2	0
Dwarka	0830	11	1015·7	1014·4	−0.9	17·2	14·3	12·2	14·3	72	+8	0·5	−1·0	12·1	0	5	26	8	13	8	1	0	0	1	0	0	0
	1730	,,	1012·9	1011·6	...	25·1	16·6	9·2	12·0	39	...	0·6	...	18·8	0	14	17	8	10	7	0	0	0	1	5	0	0
Rajkot	0830	138	1015·8	999·5	−1·1	15·6	9·9	2·8	7·6	44	−9	0·2	−1·0	8·8	0	5	20	2	10	11	1	0	1	0	0	6	0
	1130	,,	1015·5	999·8	...	25.0	14·6	3·8	8·2	27	...	0·3	...	17·0	0	12	19	4	14	11	1	0	0	1	0	0	0
	1730	,,	1011·9	996·3	...	26·7	14·9	2·2	7·4	22	...	0·3	...	14·8	0	8	23	1	25	1	1	0	0	2	1	0	0
Bhaunagar (Aerodrome)	0830	11	1015·1	1013·9	−1·1	16·5	12·0	7.4	10·4	55	+12	1·0	−0·4	11·2	0	4	26	7	3	1	0	0	1	2	16	1	0
	1130	,,	1015·6	1014·4	...	23·8	16·9	11·5	13·7	46	...	0·8	...	15·9	0	10	21	8	16	6	0	0	0	0	1	0	0
	1730	,,	1011·6	1010·4	...	26·8	17·9	11·1	13·4	38	...	1·3	...	18·2	0	11	20	6	19	4	1	1	0	0	0	0	0
Porbander (Aerodrome).	0830	7	1015·3	1014·5	...	19·5	12.5	4·8	8·9	41	...	0·7	...	14·1	0	8	23	8	10	6	2	1	0	0	4	0	0
	1130	,,	1015·6	1014·8	...	26·7	15·8	5·0	9·1	26	...	0·6	...	20·4	0	19	12	3	16	10	0	0	0	1	1	0	0
	1730	,,	1012·0	1011·2	...	26·5	16·5	7·3	10·7	32	...	0·8	...	18·7	0	14	17	8	9	1	0	0	0	10	2	0	1
Porbandar	0830	7	1015·0	1014·2	−1.1	18·3	13.1	7·9	10.9	52	−10	2·4	+0·9	6·5	0	1	30	11	12	5	0	0	0	0	3	0	0
	1730	,,	1012·1	1011·3	...	27·0	18·7	12·4	14·9	43	...	2·0	...	11.5	0	0	31	9	8	0	0	0	2	7	5	0	0
Keshod	0830	51	1015·4	1009·3	...	16.2	10.4	3·2	8·0	44	...	0·3	...	14·3	0	7	24	1	15	14	1	0	0	0	0	0	0
	1130	,,	1015·5	1009·7	...	25·4	15·3	5·4	9·2	29	...	0 3	...	22.2	0	17	14	5	12	13	0	0	0	0	1	0	0
	1730	,,	1011·6	1005·8	...	28·8	16·4	3·9	8·6	22	...	0·5	...	16·2	0	13	18	10	11	2	0	0	2	5	1	0	0
Mahuva	0830	9	1014·1	1013·2	...	19·2	14·4	10·0	12·5	56	...	1·4	...	9·5	0	1	29	9	16	0	0	0	0	0	5	1	0
	1730	,,	1011·1	1010·0	...	26·8	18·2	11·9	13·9	42	...	2·5	...	8·1	0	0	31	0	5	4	16	2	4	0	0	0	0
Veraval	0230	8	1012·7	1011·8	...	17·6	11·9	5·4	9·3	47	...	0·1	...	16·6	0	7	24	12	18	0	0	0	0	0	1	0	0
	0530	,,	1012·4	1011·5	..	17·0	11·0	3·9	8·3	44	...	0·2	...	17·5	0	13	18	11	20	0	0	0	0	0	0	0	0
	0830	,,	1014·3	1013.4	−1·3	18·8	12·0	4·4	8·5	41	−8	1·2	0	16·8	0	11	20	9	21	0	0	0	0	0	1	0	0
	1130	,,	1014·8	1013·9	...	27·6	16·9	7·1	10·6	29	...	1·4	...	15·8	0	10	21	7	9	3	1	5	2	2	1	0	1
	1730	,,	1011·3	1010.4	...	25·9	19·5	14·7	17·5	53	...	1·5	...	17·5	0	11	20	2	1	0	2	7	6	9	3	0	1
	2330	,,	1013·8	1012·9	...	18·9	13·8	8·6	11·7	54	...	0·2	...	12·5	0	5	25	14	13	1	0	0	0	0	2	1	0
Konkan																											
Dahanu	0830	5	1013·4	1012·9	−1·0	20·0	16·5	13·4	15·9	68	−1	2·4	+0.8	7·0	0	0	30	1	2	9	18	0	0	0	0	1	0
	1730	,,	1010·6	1010·1	...	26·0	19·8	15·9	18·1	54	...	2·1	...	22·5	0	16	15	23	2	0	0	0	0	4	2	0	0
Bombay (Santa Cruz Aerodrome).	0230	15	1011.5	1009·8	...	19·3	17·3	16·0	18·2	81	...	0·5	...	4·2	0	0	17	2	11	4	0	0	0	0	0	14	0
	0530	,,	1011·3	1009.6	...	19.0	16·7	14·9	17·1	79	...	0·5	...	6·7	0	1	22	4	10	9	0	0	0	0	0	8	0
	0830	,,	1013·4	1011·7	−1·5	22·4	18.1	15·0	17·3	64	−1	2·0	+0·6	6·2	0	0	24	1	7	15	1	0	0	0	0	7	0
	1130	,,	1013·6	1011·9	...	28·9	20·0	13·8	16·1	41	...	1·7	...	8·0	0	1	26	3	3	11	5	1	1	1	2	4	0
	1730	,,	1010·5	1008·9	...	27·3	21·0	17·3	19·7	55	...	1·8	...	10·8	0	2	29	5	1	0	0	0	1	5	19	0	0
	2330	,,	1012·6	1010·9	...	20·8	18·4	16·7	19·3	78	...	0·4	...	3·3	0	0	13	3	7	3	0	0	0	0	0	18	0
Bombay	0830	11	1013·5	1012·2	−1.4	22·7	20·1	18·5	21·4	78	+8	1·9	+0·5	5·6	0	1	28	0	8	17	4	0	0	0	0	2	0
	1130	,,	1013·6	1012·4	...	28·1	22·1	18·5	21·7	57	...	1·9	...	4·8	0	0	29	1	5	15	5	0	1	0	2	2	0
	1730	,,	1010·5	1009·3	...	27·2	22·7	20·3	23·8	66	...	1·8	...	5·9	0	0	30	3	0	0	0	0	0	5	22	1	0
Alibag	0830	7	1013·3	1012·5	−1·3	22·1	18·7	16·5	18·8	71	+7	1.6	−0·2	3·9	0	0	25	7	7	11	0	0	0	0	0	6	0
Harnai	0830	20	1013·0	1010·7	−0·7	25·3	20·0	16·8	19·0	60	+4	3·5	+1.6	9·5	0	3	25	2	2	15	6	1	0	1	1	3	0
	1730	,,	1010·0	1007·7	...	27·2	23·0	20·6	24·7	68	...	3·4	...	19.4	0	17	14	1	0	0	0	0	0	8	22	0	0
Ratnagiri	0830	35	1013·0	1009·1	−0·9	23.3	18·8	15·7	18·1	64	...	2·7	...	9.4	0	2	29	0	2	12	16	0	1	0	0	0	0
	1730	,,	1009·6	1005.7	...	28·6	22·2	18·5	21·6	55	...	1·4	...	8·3	0	0	31	1	0	1	2	0	0	1	23	0	0
Devgarh	0830	36	1012·5	1008·5	−1·0	23·1	20·0	18·0	20·8	74	+7	2·8	+0·8	10 7	0	2	29	0	7	22	2	0	0	0	0	0	0
	1730	,,	1009·3	1005·3	...	28·8	23 5	20.7	24·7	62	...	2·6	...	17·0	0	11	20	0	0	0	0	0	0	7	24	0	0
Vengurla	0230	9	1010·9	1009·9	...	21·1	19·6	18·8	21 6	87	...	0·8	...	0·9	0	0	6	4	0	0	1	0	0	0	1	25	0
	0530	,,	1010·8	1009·8	...	20·1	18·9	18·0	20·9	88	...	0·9	...	2·3	0	0	14	12	2	0	0	0	0	0	0	17	0
	0830	,,	1013·1	1012·1	−1·0	21·7	19·0	17·2	19·7	76	+4	2·1	+0·5	2·4	0	0	16	13	1	0	0	0	1	1	0	15	0
	1130	,,	1012·9	1011·9	...	30·8	20·9	14·4	16·6	38	...	1·9	...	7·9	0	0	30	2	5	12	6	1	0	4	0	1	0
	1730	,,	1009·5	1008·5	...	29.0	22·6	19·1	22·2	56	...	1·9	...	6·4	0	0	30	0	1	0	0	0	3	23	3	1	0
	2330	,,	1012·0	1011·0	...	22·4	20·4	19·1	22·4	82	...	0·4	...	1·7	0	0	12	11	0	0	0	0	0	0	1	19	0
Madhya Maharashtra																											
Nandurbar	0830	206	1015·6	991.9	...	20·9	14·5	8·4	11·4	47	...	1.1	...	9·5	0	0	30	1	9	16	2	0	0	0	2	1	0
	1730	,,	1011.0	987·8	...	26·9	17·5	10·1	12·3	35	...	0·8	...	4·6	0	0	20	1	10	5	0	0	0	3	1	11	0
Jalgaon	0830	201	1016·4	992·8	−0.2	16.7	13·3	10·2	12·5	66	+3	2·8	+1.3	11·7	0	3	28	2	0	22	7	0	0	0	0	0	0
	1730	,,	1011·9	989·1	...	26·9	17·9	10·9	13·2	38	...	1·8	...	7·9	0	1	30	5	7	16	1	0	0	1	1	0	0

Division and station	Hour of observation I.S.T.	Height of barometer cistern above mean sea level in metres	Mean pressure in millibars: At mean sea level or height in g.p. m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Windspeed (km. p.h.): 62 or more	Windspeed (km. p.h.): 20 to 61	Windspeed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Madhya Maharashtra—*Contd.*																											
Malegaon	0830	437	1016·3	965·7	−1·0	16·0	11·7	7·6	10·3	57	0	1·3	−0·3	1·8	0	0	14	2	0	1	0	0	4	3	4	17	0
	1730	,,	1010·4	962·0	...	27·5	16·7	7·2	10·3	29	...	2·5	...	8·2	0	2	24	1	6	6	3	2	3	4	1	5	0
Deolali (Aerodrome)	0830	571	1016·4	950.8	...	15·2	12·4	10·0	12·3	71	...	1·7	...	5·1	0	0	24	19	4	1	0	0	0	0	0	7	0
	1730	,,	1010·5	947·6	...	26·4	17·0	9·9	12·5	36	...	1·8	...	8·1	0	1	28	5	3	1	1	1	6	10	2	2	0
Ahmednagar	0830	657	1015·5	940·8	−1·5	16.4	12·1	8·4	11·0	59	+4	1·6	+0·2	2·2	0	0	13	0	0	0	8	0	0	0	5	18	0
	1730	,,	1009·5	937·7	...	27·0	17·0	9·8	12·1	35	...	3·0	...	2·2	9	0	9	0	3	1	3	0	1	0	1	22	0
Poona (Aerodrome)	0230	593	1012·9	945·5	...	17·2	13·2	9·8	12·3	62	...	0·5	...	2.2	0	0	15	1	1	3	0	0	1	8	0	16	1
	0530	,,	1013·3	945·5	...	15·5	12·6	10·1	12·5	72	...	1·4	...	2·6	0	0	12	1	2	5	0	0	0	3	1	19	0
	0830	,,	1014·8	947·5	...	18·1	13·9	10·5	12·9	62	...	2·7	...	2·2	0	0	14	0	3	7	1	1	0	1	1	17	0
	1130	,,	1013·2	947·6	...	25·6	16·5	9·8	12.2	37	...	2·1	...	11·3	0	4	25	0	0	18	8	0	1	1	1	2	0
	1730	,,	1008·9	943·9	...	27·3	17·0	9·5	11·9	34	...	3·1	...	7·9	0	2	26	2	1	10	3	0	1	10	1	3	0
	2330	,,	1013·3	946·3	...	18·7	14·4	11·1	13·3	62	...	0·9	...	3·4	0	0	20	1	1	5	0	0	0	10	3	11	0
Poona	0530	559	1013·3	949·2	...	14·8	13.0	11·5	13·7	81	...	0·9	...	0·2	0	0	1	0	0	0	1	0	0	0	0	30	0
	0830	,,	1015·2	951·3	−1·5	16·9	13·9	11·5	13·7	71	0	1·6	+0·2	0·3	0	0	1	1	0	0	0	0	0	0	0	30	0
	1130	,,	1012·7	951·0	...	26·2	17·2	10·7	13·0	38	...	1·7	...	3·5	0	0	21	2	7	2	7	1	0	0	2	10	0
	1730	,,	1008·7	947·4	...	27·5	17.7	10·8	13·1	36	...	2·7	...	1·2	0	0	8	0	2	1	0	0	0	3	2	22	0
	2330	,,	1013·3	949·9	...	18·5	14·7	11·9	13.9	66	...	0·7	...	0·1	0	0	1	0	0	0	0	0	1	0	0	30	0
Jeur	0830	521	1015·6	956·1	−0·8	17·8	13·4	9·8	12·2	59	0	3.7	+2·1	3.8	0	0	25	2	3	6	7	4	2	0	1	6	0
	1730	,,	1009·1	951·8	...	27·7	17·4	9·8	12·3	33	...	3·9	...	5·1	0	0	30	2	2	8	10	3	3	1	1	1	0
Baramati	0830	551	1015·3	952·6	−1.2	17·6	13·4	9·9	12·3	51	−5	1·6	+0·2	4·8	0	0	31	2	4	17	5	2	0	0	1	0	0
	1730	,,	1008·9	948·7	...	28·1	17·6	10·1	12·4	33	...	2·3	...	6·5	0	0	31	1	1	12	8	5	2	2	0	0	0
Sholapur	0530	479	1013·6	958·8	...	16·7	13·4	10·8	12·9	68	...	2·1	...	5·9	0	0	27	1	7	5	11	2	0	1	0	4	0
	0830	,,	1015·4	961·0	−0·7	20·3	15·5	12·0	14·1	60	+7	2·2	+0·6	6·3	0	0	30	1	2	8	14	4	1	0	0	1	0
	1130	,,	1013·8	960·6	...	26·1	18·4	13·2	15·5	46	...	2·0	...	13·7	0	3	28	0	2	4	15	8	1	0	1	0	0
	1730	,,	1009·7	957·0	...	27·7	18·3	11·9	14·1	38	..	3·8	...	6 7	0	0	28	4	7	6	8	1	0	2	0	3	0
	2330	,,	1013·2	959·1	...	20·8	14·9	10·3	12·7	52	...	2·7	...	10·5	0	0	31	1	8	5	14	2	0	1	0	0	0
Miraj	0830	554	1014·9	952·1	−1·1	18·8	15·1	12·4	14·5	66	+6	3·9	+2·1	...	0	0	8	0	0	8	0	0	0	0	0	23	0
	1730	,,	1008·3	948·0	...	28·7	20·0	14·9	16·9	44	...	4.3	...	...	0	0	17	0	0	8	8	0	0	0	1	14	0
Kolhapur	0530	570	1012.9	947·9	...	15·9	13·2	10·9	13·2	72	...	1·4	...	3 0	0	0	23	0	8	7	1	0	6	1	0	8	0
	0830	,,	1014·6	950.2	−0·8	19.2	14·7	11·1	13·5	60	+3	2·2	+1·0	5·9	0	0	29	1	15	11	0	0	1	0	1	2	0
	1130	,,	1012·5	949·7	...	26·4	17·8	11·9	14·1	42	...	2·6	...	13·7	0	6	25	1	3	13	11	1	1	0	1	0	0
	1730	,,	1008·3	946·1	...	27·9	17·7	10·3	12·9	34	...	3·1	...	9·8	0	0	31	1	9	14	2	0	0	4	1	0	0
	2330	,,	1012.6	948·5	...	20.0	15·5	12·0	14.3	61	...	1·3	...	5·9	0	0	28	0	4	7	4	3	3	6	1	3	0
Marathwada																											
Aurangabad	0830	581	1016.0	950·3	−1·0	19 1	13.5	8·9	11·4	52	+1	2·5	+0·8	3·7	0	0	25	0	4	21	0	0	0	0	0	6	0
	1730	,,	1010.5	946·5	..	26·0	16.6	9·4	12·0	36	...	3·1	...	2·7	0	0	14	1	2	3	1	0	3	3	1	17	0
Aurangabad (Chikalthana)	0230	579	1014·0	947·4	...	14·1	10·9	7·9	10·7	67	...	1·0	...	0·6	0	0	2	0	0	0	2	0	0	0	0	29	0
	0530	,,	1014·5	947·4	...	12·2	9·6	7·0	10·1	71	...	1·0	...	1.4	0	0	4	0	0	2	1	0	0	1	0	27	0
	0830	,,	1015·5	949·8	...	18·3	13·2	8·8	11·5	55	...	1·8	...	4·3	0	1	11	0	0	6	6	0	0	0	0	19	0
	1130	,,	1014·1	949·8	...	24·5	16·0	9·6	12·0	40	...	1·4	...	13·3	0	6	24	0	0	8	12	6	2	2	0	1	0
	1730	,,	1010·0	946·2	...	25.8	16·4	9·1	11·8	36	...	2·6	...	2·8	0	1	6	0	0	3	1	0	1	2	0	24	0
	2330	,,	1014·3	948·1	...	15·6	11·5	7·9	16·7	61	...	2·0	...	2·3	0	0	5	1	0	3	1	0	0	0	1	26	0
Parbhani	0830	423	1016·3	967·7	−0·1	18·2	13·6	9·3	11·9	57	−1	2·0	+0·3	6.1	0	0	30	2	8	7	8	1	2	1	1	1	0
	1730	,,	1011·0	963·9	...	26·3	17·0	9·3	11·9	35	...	2·9	...	4.8	0	0	26	2	14	5	2	0	1	1	1	5	0
Nander	0830	358	1016·2	975·0	...	19·4	15·2	11·3	13·8	61	...	0·2	...	2·0	0	0	15	0	7	4	3	1	0	0	0	16	0
	1730	,,	1011·1	971·1	...	26·9	19.3	14·1	16·2	46	...	0·2	...	2·3	0	0	26	0	15	4	1	3	3	0	0	5	0
Bhir	0830	519	1016·3	957.2	...	18·4	14·7	12·2	14·0	66	...	3·0	...	5·9	0	0	26	1	9	0	5	1	6	1	3	5	0
	1730	,,	1010·9	963·5	...	25·8	18·2	13·1	15·4	46	...	3·4	...	4·0	0	0	27	2	18	3	1	0	3	6	0	4	0
Vidarbha																											
Gondia	0830	313	1017·1	981·1	−0·4	14·9	12·2	9·6	11·9	71	0	2·9	+1·5	2·5	0	0	20	8	4	1	0	0	4	0	3	11	0
	1730	,,	1012·9	977.5	...	23·5	15·8	9·0	11·5	41	...	2·9	...	1·8	0	0	19	5	3	0	2	2	1	0	6	12	0
Nagpur (Sonegaon)	0230	310	1014·7	978·3	...	13·8	11·9	10·0	12·3	79	...	0·5	...	4·0	0	0	26	13	5	0	0	0	0	1	7	5	0
	0530	,,	1015·2	978·6	...	12·1	10·8	9·4	11·9	84	...	0·9	...	3·4	0	0	23	12	1	3	0	0	1	1	5	8	0
	0830	,,	1017·3	981·1	−0·6	15·9	12·6	9·4	11·9	66	+4	2·0	+0·3	4·5	0	0	27		11	3	0	0	0	1	1	4	0
	1130	,,	1015·8	980·5	...	23·5	15·7	8·8	11·5	40	...	2·1	...	5·9	0	0	30	2	4	13	7	2	0	1	1	1	0
	1730	,,	1012·4	977·3	...	23·2	16·5	11·1	13·3	47	...	2·5	...	4·4	0	0	28	2	8	10	5	2	1	0	0	3	0
	2330	,,	1015·3	979·0	...	15·2	12·7	10·3	12·7	73	...	0·8	...	4·3	0	0	26	10	11	1	0	0	1	1	2	5	0
Amraoti	0830	370	1016·2	973·7	−0·9	18·0	12·9	7·7	10·8	53	+2	2·0	+0·4	5·5	0	0	31	1	18	0	2	0	1	0	0	0	0
	1730	,,	1010·7	969·3	...	25·5	16·3	8·2	11·2	34	...	2·1	...	6·0	0	0	30	5	7	3	5	2	3	1	6	1	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of the nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km. p.h.): 62 or more	Wind speed (Km. p.h.): 20 to 61	Wind speed (Km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Vidarbha—*Cont.d.*																											
Akola Aerodrome	0530	309	1014·0	977·6	...	13·4	10·6	7·5	10·5	68	...	1·3	...	3·6	0	0	28	0	1	24	2	0	0	1	0	3	0
	2330	"	1013·9	978·7	...	17·6	2·7	7·8	10·8	54	...	0·0	...	3·9	0	0	28	0	3	15	8	1	0	1	0	3	0
Akola	0830	282	1616·4	983·6	−0·9	17·1	12·8	8·7	11·2	59	+2	1·8	+0·2	1·7	0	0	19	0	7	12	0	0	0	0	0	12	0
	1130	"	1015·0	983·1	...	24·3	10·0	8·8	11·5	39	...	1·5	...	3·9	0	0	31	1	4	19	3	0	2	2	0	0	0
	1730	"	1011·0	979·5	...	26·6	16·9	9·1	11·5	34	...	2·6	...	2·6	0	0	29	5	10	10	0	0	1	1	2	2	0
Bramhapuri	0830	229	1017·3	990·4	...	15·7	13·2	10·9	13·0	74	...	1·4	...	5·4	0	0	31	11	9	5	2	3	0	0	1	0	0
	1730	"	1012·7	986.7	...	24·2	16·9	10 9	13 4	45	...	1·4	...	4·2	0	0	30	8	9	4	1	4	0	0	2	1	2
Buldana	0830	650	1015·7	941·8	−0·9	17·1	12·8	9·0	11·6	60	+6	1·9	+0 4	2 6	0	0	25	0	4	0	18	0	1	0	2	6	0
	1730	"	1010 6	939·1	...	24·7	16·1	9·6	12·0	39	...	1·8	...	2·2	0	0	31	0	4	0	21	0	1	0	5	0	0
Yeotmal	0830	451	1015·7	964.0	−1·3	18·5	13·2	7·7	10 9	51	−2	4·7	+2·9	10·4	0	0	31	1	8	13	5	2	0	2	0	0	0
	1730	"	1011·5	961·4	...	24·3	15·9	8·4	11·2	38	...	2·4	...	6·6	0	0	31	3	13	7	1	4	1	0	1	0	1
Chanda	0830	193	1016 7	994·0	−0·9	17·2	14·7	12·6	14·7	74	+2	1·9	+0·4	3·5	0	0	25	5	5	6	3	2	0	3	1	6	0
	1730	"	1011·8	909.9	..	25·2	18·0	12·6	14 8	46	...	1·4	...	3 9	0	0	30	4	13	9	3	1	0	0	0	1	0
Pusad	0830	334	1016·9	978·1	...	16·8	14·4	12·1	14 5	75	...	0 9	...	1·7	0	0	14	0	3	1	1	1	2	2	4	17	0
	1730	"	1011·9	974·4	...	25·5	18·0	12·0	14 6	46	...	1·8	...	3·5	0	0	27	1	15	1	4	0	2	2	2	4	0
Sironcha	0830	123	1016·9	1002·5	−0·2	18·9	16·6	14·9	16 9	78	0	1 4	−0·4	2 8	0	0	25	6	6	5	6	0	0	0	2	6	0
	1730	"	1011 9	998·2	...	25·5	19·0	14·6	16 6	51	...	2·0	...	2 1	0	0	23	4	7	8	4	0	0	0	0	8	0
Coastal Andhra Pradesh																											
Kalingapatam	0830	6	1016·8	1016·1	0	20·7	17·5	15·3	17 4	72	−6	0·5	−1·4	5·0	0	0	31	6	2	0	0	0	0	1	22	0	0
	1730	"	1013 2	1012·5	...	22·9	18·5	15·6	17 7	64	...	0 8	...	10·1	0	1	30	1	2	23	4	1	0	0	0	0	0
Vishakhapatnam	0230	3	1013·6	1013·2	...	18·8	16·9	15 6	17 7	82	...	0·9	...	0 9	0	0	6	1	2	0	0	0	0	0	3	25	0
	0530	"	1013 9	1013·5	...	17·6	16·1	15·0	17 0	85	...	1·0	...	1.0	0	0	5	0	1	0	0	0	0	2	2	26	0
	0830	"	1016·1	1015·7	−0·4	22·3	18·0	15·0	17 1	64	−3	1·1	−1·6	3·5	0	0	14	1	5	1	0	0	1	1	5	17	0
	1130	"	1015 3	1014·9	...	26·5	18·9	13·6	15 7	46	...	1·6	..	12·7	0	1	30	2	6	15	7	0	0	0	1	0	0
	1730	"	1012·8	1012·4	...	23·3	18·5	15·2	17 4	61	...	2·1	...	13·2	0	1	30	0	0	25	6	0	0	0	0	0	0
	2330	"	1014·9	1014·5	...	19·6	17·4	15·9	18 1	79	...	1·2	...	1·3	0	0	6	1	3	1	0	0	0	0	1	25	0
Kakinada	0830	8	1016·1	1015·1	−0·3	25·1	20·2	17·1	19 5	61	−11	1·1	−1·5	13·7	0	0	31	0	31	0	0	0	0	0	0	0	0
	1730	"	1012·6	1011·7	...	24·3	19·5	16·5	18 8	62	..	0·9	..	13·7	0	0	31	0	29	0	2	0	0	0	0	0	0
Nidadavole	0830	12	1016·0	1014·5	...	21·5	18·7	16·9	19 3	75	...	3·4	...	4 6	0	0	31	0	26	3	0	0	0	1	1	0	0
	1730	"	1011·6	1010·2	...	25 8	20·2	16·7	19 0	58	...	4·8	...	4·9	0	0	29	0	0	16	12	1	0	0	0	2	0
Rentachintala	0930	106	0016·0	1003 7	...	21·9	18·9	16 8	19 1	73	+2	3·4	+0.2	1 3	0	0	19	2	1	9	6	0	0	1	0	12	0
	1730	"	1011·2	999 2	...	27·3	19·2	13 5	15 5	43	...	2·5	...	2 1	0	0	29	6	2	17	4	0	0	0	0	2	0
Gannavaram	0230	24	1013·4	1010·6	...	19·6	18 5	17 9	20 5	90	...	1·0	..	3 8	0	0	20	4	14	2	0	0	0	0	0	11	0
	0530	"	1013·7	1010·8	...	18·9	17·9	17·2	19 6	90	...	1·7	...	5 5	0	0	27	8	16	3	0	0	0	0	0	4	0
	0830	"	1016·1	1013·3	+0·2	22·2	19·2	17·3	19 7	74	+2	1·8	−0·5	12 0	0	4	27	2	17	12	0	0	0	0	0	0	0
	1130	"	1015·3	1012·5	...	26·0	20·5	17·0	19·4	57	...	3·1	...	14·3	0	7	24	1	9	16	5	0	0	0	0	0	0
	1730	"	1012·0	1009·3	...	26·3	20 4	16·6	18 9	56	...	2·9	...	7·1	0	1	28	0	1	17	9	2	0	0	0	2	0
	2330	"	1014·7	1011·8	...	20·6	19·2	18·3	21·0	87	...	1·0	...	6·1	0	0	29	1	17	9	1	0	0	0	1	2	0
Nagarjunakonda	0880	126	...	...	...	22·4	19·1	16·9	19·5	71	...	3·9	...	4.7	0	1	16	3	6	2	4	2	0	0	0	14	0
	1730	"	...	...	...	27·0	19·2	13·7	15·9	45	...	2·5	...	10·4	0	2	29	3	11	7	9	1	0	0	0	0	0
Masulipatam	0830	3	1015·9	1015.5	−0·4	22·7	20·1	18·5	21·4	78	0	2·2	+0·2	3·3	0	0	31	1	23	7	0	0	0	0	0	0	0
	1730	"	1012·4	1012·1	...	24·2	21·1	19·3	22·4	75	...	4·3	..	5·9	0	0	31	0	1	21	9	0	0	0	0	0	0
Ongole	0830	12	1015·4	1014·1	...	22·8	20·1	18 6	21·4	78	...	2·9	...	3·0	0	0	31	11	19	1	0	0	0	0	0	0	0
	1730	"	1011·8	1010.5	...	25·4	20·6	17 6	20·1	62	...	3·6	.	4·9	0	0	31	0	4	25	2	0	0	0	0	0	0
Nellore	0530	20	1012 7	1010.4	...	19·9	19·3	19·0	21·8	94	...	1·5	...	0 6	0	0	9	2	7	0	0	0	0	0	0	22	0
	0830	"	1015·2	1012·9	−0·2	22·7	20·8	19·7	22·9	84	0	3·5	−0·5	2·3	0	0	23	6	3	0	0	0	0	0	14	8	0
	1130	"	1014·6	1012·3	...	28·3	22·0	19 0	22·1	61	...	4·9	...	4·3	0	0	30	3	27	0	0	0	0	0	0	1	0
	1730	"	1012·1	1009·8	...	25·0	21·3	19 2	22·4	71	...	4·6	...	2·6	0	0	30	0	19	10	0	0	0	0	1	1	0
	2330	"	1014·0	1011·7	...	21·3	20·2	19 5	22·7	89	...	1·0	...	0·2	0	0	3	0	3	0	0	0	0	0	0	28	0
Telangana																											
Ramagundam	0830	156	1015·8	997·7	−1·1	19·7	16·5	14·2	16·2	71	+3	2·5	+0·8	4·1	0	0	23	13	1	2	4	2	1	0	0	8	0
	1730	"	1011·6	993·9	...	26·7	18·5	12 3	14·3	42	...	1·0	...	3·5	0	0	22	11	4	3	3	1	0	0	0	9	0
Nizamabad	0830	381	1015·9	972·1	−0·4	19·0	15·5	12·8	14·8	67	0	0·8	−0·8	0 6	0	0	6	0	1	2	2	1	0	0	0	25	0
	1730	"	1011·1	968·6	...	26·5	17·3	9·9	12·2	36	...	1·6	...	1·3	0	0	18	2	10	6	0	0	0	0	0	13	0
Hanamkonda	0830	269	1016.1	985.2	0·8	20·5	17·9	16·2	18·3	77	+7	1·3	−0·9	2·0	0	0	28	7	1	2	3	13	1	1	0	3	0
	1730	"	1012·1	981·9	...	25·5	20·4	17·0	19·7	59	...	0·9	...	1·9	0	0	28	6	7	2	5	8	0	0	0	3	0
Hakimpet (Aerodrome)	0530	613	1014·0	944·3	...	16·1	14·5	13·2	15·1	83	...	2·3	...	7·6	0	0	26	0	2	18	5	2	0	0	0	4	0
	0830	"	1015·2	946.0	...	18·7	16·0	14·2	16·1	76	...	4·2	...	11·6	0	3	28	0	3	11	13	3	1	0	0	0	0
	1130	"	1013.9	945·9	...	23·9	18·2	14·4	16·4	56	...	2.9	...	15.4	0	5	26	1	2	12	14	1	1	0	0	0	0
	1730	"	1011·3	943·4	...	23·9	16·9	11·9	14·6	48	...	3·2	...	10·0	0	0	31	0	5	16	9	0	0	0	1	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Telangana—*Contd.* Bhadrachalam	0830	111	1016·4	1003·5	−0·8	19·4	17·1	15·5	17·6	77	−2	2·8	−0·1	2·4	0	0	24	4	11	3	0	3	1	1	1	7	0
	1730	,,	1011·7	999·1	...	25·9	19·1	14·3	16·4	50	...	1·9	...	2·3	0	0	31	3	25	3	0	0	0	0	0	0	0
Hyderabad (Begampet)	0230	545	1014·0	951·0	...	15·7	14·1	12·9	14·8	84	...	1·4	...	4·1	0	0	19	1	2	7	9	0	0	0	0	12	0
	1530	,,	1014·3	951·8	...	14·8	13·7	12·8	14·8	88	...	2·2	...	4·0	0	1	15	1	0	7	8	0	0	0	0	15	0
	0830	,,	1016·0	954·0	−0·5	17·9	15·6	13·9	15·9	78	+12	4·3	+2·2	5·5	0	0	22	0	0	4	14	3	0	0	1	9	0
	1130	,,	1014·2	953·6	...	24·2	17·3	12·4	14·1	49	...	3·0	...	10·9	0	1	30	0	1	8	18	3	1	0	0	0	0
	1730	,,	1011·0	950·7	...	24·7	16·9	11·1	12·9	43	...	3·3	...	9·4	0	0	31	0	4	12	13	1	1	0	0	0	0
	2330	,,	1014·7	952·7	..	17·7	14·8	12·7	14·5	73	...	1·5	...	4·3	0	1	20	1	6	6	8	0	0	0	0	10	0
Khammam	0830	112	1015·9	1002·9	...	20·2	18·2	16·8	19·3	80	...	3·2	...	3·5	0	0	22	6	0	16	0	0	0	0	0	9	0
	1730	,,	1011·6	998·9	...	27·3	19·6	14·3	16·6	46	...	2·9	...	3·9	0	0	26	1	2	19	1	1	0	0	0	5	0
Mahabubnagar	0830	505	1015·1	957·9	...	20·4	16·6	13·9	15·9	67	...	4·1	...	11·5	0	1	30	3	7	21	2	0	1	0	0	0	0
	1730	,,	1010·2	954·3	...	25·6	16·7	9·9	12·2	38	...	3·7	...	6·3	0	0	31	0	4	23	1	1	2	0	0	0	0
Rayalaseema Kurnool	0830	281	1015·9	983·5	−0·1	20·5	17·2	14·7	16·9	70	−1	3·3	+1·5	4·0	0	0	27	1	3	15	8	0	0	0	0	4	0
	1730	,,	1010·5	979·2	...	28·2	18·2	10·0	12·8	33	...	3·3	...	4·7	0	0	26	0	3	17	6	0	0	0	0	5	0
Anantapur	0530	350	1012·7	972·5	...	18·2	16·2	14·7	16·7	80	...	1·2	...	4·7	0	0	21	0	0	18	3	0	0	0	0	10	0
	0830	,,	1014·7	974·8	−0·5	21·2	17·8	15·5	17·6	70	−2	2·7	+0·3	4·3	0	0	21	0	3	15	3	0	0	0	0	10	0
	1130	,,	1013·5	974·3	...	25·7	18·6	13·5	15·5	48	...	3·3	...	12·6	0	5	26	0	10	14	6	0	1	0	0	0	0
	1370	,,	1009·5	970·6	...	27·4	18·8	12·4	14·4	40	...	3·5	...	12·6	0	8	22	0	7	20	3	0	0	0	0	1	0
	2330	,,	1012·9	973·2	...	21·9	17·7	14·6	16·6	64	...	0·7	...	15·0	0	13	17	0	1	26	3	0	0	0	0	1	0
Cuddapah	0830	130	1015·4	1000·4	−0·3	22·7	20·0	18·4	21·3	77	+1	2·7	−0·2	1·3	0	0	8	0	0	8	0	0	0	0	0	23	0
	1730	,,	1011·1	996·3	...	27·0	21·1	17·5	20·2	57	...	2·4	...	5·7	0	0	30	0	0	30	0	0	0	0	0	1	0
Arogyavaram	0830	701	1014·9	936·3	...	18·6	16·7	15·5	17·6	83	...	4·3	...	3·2	0	0	21	4	2	7	3	5	0	0	0	10	0
	1730	,,	1010·2	933·1	...	23·7	17·5	13·6	15·6	54	...	4·4	...	8·5	0	0	31	3	11	14	3	0	0	0	0	0	0
Madras State Madras	0830	6	1014·5	1013·8	...	24·3	21·7	20·4	23·8	79	...	3·1	..	9·2	0	0	30	9	21	0	0	0	0	0	0	1	0
	2330	16	1012·2	1010·4	...	21·5	20·3	19·6	22·8	89	...	2·3	...	4·7	0	0	23	9	3	1	0	0	0	3	7	8	0
Madras (Minambakkam	0530	,,	1012·3	1010·5	...	20·7	19·8	19·3	22·4	92	...	2·7	...	5·5	0	0	26	11	2	0	0	0	0	4	9	5	0
	0830	,,	1014·6	1012·8	−0·3	23·6	21·2	19·9	23·2	80	−4	3·9	−0·1	9·0	0	1	29	18	3	1	0	0	0	0	8	1	0
	1130	,,	1014·1	1012·3	...	27·0	21·7	18·7	21·6	61	...	5·0	...	20·8	0	19	12	12	15	4	0	0	0	0	0	0	0
	1730	,,	1011·6	1009·8	...	25·3	21·1	18·7	21·6	67	...	4·2	...	15·6	0	7	24	14	14	3	0	0	0	0	0	0	0
	2330	,,	1013·7	1010·9	...	22·3	20·5	19·4	22·7	84	...	2·6	...	7·4	0	0	30	18	4	1	0	0	0	0	7	1	0
Vellore	0530	214	1012·9	988·0	...	18·9	18·5	18·2	21·0	96	...	4·8	...	0·6	0	0	5	0	5	0	0	0	0	0	0	26	0
	0830	,,	1014·9	990·2	−0·2	21·4	19·7	18·7	21·6	85	0	4·6	+1·3	0·1	0	0	2	0	2	0	0	0	0	0	0	29	0
	1130	,,	1014·0	989·7	...	25·9	21·1	18·2	21·0	63	...	5·4	..	7·1	0	0	31	3	23	4	0	1	0	0	0	0	0
	1730	,,	1010·2	986·1	...	26·0	20·7	17·5	20·1	61	...	4·8	...	6·4	0	0	31	0	30	1	0	0	0	0	0	0	0
	2330	,,	1013·9	989·4	...	21·8	20·1	19·1	22·1	85	...	4·6	...	5·4	0	0	22	0	20	0	2	0	0	0	0	9	0
Tambaram (Aerodrome)	0830	29	1014·2	1010·9	...	24·1	22·1	21·0	25·0	84	...	3·7	...	9·9	0	0	31	20	7	2	0	0	0	0	2	0	0
	1730	,,	1011·2	1007·9	...	25·6	22·6	21·0	25·0	76	...	4·0	...	17·7	0	9	22	1	18	11	1	0	0	0	0	0	0
Tiruppattur	0830	390	1014·8	970·3	...	19·5	18·5	17·8	20·5	90	...	4·9	...	3·3	0	0	29	20	7	1	0	0	0	0	1	2	0
	1730	,,	1009·8	966·3	...	25·2	19·7	16·1	18·5	58	...	5·1	...	7·5	0	0	31	15	14	2	0	0	0	0	0	0	0
Cuddalore	0530	12	1011·3	1009·9	..	21·4	20·6	20·1	23·7	93	...	5·3	...	4·5	0	0	24	9	7	0	0	0	0	0	8	7	0
	0830	,,	1013·9	1012·5	−0·6	23·1	21·4	20·3	24·1	85	+2	5·9	+1·7	6·7	0	0	28	8	15	0	0	0	9	1	4	3	0
	1130	,,	1013·5	1012·1	...	26·3	22·6	20·5	24·4	71	...	6·2	...	15·3	0	12	17	9	20	0	0	0	0	0	0	2	0
	1730	,,	1010·8	1009·5	...	25·3	22·1	20·4	24·0	75	...	5·0	...	13·2	0	6	25	9	20	2	0	0	0	0	0	0	0
	2330	,,	1012·8	1011·4	...	23·3	21·5	20·5	24·3	85	...	4·9	...	6·5	0	0	30	9	19	1	0	0	0	0	1	1	0
Kallakkurichchi	0830	127	1014·2	999·6	...	23·1	20·8	19·4	22·7	80	...	4·0	...	9·1	0	1	28	25	1	0	0	0	0	0	3	2	0
	1730	,,	1010·3	996·0	...	26·2	21·4	18·5	21·6	64	...	4·0	...	8·1	0	0	27	5	15	6	0	0	0	0	1	4	0
Salem	0530	278	1012·1	980·2	...	20·5	18·1	16·8	18·8	82	...	4·4	...	1·5	0	0	19	0	12	7	0	0	0	0	0	12	0
	0830	,,	1014·0	982·3	−0·6	22·5	19·1	16·9	19·4	71	−4	4·9	+1·8	3·3	0	0	23	3	16	4	0	0	0	0	0	8	0
	1130	,,	1012·8	981·7	...	27·5	20·5	16·1	18·4	50	...	5·5	...	5·6	0	0	27	0	10	17	0	0	0	0	0	4	0
	1730	,,	1009·3	978·2	...	27·3	20·3	15·9	18·1	51	...	5·3	...	7·6	0	0	30	0	3	27	0	0	0	0	0	1	0
	2330	,,	1012·7	981·1	...	22·8	19·3	17·1	19·5	71	...	3·9	...	11·7	0	5	20	0	1	24	0	0	0	0	0	6	0
Coimbatore (Pilamedu)	0530	399	1012·0	966·6	...	19·5	18·3	17·6	20·0	89	...	4·7	...	4·8	0	0	20	6	11	3	0	0	0	0	0	11	0
	0830	,,	1014·0	968·9	...	22·0	19·2	17·4	20·0	75	...	4·8	...	10·9	0	0	30	1	23	6	0	0	0	0	0	1	0
	1130	,,	1012·8	968·2	...	25·6	19·9	16·2	18·6	57	...	4·7	...	16·9	0	8	23	0	20	11	0	0	0	0	0	0	0
	1730	,,	1009·2	964·9	...	26·5	19·8	15·3	17·6	52	...	4·8	...	14·3	0	4	27	0	16	15	0	0	0	0	0	0	
	2330	,,	1012·8	967·7	...	21·5	18·8	17·1	19·5	76	...	3·8	...	9·9	0	5	26	2	8	18	1	0	0	0	2	0	0
Coimbatore	0808	409	1014·0	967·8	−0·4	22·0	19·1	17·3	19·7	74	−5	6·1	+2·3	23·5	0	26	5	0	13	16	2	0	0	0	0	0	0
	1730	,,	1009·1	963·9	...	26·6	20·0	15·6	18·1	52	...	5·5	...	14·8	0	5	26	0	12	14	4	1	0	0	0	0	0

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Madras State—*Contd.*																										
Nagapattinam	0830	9	1013·6	1012·5	−0·2	24·4	22·3	21·2	25·3	83	+2	5·3	+0·3	10·3	0	4	27	10	7	2	0	0	0	0	12	0
	1730	,,	1010·4	1009·3	..	26·2	22·9	21·3	25·3	75	..	5·5	..	23·0	0	23	8	10	17	3	0	0	0	0	1	0
Tiruchirappalli	0830	88	1011·7	1001·6	..	21·8	20·5	19·7	22·9	88	..	2·5	..	12·5	0	5	24	5	23	1	0	0	0	0	0	2
	0530	,,	1011·8	1001·7	..	21·4	20·0	19·2	22·2	87	..	3·4	..	10·2	0	3	26	8	19	1	0	0	0	0	1	2
	0830	,,	1014·1	1004·1	−0·4	23·5	20·9	19·5	22·5	79	−1	4·3	+0·5	13·6	0	5	25	11	19	0	0	0	0	0	0	1
	1130	,,	1013·4	1003·4	..	26·6	21·8	19·0	22·2	63	..	4·6	..	16·7	0	9	22	8	22	1	0	0	0	0	0	0
	1730	,,	1010·4	1000·4	..	26·1	22·2	20·0	23·5	70	..	4·8	..	14·3	0	4	27	1	18	12	0	0	0	0	0	0
	2330	,,	1013·2	1003·1	..	22·5	21·0	20·3	23·5	87	..	2·5	..	11·9	0	1	30	3	25	3	0	0	0	0	0	0
Vedaranniyam	0830	4	1013·3	1012·8	..	25·1	22·7	21·5	25·6	81	..	5·0	..	9·8	0	1	30	16	8	1	0	0	0	0	0	6
	1730	,,	1009·9	1009·4	..	26·0	22·7	21·0	24·9	75	..	4·7	..	14·1	0	6	25	11	17	3	0	0	0	0	1	1
Atirampattinam	0830	6	1013·1	1012·4	..	24·0	22·1	21·1	25·0	84	..	5·1	..	14·5	0	6	25	23	7	0	0	0	0	0	1	0
	1730	,,	1010·1	1009·4	..	26·2	22·9	21·2	25·3	74	..	5·0	..	13·8	0	3	28	3	28	0	0	0	0	0	0	0
Madurai	0830	133	1013·1	997·9	−1·0	24·5	21·1	19·2	22·1	72	−5	5·9	+1·7	7·2	0	0	31	9	19	0	0	0	0	0	3	0
	1730	,,	1009·1	994·1	..	27·3	21·9	19·0	21·8	61	..	5·1	..	5·3	0	0	31	3	24	3	1	0	0	0	0	0
Madurai Aerodrome	0530	131	1011·2	996.1	..	21·5	20.2	19·4	22·7	88	..	4·3	..	7·2	0	0	30	4	26	0	0	0	0	0	0	0
	0830	,,	1013·2	998·2	..	24·1	21·1	19·4	22·5	75	..	4·7	..	13.2	0	4	27	5	26	0	0	0	0	0	0	0
	1130	,,	1012·7	997·8	..	27·2	21·9	19·0	22·0	62	..	5·4	..	26·6	0	22	9	4	27	0	0	0	0	0	0	0
	1730	,,	1009 4	994·5	..	27·1	21·9	19·0	22·0	62	..	5·5	..	20·3	0	14	17	1	28	2	0	0	0	0	0	0
Tondi	0830	5	1013·0	1012·4	..	23·8	21·7	20·5	24·1	82	..	5·5	..	9·2	0	0	27	5	0	0	0	0	0	0	22	4
	1730	,,	1009·9	1009·3	..	26·9	20·3	21·4	25·6	72	..	5·4	..	18·2	0	11	20	2	19	9	0	0	0	0	1	0
Pamban	0830	11	1012·8	1011·5	−0·5	25·1	23·4	22·6	27·3	86	+1	4·0	+0·2	9·2	0	0	31	15	5	3	1	0	0	0	7	0
	1730	,,	1009·7	1008·3	..	25·7	23·7	22·8	27·6	84	..	4·1	..	8·6	0	0	31	11	20	0	0	0	0	0	0	0
Tuticorin	0830	4	1013·3	1012·9	−0·9	24·6	22·1	20·7	24·6	79	+1	4·2	+0·3	4·2	0	11	20	19	11	0	0	0	0	0	1	0
	1730	,,	1009·5	1009·1	..	27·0	24·2	22·9	22·9	78	..	4·5	..	26·7	0	26	5	2	24	5	0	0	0	0	0	0
Palayankottai	0830	51	1013·3	1007·5	−0·8	24·5	21·7	20·1	23·7	77	+1	6·4	+2·0	5·4	0	0	29	27	1	0	0	0	0	0	1	2
	1730	,,	1009·4	1003·7	..	27·1	22·6	20·2	23·8	67	..	6·4	..	3·4	0	0	27	17	2	6	0	0	0	1	1	4
Kannyakumari	0830	37	1011·6	1007·5	..	25·5	21·7	19·5	22·8	70	..	4·9	..	29·5	0	30	1	15	16	0	0	0	0	0	0	0
	1730	,,	1008·6	1004·5	..	27·7	22·8	20·3	23·8	64	..	5·0	..	23·1	0	22	9	11	16	4	0	0	0	0	0	0
Coastal Mysore																										
Karwar	0830	4	1012·8	1012·3	−1·1	22·3	19·3	17·5	20·0	75	+5	3·0	+1·0	5·0	0	0	19	0	5	13	1	0	0	0	0	12
	1730	,,	1008·9	1008·4	..	29·5	23·7	20 8	24·6	60	..	2·8	..	7·9	0	1	25	0	0	0	2	1	0	3	20	5
Honavar	0830	26	1012·7	1009·7	−0·7	24·0	19·1	15·6	17·4	61	−1	4·6	+1·6	5·5	0	0	30	2	13	14	0	2	1	0	0	1
	1730	,,	1008 7	1005·7	..	29·9	23·0	19·1	22·4	54	..	4·1	..	6·8	0	0	31	3	3	0	0	0	7	9	9	0
Mangalore (Bajpe)	0230	102	1010·0	998·3	..	23·0	21·2	20·3	23·7	85	..	2·6	..	5·8	0	0	26	0	5	12	9	0	0		0	5
	0530	,,	1009·9	998·2	..	22 0	19 9	18·7	21·6	82	..	2·5	..	7·8	0	0	29	0	4	20	5	0	0	0	0	2
	0830	,,	1012·1	1000·5	..	24·6	20·3	17·7	20 2	66	..	3·6	..	10.4	0	0	31	0	1	22	8	0	0	0	0	0
	1130	,,	1011·5	1000·1	..	30·0	21·6	16·5	18·9	45	..	3·9	..	4·7	0	1	30	0	4	15	10	1	1	0	0	0
	1730	,,	1008 2	996·8	..	28·6	22·8	19·6	22·9	59	..	4·3	..	11·5	0	0	31	1	0	0	0	0	1	18	11	0
	2330	,,	1011·0	999·4	..	24·4	21·9	20·5	24·1	29	..	2·4	..	5·0	0	0	24	3	5	9	3	1	0	2	1	7
Mangalore	0830	22	1012·1	1009·6	−1·2	25 9	21·0	18·1	20·8	63	−4	3·4	+1·0	3·9	0	0	31	1	3	27	0	0	0	0	0	0
	1730	,,	1008·3	1005·8	..	29·4	23·6	20·6	24·4	60	..	3·9	..	4·4	0	0	31	2	0	0	0	0	1	15	13	0
Interior Mysore (North)																										
Bidar	0830	664	1015·2	940·5	..	18·8	15·0	12·2	14·3	65	+3	1·1	+0·9	14·4	0	6	25	0	8	8	7	6	2	0	0	0
	1730	,,	1010·4	937·3	..	24·3	16·1	10·0	12·3	42	..	1·3	..	11·5	0	1	30	3	20	5	1	1	1	0	0	0
Gulbarga	0830	458	1015·4	963·4	−0·8	20·7	15·9	12·4	14 6	60	+1	3 0	+1·6	6·1	0	0	30	1	3	15	9	2	0	0	0	1
	1730	,,	1010·0	959·3	..	27 0	17·1	9 5	12·3	34	..	4·3	..	6·4	0	0	27	1	5	15	3	2	0	1	0	4
Bijapur	0830	594	1015·0	947·8	−0·9	19·0	15·2	12·4	14·5	67	+6	3·1	+1·3	5·0	0	0	28	0	1	9	12	4	0	2	0	3
	1730	,,	1008·7	944·0	..	27·1	17·3	10·3	12·6	35	..	4·3	..	2·1	0	0	26	1	4	19	2	0	0	0	0	5
Raichur	0830	400	1014·9	969·6	−0 8	20·9	17·1	14·2	16·4	67	+2	3·3	+1·6	4·9	0	0	30	2	6	0	18	1	1	0	2	1
	1730	,,	1010·2	965·7	..	27·4	17·1	10·3	11·2	35	..	3·5	..	4·9	0	0	31	0	20	0	11	0	0	0	0	0
Belgaum	0830	753	1014·3	930·1	−0 9	18·1	14·9	12·6	14·6	71	+7	2·1	+0·3	3·9	0	0	24	2	0	19	2	1	0	0	0	7
	1730	,,	1007·9	926·4	..	26 8	18·1	12·2	14·4	41	..	2·8	..	7 2	0	0	31	0	5	22	1	0	0	2	0	0
Belgaum (Samra)	0530	747	1012·6	928·7	..	16·9	13·5	10·6	13·0	67	..	1·7	..	3·5	0	0	17	1	2	10	4	0	0	0	0	14
	0830	,,	1014·1	930·9	..	19.7	15·2	11 7	14·0	61	..	2·8	..	9·3	0	4	24	0	3	13	11	1	0	0	0	3
	1130	,,	1012·5	930·7	..	24·7	16·9	11·2	13·6	44	..	3·2	..	11·8	0	8	23	0	2	13	14	1	1	0	0	0
	1730	,,	1008·3	927·3	..	26·7	16·5	8·6	11·4	33	..	3·1	..	6·9	0	1	26	1	3	13	5	2	1	2	0	4
Gadag	0530	650	1012·8	939·5	..	17·3	16·3	15·7	17·8	90	..	2·1	..	4·8	0	0	20	0	1	16	3	0	0	0	0	11
	0830	,,	1014·3	941·4	−0·9	20·1	18·5	17·5	20·1	85	+23	2·6	+0·8	7·7	0	0	29	0	2	15	12	0	0	0	0	2
	1130	,,	1012·6	941·4	..	26·4	22·2	20·1	23·7	69	..	2·8	..	8·3	0	1	29	0	5	18	7	0	0	0	0	1
	1730	,,	1008·6	937·8	..	27·1	21·9	19·4	22·4	63	..	4·2	..	4·5	..	0	30	2	7	17	4	0	0	0	0	1

Division and station	Hour of observation I.S.T.	Station elevation in metre	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Interior Mysore (South)—Contd.																											
Gadag	2330	650	1013·0	940·3	..	20·2	17·7	16·2	18·4	79	..	1·6	..	7·5	0	0	29	0	0	23	5	0	0	1	0	2	0
Bellary	0830	449	1015·0	963·9	−0·7	20·2	17·5	15·7	17·8	76	+9	2·1	−0·5	8·7	0	0	24	0	0	0	24	0	0	0	0	7	0
	1730	,,	1009·1	959·6	..	28·0	20·2	15·1	17·4	46	..	3·2	..	8·0	0	0	30	0	0	0	30	0	0	0	0	1	0
Chitradurga	0830	733	1013·9	932·6	−0·9	19·3	16·4	14·5	16·5	74	+6	3·0	+0·3	6·6	0	0	29	0	0	23	6	0	0	0	0	2	0
	1730	,,	1008·3	928·6	..	25·7	17·0	10·6	13·0	40	..	3·5	..	4·7	0	0	28	0	3	23	2	0	0	0	0	3	0
Shimoga	0830	571	1013·2	949·1	−1·4	20·5	17·0	14·7	16·8	69	−7	..	..	4·3	0	0	16	0	3	10	2	0	1	0	0	15	0
	1730	,,	1007·1	944·8	..	27·7	18·5	12·3	14·6	39	..	..	..	4·5	0	0	21	0	12	4	3	0	1	1	0	10	0
Agumbe	0830	,,																									
Balehonnur	0830	890	..	..	..	17.0	15·5	14·0	16·5	83	+7	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..
Hassan	0830	960	1523·8	908·0	..	19·0	16·2	14·4	16·4	75	0	4·0	+0·8	2.8	0	0	30	2	2	16	10	0	0	0	0	1	0
	1730	,,	1505·2	904·7	..	24·9	17·4	12·5	14·3	46	..	4·7	..	1·7	0	0	20	1	0	9	10	0	0	0	0	11	0
Bangalore	0230	921	1500·9	910·2	..	16·6	15·7	15·2	17·1	91	..	5·0	..	10·5	0	0	30	0	5	19	6	0	0	0	0	1	0
	0830	,,	1523·2	912.3	−0·5	18·0	15·8	14·4	16·3	80	+2	4·6	+1·1	9·6	0	1	30	0	6	21	4	0	0	0	0	0	0
	1130	,,	1529·3	911·9	..	23·1	17·1	13·0	15·1	52	..	4·3	..	10·8	0	0	31	0	8	16	6	1	0	0	0	0	0
	1730	,,	1504·2	909·2	..	23·3	17·0	12·6	14·8	52	..	5·5	..	8·3	0	0	30	1	7	14	7	0	1	0	0	1	0
Bangalore (Aerodrome)	0530	897	1499·5	912·8	..	16·2	15·4	14·8	16·9	92	..	3·6	..	7·2	0	0	26	0	4	20	2	0	0	0	0	5	0
	0830	,,	1523·6	914·9	..	18·5	16·3	14·9	17·4	80	..	4·9	..	9·0	0	0	27	0	3	22	2	0	0	0	0	4	0
	1130	,,	1531·6	914·5	..	24·1	17·8	13·6	15·8	53	..	4·1	..	11·7	0	0	28	0	1	25	2	0	0	0	0	3	0
	1730	,,	1504·7	911·7	..	24·1	17·7	13·4	15·6	52	..	4·6	..	9·8	0	1	27	1	0	25	2	0	0	0	0	3	0
	2330	,,	1515·0	914·1	..	18·1	16·3	15·1	17·3	83	..	2·4	..	9·1	0	0	29	0	1	25	3	0	0	0	0	2	0
Mysore	0830	767	1013·6	928·5	−0·7	21·2	19·3	18·3	21·0	83	+9	4·6	+1·2	7·3	0	0	31	0	0	20	0	1	3	6	1	0	0
	1730	,,	1008·7	925·8	..	27·4	20·0	15·7	17·9	49	..	5·2	..	7·1	0	0	31	0	1	15	2	4	4	5	0	0	0
Kerala																											
Calicut	0530	5	1010·1	1009·5	..	23·0	21·4	20·5	24·1	86	..	2·7	..	10·7	0	3	26	0	6	22	0	1	0	0	0	2	0
	0830	,,	1012·1	1011·5	−0·9	25·3	21·7	19·7	22·9	71	−6	2·9	+0·2	7·1	0	0	30	0	9	21	0	0	0	0	0	1	0
	1130	,,	1011·8	1011·2	..	29·8	23·4	20·1	23·5	56	..	3·5	..	8·1	0	0	29	1	3	2	2	3	12	6	0	2	0
	1730	,,	1008.5	1007·9	..	29·7	24·3	21·7	25·9	62	..	3·0	..	11·8	0	0	30	0	0	0	0	0	1	10	19	1	0
	2330	,,	1011·2	1010·6	..	25·4	23·0	21·7	26·1	80	..	1·5	..	5·4	0	0	28	5	16	7	1	0	0	0	0	3	0
Palghat	0830	97	1012·7	1001·6	..	25·2	21·1	18·8	21·7	68	..	3·7	..	12·7	0	0	31	0	0	29	2	0	0	0	0	0	0
	1730	,,	1008·2	997·3	..	29·3	22·1	18·1	20·8	51	..	4·2	..	9·9	0	0	31	0	2	28	1	0	0	0	0	0	0
Fort Cochin	0830	3	1011·7	1011·4	−1·2	27·0	22·4	20·0	23·4	66	−7	5·5	+2·9	6·2	0	0	30	1	15	13	0	0	0	0	0	1	0
	1730	,,	1007·8	1007·5	..	28·6	24·0	21·5	26·1	66	..	6·0	..	7·3	0	0	31	1	1	0	0	0	2	22	5	0	0
Cochin (Naval Air Station)	0230	3	1010·1	1009·8	..	24·6	22·7	21·8	25.9	85	..	4·4	..	2·3	0	0	13	0	5	7	1	0	0	0	0	18	0
	0530	,,	1010·0	1009·7	..	23·3	21·5	20·4	24·1	84	..	4·9	..	2·5	0	0	17	2	11	3	1	0	0	0	0	14	0
	0830	,,	1011·8	1011·5	..	25·7	21·8	19·7	22·9	70	..	5·1	..	7·2	0	0	29	1	19	9	0	0	0	0	0	2	0
	1130	,,	1011·6	1011·3	..	29·8	22·9	19·2	22·2	53	..	5·2	..	7·9	0	0	30	1	8	13	2	2	0	1	3	1	0
	1730	,,	1008·5	1008·2	..	29·5	23·8	20·9	24·9	60	..	5·5	..	11·2	0	0	31	1	0	1	0	0	3	23	3	0	0
	2330	,,	1011·2	1010·9	..	25·7	23·3	22·1	26·6	81	..	4·7	..	2·5	0	0	13	1	4	5	1	1	0	1	0	18	0
Alleppey	0830	4	1011·5	1011·1	−0·8	26·3	23·3	21·8	26·1	77	+1	4·3	+0·3	6·2	0	0	30	0	5	3	22	0	0	0	0	1	0
	1730	,,	1007·8	1007·4	..	29·6	25·0	22·9	27·9	68	..	4·0	..	15·7	0	3	28	1	0	0	0	0	0	7	23	0	0
Punalur	0830	34	1011·4	1007·6	..	24·2	21·5	20·0	23·5	78	..	5·1	..	1·1	0	0	8	1	2	3	2	0	0	0	0	23	0
	1730	,,	1007·8	1004·0	..	29·7	23·1	19·5	22·9	55	..	5·4	..	4·4	0	0	31	0	2	11	14	4	0	0	0	0	0
Trivandrum	0230	64	1009·3	1002·0	..	24.2	22·6	21·8	26·1	87	..	3·1	..	3·5	0	1	19	4	11	2	0	0	0	0	3	11	0
	0530	,,	1009·3	1001·9	..	23·5	21·8	20·8	24·6	86	..	2·9	..	4·5	0	1	21	5	10	3	1	1	0	1	1	9	0
	0830	,,	1011·3	1004·0	−1·2	25·6	22·5	20·8	24·7	76	−4	4·3	+0·7	3·7	0	0	26	5	14	5	2	0	0	0	0	5	0
	1130	,,	1010·8	1003·6	..	29·8	23·4	19·9	23·5	57	..	4·7	..	4·3	0	0	25	1	6	2	0	2	6	5	4	6	0
	1730	,,	1008·2	1000·9	..	28·3	23·8	21·5	25·9	67	..	4·1	..	5·7	0	0	31	3	1	1	2	1	21	0	2	0	0
	2330	,,	1010·8	1003·5	.	25·2	28·3	22·3	26·9	84	..	3·1	..	3·1	0	0	21	3	6	3	0	0	0	6	3	10	0
Trivandrum (Aerodrome)	0830	8	1011·2	1010·3	..	26·0	22·7	20·9	24·6	74	..	5·2	..	4·4	0	0	29	1	26	1	0	1	0	0	0	2	0
Arabian Islands																											
Amini*	0830																										
	1730																										
Minicoy*	0530																										
	0830																										
	1130																										
	1730																										
	2330																										
Hill Stations excluding Kashmir																											
Dalhousie	0830	1959	1458·2	800·4	0·8	6·8	1·9	−5·3	3·9	50	−5	3·4	+1·6	3·1	0	0	29	0	10	0	13	0	5	1	0	2	0
	1730	,,	1443.3	798·0	..	5·5	3·0	−0·4	5·9	70	..	4·0	..	3·4	0	0	31	0	1	0	19	0	9	0	1	0	0
Dharmsala	0830	1211	..	..	..	7·4	4·2	−0·4	6·0	59	+9	3·1	+0·5	3·2	0	0	15	4	10	1	0	0	0	0	0	16	0

*Data given as addenda in December 1961 issue.

(R) Register not received

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in feet of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mm	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hill Stations excluding Kashmir—*Contd.*																											
Dharmsala—*Contd.*	1730	1211	..	..	..	12·3	8·0	2·8	7·6	55	..	3·9	..	1·9	0	0	30	0	0	1	0	0	28	1	0	1	0
Simla	0330	2202	1500·2	780·9	−2·2	5·2	1·9	−4·8	4·6	57	22	2·2	−0·6	2·8	0	0	30	5	4	0	12	5	2	1	1	1	0
	1730	„	1500·1	780·7	..	4·1	2·2	−0·4	5·8	74	..	2·3	..	2·7	0	0	30	3	8	0	9	2	6	0	2	1	0
Lokpal	0830	..	..	..	..	−10·0	−11·7	−16·8	1·4	53	..	..	..	..	..	0	..	..	..	..	..	..	..	..	..	..	..
Badrinath	0830	..	..	..	..	closed	during	winter	months																		
Joshimath	0830	..	..	..	..	3·2	−0·1	−6·3	3·3	55	..	2·5	..	4·3	0	1	17	0	0	8	8	1	0	0	0	13	1
	1730	..	..	..	..	5·3	1·4	−5·2	4·1	50	..	2·9	..	1·4	0	0	9	0	0	0	1	5	2	0	0	22	1
Mussoorie	†0830	2042	1500·3	796·4	−2·6	6·3	1·7	6·2	3·7	43	−2	1·9	−0·7	1·6	0	0	15	3	1	1	2	4	1	0	3	13	0
	‡1730	„	1490·7	795·3	..	5·5	3·6	1·7	6·6	78	..	2·5	..	2·6	0	0	23	2	1	0	7	10	3	0	0	7	0
Mukteswar	0830	2311	3106·6	772·2	−1·8	4·5	0·5	−7·1	3·7	49	+10	1·9	−0·4	6·5	0	0	23	0	6	8	0	2	1	3	3	8	0
	1730	„	3091·0	771·0	..	4·6	1·6	−3·0	4·8	62	..	1·8	..	5·7	0	1	21	3	0	1	1	1	2	9	5	9	0
Nainital	0830	1953	1506·6	804·9	−1·7	3·1	0·5	−3·6	4·4	65	+6	1·8	−0·5	1·0	0	0	6	0	0	1	1	0	0	4	0	25	0
	1730	„	1488·3	803·4	..	4·5	1·9	−1·6	5·3	67	..	2·2	..	4·2	0	0	20	1	0	2	2	0	1	14	0	11	0
Kalimpong	0830	1209	1448·1	874·4	−9·3	15·4	13·5	12·3	14·3	82	+9	1·5	−0·7	3·0	0	0	31	1	1	0	1	0	0	0	28	0	0
	1730	„	1449·0	874·6	..	14·7	12·9	11·6	13·7	82	..	2·0	..	3.0	0	0	31	0	0	0	30	0	0	0	1	0	0
Darjeeling	0830	2128	1493·9	787·6	−2.9	5·5	3·1	−0·1	5·7	69	+3	3·1	+0·5	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	„	1465·0	785·0	..	5·9	3·9	1·4	6·7	73	..	3·8	..	0·4	0	0	3	0	0	0	0	0	2	0	0	28	1
Kohima (R)	0830	1466																									
(R)	1730	„																									
Shillong	0830	1500	1521·4	852·4	−0·5	12·0	7·9	3·5	7·8	56	−13	2·3	+0·9	1·3	0	0	13	1	1	2	5	0	4	0	0	18	0
	1730	„	1498·0	850·0	..	10·9	9·1	7·1	10·2	79	..	6·0	..	0·2	0	0	1	0	0	0	0	0	1	0	0	30	0
Cherrapunji	0830	1313	1492·9	868·6	−3·3	11·4	9·4	7·3	10·4	76	+16	2.7	+0·9	2·3	0	0	22	0	1	20	0	0	1	0	0	9	0
	1730	„	1490·0	868·3	..	10·7	8·8	6·8	9·9	76	..	3·5	..	0·9	0	0	9	0	1	5	0	0	2	1	0	22	0
Abu	0830	1195	1494·3	881·4	−3·4	10·2	8·3	6·2	9·4	77	+36	0·6	−0·8	0·5	0	0	3	1	1	0	0	0	1	0	0	28	0
	1730	„	1509·2	882·2	..	16·1	9·0	0·8	5·8	36	..	0·3	..	1·0	0	0	8	5	0	0	0	0	1	0	2	23	0
Aijal	0830	..	..	..	..	16·0	12·5	9·5	11·9	67	..	1·9	..	3·0	0	0	30	0	0	13	5	3	1	7	1	1	0
	1730	..	..	..	..	17·0	13·1	10·2	12·3	65	..	1·5	..	3·2	0	0	31	1	0	1	0	1	7	20	1	0	0
Pachmarhi	0830	1075	1531·9	897·9	−0·4	11·9	9·7	7·4	10·4	75	+13	1·9	+0·2	1·8	0	0	19	1	5	1	0	8	2	1	1	12	0
	1730	..	1516·0	895·2	..	18·4	13·3	8·3	11·5	53	..	2·8	..	3·3	0	0	28	4	12	1	0	0	2	3	6	3	0
Mahabaleswar	0830	1382	1523·5	864·5	−0·8	15·2	11·7	8·5	11·2	65	+10	0·6	−0·8	9·3	0	0	31	0	0	10	14	2	3	0	2	0	0
	1730	„	1510·8	863·1	..	19·7	14·1	9·6	12·0	53	..	0·8	..	9·2	0	0	31	8	1	7	1	2	1	6	5	0	0
Mercara	0830	1152	1515·4	887·3	−0·1	16·4	15·0	14·0	16·0	87	+4	2·8	−1·4	10·8	0	2	28	0	15	15	0	0	0	0	0	1	0
	1730	„	1494·9	884·6	..	22·0	17·5	14·5	16·7	63	..	3·5	..	7·2	0	0	24	1	10	11	0	0	0	1	1	7	0
Ootacamund	0830	2249	1519·2	780·1	−0·3	11·2	8·9	6·7	9·8	75	+11	2·2	−0·8	2·2	0	0	10	0	2	7	0	0	1	0	0	21	0
	1730	„	1493·3	778·4	..	14·0	11·1	8·9	11·4	72	..	5·3	..	2·2	0	0	16	1	7	6	0	1	0	0	1	15	0
Coonoor*	0830	1747																									
Kodaikanal	0830	2343	3148·1	771·6	−0·1	11·7	10·1	8·6	11·2	83	+19	4·8	+1·3	13·9	0	11	16	1	5	5	10	1	0	1	4	4	0
	1130	„	3155·1	771·6	..	14·2	11·8	9·9	12·1	77	..	5·6	..	13·0	0	8	22	2	3	1	12	1	0	0	5	1	0
	1730	„	3129·2	769·7	..	12·0	11·0	10·1	12·3	89	..	6·3	..	7·3	0	3	18	2	3	6	5	1	0	1	3	10	0
Nepal																											
Katmandu	0830	1324	1516·9	870·5	..	4·8	4·4	3·9	8·1	94	..	6·3	..	0·2	0	0	1	0	0		0	0	0	0	0	30	0
	1130	..	1513.3	869·4	..	13·8	9·3	4·6	8·5	54	..	1·7	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
	1730	..	1490·8	867·3	..	10·4	7·8	5·9	8·8	70	..	2·1	..	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Sikkim																											
Lachen	0830	..	..	..	..	2·5	0·1	−4·1	4·3	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hydrometeorological Observatories Damodar Catchment																											
Tilaiya	0830	..	..	..	..	13·6	10·4	7·2	10·3	68	..	0·9	..	8·3	0	2	22	1	1	1	1	1	3	11	5	7	0
	1730	..	..	..	..	16·2	11·1	5·3	9·2	50	..	1·2	..	2·5	0	0	12	0	0	2	0	0	0	5	5	19	0
Hazaribagh	0830	615	1017·4	946·0	..	12·9	9·4	5·7	9·0	62	..	0·9	..	6·1	0	0	26	4	0	1	4	1	0	2	14	5	0
	1730	..	1014·4	943.9	..	14·1	10·2	6·4	9·7	61	..	1·1	..	2·6	0	0	19	10	0	0	1	0	0	2	6	12	0
Konar	0830	.	..	..	..	..	..	..	..	..	..	1·7	..	13·6	0	5	25	0	0	3	0	0	0	27	0	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·8	..	13·0	0	6	25	0	0	3	0	0	0	22	6	0	0
Bokaro	0830	242	1017·4	988·9	..	13·3	11·0	8·7	11·2	73	..	0·2	..	3·3	0	0	25	1	0	1	0	1	6	2	14	5	1
	1730	..	1013·8	985·7	..	17·3	13·8	10·8	12·1	66	..	0·7	..	5·0	0	0	29	12	10	0	0	0	1	0	6	2	0

*Data not reliable. (R) Register not received. †Observations for 28 days. ‡Observations for 30 days.

Division and station	Hour of observation I. S. T.	Height of barometer cistern Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level.	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, in km. per hour	Wind speed (km.p.h.): 62 or more	Wind speed (km.p.h.): 20 to 61	Wind speed (km.p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Hydrometeorological Observatories—*contd.* Damodar Catchment—*contd.*																											
Maithon	0830	..	..	..	..	..	..	..	..	..	..	1·4	..	5·8	0	0	30	3	3	0	0	0	6	12	6	1	0
	1730	..	..	..	..	..	..	..	..	..	..	1·3	..	7·5	0	0	28	3	21	0	0	0	2	0	2	3	0
Ramgarh	0830	..	..	..	..	11.4	10·1	8·5	11·2	84	..	1·2	..	2·2	0	0	22	1	0	0	1	1	7	10	2	9	0
	1730	..	..	..	..	18·1	15·0	12·4	14·6	70	..	1·1	..	0·3	0	0	3	0	0	0	0	0	0	2	1	28	0
Panchet Hills	0830	,,	..	..	..	15·3	11·6	8·6	10·7	62	..	2·3	..	4·3	0	0	27	1	5	0	2	0	12	1	6	4	0
	1730	..	..	..	..	19·5	13·8	8·4	11·4	50	..	3·6	..	2·1	0	0	20	2	3	0	0	0	0	0	15	11	0
Durgapur	0830	..	..	..	..	16·6	13·2	10·2	12·6	67	..	0·5	..	5·6	0	0	31	16	4	0	0	0	0	0	11	0	0
	1730	..	..	..	..	20·2	15·1	10·4	12·8	56	..	0.9	..	5·7	0	0	31	15	4	1	0	0	0	2	9	0	0
Mahanadi Catchment																											
Ginabahar	0830	..	..	..	..	14·1	10·4	5·7	6·6	57	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Hirakud	0830	159	1019·7	999·0	..	17·3	14·0	11·1	11·2	67	..	0·8	..	2·4	0	0	25	7	5	2	7	0	1	0	3	6	0
	1130	,,	1016·5	998·3	..	21·7	15·1	10·9	13·0	49	..	1·1	..	2·8	0	0	29	6	4	1	4	3	0	0	11	2	0
	1730	,,	1013·6	995·3	..	21·3	15·7	9·9	9·6	49	..	1·7	..	1·3	0	0	13	1	0	1	1	0	0	0	10	18	0
Bhimkund	0830	..	..	..	..	13·8	11·6	9·6	9·5	76	..	0·5	..	2·7	0	0	19	6	0	0	0	0	0	0	13	12	0
	1730	..	..	..	..	20·4	14·5	9·3	9·5	48	..	0·9	..	0·5	0	0	4	2	1	0	0	0	1	0	0	27	0
Sonepur	0830	..	..	..	..	16·6	14·5	12·4	12·8	74	..	..	..	3·0	0	0	24	2	2	4	2	2	7	1	4	7	0
Khijrawan	0830	..	..	..	..	17·2	13·9	11·2	13·3	71	..	1·1	..	4·9	0	1	23	0	1	6	10	2	4	1	0	7	0
	1730	..	..	..	..	17·3	14·4	11·8	13·8	72	.	0·5	..	3·1	0	0	29	0	2	0	18	1	8	0	0	2	0
Narbada Catchment																											
Bagra Tawa	0830	..	..	..	..	13·4	10·7	7·0	9·9	65	..	1·3	..	8·1	0	0	22	2	15	2	3	0	0	0	0	9	0
	1730	..	..	..	..	21·1	15·1	9·9	12·3	50	..	1·2	..	1·3	0	0	8	0	4	2	1	0	1	0	0	23	0
Punasa	0830	..	..	..	..	16·3	12·1	7·8	10·6	56	..	..	..	7·7	0	0	28	1	19	7	0	0	0	0	1	3	0
	1730	..	..	..	..	24·1	17·0	11·5	13·7	46	..	..	..	2·0	0	0	12	0	7	3	1	0	0	1	0	19	0
Thikri	0830	..	..	..	..	17·2	13·8	10·2	12·4	63	..	3·1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sabarmati Catchment																											
Jharol (R)	0830																										
Dharoi	0830	..	..	..	..	16·2	10·7	4·7	8·4	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	23·6	14·3	4·8	8·8	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ganga Catchment																											
Mukhim	0830	..	..	..	..	6·4	2·2	−4·5	4·3	48	..	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	6·0	2·2	−3·4	4·6	53	..	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tori	0830	..	..	..	..	3·6	3.4	3·1	7.6	97	..	2·6	..	0.5	0	0	4	1	1	1	0	1	0	0	0	27	0
	1130	..	..	..	..	11·5	7·4	2·7	7·4	57	..	2·5	..	1·4	0	0	11	3	1	0	0	0	2	3	2	20	0
Gandak catchment	1730	..	..	..	..	13·2	8·6	3·6	7·9	55	..	2·5	..	3·5	0	0	22	1	0	0	10	6	1	1	2	9	1
Jomosom	†0830	..	..	..	..	−1·0	(f) −1·8	(f) −3·3	(f) 4·6	(f) 83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	3·4	1·2	−1·6	5·3	70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Khudi Bazar	0830	..	..	..	..	11·5	8·5	5·9	9·3	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·9	10·9	8·6	11·2	72	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Tumure	0830	..	..	..	..	3·7	0·4	−5·0	4·0	53	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·8	4.8	1·3	6.7	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pokhara	0830	..	..	..	..	11.2	8·8	6·4	9·6	73	..	2 7	..	2·9	0	0	19	6	0	0	1	0	4	2	6	12	0
	1130	..	..	..	..	15·9	11·3	7·0	10·1	56	..	2·6	..	5·6	0	0	29	0	0	1	16	10	0	1	1	2	0
	1730	..	..	..	..	13·3	10·6	8·1	10·8	71	..	3·2	..	0·8	0	0	8	1	4	2	1	0	0	0	0	23	0
Gorkha*	0830	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nuwakot	0830	..	..	..	..	12·5	10·2	8·1	10·8	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	13·8	10·2	6·8	9·9	62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ghaghara Catchment (Trans-Himalayan Region)																											
Dailekh (R)	0830																										
(R)	1730																										
Ghaghara Catchment																											
Mansiari	0830	..	..	..	..	4·9	1·3	−3·9	4·4	51	..	2·1	..	2·5	0	0	23	0	1	3	0	1	16	2	0	8	0
	1730	..	..	..	..	4·7	2·1	−1·6	5·6	65	..	2·8	..	2·4	0	0	25	2	1	1	0	3	14	3	1	6	0
Dadeldhura	0830	..	..	..	..	6·3	2·6	−2·9	4·9	55	..	2·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	.	..	..	..	6·3	3·3	−1·1	5·8	62	..	1·8	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
Sallayana	0830	..	..	..	..	8·2	5·7	2·6	7·4	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0

(R) Register not received. *Data not reliable. †Observations for 25 days. (f) Mean of 26 days.

Division and station	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed, km. per hour	Wind speed (km. p.h.): 62 or more	Wind speed (km. p.h.): 20 to 61	Wind speed (km. p.h.): 1 to 19	No. of observations, Wind direction: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Hydrometeorological Observatories—*Contd.*																										
Ghaghara catchment—*contd.*																										
Sallayana—*contd.*	†1730	..	..	..	..	9·3	7·5	5.3	8·9	76	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Butwal	0830	..	..	..	..	15·8	12·5	9·5	11·9	66	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	17·5	14·3	11·7	13·7	69	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Baghmati Catchment																										
Katmandu‡	0830	1324																								
	1130																									
	1730																									
Kosi Catchment																										
Chautara	0830	..	..	..	..	8·7	6·4	4·0	8·1	73	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	11·7	7·7	3·7	8·0	58	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chepua	0830	..	..	..	..	5·1	3 1	1·3	6·7	77	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	7·1	5·0	3·2	7·7	77	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wallungchung Gola	†0830	..	..	..	..	1·1	0·6	—0·3	6·0	89	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	*1730	..	..	..	..	—1·3	—1·6	—2·8	4·8	83	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplethok	0830	..	..	..	..	14.0	9·1	3·9	8·1	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	10·5	7·2	3·3	7·7	61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bhojpur	0830	..	..	..	..	10·4	7.1	3·7	8•0	63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	8·9	6·7	4·5	8·4	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Taplejung	0830	..	..	..	..	7·6	5·4	2·7	7·6	73	..	3·0	..	..	..	..	..	1	0	0	1	1	0	1	0	27
	1130	..	..	..	..	11·8	7·7	3·4	7·9	58	..	3·1	..	..	..	..	..	5	0	1	0	1	3	6	4	11
	1730	..	..	..	..	8.4	5·5	1·5	6•9	61	..	3·7	..	..	..	..	..	0	0	0	0	6	15	3	0	7
Okhaldunga	0830	..	..	..	..	8·8	6·0	2·8	7·6	67	..	2·1	..	1·7	0	0	11	0	0	1	2	4	2	2	0	20
	1130	..	..	..	..	12·4	7·8	3·1	7·6	55	..	3·5	..	2·5	0	0	19	1	2	0	3	5	3	5	0	12
	1730	..	..	..	..	7·7	5·8	3·8	8·0	77	..	4·9	..	6·0	0	0	22	0	0	0	0	0	6	13	3	9
Chainpur	0830	..	..	..	..	11·4	8·6	5·7	9·1	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	12·9	9·7	6·5	9·7	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Angbung	0830	..	..	..	..	12·1	9·0	5·9	9·3	65	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	14·0	9·1	3·9	8·1	50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barahakshetra	0830	146	1018.3	1001·0	..	13·4	11·1	8·7	11·4	75	..	1·2	..	3·9	0	0	31	1	6	4	8	1	10	1	0	0
	1130	,,	1016·4	999·4	..	19·3	14·4	10·1	12·4	57	..	2·0	..	3·9	0	0	31	0	0	0	1	1	27	1	1	0
	1730	,,	1014.5	997·3	..	15·6	13·7	12·1	14·1	79	..	2·0	..	3·4	0	0	31	0	3	6	15	1	6	0	0	0
Tista Catchment																										
Gangtok	0830	1812	1547·1	823·5	..	7·5	4·7	0·7	6·8	65	..	3·0	..	0·8	0	0	8	1	4	0	0	0	2	1	0	23
	1130	,,	1533·2	822·5	..	10·9	7·6	4·2	8·3	67	..	3·5	..	1·6	0	0	14	0	1	0	2	2	8	0	1	17
	1730	,,	1500·1	818·8	..	7·3	5·3	2·9	7·6	77	..	4·2	..	2·6	0	0	26	0	6	1	10	2	6	0	1	5
Gezing	0830	..	..	..	..	10·5	7·3	4·1	8·2	64	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	1730	..	..	..	..	9·5	6·7	3·9	8·1	68	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

†Observations for 30 days. ‡Data included under 'Nepal'. *Observations for 16 days. †Observations for 29 days.

Division and station.	Hour of observation I.S.T.	Station elevation in metres	Mean pressure in millibars: At mean sea level or height in g.p.m. of nearest standard isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations: Wind direction: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
January																											
Arabian Sea Islands																											
Amini	0830	4	1013·1	1012·6	..	27·0	23·9	22·4	27·1	76	+3	4·3	+1·4	4·9	0	0	24	5	12	3	1	0	0	0	3	7	0
	1730	,,	1010·3	1009·8	..	29·0	23·4	22·2	26·7	67	..	4·2	..	5·4	0	0	31	12	8	7	1	0	0	0	3	0	0
Minicoy	0530	2	1010·8	1010·6	..	24·6	23·0	22·1	26·7	86	..	3·2	..	5·9	0	0	25	5	12	6	0	1	0	0	1	6	0
	0830	,,	1012·8	1012·6	−0·1	26·2	24·0	22·8	27·7	82	+8	4·8	+1·9	6·1	0	0	29	4	9	10	3	0	0	0	3	2	0
	1130	,,	1012·8	1012·6	..	28·8	24·6	22·7	27·4	70	..	4·1	..	8·6	0	1	30	5	9	10	2	0	0	0	5	0	0
	1730	,,	1010·1	1009·9	..	27·9	24·3	22·6	27·4	73	..	4·8	..	7·3	0	0	31	8	13	4	1	1	0	0	4	0	0
	2330	4	1012·4	1012·2	..	25·1	23·1	22·1	26·7	84	..	3·6	..	7·3	0	2	26	4	14	8	1	0	0	0	1	3	0
February																											
Amini	0830	4	1012·2	1011·7	..	26·8	23·6	22·1	26·6	76	+3	4·9	+2·2	6·8	0	0	25	12	1	0	0	0	0	1	11	3	0
	1730	,,	1009·4	1008·9	..	29·3	25·1	22·0	26·4	65	..	3·8	..	9·9	0	2	26	11	2	0	0	0	0	3	12	0	0
Minicoy	0530	2	1009·8	1009·6	..	25·5	23·1	22·3	26·9	81	..	4·1	..	6·0	0	0	25	14	5	0	0	0	0	0	6	3	0
	0830	,,	1011·9	1011·7	−1·0	26·7	23·8	22·1	27·1	78	+4	4·5	+1·7	6·5	0	0	26	13	4	0	0	0	0	3	6	2	0
	1130	,,	1012·2	1012·0	..	28·6	24·5	22·6	27·4	70	..	4·9	..	8·4	0	0	28	18	5	0	0	1	0	0	4	0	0
	1730	,,	1009·1	1008·9	..	28·2	24·3	22·4	27·1	71	..	8·2	..	8·4	0	0	28	18	3	1	0	0	0	2	4	0	0
	2330	,,	1011·7	1011·5	..	25·9	23·4	22·2	26·7	80	..	4·0	..	7·8	0	0	24	11	6	1	0	0	0	0	6	4	0
March																											
Amini	0830	4	1012·9	1012·[illegible]	..	28·4	25·2	23·8	29·5	77	+4	2·6	+0·1	5·0	0	0	28	10	4	0	0	0	0	6	8	3	0
	1730	,,	1009·6	1009·1	..	30·1	26·0	24·2	30·2	71	..	2·3	..	9·7	0	0	31	3	1	0	0	0	1	7	19	0	0
Minicoy	0530	2	1010·4	1010·2	..	25·2	23·2	22·3	26·9	84	..	2·5	..	3·7	0	0	24	2	11	0	0	0	0	3	8	7	0
	0830	,,	1012·5	1012·3	+0·5	28·0	24·4	22·7	27·6	73	+1	3·0	+0·2	4·3	0	0	29	5	8	2	0	0	1	4	9	2	0
	1130	,,	1012·8	1012·6	..	29·8	25·1	23·0	28·1	66	..	3·0	..	7·7	0	0	31	9	6	1	0	0	0	2	13	0	0
	1730	,,	1009·3	1009·1	..	29·3	25·0	23·0	28·1	69	..	3·6	..	7·7	0	0	31	6	7	1	0	0	0	1	16	0	0
	2330	,,	1012·0	1011·8	..	26·1	23·7	22·6	27·4	82	..	2·6	..	5·9	0	0	26	3	6	3	0	0	1	0	13	5	0
April																											
Amini	0830	4	1010·6	1010·2	..	29·7	25·9	24·2	30·2	72	+1	4·3	+0·9	9·1	0	2	28	4	4	0	0	0	0	8	14	0	0
	1730	,,	1009·5	1007·0	..	30·8	26·2	24·3	30·2	68	..	3·9	..	12·7	0	4	26	4	0	0	0	0	0	6	20	0	0
Minicoy	0530	2	1008·4	1008·2	..	27·3	25·0	23·9	29·7	82	..	4·5	..	7·5	0	0	28	2	5	2	0	1	0	4	14	2	0
	0830	,,	1010·4	1010·2	−0·2	28·7	25·7	24·4	30·5	78	+6	5·2	+1·8	6·9	0	0	29	6	3	1	1	0	0	6	12	1	0
	1130	,,	1010·7	1010·5	..	30·5	26·4	24·6	30·9	71	..	5·0	..	8.6	0	1	29	7	3	1	1	0	0	2	16	0	0
	1730	,,	1007·6	1007·4	..	29·9	26.0	24·3	30·4	72	..	5·4	..	8·9	0	0	30	3	1	2	0	0	0	5	19	0	0
	2330	,,	1010·1	1009·9	..	27·8	25·3	24·2	30·2	81	..	3·9	..	7·3	0	1	24	2	1	1	0	0	0	6	15	5	0
May																											
Amini	0830	4	1008·7	1008·3	..	29·1	26·4	25·3	32·2	80	+7	6·1	+1·5	12·7	0	6	24	4	1	0	0	0	6	9	10	1	0
	†1730	,,	1006·5	1006·0	..	29·4	26·2	24·9	31·5	77	..	6·2	..	15·3	0	7	23	1	0	1	0	0	3	12	13	0	0
Minicoy	0530	2	1017·5	1007·3	..	27·5	25·3	24·3	31·1	82	..	5·6	..	13·4	0	7	23	0	0	0	0	0	6	15	9	1	0
	0830	,,	1009·3	1009·1	−0·7	28·8	25·9	24·6	30·9	78	+2	6·4	+2·1	11·7	0	0	29	2	0	0	0	0	3	14	10	2	0
	1130	,,	1009·7	1009·5	..	28·8	26·2	24·7	31·1	75	..	5·7	..	13·2	0	3	28	1	1	0	0	0	2	16	11	0	0
	1730	,,	1007·3	1007·1	..	28·1	25·9	24·5	30·7	77	..	6·3	..	13·7	0	0	31	1	0	0	0	0	4	17	9	0	0
	2330	,,	1007·6	1007·4	..	27·8	25·4	24·3	30·4	81	..	5·5	..	14·0	0	8	23	0	0	0	0	0	4	20	7	0	0
June																											
Amini	0830	4	1009·4	1008·9	..	27·8	25·6	25·0	31·7	90	+8	7·5	+1·2	17·3	0	11	19	1	0	0	0	1	9	17	2	0	0
	1730	,,	1007·8	1007·3	..	27·4	25·8	25·2	32·1	88	..	7·5	..	16·1	0	13	17	0	1	0	0	0	11	16	2	0	0
Minicoy	0530	2	1008·6	1008·4	..	26·1	24·4	23·5	28·9	84	..	5·8	..	14·9	0	6	24	0	0	0	0	1	6	21	2	0	0
	0830	,,	1010·2	1010·0	+0·6	27·5	25·1	24·1	30·0	81	0	6·6	+1·0	13·0	0	3	27	0	0	0	0	0	6	22	2	0	0
	1130	,,	1010·3	1010·5	..	24·4	25·6	24·3	30·4	77	..	6·2	..	14·9	0	5	25	0	0	0	0	0	6	21	3	0	0
	1730	,,	1008·5	1008·3	..	28·0	25·2	24·0	29·6	79	..	6·3	..	14·7	0	5	25	0	0	0	0	0	6	22	2	0	0
	2330	,,	1010·4	1010·2	..	26·9	25·1	23·9	29·7	84	..	6·1	..	16·2	0	8	22	0	0	0	0	0	7	21	2	0	0
July																											
Amini	0830	4	1009·[illegible]	1008·5	..	27·3	25·7	25·0	31·7	87	+4	7·6	+1·4	15·1	0	10	21	0	0	0	0	0	17	13	1	0	0
	1730	,,	1007·5	1006·9	..	27·6	25·8	25·1	31·9	86	..	7·8	..	17·0	0	11	20	0	0	0	0	0	14	15	2	0	0
Minicoy	0530	2	1008·1	1007·9	..	26·2	24·5	23·7	29·3	86	..	6·7	..	13·4	0	6	24	0	0	0	0	0	13	16	1	1	0
	0830	,,	1009·3	1009·1	−0·8	27·2	25·0	24·1	30·0	83	+4	7.0	+1·7	12·2	0	3	28	0	0	0	0	0	16	14	1	0	0
	1130	,,	1009·7	1009·5	..	28·5	25·6	24·3	30·4	78	..	7·2	..	13·0	0	3	28	0	0	0	0	0	15	12	4	0	0
	1730	,,	1007·9	1007·7	..	27·8	25·1	23·9	29·7	80	..	7·1	..	13·5	0	3	28	0	0	0	0	0	13	16	2	0	0
	2330	,,	1010·0	1009·8	..	26·6	24·7	23·8	29·5	84	..	6·7	..	12·5	0	1	30	0	0	0	0	0	15	12	4	0	0

†Observations for 30 days.

Division and station.	Hour of observation I. S. T.	Station elavanation in metres	Mean pressure in millibars: At mean sea level or height in g. p. m. of nearest isobaric level	Mean pressure in millibars: At station level	Mean pressure in millibars: Departure from normal	Mean temperature in °C: Dry bulb	Mean temperature in °C: Wet bulb	Mean temperature in °C: Dew point	Vapour pressure in mbs.	Relative humidity %	Departure from normal	Cloud amount (Oktas): Mean amount	Cloud amount (Oktas): Departure from normal	Mean wind speed in Km. per hour	Wind speed (Km.p.h.): 62 or more	Wind speed (Km.p.h.): 20 to 61	Wind speed (Km.p.h.): 1 to 19	No. of observations, Wind directions: N	NE	E	SE	S	SW	W	NW	Calm	Variable
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Arabian sea Islands—contd.																											
August																											
Amini	0830	4	1009·8	1009·3	..	27·5	26·0	25·4	32·4	88	+5	7·2	+1·5	24·8	0	25	6	0	0	0	0	0	6	21	4	0	0
	1730	,,	1007.9	1007·4	..	28·1	26·4	25·7	33·0	87	..	7·3	..	22·1	0	23	8	0	0	0	0	0	7	22	2	0	0
Minicoy	0530	2	1008·5	1008·3	..	26·4	24·7	23·9	29·7	86	..	6·2	..	12·1	0	3	27	0	0	0	0	0	1	23	6	1	0
	0830	,,	1010·1	1010·0	—0·7	26·9	24·9	24·0	29·8	85	+6	7·0	+2·3	10·8	0	1	29	0	0	0	0	0	0	25	5	1	0
	1130	,,	1010·4	1010·2	..	28·2	25·6	24·5	30·7	81	..	6·8	..	14·6	0	7	24	1	0	0	0	0	0	26	4	0	0
	1730	,,	1007·8	1007·6	..	28·0	25·5	24·4	30·5	81	..	7·2	..	12·3	0	2	29	0	0	0	0	0	0	23	8	0	0
	2330	,,	1010·4	1010·2	..	26·8	24·9	24·1	30·0	86	..	6·3	..	14·3	0	4	27	1	0	0	0	0	1	22	7	0	0
September																											
Amini	0830	4	1011·6	1010·4	..	26·9	25·1	24·2	30·2	86	+5	7·4	+2·4	11·9	0	5	24	1	0	0	0	0	10	15	3	1	0
	1730	,,	1009·0	1008·5	..	27·8	25·5	24·5	30·7	83	..	7·1	..	14·2	0	4	26	0	0	0	0	0	10	18	2	0	0
Minicoy	0530	2	1009·6	1009·4	..	25·6	23·8	23·0	27·9	86	..	4·0	..	7·8	0	1	27	0	0	0	0	0	4	18	6	2	0
	0830	,,	1011·5	1011·3	+0·2	27·3	24·7	23·6	28·9	80	+1	5 8	+1·6	7·7	0	0	29	1	0	0	0	0	5	17	6	1	0
	1130	,,	1011·7	1011·5	..	28·9	25·4	23·8	29·7	74	..	5·2	..	10·0	0	0	30	0	0	0	0	0	6	15	9	0	0
	1730	,,	1009·0	1008·8	.	28·8	24·9	23·4	28·9	76	..	5·3	..	9·3	0	1	29	0	0	0	0	0	7	15	8	0	0
	2330	,,	1011·5	1011·3	..	28·2	24·2	23·3	28·6	84	..	4·2	..	9·9	0	3	26	0	0	0	0	0	7	16	6	1	0
October																											
Amini	0830	4	1011·7	1011·2	..	27·6	24·8	23·6	28·9	79	0	7·0	+2·1	10·9	0	6	23	1	3	1	1	0	1	9	13	2	0
	1730	,,	1009·1	1008·6	..	28·3	24·9	23·4	28·6	75	..	6·5	..	10·1	0	6	25	2	2	1	0	0	1	12	13	0	0
Minicoy	0530	2	1009 4	1009·2	..	25·4	23·7	22·9	27·8	86	..	3·0	..	5·9	0	0	21	0	1	1	0	1	1	9	8	10	0
	0830	,,	1011·5	1011·3	−0·1	27·6	24·8	23·5	28·9	79	+2	4·4	+0·2	7·7	0	0	28	4	1	1	2	1	1	10	8	3	0
	1130	,,	1011·6	1011·4	..	28·3	25·4	23·7	29·1	72		4·4	..	10·0	0	0	31	2	0	1	3	1	2	11	11	0	0
	1730	,,	1009·0	1008·8	..	28·4	24·9	23·4	28·6	74	..	4·4	..	8·7	0	0	30	3	0	2	1	3	1	8	12	1	0
	2330	,,	1011.3	1011·1	..	26·0	24·0	23·1	28·3	84	..	2·7	..	8·6	0	1	27	3	1	1	4	0	2	6	11	3	0
November																											
Amini	0830	4	1012·3	1011·8	..	28·2	25·0	23 6	29·1	78	+3	6·9	+3·0	3·2	0	0	26	9	11	3	1	0	0	0	2	4	0
	1730	,,	1009·4	1008·9	..	29·0	24·9	23·2	28·2	71	..	7·3	..	2·6	0	0	23	5	13	3	1	0	0	0	1	7	0
Minicoy	0530	2	1009·3	1009·1	..	25·1	23·7	23·1	28·1	89	..	4·1	..	5·1	0	0	20	2	11	5	2	0	0	0	0	10	0
	0830	,,	1011·5	1011·3	−0·3	27 8	25 0	24·0	29·3	80	+2	5·3	+1·3	5·5	0	0	25	1	14	8	2	0	0	0	0	5	0
	1130	,,	1011·4	1011·2	..	29·5	25·8	24·1	29·8	70	..	4·8	.	7·7	0	0	29	0	13	12	3	0	0	0	1	1	0
	1730	,,	1008·8	1008·6	..	28·0	25·1	23·7	29·5	78	.	6·5		5·4	0	0	29	3	15	7	1	2	1	0	0	1	0
	2330	,,	1011·0	1010·8	..	25·7	24·2	23·4	28·9	87	..	4·4	..	6·5	0	0	26	1	13	7	5	0	0	0	0	4	0
December																											
Amini . . .	0830	4	1012·2	1011·7	..	27·2	24·0	22·5	27·3	76	+7	6·7	+3·7	3·3	0	0	24	7	12	4	0	0	0	0	1	7	0
	1730	,,	1009·2	1008·7	..	29·1	24·1	21·7	25·9	65	..	6·7	..	4·1	0	0	27	6	14	3	1	0	0	0	3	4	0
Minicoy	0530	2	1009·3	1009·1	..	24·5	23·3	22·7	27·4	89	..	4·0	..	4·9	0	0	22	3	12	6	0	0	0	0	1	9	0
	0830	,,	1011·4	1011·2	−1·0	26·7	24·5	23·4	28·6	83	+9	5·2	+1·9	5·7	0	0	26	5	14	7	0	0	0	0	0	5	0
	1130	,,	1011·5	1011·3	..	28·9	25·0	23·2	28·3	72	.	4·9	..	7·9	0	1	28	6	5	15	1	0	0	1	1	2	0
	1730	,,	1008·6	1008·4	..	27·9	24·6	23·2	28·4	76	..	5·3	..	6·1	0	0	26	6	9	5	0	2	1	0	3	5	0
	2330	,,	1011·1	1010·9	..	25·3	23·7	22·9	27·9	87	..	4·2	..	5·7	0	0	25	6	8	7	3	0	[illegible]	[illegible]	1	6	0

EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882–1883 SAKA)

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bay Islands																					
Maya Bandar	33·9	16·8	63·2	31·7	16·7	31·4	33·9	18·9	9·4	36·1	18·9	67·8	35·0	17·2	402·0	36·1	21·1	213·4	32·8	21·1	160·4
	1953	1957	1961	1956	1961	1960	1955	1955	1953	1955	1953	1953	1952	1952	1961	1952	1958	1955	1960	1954	1959
Long Island	31·7	18·3	56·0	33·3	15·6	156·0	35·6	19·4	50·0	36·1	21·1	100·3	35·0	21·1	186·2	33·3	20·4	209·8	33·3	20·4	129·0
	1958	1953	1960	1959	1953	1960	1959	1955	1959	1953	1956	1953	1961	1955	1955	1961	1961	1955	1953	1960	1959
Port Blair	32·7	16·7	208·3	33·3	17·2	131·1	35·1	17·8	67·1	36·1	20·6	206·8	36·1	17·1	264·9	35·6	18·9	258·3	32·8	18·3	164·9
	1958	1940	1922	1958	1949	1902	1958	1949	1881	1889	1939	1922	1889	1961	1891	1933	1961	1908	1941	1941	1959
Car Nicobar	31·5	16·1	104·1	35·0	16·1	82·5	33·2	16·8	53·3	31·1	19·4	99·6	34·0	21·1	129·0	32·2	21·7	127·0	31·7	19·9	111·4
	1958	1956	1954	1954	1956	1956	1958	1957	1953	1958	1960	1956	1958	1952	1955	1953	1956	1955	1957	1961	1960
Nancowry	33·9	21·7	74·9	33·9	20·0	91·2	35·0	21·1	51·4	36·7	20·6	82·7	36·1	18·9	154·0	32·2	21·1	120·4	31·1	21·7	139·2
	1954	1956	1953	1961	1956	1956	1954	1956	1961	1952	1952	1961	1952	1952	1960	1953	1956	1957	1954	1956	1952
Kondul	30·0	20·6	168·7	30·6	19·4	90·2	31·7	20·2	77·5	33·2	20·7	95·8	35·0	21·7	133·3	31·6	21·7	201·2	33·1	21·1	86·9
	1953	1956	1953	1961	1953	1953	1958	1960	1958	1960	1960	1955	1957	1956	1956	1957	1955	1954	1957	1954	1957
Assam (including Manipur, Tripura)																					
Pasighat	26·6	7·1	41·2	31·0	7·5	137·6	33·2	12·8	99·2	5·4	16·1	57·0	37·4	13·9	125·2	36·6	20·3	131·4	36·3	22·2	332·7
	1961	1959	1959	1960	1959	1961	1958	1959	1961	1959	1959	1961	1961	1961	1958	1961	1961	1959	1959	1961	1959
Dibrugarh (Mohanbari)	27·0	3·9	24·6	30·0	4·8	55·9	33·4	8·3	55·1	34·8	13·9	102·6	35·6	15·0	102·1	37·0	20·0	112·8	37·2	21·5	125·8
	1961	1953	1956	1952	1960	1954	1960	1957	1955	1958	1954	1961	1961	1960	1959	1961	1961	1951	1952	1961	1960
Dibrugarh	27·8	5·0	35·6	30·6	4·4	46·5	34·4	6·1	55·9	35·6	12·2	197·1	36·7	16·7	153·9	38·9	15·6	202·2	37·8	20·0	182·0
	1946	1940	1911	1942	1905	1917	1960	1903	1915	1937	1920	1913	1947	1909	1960	1905	1910	1931	1956	1908	1958
Digboi	26·6	5·6	52·3	29·4	7·4	24·6	32·8	10·0	40·1	35·6	13·8	66·0	36·1	17·4	57·2	37·2	20·6	95·8	38·3	16·0	118·4
	1959	1956	1956	1956	1959	1959	1958	1957	1956	1959	1957	1957	1956	1957	1959	1956	1957	1957	1960	1961	1956
North Lakhimpur	26·7	2·8	26·9	30·2	5·4	22·4	32·9	8·1	74·2	34·9	14·3	99·6	36·7	16·2	178·3	36·7	20·9	100·5	36·9	20·6	199·9
	1955	1956	1957	1960	1958	1960	1958	1957	1955	1960	1959	1954	1961	1961	1958	1961	1957	1959	1961	1954	1956
Sibsagar	28·9	3·3	43·7	30·6	2·8	42·9	35·6	7·2	113·0	37·2	12·8	148·6	42·8	16·7	188·2	37·8	19·4	189·2	38·9	20·6	218·9
	1942	1917	1945	1942	1905	1892	1945	1917	1892	1960	1912	1913	1945	1893	1931	1881	1907	1903	1883	1909	1929
Gohpur	26·6	4·2	14·0	29·3	5·5	21·5	33·2	9·9	34·2	35·4	14·4	32·4	34·9	16·6	95·5	36·6	21·6	59·0	36·0	22·2	68·6
	1961	1960	1958	1960	1961	1958	1958	1959	1959	1958	1961	1961	1961	1959	1959	1961	1961	1958	1961	1958	1959
Majbat	..	..	29·7	..	..	14·0	..	..	53·0	..	..	68·6	..	..	100·2	..	..	142·2	..	..	96·0
	..	..	1957	..	..	1957	..	..	1961	..	..	1956	..	..	1959	..	..	1959	..	..	1960
Jorhat (Aerodrome)	26·7	5·3	34·0	31·1	6·8	18·3	34·1	8·9	48·3	37·5	15·0	50·8	38·8	16·1	119·9	37·3	20·6	146·6	36·7	21·7	95·5
	1955	1960	1954	1954	1961	1959	1960	1957	1954	1960	1960	1954	1960	1955	1957	1961	1955	1959	1961	1956	1959
Tangla	28·2	6·0	31·0	30·7	5·9	29·3	35·4	11·6	48·3	37·9	13·9	109·0	38·9	18·2	86·2	39·5	21·7	125·4	36·7	20·7	81·5
	1961	1960	1957	1960	1961	1957	1958	1960	1955	1960	1960	1959	1960	1960	1959	1961	1961	1959	1961	1960	1955
Tezpur	27·8	5·6	29·5	31·7	6·1	38·6	36·7	10·0	62·0	38·3	13·3	100·1	38·9	17·2	148·1	36·7	19·4	136·7	36.7	21·7	142·7
	1961	1945	1907	1952	1905	1940	1923	1927	1912	1960	1905	1946	1960	1955	1904	1953	1907	1904	1936	1956	1947
Golaghat	28·3	6·1	16·5	30·6	1·1	22·0	35·6	6·6	37·6	38·9	15·6	53·3	38·9	11·1	134·6	36·7	19·9	79·8	36·7	18·3	118·0
	1961	1960	1957	1954	1958	1959	1954	1958	1956	1960	1960	1958	1960	1958	1957	1961	1957	1961	1960	1957	1959
Rangia	28·2	8·0	6·0	30·6	8·8	35·6	35·9	10·8	34·0	38·4	12·2	40·6	39·5	17·1	60·5	36·2	20·6	175·6	37·2	21·9	85·0
	1960	1959	1959	1960	1960	1958	1958	1960	1959	1960	1960	1958	1960	1960	1958	1959	1960	1959	1960	1960	1960

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Bay Islands
32.2	20.6	109.7	31.7	20.5	104.9	31.8	20.0	93.6	35.0	21.1	109.0	30.6	19.3	85.0	1952	1952	Maya Bandar.
1953	1953	1956	1955	1958	1954	1960	1955	1961	1953	1954	1959	1960	1958	1959			
36.7	21.7	147.3	32.7	21.4	252.4	32.2	21.1	122.2	32.2	20.6	119.1	31.7	17.2	65.2	1952	1952	Long Island.
1952	1956	1956	1957	1957	1961	1952	1956	1952	1953	1954	1953	1954	1953	1961			
31.7	20.7	173.2	31.7	19.3	178.1	35.6	19.4	153.2	31.7	20.0	147.3	32.2	18.8	295.7	1881	1881	Port Blair.
1932	1961	1934	1888	1961	1904	1906	1912	1926	1960	1949	1901	1896	1958	1937			
31.7	21.1	148.6	33.3	20.6	132.6	31.7	20.6	198.4	31.1	19.4	122.2	35.6	16.7	158.8	1952	1952	Car Nicobar.
1954	1956	1959	1951	1952	1958	1953	1960	1955	1955	1958	1955	1955	1952	1957			
32.8	21.3	115.3	31.7	21.1	95.2	33.9	21.7	157.8	33.3	21·1	104.4	34.4	20.6	87.3	1952	1952	Nancowry.
1959	1959	1956	1954	1956	1960	1953	1959	1960	1960	1955	1961	1953	1954	1957			
31.7	21.1	131.0	31.1	21.6	113.0	30.8	22.1	162.6	30.6	21.1	135.6	31.6	21.6	82.3	1952	1952	Kondul.
1957	1955	1958	1957	1961	1953	1957	1961	1952	1957	1955	1960	1961	1961	1955			
																	Assam (including Manipur, Tripura).
37.0	20.9	215.6	36.9	19.6	180.3	34.6	17.6	119.4	30.9	11.1	37·0	27.4	7.2	13.8	1958	1958	Pasighat.
1961	1958	1958	1961	1959	1958	1958	1959	1958	1961	1961	1961	1958	1961	1958			
36.7	19.5	98·0	36.1	20.8	140.5	35.0	14.2	78.0	31.7	7.4	31.8	28.1	2.7	22.9	1951	1951	Dibrugarh. (Mohanbari)
1953	1958	1952	1951	1960	1954	1955	1960	1953	1952	1961	1957	1960	1961	1951			
37.8	21.1	223.5	36.6	16.1	182.1	36.1	15.0	104.7	32.2	8.9	53.3	28.8	5.6	56.1	1901	1901	Dibrugarh.
1956	1903	1920	1959	1905	1941	1907	1943	1913	1942	1933	1932	1960	1918	1931			
37.7	21.5	98.2	36.6	19.4	77.2	34.4	15.0	157.5	31.5	10.7	20.0	27.7	7.8	25.4	1956	1956	Digboi.
1960	1958	1960	1958	1959	1959	1956	1957	1956	1958	1959	1961	1958	1959	1957			
36.7	21·7	111.2	36.1	21.4	155.2	35.0	10.6	115.1	31.7	8.2	45.7	28.3	3.1	23.6	1954	1954	North Lakhimpur.
1957	1958	1958	1954	1960	1954	1955	1955	1956	1954	1960	1957	1954	1961	1954			
37.8	18.3	154.4	36.4	19.4	182.4	35.6	15·0	99·6	32·2	9.4	53·9	28·9	4.4	36.3	1881	1871	Sibsagar.
1931	1944	1929	1958	1890	1902	1938	1938	1925	1896	1928	1930	1958	1916	1936			
36.0	21.6	58.6	36.0	20.5	80.2	34.3	16.6	86.1	31.6	8.8	12.7	27.7	7.2	40.4	1958	1958	Gohpur.
1959	1958	1958	1958	1959	1959	1958	1960	1958	1958	1960	1959	1960	1959	1958			
..	..	115.4	..	..	96.8	..	..	70.6	..	..	39.2	..	..	27.9	..	1954	Majbat.
..	..	1957	..	..	1960	..	..	1955	..	..	1958	..	..	1956			
37.2	22.2	129.3	36.1	21.4	82.8	35.6	15.6	56.1	30.6	9.4	32.5	28.9	5.0	14.7	1951	1951	Jorhat (Aerodrome.)
1955	1956	1961	1955	1960	1958	1955	1957	1956	1958	1961	1961	1960	1954	1958			
36.6	22.0	106.4	36.7	20.3	88.0	35.0	17.2	69.8	31.9	9.2	86.4	29.5	5.2	20.6	1958	1954	Tangla.
1960	1961	1958	1960	1959	1959	1960	1960	1958	1958	1961	1956	1960	1961	1954			
37.2	21.1	166.6	36.7	20.6	102.9	36.1	15.6	140.7	33.3	10·6	59.9	28.9	6.1	19.3	1901	1901	Tezpur.
1953	1945	1952	1961	1959	1917	1956	1941	1909	1952	1953	1901	1960	1913	1907			
36.7	17.2	122.0	36.7	21.7	96.0	34.4	17.5	50.5	31.7	8.8	36.3	29.4	6.3	25.4	1954	1954	Golaghat.
1960	1957	1961	1958	1960	1958	1956	1960	1955	1958	1957	1955	1960	1959	1957			
37.2	22.3	100.8	36.8	19.9	99.3	35.1	18.0	54.0	34.5	11.1	20.3	28.9	10.1	2.0	1958	1958	Rangia.
1960	1958	1960	1958	1960	1960	1959	1960	1960	1959	1960	1959	1960	1960	1958			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Assam (including Manipur, Tripura)—(*contd.*)																					
Chaparmukh	28·4	7·3	9·1	33·3	8·0	15·1	37·2	12·0	49·4	41·1	15·5	25·4	41·2	18·8	138·2	37·8	22·2	50·6	43·9	23·8	216·1
	1958	1960	1959	1960	1961	1959	1958	1959	1961	1960	1961	1961	1960	1961	1961	1961	1961	1959	1961	1961	1961
Goalpara	29·0	6·1	72·4	32·4	5·2	31·7	37·6	10·2	33·8	39·9	14·6	108·8	41·4	16·7	141·7	37·0	16·1	160·8	35·9	21·1	204·0
	1959	1960	1957	1960	1961	1958	1958	1957	1961	1958	1957	1961	1960	1955	1954	1961	1955	1959	1960	1961	1960
Gauhati	28·9	5·0	41·1	35·0	5·0	53·3	38·3	6·1	56·1	40·6	12·8	75·7	41·1	16·1	185·4	36·7	18·9	194·3	37·2	2[illegible]·6	232·9
	1955	1925	1945	1951	1920	1914	1909	1906	1915	1960	1907	1955	1960	1955	1941	1961	1955	1956	1914	1955	1933
Gauhati (Bhorjor)	28·4	5·1	39·1	32·2	6·1	16·5	37·2	10·3	49·8	39·5	14·4	100·3	40·3	17·2	96·8	36·7	21·1	173·7	35·9	21·9	102·9
	1958	1960	1957	1956	1951	1957	1954	1957	1955	1960	1952	1955	1960	1955	1958	1952	1955	1953	1960	1958	1951
Dhubri (Rupsi)	28·1	5·0	55·4	29·2	4·6	24·9	38·2	11·1	46·4	41·0	14·8	138·0	41·2	17·1	84·4	35·2	20·4	157·2	37·9	22·7	160·0
	1961	1960	1957	1958	1961	1958	1960	1957	1961	1960	1960	1959	1960	1958	1960	1960	1960	1959	1959	1959	1957
Dhubri	29·4	6·1	54·1	32·2	2·8	59·9	38·3	7·4	107·9	41·1	12·2	197·6	41·4	15·9	226·3	36·9	13·9	368·3	37·8	22·2	285·7
	1953	1905	1945	1901	1905	1904	1909	1961	1885	1939	1905	1948	1960	1957	1944	1960	1953	1909	1930	1951	1908
Lumding	29·0	3·4	27·7	33·9	4·4	34·5	38·3	8·4	47·0	41·9	10·6	34·8	41·9	17·2	129·0	37·8	20·0	135·6	37·6	17·8	114·3
	1961	1960	1957	1952	1956	1957	1958	1957	1959	1960	1951	1956	1960	1955	1961	1960	1953	1957	1958	1955	1956
Umroi	24·0	2·3	1·2	23·8	0·1	14·0	29·9	7·8	35·6	32·5	8·3	32·0	31·8	13·1	94·8	30·8	17·5	46·2	31·8	19·5	64·9
	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
Tura	27·9	5·6	24·5	31·7	5·6	32·3	37·2	12·2	88·2	38·5	14·6	101·1	39·4	15·6	193·3	34·2	18·3	167·4	33·9	19·4	229·1
	1961	1961	1959	1956	1961	1954	1958	1952	1959	1960	1961	1952	1960	1959	1952	1961	1961	1956	1951	1960	1951
Haflong	24·6	7·1	48·0	28·5	5·4	65·8	33·3	10·6	192·3	32·8	12·6	164·1	35·6	14·9	248·2	32·2	17·6	242·8	32·4	18·9	119·9
	1961	1959	1957	1960	1959	1954	1958	1959	1961	1960	1958	1955	1956	1958	1958	1955	1960	1960	1961	1956	1960
Silchar (Kumbhirgram)	29·6	8·3	20·8	29·0	8·5	48·0	38·0	12·2	173·8	38·4	16·4	60·4	39·8	17·9	178·4	36·3	20·8	277·7	35·8	21·8	104·4
	1959	1960	1958	1958	1961	1959	1960	1960	1961	1960	1959	1959	1960	1958	1961	1961	1961	1959	1961	1961	1961
Silchar	30·6	5·6	100·1	35·0	5·0	90·4	37·8	8·3	245·4	39·4	13·9	165·1	38·9	15·6	290·3	37·8	19·4	227·3	39·4	21·1	234·7
	1915	1899	1911	1912	1905	1927	1901	1927	1922	1937	1935	1934	1937	1886	1853	1900	1926	1913	1896	1897	1915
Imphal (Tulihal)*													33·8	15·7	34·2	33·1	20·1	32·0	31·9	18·1	39·2
													1961	1961	1961	1961	1961	1961	1961	1961	1961
Kailashahar	29·9	5·4	8·6	34·1	5·9	17·3	36·9	10·8	76·4	42·2	15·2	44·1	42·0	18·5	72·4	36·6	21·3	214·3	35·5	19·7	79·9
	1961	1961	1959	1960	1961	1959	1960	1960	1961	1960	1961	1961	1960	1959	1959	1961	1961	1960	1960	1961	1959
Agartala	29·9	3·9	50·1	34·4	5·9	45·0	38·9	10·0	98·6	41·5	16·1	141·2	42·2	16·1	123·4	36·3	19·5	228·6	36·2	22·2	136·9
	1961	1955	1957	1960	1961	1958	1958	1957	1960	1960	1955	1955	1960	1955	1956	1958	1961	1961	1961	1958	1954
Sub-Himalayan West Bengal																					
Baghdogra	28·9	3·4	37·1	31·7	4·0	12·0	36·7	8·7	43·7	41·7	12·9	86·1	39·4	13·9	137·7	36·7	20·4	175·4	36·7	21·6	208·3
	1954	1960	1954	1955	1961	1960	1954	1959	1956	1952	1960	1952	1957	1955	1956	1952	1960	1958	1951	1960	1960
Jalpaiguri	28·9	5·0	37·6	31·1	2·2	71·9	36·1	7·8	68·6	40·0	10·6	152·4	39·4	16·1	161·0	37·2	17·0	234·9	37·2	22·2	390·4
	1931	1937	1889	1931	1905	1914	1945	1906	1926	1932	1905	1945	1899	1910	1938	1927	1957	1903	1933	1949	1892
Cooch Behar	28·8	3·9	34·0	31·3	5·9	16·3	37·3	10·0	35·2	39·4	13·9	74·2	39·9	16·2	137·8	36·4	19·4	286·2	35·6	22·7	296·6
	1961	1955	1957	1960	1958	1954	1958	1958	1959	1954	1955	1958	1960	1960	1961	1961	1955	1958	1961	1960	1961
Balurghat	29·8	6·3	3·9	30·0	6·3	31·1	37·9	1[illegible]·7	1·8	42·2	15·6	6·9	42·8	19·2	40·0	37·6	20·8	193·6	35·0	23·3	33·1
	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
Malda	29·4	4·4	69·1	33·9	3·9	45·0	41·7	7·2	53·9	43·6	11·1	63·0	45·0	18·3	195·1	44·4	20·0	167·9	37·8	21·1	191·8
	1958	1937	1957	1952	1905	1942	1941	1898	1926	1960	1953	1892	1958	1945	1938	1958	1955	1945	1897	1906	1958

X=Highest Maximum Temperature. *Observatory started from 14-4-61. N=Lowest Minimum Temperature.

HAEVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Assam (Including Manipur, Tripura)—(*contd.*)
37·8	24·2	152·4	37·3	20·6	150·8	35·4	18·3	83.2	33·3	12·2	38·8	30·0	8·3	8 1	1958	1958	Chapransukh.
1959	1959	1961	1958	1959	1960	1958	1959	1961	1958	1961	1961	1958	1961	1958			
40·5	21·3	104·9	36·7	18·3	221·7	36 1	16·1	81 4	32 6	11·7	25 9	31·1	6·2	19·6	1954	1954	Goalpara.
1959	1960	1957	1959	1955	1958	1956	1954	1959	1958	1960	1956	1955	1961	1955			
37·8	21·1	187 7	37 2	20 0	133 9	35·6	15·6	94·3	32·2	10·6	36·8	29·4	5·0	21 3	1906	1906	Gauhati
1933	1955	1938	1928	1955	1949	1955	1921	1959	1950	1926	1924	1955	1918	1957			
36·1	22 8	129 2	35 9	21·2	89·7	34 4	15 2	60·2	32·5	10 6	19·8	30·9	4·9	16 5	1951	1951	Gauhat. (Bhorjor)
1953	1955	1960	1957	1959	195	1955	1957	1951	1957	1961	1956	1957	1961	1952			
36·1	15·1	195 8	34·8	21 4	273·9	33·7	15 6	220 0	31·4	10·1	3·8	28 2	5·1	3 0	1957	1957	Dhubri (Rupsi).
1957	1957	1957	1960	1960	1960	1961	1957	1958	1958	1961	1957	1958	1961	1961			
35·6	21·7	196 9	35 0	21·7	363 6	33 9	17·2	155·2	31 1	11·7	82·5	27·8	7·8	17·3	1891	1881	Dhubri.
1942	1957	1924	1906	1960	1960	1956	1902	1919	1905	1903	1952	1944	1922	1894			
34·3	21 1	118 9	37 2	20 0	91 7	35 0	14·7	107·9	32·2	9·4	101·6	28·8	6·1	21·1	1951	1951	Lumding.
1953	1956	1952	1951	1953	1954	1956	1957	1952	1951	1953	1955	1960	1955	1957			
31·7	19·9	75.4	31·1	18·3	63·8	29 3	11·4	38·4	26·5	3·1	13·7	22·5	—0·1	7·6	1961	1961	Umroi.
1961	1961	196	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
35·6	19·9	284·7	37·2	17·4	270 2	32 8	14·4	164·3	32 8	10·4	39·4	30·6	6·7	5·3	1951	1951	Tura.
1957	1961	1956	1958	1959	1960	1955	1960	1953	1952	1960	1952	1951	1961	1956			
33·2	19·8	100·3	32·2	17·9	85·3	32·7	13·2	237·1	27·9	10 6	234·2	25·6	7·0	35·6	1954	1954	Haflong.
1957	1958	1954	1959	1959	1957	1960	1957	1959	1961	1961	1955	1958	1961	1954			
36 9	22·9	177·4	36·6	22·2	124·4	36·2	17·4	93·2	32·4	11·3	30·0	31·2	8·5	4·3	1958	1958	Silchar (Kumbhigram)
1958	1961	1961	1958	1958	1961	1958	1961	1959	1958	1961	1960	1960	1961	1958			
38·3	19·4	154·9	38·3	18·9	178·6	36·7	15·6	186·2	35·0	10·6	174·2	31·7	6·1	100·8	1881	1881	Silchar.
1900	1906	1890	1887	1890	1939	1944	1914	1912	1900	1902	1955	1945	1913	1883			
31·1	20·7	30·7	30·7	20·0	28 6	30·5	11·7	16·8	28·2	4·3	23·3	23·2	1·6	3·6	1961	1961	Imphal (Tulihal)*
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
35·8	21·8	80·4	35·6	21·5	77·6	34·2	17·7	138·1	31·9	10·3	57·2	31·5	6·3	0	1959	1959	Kailashahar
1961	1961	1961	1960	1959	1961	1960	1960	1959	1961	1961	1960	1960	1961	..			
36·4	22·8	238·8	35 0	21·7	115·6	35 0	14·9	86·9	32·8	9·8	104·7	30·0	5·8	10·9	1953	1953	Agartala.
1957	1955	1955	1954	1956	1956	1955	1957	1959	1955	1961	1955	1960	1961	1956			
																	Sub-Himalayan West Bengal.
36·7	22·1	313·1	39·2	20·4	148·3	33·9	13·3	164·4	33·3	7·4	20·3	31·1	2·4	5·3	1951	1951	Baghdogra.
1957	1957	1961	1958	1960	1953	1961	1955	1959	1952	1961	1952	1951	1961	1956			
37·2	21 1	220·8	36·1	21·1	347·7	35·6	15·6	244·3	33·3	9·4	92·7	30·0	5·6	53 9	1891	1886	Jalpaiguri.
1933	1918	1958	1933	1944	1886	1926	1947	1909	1952	1914	1924	1951	1918	1932			
36·3	22·8	315·5	35·6	21·0	329·7	35·0	15·1	77·5	31·4	10·5	0	29·4	4·2	23·8	1953	1953	Cooch Behar.
1957	1954	1957	1953	1959	1960	1955	1957	1958	1958	1960	..	1953	1961	1958			
35·5	23·2	67·1	35·5	22·4	38·4	34·4	17·3	89·2	31·1	10·0	0	27·6	4·7	1·4	1961	1961	Baghdogra.
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	1961			
36·7	22·8	188·0	36·1	21·7	215·9	35·6	15·0	173·7	33·3	8·3	64·3	29·4	5·0	32·8	1896	1886	Malda.
1957	1948	1918	1896	1940	1953	1932	1908	1894	1896	1934	1930	1951	1896	1913			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. =Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Gangetic West Bengal—																					
Berhampore	31·2	3·9	69·6	36·7	5·0	60·7	42·2	8·9	62·2	45·0	15·6	54·6	46·1	16·7	155·7	44·4	19·4	202·4	38·3	22·2	221·0
	1958	1933	1957	1926	1950	1937	1941	1898	1887	1954	1936	1893	1916	1882	1915	1953	1884	1898	1897	1955	1900
Suri	31·1	6·7	132·3	35·0	8·3	41·8	41·1	12·7	24·0	44·7	17·8	20·1	46·1	18·2	80·4	45·4	20·0	73·7	38·2	22·0	131·8
	1955	1956	1957	1960	1956	1961	1955	1957	1961	1961	1955	1955	1958	1961	1959	1958	1955	1956	1958	1960	1955
Asansol	31·7	5·6	51·6	36·1	5·0	71·3	41·7	11·1	44·2	45·0	10·4	46·7	47·2	18·3	127·0	47·2	20·6	174·5	40·0	19·4	269·7
	1958	1934	1944	1952	1950	1961	1911	1923	1919	1954	1960	1945	1944	1927	1938	1926	1922	1957	1926	1947	1943
Shanti Niketan	29·9	8·1	3·0	31·1	8·6	46·5	38·4	12·8	25·5	44·3	19·6	[illegible]	44·5	19·9	30·0	42·1	22·6	53·6	34·1	24·2	83·0
	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961
Krishnanagar	31·4	3·9	51·8	37·8	3·9	73·7	42·2	7·8	82·4	45·0	13·9	114·5	46·1	16·7	138·4	45·1	20·0	209·8	37·2	22·2	244·3
	1912	1934	1898	1896	1886	1943	1941	1898	1886	1954	1886	1916	1958	1893	1918	1958	1907	1890	1949	1955	1905
Purulia	31·1	7·8	12·7	35·0	7·2	25·2	41·7	13·5	35·3	43·9	16·1	26·4	45·6	20·0	48·8	45·6	20·6	63·0	36·7	17·8	148·3
	1958	1954	1953	1952	1956	1961	1955	1957	1956	1954	1955	1959	1955	1952	1959	1953	1956	1961	1958	1953	1951
Bankura	..	..	33·0	..	..	53·2	..	..	34·0	..	..	38·9	..	..	45·4	..	..	60·7	..	..	86·9
	..	..	1957	..	..	1961	..	..	1960	..	..	1952	..	..	1958	..	..	1957	..	..	1957
Burdwan	36·7	6·1	43·7	37·8	4·4	81·1	41·7	10·0	115·8	45·0	16·1	116·8	46·1	18·3	244.3	45·6	20·0	175·3	38·9	20·0	299·2
	1951	1934	1944	1896	1905	1938	1941	1928	1887	1897	1886	1909	1916	1882	1893	1926	1953	1928	1897	1953	1905
Barrackpore (Aerodrome)	31·1	7·3	39·9	34·6	8·2	20·1	40·1	11·0	34·5	41·9	17·3	35·0	42·9	22·0	79·2	43·3	19·9	78·5	35·6	21·7	82·8
	1958	1959	1957	1960	1961	1957	1958	1957	1960	1959	1957	1958	1958	1959	1961	1958	1957	1959	1958	1958	1960
Calcutta (DumDum)	31·7	7·2	27·2	35·6	7·6	17·0	40·6	12·2	24·8	42·8	18·1	53·1	42·9	19·4	27·4	41·8	21·7	129·0	35·2	22·5	137·2
	1958	1959	1957	1952	1961	1957	1955	1957	1960	1954	1957	1955	1958	1952	1951	1957	1953	1956	1958	1957	1953
Calcutta	31·9	6·7	46·7	36·7	7·2	80·8	41·1	10·0	69·9	43·3	16·1	107·4	43·7	18·3	156·2	43·9	21·1	303·5	36·7	22·8	183·6
	1958	1890	1943	1952	1950	1906	1941	1898	1907	1954	1905	1918	1958	1887	1893	1924	1900	1908	1920	1940	1905
Midnapore	33·9	6·1	54·6	37·2	5·6	66·0	42·8	11·1	79·5	45·6	17·2	78·2	46·7	19·4	145·3	47·2	20·0	276·9	37·2	22·2	160·8
	1912	1934	1957	1922	1956	1931	1953	1925	1920	1938	1953	1949	1943	1950	1956	1942	1950	1950	1926	1943	1929
Contai	31·7	9·4	41·0	37·2	10·0	29·0	40·1	14.7	23·4	41·2	20·0	23·1	41·1	17·2	245·1	38·8	13·8	202·5	35.7	21·7	128·5
	1958	1955	1959	1951	1953	1954	1958	1957	1951	1961	1956	1952	1961	1951	1960	1957	1961	1956	1959	1952	1957
Sagar Island	30·6	7.8	41·4	33·9	7·2	77·0	38·3	12·2	125·7	39·4	17·2	78·7	38·3	17·8	202·7	40·0	19.4	359·2	36.1	16·2	354·1
	1931	1899	1948	1952	1950	1885	1934	1906	1907	1938	1942	1921	1938	1893	1932	1929	1925	1927	1920	1960	1913
Sandheads	32·6	13·5	33·0	32·8	20·2	65·3	35·1	17·8	62·7	35·9	26·1	72·6	35·5	22·3	87·9	37·0	22·1	334·0	32.9	17·2	290·8
	1961	1960	1944	1961	1960	1958	1960	1963	1949	1960	1961	1911	1961	1961	1950	1961	1961	1940	1960	1960	1921
Orissa																					
Baripada	33·8	8·3	28·4	38·3	9·9	46·3	41·6	15·0	33·5	45·1	18·2	32·6	46·9	21·1	53·2	47·8	22·5	181·1	35·2	23·9	99·8
	1958	1960	1959	1959	1961	1957	1958	1959	1956	1961	1961	1959	1958	1961	1960	1958	1960	1956	1958	1959	1958
Jharsuguda	32·2	6·1	42·4	35·6	8·3	46·7	42·8	11·1	58·7	44·8	15·8	31·7	46·7	21·1	33·0	46·1	21·1	159·2	37·0	21·6	189·8
	1958	1954	1953	1956	1961	1961	1955	1961	1951	1961	1957	1952	1956	1955	1956	1955	1955	1958	1958	1959	1961
Keonjhargarh	29·7	7·9	13·5	33·8	9·3	66·8	38·3	14·3	21·1	42·1	18·3	16·4	42·3	20·2	35·8	43·3	20·5	72·0	33·8	20·9	101·6
	1958	1960	1959	1960	1958	1961	1959	1960	1960	1961	1961	1960	1959	1961	1958	1958	1961	1961	1958	1960	1958
Balasore	33·3	7·2	85·1	38·3	6·7	76·2	40·6	11·7	70·4	45·0	16·7	71·4	46·7	19·4	221·5	46·1	20·0	217·2	38·3	20·0	347·2
	1958	1934	1908	1934	1905	1923	1955	1927	1897	1892	1905	1947	1897	1893	1887	1926	1900	1956	1897	1913	1940
Sampalpur	33·9	4·4	99·7	37·8	5·6	56·8	43·3	11·1	46·2	45·6	14·4	45·2	45·1	20·6	107·9	46·7	19·4	254·5	40·6	18·3	401·3
	1889	1954	1957	1896	1950	1961	1888	1954	1951	1942	1905	1909	1961	1951	1891	1955	1903	1882	1902	1910	1889
Angul	34.4	6·7	48·8	37·2	8·9	118·1	42·2	10·6	52·0	45·6	16·1	65·5	47·2	18·9	84·3	46·1	21·1	156·0	38·9	21·0	243·8
	1928	1923	1946	1934	1950	1961	1953	1906	1960	1941	1920	1928	1921	1910	1946	1958	1954	1925	1926	1959	1932

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Gangetic West Bengal—
37·1	21·7	183·4	38·9	21·7	182·9	37·8	16·1	286·3	35·0	8·3	75·2	32·2	5·7	33·5	1881	1881	Berhampore.
1957	1933	1939	1947	1956	1900	1951	1954	1917	1952	1934	1930	1951	1961	1913			
36·6	22·8	116·3	34·9	20·6	238·3	35·5	17·0	135·6	31·4	12·1	49·5	29·6	7·1	29·0	1955	1955	Śuri.
1960	1955	1956	1957	1956	1956	1957	1957	1959	1957	1960	1956	1957	1961	1956			
37·2	21·7	189·2	36·1	20·0	269·0	36·7	15·0	99·1	36·1	8·3	99·1	31·7	5·8	29·7	1921	1916	Asansol.
1932	1933	1935	1941	1946	1946	1932	1938	1929	1955	1926	1930	1946	1961	1929			
34·1	25·4	41·4	33·6	23·6	84·2	32·5	17·8	33·7	29·7	11·5	0·2	26·4	6·1	0	1961	1961	Shanti Niketan.
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	..			
36·7	21·1	165·3	37·2	21·1	293·9	36·7	14·4	214·8	36·1	8·3	151·1	32·2	5·0	37·3	1886	1886	Krishnanagar.
1956	1949	1926	1955	1887	1900	1960	1935	1959	1952	1934	1889	1954	1937	1954			
35·0	17·2	118·8	36·1	17·2	181·6	35·6	16·7	96·2	32·2	11·1	55·4	30·1	5·7	7·4	1951	1951	Purulia.
1954	1953	1960	1955	1953	1958	1951	1954	1961	1952	1952	1955	1957	1961	1956			
..	..	78·0	..	..	106·0	..	..	76·0	..	..	57·1	..	..	7·4	..	1951	Bankura.
..	..	1960	..	..	1958	..	..	1959	..	..	1953	..	..	1954			
36·1	21·7	260·6	37·8	20·0	304·8	36·7	16·1	216·3	35·6	10·6	106·9	31·7	4·4	69·6	1881	1881	Burdwan.
1945	1954	1909	1928	1953	1956	1951	1933	1959	1896	1883	1916	1951	1961	1934			
36·3	23·6	86·8	35·4	23·4	164·0	34·3	18·5	231·1	31·6	11·6	37·8	29·9	7·3	0·3	1957	1957	Barrackpore. (Aerodrome).
1957	1958	1961	1957	1960	1959	1957	1957	1959	1959	1960	1958	1957	1961	1959			
35·5	23·6	109·9	35·6	23·2	214·4	35·9	16·7	150·2	33·9	11·8	40·9	30·9	7·8	15·2	1951	1951	Calcutta (Dum Dum).
1960	1958	1961	1957	1959	1956	1957	1954	1959	1952	1963	1951	1960	1961	1951			
36·1	23·3	253·0	36·1	22·2	369·1	35·6	17·2	172·2	33·9	10·6	85·1	30·7	7·2	53·1	1881	1881	Calcutta.
1944	1935	1888	1939	1940	1900	1957	1954	1882	1952	1883	1950	1957	1910	1883			
36·1	21·7	201·2	36·7	21·7	311·5	36·1	15·6	325·1	33·9	10·0	111·3	31·7	6·1	62·0	1921	1886	Midnapore.
1947	1955	1891	1919	1952	1958	1917	1954	1942	1937	1934	1941	1957	1916	1914			
36·7	22·8	169·1	35·0	21·7	240·0	34·2	18·3	200·7	32·8	12·6	64·8	31·1	8·3	29·7	1951	1951	Contai.
1951	1954	1960	1951	1959	1958	1957	1954	1955	1952	1960	1955	1956	1961	1954			
36·7	21·1	232·4	36·1	19·4	205·9	33·9	17·2	321·6	32·8	12·2	113·3	29·4	9·4	91·9	1881	1881	Sagar Island.
1953	1953	1954	1921	1960	1960	1918	1898	1933	1944	1883	1955	1907	1896	1947			
35·8	22·5	176·3	34·9	22·0	137·2	36·2	22·4	155·2	34·8	22·3	132·6	34·2	12·0	144·8	1960	1906	Sandheads.
1960	1960	1946	1960	1961	1946	1960	1960	1931	1960	1961	1915	1960	1961	1906			
																	Orissa
35·8	23·8	193·2	36·1	23·5	129·8	35·9	17·7	187·6	33·3	11·4	58·4	32·6	6·7	1·2	1956	1956	Baripada.
1957	1960	1960	1957	1959	1961	1957	1961	1959	1957	1959	1958	1957	1961	1959			
35.7	22.2	161.6	34.8	21.4	120.8	36.1	13.9	110.2	33.1	8.9	22.1	31.1	6.1	11.2	1954	1951	Jharsuguda.
1961	1956	1960	1957	1961	1961	1957	1954	1952	1957	1960	1953	1957	1955	1961			
31.9	21·8	162·0	32·2	21·6	158·0	31·9	16·1	40·6	29·4	10·1	13·1	28·8	7·1	36·2	1958	1958	Keonjhargarh.
1958	1960	1960	1960	1959	1961	1960	1960	1959	1959	1960	1960	1960	1959	1960			
35·6	21·7	255·2	35·6	22·2	199·1	36·1	15·6	323·3	34·4	8·9	184·7	31·7	6·7	78·7	1891	1886	Balasore.
1955	1933	1960	1922	1919	1961	1925	1926	1941	1896	1892	1950	1944	1897	1947			
35.0	21.1	290.7	36.1	20.6	220.4	36.1	12.8	173.7	33.9	7.8	106.2	32.2	4.4	39.1	1881	1881	Sambalpur.
1954	1956	1960	1930	1921	1961	1920	1921	1936	1946	1926	1930	1902	1902	1885			
36.1	21.1	257.3	35.7	16.7	148.8	35.6	14.4	117.9	33.9	8.9	99.1	31.7	7.2	22.9	1906	1906	Angul.
1945	1956	1931	1960	1961	1939	1918	1926	1929	1918	1910	1915	1957	1937	1909			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and Station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Orissa—(*Contd.*)																					
Cuttack	35·6	7·8	61·0	38·9	10·6	98·0	42·8	14·4	99·1	45·0	17·2	94·5	47·7	20·6	142·7	47·2	21·7	205·7	40·0	21·1	210·8
	1882	1923	1919	1896	1934	1917	1902	1906	1911	1903	1905	1899	1957	1946	1893	1948	1955	1925	1897	1943	1943
Chandbali	32·8	8·3	5·1	37·8	10·0	50·2	40·6	13·9	40·1	43·3	17·2	52·3	44·4	17·8	186·4	46·7	18·3	164·3	36·7	21·7	321·8
	1950	1954	1948	1954	1942	1961	1954	1952	1940	1947	194	1944	1961	1931	1936	1942	1931	1936	1929	1946	1941
Balangir	32·3	8·6	9·4	35·6	10·0	5 ·2	43·9	15·5	17·8	43·8	17·9	33·2	45·3	24·9	19·6	44·9	21·5	68·6	37·2	21·0	325·8
	1958	1960	1959	1960	1961	1961	1959	1958	1960	1958	1961	1961	1960	1961	1958	1958	1961	1961	1958	1958	1958
Phulbani	30·3	3·1	13·6	33·9	4·9	49·8	37·8	10·2	13·4	41·8	13·9	10·0	42·7	21·3	53·0	41·8	20·2	55·0	32·8	20·4	72·8
	1960	1960	1961	1960	1960	1961	1961	1960	1960	1961	1960	1961	1960	1960	1961	1960	1961	1961	1961	1960	1960
Titlagarh	31·7	6·1	27·4	36·1	10·0	30·0	4[illegible]·2	13·9	26·7	45·0	16·7	23·1	46·7	21·1	76·7	47·2	21·7	03·9	37·2	21·1	55·3
	1957	1954	1953	1960	1956	1961	1955	195	1954	1956	1960	1958	1956	1951	1956	1955	1961	1955	1952	1958	1958
Bhubaneswar	33·6	9·4	35·6	37·2	10·6	52·6	40·7	6·1	28·2	45·9	19·4	4·3	44·9	15·0	94·5	45·0	21·7	91·4	36·1	20·4	44·4
	1958	1952	1953	1953	1956	1958	1950	195	1960	1951	1952	95	1958	1960	1955	1952	1955	1954	1952	1960	195[illegible]
Puri	32·8	10·6	53·1	35·0	11·7	07·9	38·9	15·6	57·9	41·1	18·9	8[illegible]·0	42·2	16·7	71·7	39·4	19·4	200·4	36·7	21·7	301·5
	1946	1893	1921	1954	1955	1897	1899	19[illegible]6	1919	1947	1946	1919	1943	1893	1893	1949	1908	1895	1938	1944	1918
Gopalpur	32·8	10·0	47·2	36·7	11·7	34·4	40·0	15·6	55·8	38·9	19·4	55·1	43·3	20·0	126·5	41·9	21·1	171·7	38·3	20·6	200·9
	1946	1899	1908	1954	1934	1937	1956	1915	1957	1940	1955	1894	19[illegible]5	1948	1949	1958	1939	1914	1957	1929	1936
Koraput	29·4	6·1	53·3	31·7	6·7	10·2	36·1	10·6	15·6	38·3	15·0	53·9	38·9	16·9	38·9	40·0	13·3	234·6	31·1	16·1	232·7
	1958	1959	1953	1953	1956	1957	1953	1952	1954	1961	1956	1956	1956	1961	1951	1953	1961	1959	1960	1957	1951
Bihar Plateau																					
Dumka	31·2	4·4	75·7	6·1	5·0	77·5	42·2	8·3	70·6	45·0	15·0	47·0	46·7	17·2	106·2	46·7	20·0	70·9	40·6	21·1	46·3
	1958	1945	1957	1952	19[illegible]5	1949	1953	1906	1891	1951	1905	1946	1916	1934	1914	19[illegible]6	19[illegible]2	1927	1897	1948	1921
Daltonganj	32·2	0	77·2	35·6	0·6	50·5	42·8	5·6	36·8	45·0	11·7	38·6	46·7	17·8	62·2	46·7	11·9	74·0	43·3	19·4	90·8
	1902	..	1945	1914	1905	1908	1931	1898	1927	1898	1907	1914	1956	1932	1904	1897	1961	1907	1902	1928	1920
Hazaribagh	30·6	2·2	53·1	33·3	3·3	38·5	38·9	6·7	44·2	41·7	13·9	60·5	43·9	16·1	84·1	43·4	19·2	149·2	38·9	20·6	221·7
	1881	1933	1945	1896	1905	1922	1892	1898	1946	1956	1944	1925	1897	1878	1887	1958	1961	1911	1901	1940	1953
Dhanbad	31·1	8·7	17·3	3·9	8·3	49·7	39·5	13·3	16·3	43·4	19·7	27·9	45·1	20·0	28·4	45·9	21·9	96·2	36·7	21·6	76·2
	1958	1961	1957	960	1961	1961	1958	1957	1958	1960	1957	1958	1957	1961	1959	1958	1957	1961	1958	1957	1959
Ranchi	31·4	3·9	52·1	33·9	2·8	78·5	39·4	7·8	82·3	41·7	10·4	58·7	43·3	15·6	04·7	42·8	14·8	65·6	38·3	13·2	215·9
	1961	1946	1945	956	1950	1913	1955	1898	1891	1938	1960	1944	1948	1952	1914	1958	1957	1898	1902	1961	1896
Ranchi Aerodrom	27·7	5·0	31·7	33·3	6·1	43·8	36·9	10·4	44·7	41·0	15·8	49·5	42·8	19·1	54·6	42·3	19·9	76·4	34·0	20·8	178·8
	1958	1959	1959	1956	1961	1958	1959	1957	1956	1961	1959	1959	1956	1959	1959	1958	1959	1961	1958	1960	1958
Jamshedpur	31·2	6·7	11·0	35·6	8·9	55·6	41·7	11·7	33·8	44·4	17·2	2·3	44·9	21·7	31·3	45·6	21·7	214·1	36·7	23·1	187·5
	1961	1953	1957	1953	1961	1961	1955	1954	1951	1961	1955	1952	1961	1951	1961	1953	1956	1953	1958	1961	1952
Jamshedpur (P.B.O.)	31·8	6·7	15·0	36·1	8·9	52·0	42·2	11·7	33·8	44·4	18·2	32·3	45·9	20·4	8·1	46·6	21·8	108·5	36·8	21·7	8[illegible]·5
	1953	1955	1954	952	1961	1951	1955	1951	1951	1956	195[illegible]	1952	1958	1961	1955	1958	1961	1952	1958	1956	1952
Chaibasa	33·3	4·4	75·2	7·2	6·7	75·7	42·2	11·7	43·9	45·0	15·6	80·3	46·7	18·3	58·4	46·1	20·0	31·3	41·1	21·7	194·8
	1911	1934	1901	1911	1924	1906	1955	1927	1891	1941	1944	1946	1948	1938	1893	1958	1932	1919	1926	1943	1929
Bihar Plains																					
Motihari	28·3	2·2	54·6	35·6	0	66·0	40·0	5·6	55·4	42·2	8·9	67·3	44·4	15·0	104·1	43·3	19·4	234·2	42·8	19·0	254·8
	1902	1905	1900	1896	..	1889	1941	1945	1891	1954	1905	1899	1903	1952	1890	1935	1903	1919	1955	1959	1935
Forbesganj	30·4	2·2	40·4	33·3	6·0	42·6	39·0	9·4	19·4	42·8	12·8	24·6	42·9	16·4	121·4	42·1	20·6	106·0	37·4	21·7	196·9
	1961	1955	1957	1955	1961	1961	1958	1957	1960	1954	1955	1955	1958	1960	1954	1958	1955	1960	1960	1954	1956
Darbhanga	28·9	1·1	57·7	33·3	1·1	43·9	40·6	7·2	36·3	43·9	11·7	60·5	43·8	17·2	74·4	43·3	19·4	243·8	38·3	21·7	199·6
	1932	1933	1957	1943	1905	1949	1941	1906	1897	1922	1912	1899	1958	1948	1923	1931	1930	1883	1942	1945	1926
Muzaffarpur	..	..	25·4	..	..	8·9	..	..	53·3	..	..	30·5	..	..	55·9	..	..	99·1	..	..	129·5
	..	..	1961	..	..	1952	..	..	1960	..	..	1952	..	..	1961	..	..	1952	..	..	1957

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
37·2	21·7	320·8	36·7	21·7	249·2	38·9	16·7	292·6	35·0	10·6	195·6	33·3	8·9	54·9	1880	1881	**Orrisa** — (*Contd*) Cuttack.
1880	1943	1933	1901	1933	1891	1886	1926	1899	1896	1937	1950	1954	1922	1909			
35·3	22·2	194·3	35·6	21·7	320·8	35·6	17·8	169·7	33·9	11·7	207·8	32·8	8·3	49·5	1931	1931	Chandbali.
1961	1933	1960	1951	1959	1950	1951	1952	1952	1949	1959	1950	1949	1961	1947			
38.4	21·1	116·0	38·4	22.2	88·2	34·5	16·0	70·6	36·6	11·1	12·8	31·5	7·6	16·4	1958	1958	Bolangir.
1960	1958	1960	1960	1958	1959	1959	1960	1961	1960	1961	1959	1960	1961	1960			
31·7	21.9	44·1	33·3	21·4	106·5	32·3	12·8	27·1	30·1	5·6	3·8	29·7	1·7	6·4	1960	1960	Phulbani
1960	1960	1960	196[illegible]	1960	1961	1960	1960	1960	1960	1961	1961	1960	1961	1961			
36.2	21.7	130.8	35.0	21.7	147.1	37.3	15.0	59.7	33.3	10.6	26.7	31.7	7.9	4.0	1951	1951	Titlagarh
1961	1951	1955	1953	1961	1952	1959	1954	1951	1956	1952	1958	1959	1961	1960			
35·0	21·7	107·7	35·0	21·1	163·0	35·1	16·1	188·2	35·0	12·8	15·6	32·7	9·4	10·9	1952	1952	Bhubaneswar.
1952	1953	1954	1957	1961	1958	1957	1954	1954	1952	1953	1955	1957	1955	1954			
36·7	21·7	187·7	39·1	17·2	210·8	36·1	16·7	316·2	33·9	13·9	242·8	32·8	10·6	88·9	1891	1891	Puri.
1891	1898	1896	1961	1893	1934	1899	1901	1928	1914	1926	1915	1896	1895	1909			
37.2	19.4	229.9	36.7	20·6	196.9	36.3	16.7	281.7	33.5	12.2	261.6	32.2	10.0	105.7	1891	1881	Gopalpur.
1928	1911	1940	1920	1917	1886	1957	1897	1923	1957	1926	1923	1951	1902	1909			
30.6	15.6	143.5	30.0	16.7	110.8	30.6	10.6	98.3	28.9	8.3	43.7	27.8	3.9	16.8	1951	1951	Koraput.
1958	1957	1957	1960	1957	1959	1957	1954	1958	1959	1961	1951	1960	1961	1952			
37.2	21·1	191.5	36.7	20.0	266.9	36.1	13·3	158.7	35.0	6.7	115.1	30·6	5.0	35·6	1891	1886	**Bihar Plateau** Dumka.
1938	1948	1888	1938	1956	1935	1957	1954	1890	1896	1934	1930	1954	1935	1913			
37.2	20.6	193.0	38.9	17.2	187.5	37.2	10.0	75.2	33.9	5.0	74.9	31.4	1.7	41.9	1896	1896	Daltonganj.
1903	1916	1907	1958	1899	1946	1899	1921	1937	1918	1912	1924	1960	1930	1940			
33.7	20.0	180.1	33.3	17.8	147.1	33.3	11.1	120.4	31.7	4.4	95.0	29.4	0.5	39.4	1878	1881	Hazaribagh.
1957	1942	1888	1960	1950	1898	1957	1934	1917	1896	1879	1924	1950	1961	1885			
35.6	22.7	81.0	35·1	22.2	82.6	34.9	16.8	110.8	32.2	11.8	2·1	30.0	4.1	0	1957	1957	Dhanbad.
1957	1958	1959	1958	1957	1958	1957	1961	1959	1957	1961	1961	1957	1961	..			
33.4	13.2	147.3	35.6	14.9	152.9	35.1	7.1	231.1	32.2	5.6	79.5	30.[illegible]	4.4	32.3	1891	1891	Ranchi.
1961	1961	1945	1944	1961	1893	1957	1961	1941	1896	1949	1930	1960	1955	1928			
32.0	20.8	120.0	32.0	19.4	113.6	31.9	14.1	111.0	28.6	9.2	7.4	27.9	4.8	7.6	1956	1956	Ranchi (Aerodrome).
1958	1958	1960	1957	1957	1957	1957	1961	1959	1957	1961	1956	1960	1961	1956			
35.6	23.3	169.2	35.6	21.1	160.4	35.6	15.0	115·4	32.7	8.9	69.1	31.1	5.7	12·5	1951	1951	Jamshedpur.
1957	1955	1953	1953	1956	1958	1951	1954	1959	1959	1952	1953	1954	1961	1956			
35.1	22.0	92.5	35.1	20.6	129.1	35.6	15.0	54.4	32.3	8.9	28.5	31.3	5.4	12.7	1951	1951	Jamshedpur (P. B. O.).
1957	1959	1951	1958	1956	1957	1951	1957	1955	1959	1952	1951	1957	1961	1956			
37.2	21.1	200.7	36.7	21.1	155.5	36.6	13.9	214.6	33.9	7.8	82.0	31.1	5.0	38.1	1911	1891	Chaibasa.
1947	1913	1941	1911	1950	1953	1957	1954	1912	1937	1934	1941	1960	1913	1907			
37.2	21.7	203.2	37.2	20.0	214.6	36.1	12.8	158.2	35.6	7.2	50·0	28.9	1.7	33.8	1884	1886	**Bihar Plains** Motihari.
1953	1884	1915	1953	1890	1898	1954	1895	1893	1955	1949	1932	1955	1896	1932			
39.0	21.4	133.6	37.3	20.6	2 8.6	35.8	12.8	110.0	34.0	9.4	32·0	31.1	5.6	6.0	1954	1954	Forbesganj.
1957	1960	1955	1961	1955	1960	1960	1957	1961	1958	1954	1956	1955	1961	1961			
37.5	21.1	264.4	38.3	19.4	266.7	38·7	14.4	214.9	33.0	7.2	49.0	36.6	4.4	25.1	1881	1881	Darbhanga.
1957	1912	1913	1961	1896	1925	1961	1914	1961	1943	1926	1912	1960	1908	1929			
..	..	193.5	..	..	99.1	..	..	54.6	..	..	8.9	..	..	11.2	..	1951	Muzaffarpur.
	..	1957	..	..	1960	..	..	1953	..	..	1952	..	..	1961			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. .. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Bihar Plains—(*Contd.*)																					
Chapra	27·7	6·2	50·4	33·2	6·4	15·0	40·8	12·2	18·3	43·9	15·4	17·0	45·4	20·1	27·9	44·8	20·4	135·4	39·5	20·2	120·9
	1961	1961	1959	1960	1961	1951	1969	1961	1960	1961	1960	1953	1960	1961	1953	1969	1960	1952	1966	1960	1952
Purnea	28·9	1·7	86·4	34·4	1·7	59·7	40·6	6·7	40·6	43·3	11·7	114·3	43·9	15·6	220·5	42·8	17·8	268·2	36·7	21·1	264·2
	1902	1955	1957	1896	1891	1882	1941	1927	1850	1891	1905	1925	1916	1885	1887	1958	1906	1881	1942	1921	1916
Patna	29·2	2·8	57·4	34·4	2·2	40·6	40·6	7·8	53·1	43·3	14·4	46·7	45·6	17·2	109·2	46·1	20·0	350·5	41·7	21·1	177·8
	1961	1933	1957	1896	1905	1949	1941	1906	1881	1956	1905	1893	1941	1932	1887	1931	1912	1897	1903	1931	1893
Patna (Aerodrome)	28·8	3·9	51·8	34·4	6·1	12·7	40·0	10·4	36·0	43·3	15·1	32·8	45·4	17·8	32·0	45·6	21·1	9[illegible]·4	39·7	21·1	130·6
	1958	1956	1957	1952	1951	1954	1955	1957	1959	1956	1959	1953	1958	1954	1959	1953	1952	1953	1958	1960	1957
Arrah	..	..	103·1	..	..	20·1	..	..	76·5	..	...	69·9	..	..	123·0	..	..	105·4	..	..	107·9
	..	..	1957	..	..	1954	..	..	1957	..	..	1953	..	..	1959	..	..	1953	..	..	1955
Bhagalpur	29·4	6·7	91·2	33·3	8·9	9·0	40·0	12·1	16·7	43·9	13·3	36·0	44·4	16·1	70·3	43·9	21·1	94·5	38·3	22·8	82·3
	1958	1956	1957	1956	1951	1961	1954	1957	1960	1956	1955	1959	1951	1955	1960	1953	1957	1952	1961	1956	1956
Sabour	29·0	0·6	99·6	33·3	2·8	41·7	41·1	3·9	34·3	43·3	13·3	47·5	45·1	16·1	58·6	46·1	19·4	170·2	37·8	22·8	145·0
	1958	1934	1957	1949	1950	1942	1941	1945	1940	1960	1957	1942	1958	1934	1959	1931	1934	1950	1958	1956	1934
Jamui	30·7	5·0	52·0	35·0	6·3	18·4	40·3	10·1	24·4	44·4	16·1	21·8	45·8	19·1	62·7	45·6	13·3	68·6	39·9	10·5	122·4
	1958	1955	1959	1952	1961	1961	1960	1957	1952	1956	1958	1953	1958	1961	1952	1958	1959	1956	1958	1959	1951
Dehri	30·6	6·1	30·0	34·4	7·9	17·0	41·1	12·2	30·4	44·4	17·2	27·9	46·7	19·4	54·0	46·1	20·6	226·0	41·4	22·2	164·4
	1958	1956	1959	1952	1960	1952	1953	1957	1966	1956	1955	1951	1951	1960	1959	1960	1961	1961	1958	1951	1959
Gaya	31·7	3·3	66·0	35·6	3·9	49·8	41·7	8·3	37·6	45·6	14·4	11·4	46·7	17·2	54·1	47·2	18·3	229·6	43·3	16·7	209·8
	1939	1955	1901	1896	1950	1889	1941	1945	1891	1938	1886	1933	1918	1893	19[illegible]4	1931	1913	1883	1926	1886	1886
Uttar Pradesh (East)																					
Kheri	27·8	2·8	49·8	32·8	5·1	62·6	39·4	9·7	19·8	47·6	15·0	4·6	45·4	16·7	46·7	46·1	17·3	102·6	47·7	22·2	235·8
	1958	1955	1954	1960	1957	1961	1953	1958	1957	1961	1951	1952	1960	1958	1956	1958	1958	1961	1969	1954	1961
Bahraich	28·9	0·6	57·7	34·4	0·6	49·5	40·6	5·6	50·5	44·4	11·1	61·0	45·6	15·6	88·9	46·7	18·3	269·5	44·4	20·6	186·2
	1946	1936	1953	1952	1905	1905	1941	1945	1914	1954	1943	1909	1953	1944	1938	1958	1914	1929	1902	1900	1905
Nautanwa	28·0	2·8	33·0	31·7	5·2	15·7	38·9	9·0	17·8	43·3	12·9	30·8	44·8	16·6	83·8	44·4	20·1	182·6	42·1	22·2	154·9
	1958	1955	1957	1956	1957	1956	1955	1959	1960	1956	1969	1959	1958	1960	1956	1958	1960	1955	1957	1957	1955
Hardoi	28·9	2·8	54·9	32·8	5·0	35·1	38·9	9·4	40·6	43·9	13·9	6·3	45·3	19·3	26·9	48·3	20·6	134·1	41·7	22·8	153·9
	1952	1955	1957	1952	1951	1954	1953	1958	1957	1961	1955	1951	1958	1960	1956	1951	1954	1952	1951	1955	1953
Gonda	28·9	1·1	52·6	33·3	3·3	41·4	41·1	5·6	40·4	44·4	13·9	71·4	49·9	16·9	104·1	46·7	16·7	12[illegible]·8	41·7	20·0	215·4
	1946	1933	1953	1952	1934	1935	1941	1945	1944	1938	1955	1933	1958	1960	1956	1942	1936	1938	1957	1949	1955
Lucknow	30·6	1·1	95·3	35·0	1·7	61·5	41·7	7·2	28·2	45·6	12·8	129·5	47·2	17·8	103·4	48·3	19·4	229·4	45·6	21·7	311·7
	1943	1946	1883	1921	1905	1928	1945	1945	1940	1898	1903	1909	1944	1886	1891	1901	1886	1886	1903	1950	1947
Lucknow (Amausi)	28·3	0·6	42·3	33·3	4·4	22·1	39·4	6·1	25·4	43·3	12·8	1·8	45·0	19·3	57·0	45·6	21·1	1[illegible]9·1	41·7	22·8	272·4
	1952	1955	1959	1960	1957	1954	1955	1954	1952	1954	1953	1960	1956	1958	1959	1963	1957	1958	1954	1953	1960
Faizabad	26·8	3·4	13·0	33·1	3·9	4.6	37·6	9.7	16·7	42·5	14·3	4·0	43·5	17·7	44·0	44·0	22·1	47·5	37·1	22·2	88·2
	1961	1961	1961	1960	1961	1961	1960	1961	1960	1959	1960	1959	1959	1961	1959	1960	1961	1960	1959	1960	1961
Gorakhpur	30·0	1·7	72·4	36·1	2·8	33·0	41·7	8·3	47·2	43·9	12·2	67·3	48·3	16·7	110·2	46·5	16·1	208·5	40·6	18·9	189·5
	1937	1933	1883	1896	1905	1949	1941	1927	1891	1956	19[illegible]5	1887	1958	1937	1956	1958	1949	1932	1926	1953	1937
Kanpur	31·1	1·7	48·5	35·6	0·6	59·2	42·8	7·2	61·7	45·6	11·1	25·9	47.2	17·8	67·8	47·2	20·6	133·3	45·0	21·7	167·6
	1939	1950	1893	1930	1905	1942	1941	1945	1944	1938	19[illegible]5	1928	1941	1909	1959	1931	1922	1916	1903	1948	1924

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Bihar Plains—(*Contd.*)
39·2	23·7	138.9	36·6	23·8	179·3	34·8	16·4	86.0	31·5	10·5	44.7	27.4	5·1	13.2	1960	1951	Chapra.
1960	1960	1952	1960	1960	1960	1960	1960	1961	1960	1960	1956	1960	1961	1956			
37.3	21.7	239.3	37.2	19.4	318.5	35.6	10.0	158.0	32.8	7.2	114.8	30.6	3.3	53.3	1881	1881	Purnea.
1957	1909	1918	1923	1890	1898	1957	1891	1929	1952	1883	1932	1953	1883	1913			
38.3	21.7	165.3	37.8	20.0	366.0	36.1	15.0	158.2	33.9	8.3	63.7	30.6	5.6	73.7	1881	1881	Patna.
1903	1923	1914	1928	1890	1918	1932	1954	1894	1952	1934	1915	1951	1961	1929			
36.1	21.4	127.3	37.2	22.2	109.2	35.6	12.2	89.3	33.3	7.8	35.6	30.6	2.2	19.6	1951	1951	Patna (Aerodrome).
1957	1959	1959	1951	1957	1953	1951	1954	1959	1952	1952	1956	1951	1961	1957			
..	..	127.0	..	..	132.0	..	..	59.0	..	..	51.3	..	..	3.1	..	1951	Arrah.
..	..	1953	..	..	1960	..	..	1958	..	..	1956	..	..	1956			
38.5	21.7	123.7	37.2	21.7	179.8	36.3	16.1	169.9	34.4	11.1	37.1	30.6	5.2	8.4	1951	1951	Bhagalpur.
1957	1957	1955	1956	1953	1960	1957	1954	1961	1952	1952	1956	1951	1961	1954			
37.4	22.8	107.0	37.8	21.7	160.0	35.6	13.3	185.2	33.4	6.1	37.3	29.4	2.2	7.9	1931	1931	Sabour.
1957	1933	1961	1933	1956	1960	1957	1954	1961	1957	1934	1956	1955	1961	1936			
36.7	11.7	168.8	36.1	11.3	180.6	35.6	8.6	205.8	33.8	8.3	22.9	29.4	5.1	4.8	1951	1951	Jamui.
1957	1959	1960	1951	1959	1960	1951	1959	1961	1957	1952	1956	1954	1961	1961			
35.0	23.3	107.2	35.6	22.8	78.0	35.6	14.7	42.0	33.9	9.4	64.0	31.7	1.6	12.2	1951	1951	Dehri.
1960	1953	1958	1951	1956	1961	1951	1957	1959	1951	1952	1956	1952	1961	1961			
38.9	21.7	258.6	38.3	20.6	200.4	37.2	12.8	116.6	35.0	8.2	81.8	31.1	1.4	49.0	1881	1881	Gaya.
1935	1934	1942	1928	1890	1946	1918	1954	1894	1896	1960	1924	1929	1961	1885			
																	Uttar Pradesh (East)
36·7	22·2	131·1	36·1	18·9	187·6	35·0	12·8	167·6	35·3	6·1	5·3	28·8	4·4	14·2	1950	1950	Kheri.
1952	1957	1957	1956	1950	1960	1953	1954	1960	1957	1952	1951	1960	1950	1950			
38·3	21·1	325·9	38·3	18·3	236·2	37·8	12·2	171·5	33·3	5·0	78·0	31·7	1·7	81·0	1896	1896	Bahraich.
1903	1956	1938	1907	1912	1919	1907	1935	1915	1951	1952	1927	1896	1913	1956			
40.0	22.4	150.8	39.9	21.1	203.2	38.7	14.3	159.6	32.8	7.2	7.5	30.0	3.2	10·3	1954	1954	Nautanwa.
1956	1961	1958	1961	1954	1956	1961	1957	1958	1954	1954	1960	1953	1961	1961			
36·8	21·6	197·4	36·7	16.7	214·6	37·8	11·1	241·6	33·9	6·1	7·9	31·8	1·7	15·7	1950	1950	Hardoi.
1957	1958	1956	1951	1950	1960	1952	1954	1960	1951	1952	1951	1959	1961	1950			
37.2	16.7	306.6	37.8	18.9	174.2	37.2	12.2	145.0	33.9	5.6	32.5	28.9	2.8	29.5	1932	1932	Gonda.
1939	1956	1938	1932	1950	1953	1951	1957	1933	1940	1934	1932	1951	1954	1950			
38.9	21.2	177.8	39.4	17.8	250.2	40.0	11.1	128.4	35.0	5.0	48.3	33.3	1.7	50.5	1881	1881	Lucknow
1911	1958	1881	1920	1899	1915	1896	1895	1958	1951	1920	1927	1896	1902	1885			
36·9	22·2	121·9	40·1	19·7	148·6	37·2	10·6	191·4	33·9	3·9	4·8	29·1	0·6	12·0	1952	1952	Lucknow (Amausi)
1957	1956	1961	1958	1957	1957	1952	1957	1958	1952	1952	1956	1959	1961	1961			
35·5	22·3	107·1	35·8	21·0	66·0	35·6	12·9	97·2	31·6	6·7	0	28·4	2·9	15·0	1959	1959	Faizabad.
1959	1961	1960	1961	1960	1959	1959	1960	1959	1959	1960	..	1960	1961	1961			
37.2	21.1	284.5	37.8	17.8	239.5	36.7	12.8	218.7	33.9	6.7	55.9	29.4	2.8	28.7	1881	1881	Gorakhpur.
1953	1944	1912	1928	1912	1930	1938	1895	1894	1952	1953	1956	1951	1913	1929			
40·6	21·7	235·2	40·0	16·1	233·9	40·6	11·1	136·1	36·1	5·0	59·2	31·3	—0·9	40·6	1891	1891	Kanpur
1903	1948	1915	1932	1896	1915	1896	1895	1894	1940	1948	1911	1959	1961	1950			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A)—EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Uttar Pradesh (East) —(*Contd.*)																					
Kanpur (Aerodrome)	26·2	3·3	39·1	33·9	4·7	19·1	38·8	10·1	6·5	44·6	15·6	0·5	46·1	18·3	12·7	45·7	21·6	23·4	39·7	21·7	96·0
	1959	1959	1959	1960	1961	1959	1959	1961	1960	1961	1960	1959	1960	1960	1959	1960	1959	1959	1960	1960	1961
Sultanpur	27·3	4·9	31·5	33·4	6·3	5·8	37·9	11·1	10·7	43·4	15·9	0	44·5	21·1	28·4	45·6	22·2	21·2	38·9	23·3	120·5
	1961	1960	1959	1960	1961	1961	1959	1959	1960	1961	1959	..	1961	1959	1959	1960	1961	1959	1960	1960	1960
Azamgarh	28·9	3·1	38·9	35·0	2·9	37·6	43·3	10·4	28·7	44·4	14·8	14·2	45·6	18·0	30·0	47·9	20·2	81·5	41·1	21·1	186·7
	1952	1961	1957	1952	1961	1949	1949	1961	1958	1961	1960	1955	1953	1960	1959	1960	1961	1950	1954	1953	1955
Fatehpur	32·2	1·1	46·5	35·0	2·8	49·8	41·7	8·3	52·8	45·0	14·4	37·1	47·2	19·3	17·0	46·7	21·1	74·7	43·3	21·7	175·3
	1943	1935	1934	1956	1950	1942	1953	1935	1950	1961	1946	1935	1952	1960	1948	1955	1947	1955	1943	1949	1932
Ballia	28·8	3·9	43·6	33·4	5·0	5·8	39·0	8·9	33·0	44·5	13·9	11·4	45·7	20·5	42·0	45·5	21·1	99·8	42·2	20·7	75·4
	1961	1957	1959	1960	1957	1961	1960	1957	1960	1961	1957	1960	1958	1959	1959	1961	1959	1958	1959	1957	1959
Banda	32·2	2·8	24·6	35·6	3·3	36·8	41·1	9·8	20·1	45·0	16·1	9·4	47·8	19·2	29·0	47·2	21·7	80·5	43·3	21·7	167·7
	1958	1955	1955	1956	1950	1954	1953	1959	1950	1961	1955	1961	1950	1960	1951	1958	1957	1953	1949	1949	1951
Allahabad (Bamrauli)	31·1	2·2	70·9	36·1	1·1	51·3	41·7	7·2	34·5	45·0	12·8	26·4	47·2	17·2	35·6	47·8	19·4	176·0	45·6	22·2	209·3
	1934	1936	1900	1896	1905	1893	1931	1906	1958	1961	1905	1933	1922	1924	1917	1901	1930	1916	1901	1955	1920
Varanasi (Babatpur)	29·4	1·7	37·8	34·4	5·0	21·0	41·1	10·0	11·9	43·9	16·1	5·1	46·2	19·2	26·8	46·1	21·6	75·7	40·6	22·1	166·4
	1958	1955	1959	1952	1961	1954	1953	1954	1957	1961	1959	1957	1961	1960	1959	1953	1961	1955	1954	1957	1955
Varanasi	31·1	2·8	69·6	36·1	1·7	67·1	41·1	6·7	37·1	44·4	11·1	34·5	47·2	18·9	51·6	47·2	20·6	159·5	45·0	20·0	288·3
	1882	1955	1959	1884	1905	1949	1955	1906	1940	1951	1905	1928	1884	1926	1889	1901	1914	1890	1957	1919	1914
Uttar Pradesh (West)																					
Dehra Dun	26·1	—1·1	79·5	29·4	—1·1	106·2	37·2	—2·2	81·5	40·6	7·8	39·1	42·8	12·8	79·3	43·9	15·9	188·0	40·6	18·3	294·6
	1946	1945	1945	1956	1905	1919	1892	1945	1926	1892	1941	1898	1944	1947	1940	1902	1906	1925	1931	1902	1890
Roorkee	28·3	—1·1	101·6	31·7	—2·2	111·0	38·9	2·8	109·5	43·3	7·2	38·3	46·1	14·4	57·7	46·7	16·1	148·8	45·0	21·1	228·9
	1898	1935	1883	1956	1905	1930	1945	1945	1955	1897	1905	1949	1884	1907	1910	1932	1900	1906	1931	1955	1889
Najibabad	27·0	0·6	48·0	32·8	2·2	48·3	36·7	2·2	37·1	40·9	10·7	17·8	43·4	15·6	30·5	45·2	18·3	89·5	41·6	21·7	188·0
	1961	1955	1953	1956	1958	1954	1953	1952	1942	1961	1960	1953	1957	1960	1956	1960	1954	1958	1957	1961	1958
Meerut	27·2	1·7	34·0	31·1	2·8	56·4	37·8	8·3	54·6	43·1	12·2	30·5	45·0	17·3	19·0	45·0	19·4	40·0	42·8	22·2	146·1
	1952	1951	1959	1960	1950	1949	1955	1954	1951	1958	1960	1946	1954	1960	1961	1958	1951	1961	1949	1961	1953
Bareilly	29·4	0·6	61·0	32·8	0	95·3	40·0	5·0	79·3	43·9	11·1	38·1	46·7	16·1	40·1	46·1	19·4	218·4	43·9	20·0	251·2
	1943	1905	1921	1884	..	1915	1945	1945	1926	1952	1905	1909	1884	1898	1956	1948	1912	1908	1903	1931	1882
Aligarh	30·6	0·6	40·6	32·9	1·7	45·0	41·7	3·9	26·3	44·4	10·9	30·5	46·1	17·8	39.4	46·3	18·6	114·3	43·9	20·6	164·6
	1946	1935	1944	1960	1950	1954	1945	1945	1960	1948	1957	19 3	1954	1957	1941	1958	1957	1933	1948	1957	1942
Mainpuri	30·6	—1·7	31·5	34·4	—0·6	60·2	41·7	5·0	33·3	45·6	11·1	29·7	47·8	15·6	41·4	49·2	18·9	19[illegible]·0	45·6	18·3	135·9
	1946	1927	1929	1922	1905	1898	1945	1945	1957	1918	190[illegible]	1914	1943	1955	1960	1961	1949	1952	1903	1934	1927
Agra	31·1	—2·2	49·5	35·6	—1·7	51·8	42·8	5·6	41·3	45·0	11·7	32·5	47·2	16·7	32·3	48·3	19·4	97·3	45·6	21·1	152·7
	1946	1935	1957	1897	1929	1915	1892	1945	1960	1941	1940	1944	1943	1926	1926	1889	1922	1886	1919	1951	1886
Agra (Aerodrome)	27·9	1·4	13·7	33·8	2·7	11·8	38·3	8·8	35·5	43·1	14·3	0·8	45·4	18·6	26·0	46·0	24·2	21·0	40·8	24·3	50·0
	1960	1959	1961	1960	1961	1961	1959	1960	1960	1961	1959	1960	1960	1960	1960	1960	1961	1961	1961	1959	1961
Orai	30·0	2·2	35·0	34·4	2·2	22·9	41·1	8·9	22·1	44·1	12·2	5·3	46·7	19·4	37·0	46·7	15·6	234·9	43·9	20·6	110·0
	1952	1959	1961	1960	1951	1954	1955	1957	1951	1958	1954	1952	1954	1951	1959	1955	1957	1952	1951	1950	1953
Jhansi	33·3	1·7	83·0	37·8	0·6	36·8	43·3	7·2	42·2	45·6	14·4	18·3	47·2	20.0	40·6	47·8	20·6	162·3	45·6	21·7	239·5
	1946	1935	1959	1930	1929	1944	1892	1945	1950	1958	1935	1933	1947	1947	1943	1924	1922	1942	1900	1958	1927

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Uttar Pradesh (East—*Contd.*)
35·7	23·7	64 2	36·7	21 5	58·4	36·1	14·7	117·9	34·2	7·4	2·5	30·3	—1·4	10·2	1959	1959	Kanpur (Aerodrome)
1960	1961	1959	1960	1959	1959	1959	1960	1961	1959	1960	1959	1959	1961	1961			
35.7	23.8	99.4	36.2	20.7	82.4	35·1	15.0	2 7.4	32.9	8.8	0	28.9	3.3	21·8	1959	1959	Sultanpur.
1959	1961	1960	1960	1959	1961	1960	1960	1961	1959	1960	..	1960	1961	1961			
36.7	21.6	130.6	38.3	18.9	210.8	37.8	12.3	81.0	36.1	6.2	40.9	31.1	0.9	12.5	1949	1949	Azamgarh.
1957	1961	1953	1951	1950	1956	1951	1960	1958	1951	1960	1956	1954	1961	1950			
39.4	21.7	191.8	38.3	19.4	125.0	38.9	12.8	111.0	35.6	6.1	12.2	31.1	1.9	39.4	1932	1932	Fatehpur.
1945	1953	1953	1932	1944	1939	1951	1952	1960	1944	1937	1936	1946	1961	1950			
37.0	20.7	149.1	36.1	19.6	70.8	36.1	10.4	137.2	34.0	5.8	0	29.9	4.8	6.6	1957	1957	Ballia.
1960	1957	1958	1959	1957	1961	1957	1957	1961	1961	1957	..	1958	1961	1961			
37·2	21·7	164·4	37·8	20·9	109·7	38·3	13·2	109·6	37·8	7·7	61·0	31·1	0·8	34·8	1949	1949	Banda.
1957	1957	1961	1951	1957	1954	1957	1957	1960	1951	1960	1956	1959	1961	1950			
40.0	21.1	335.3	39.4	18.3	266.2	40.6	11.7	163.3	35.6	5.6	96.0	31.1	—0.7	54.6	1881	1881	Allahabad (Bamrauli).
1903	1953	1953	1928	1912	1938	1896	1898	1894	1918	1941	1956	1946	1961	1886			
36.4	23.3	103.1	36.1	22.0	111.4	35.6	12.8	36.4	33.3	6.1	140.5	28.9	2.7	11.9	1952	1952	Varanasi (Babatpur)
1957	1961	1961	1960	1958	1959	1952	1954	1959	1952	1952	1956	1954	1961	1953			
40.0	22.2	321.6	38.3	17.8	349.5	39.4	11.7	138.9	35.6	6.7	74.9	32.8	2.2	53.1	1881	1881	Varanasi
1903	1955	1940	1938	1912	1943	1896	1919	1900	1941	1926	1927	1956	1913	1929			
																	Uttar Pradesh (West)
37·2	19·4	332·2	34·4	14·4	212·6	36·1	9·3	137·4	30·6	2·8	78·7	27·2	0	108·5	1881	1881	Debra Dun.
1949	1932	1951	1938	1940	1924	1907	1961	1956	1952	1938	1911	1960	..	1923			
39·8	20·6	192·8	38·3	15·6	266·7	38·3	8·9	231·7	33·9	2·8	58·2	28·3	—0·6	58·2	1881	1881	Roorkee.
1960	1914	1889	1899	1944	1888	1899	1953	1956	1952	1934	1911	1889	1902	1923			
36·7	20·9	130·0	35·6	18·3	175·3	35·0	10·0	160·5	33·9	3·3	11·4	29·7	—0·6	44·2	1952	1952	Najibabad.
1956	1957	1961	1956	1957	1957	1953	1954	1956	1952	1956	1956	1960	1956	1961			
38·3	21·7	168·0	37·8	19·4	143·3	37·8	11·1	113·0	33·3	5·6	12·5	29·1	0·2	23·0	1945	1945	Meerut.
1954	1956	1958	1951	1950	1955	1951	1961	1954	1952	1960	1951	1959	1961	1961			
40·6	21·1	224·8	38·3	16·7	206·8	38·3	8·9	179·6	36·1	5·6	63·0	30·0	1·7	37·6	1881	1881	Bareilly.
1918	1916	1961	1932	1899	1912	1918	1887	1884	1920	1934	1904	1960	1930	1923			
43·6	20·1	155·7	40·0	18·9	161·8	41·7	11·7	138·7	36·1	5·0	14·0	32·8	2·2	17·3	1932	1932	Aligarh.
1941	1957	1957	1938	1935	1947	1952	1949	1955	1944	1937	1959	1948	1945	1935			
42·2	21·7	256·3	40·6	16·7	186·4	40·6	10.6	237·2	36·1	2·2	31·7	31·1	—1·1	59·2	1896	1896	Mainpuri
1918	1947	1949	1905	1942	1931	1896	1932	1960	1948	1926	1927	1959	1926	1923			
42·2	20·8	149·9	40·6	17·2	286·0	41·1	9·4	169·7	36·1	2·8	45·7	30·0	—0·6	26·7	1881	1881	Agra
1918	1957	1952	1920	1935	1939	1920	1939	1910	1909	1926	1911	1954	1926	1923			
35·7	21·7	119·8	38·1	21·1	25·8	37·2	12·9	18·2	33·5	5·9	8·6	29·2	0	4·3	1959	1959	Agra (Aerodrome)
1959	1961	1959	1961	1959	1959	1960	1960	1960	1959	1960	1959	1959	1961	1960			
37·8	20·0	232·4	37·8	17·8	76·2	38·3	11·1	220·4	34·4	4·4	8·1	30·6	—1·7	45·0	1950	1950	Orai
1957	1950	1957	1951	1950	1957	1951	1957	1960	1959	1950	1951	1954	1961	1950			
42·2	18·3	249·7	40·6	18·3	261·6	40·6	11·7	119·6	36·1	5·0	62·2	32·8	0·3	24·4	1881	1881	Jhansi
1911	1960	1930	1913	1942	1910	1913	1916	1903	1941	1938	1927	1940	1961	1924			

R=Heaviest Rainfall in 24 hours ending at 0830hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Punjab (India) (Including Delhi)—																					
Pathankot . .	23·6	1·8	38·8	28·9	3·3	32·8	35·0	6·8	18·0	42·2	10·0	15.1	43·7	14.6	50·8	46·1	19·0	52·3	40·6	21·1	244·6
	1961	1960	1961	1960	1959	1961	1958	1960	1958	1958	1959	1958	1960	1960	1959	1960	1961	1961	1960	1959	1960
Amritsar (Rajasansi)	25.0	—1·7	43·4	32·2	—0·6	25·9	35·6	3·9	39 4	43·3	6·9	15·2	46·1	12·9	24.6	46·7	15·6	39·6	45·6	20·6	146·3
	1952	1955	1961	1953	1958	1950	1953	1954	1951	1958	1960	1951	1951	1960	1951	1953	1958	1958	1954	1955	1948
Adampur (Aerodrome)	28·1	0·3	21·1	33·9	1·8	40·5	33·9	4·9	29·0	40·2	9·4	2·3	45·0	15·6	21·6	45·5	20·3	33·0	41·6	21·5	94·5
	1960	1959	1959	1960	1959	1959	1960	1959	1960	1960	1959	1959	1960	1959	1959	1960	1959	1959	1960	1959	1959
Ludhiana . .	28·9	—1·7	119·6	33·3	—1·1	71·9	41·1	3·9	89·9	46·1	8·9	55·9	43·3	15·6	31·2	47·9	18·3	108·7	47·8	16·1	163·1
	1910	1935	1911	1956	1905	1942	1945	1945	1951	1941	1905	1944	1944	1924	1913	1958	1952	1894	1881	1901	1893
Ferozepur . .	27·2	—2·5	45·2	33·3	0·6	29·0	37·2	5·0	55·1	44·9	10·3	15 0	47·2	13.9	29·0	45·7	15·5	93·6	45·1	21·0	119·6
	1952	1959	1957	1953	1951	1954	1955	1951	1957	1958	1960	1955	1954	1960	1951	1954	1958	1960	1957	1961	1951
Halwara (Aerodrome)	25·6	0	61·7	29·1	1·4	14·2	33·3	5·3	5·6	40·0	7·9	6·8	43·8	13·4	43·2	45·6	20·3	30·5	40·7	21·1	107·7
	1961	1961	1961	1960	1960	1961	1959	1960	1960	1961	1960	1961	1960	1960	1959	1960	1960	1959	1960	1960	1959
Chandigarh . .	26·3	0	68·4	32·8	0	42·4	35·6	6·1	38·9	41·2	11·2	21·8	43·3	15·0	17·8	45·3	17·8	57·4	41·6	18·3	112·1
	1961	1956	1961	1954	1961	1954	1958	1956	1956	1958	1959	1957	1954	1955	1959	1958	1956	1959	1957	1956	1961
Ambala	28·9	—1·1	104·9	33·3	—0·6	146·8	41·7	3·6	103·9	45 0	10 0	82·0	47·8	14·4	85·1	47·8	19·4	105·9	46·7	19·4	162·3
	1946	1947	1953	1956	1905	1893	1945	1945	1956	1941	1944	19·5	1944	1920	1913	1923	1939	1954	1903	1956	1945
Ambala (Aerodrome)	25·6	0·8	117·1	30·6	3·3	64·2	35·9	7·8	27·0	40·3	11·4	7·5	44·1	17·2	15·2	45·8	2[illegible]·0	64·2	38·4	22·2	162·8
	1961	1961	1961	1960	1961	1961	1959	1961	1959	1959	1959	1961	1960	1960	1959	1960	1960	1959	1961	1959	1961
Patiala . . .	27·8	0·6	52·0	33·3	1·7	59·2	37·8	6 7	2[illegible]·4	42·8	12·8	11·4	46·7	17·2	16·8	46·1	1[illegible]·4	71·4	45·0	22·2	238·0
	1952	1951	1961	1956	1950	1949	1953	1957	1951	1958	1951	1957	1954	1955	1950	1955	1952	1960	1951	1959	1949
Bhatinda . .	26·2	2·0	9·0	31·8	2·2	11·0	34·6	5·6	15·5	41·8	10·5	8·3	44·8	15·8	21·6	45·7	22·8	41·0	41·8	23·9	43·0
	1961	1961	1961	1960	1960	1961	1961	1961	1960	1961	1960	1961	1960	1960	1960	1960	1961	1960	1961	1960	1961
Karnal . .	27·2	1·7	52·0	31·7	2·2	45·7	36·7	7·0	33·5	42·8	11·2	26·4	45·0	16·8	21·1	45·6	1[illegible]·0	68·6	43·9	20·6	131·1
	1952	1955	1961	1960	1959	1954	1953	1957	1956	1952	1957	1955	1952	1960	1951	1958	1960	1954	1959	1955	1950
Hissar . . .	30·6	3·9	58·4	34·4	—2·2	46·0	45·6	2·8	39·4	47·9	8·3	22·6	48·3	14·4	41·1	47·8	1[illegible]·8	69·1	47·2	20·6	104·1
	1952	1929	1948	1956	1929	1937	1945	1945	1927	1958	1918	1944	1944	1948	1916	1954	1922	1939	1947	1952	1923
New Delhi (Safadarjung)	29·4	—0·6	116·8	33·3	1·7	104·1	41·1	4·4	62·2	45·6	11·7	40·9	47·2	18·3	30·5	46·7	18·9	235·5	45·0	21·7	266·2
	1946	1935	1885	1934	1950	1942	1945	1945	1915	1941	1940	1939	1944	1952	1885	1945	1932	1936	1931	1943	1958
Palam . .	26·3	0	29·9	32·8	2·2	12·0	37·2	7·5	12·0	43·4	11·7	1·5	46·1	16·6	15·9	45·7	21·7	65.0	40·3	21·8	45·8
	1961	1961	1959	1960	1961	1961	1959	1961	1960	1961	1960	196[illegible]	1960	1960	1961	1959	1960	1961	1959	1960	1959
Himachal Pradesh																					
Mandi . .	23·9	—2·8	76·0	27·8	0·2	43·2	32·3	4·3	38·3	38·9	6·7	26·7	40·7	9·9	24·6	42·7	15·3	63·5	39·4	16·1	41·8
	1956	1955	1961	1956	1957	1959	1959	1960	1955	1958	1955	1955	1960	1959	1959	1958	1958	1956	1954	1955	1961
Bilaspur . .	24·9	0·3	57·9	28·9	0·8	62·6	33·9	5·4	35·6	40·7	8·8	23·9	41·7	13·5	27·4	44·2	16·7	49·8	41·8	20·8	124·5
	1960	1960	1961	1960	1958	1961	1959	1961	1957	1958	1960	1957	1960	1958	1960	1958	1958	1957	1957	1961	1960
Jammu and Kashmir																					
Misgar . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Gilgit . . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Skardu . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dras .	5·0	—42·8	63·5	6·7	—43·3	105·4	10·0	—33·9	104·9	18·3	—25·0	65·8	25·0	—15·0	127·0	30·6	—10·0	60·0	33·9	0·6	36·8
	1907	1909	1943	1928	1911	1928	1903	1911	1930	1946	1905	1928	1910	1947	1958	1906	1947	1958	1905	1907	1901

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Punjab (India) (Including Delhi)—
35·9	20·9	239·4	35·9	18·8	120·4	35·0	11·4	46·3	30·6	5·7	18·3	27·2	1·9	32·2	1958	1958	Pathankot
1961	1958	1961	1960	1958	1959	1960	1960	1958	1960	1961	1959	1959	1961	1960			
40·0	19·3	79·8	40·6	17·2	122·4	38·3	8·3	190·5	32·2	—0·6	19·3	27·7	—2·8	21·2	1948	1948	Amritsar. (Rajasani)
1954	1957	1956	1949	1953	1954	1951	1953	1955	1952	1949	1951	1958	1950	1960			
37·5	22·2	81·2	36·6	20·4	48.8	37·1	12·0	59.3	32·7	8·8	0	26·8	7·7	0	1959	1959	Adampur (Aerodrome)
1960	1959	1960	1960	1960	1959	1960	1960	1959	1960	1960	..	1960	1960	..			
44·4	20·0	184·9	41·7	15·6	206·5	40·0	9·4	354·3	35·0	2·2	25·4	29·4	—1·1	60·5	1881	1881	Ludhiana
1884	1961	1887	1905	1940	1883	1941	1932	1955	1909	1937	1957	1944	1930	1894			
40·0	20·8	116·8	39·4	18·3	209·6	39·4	8·3	63·3	35·0	4·3	42·7	28·3	—1·7	44·5	1950	1950	Ferozepur
1958	1961	1953	1954	1953	1958	1952	1952	..	1951	1958	1951	1953	1950	1957			
37.7	21·0	90·2	38.2	18·3	35.6	37·8	10·6	19·9	31.1	3.0	17.0	27.2	—0.4	29·1	1959	1959	Holwara (Aerodrome)
1961	1961	1959	1960	1960	1959	1961	1960	1961	1959	1960	1959	1959	1961	1960			
37·6	18·9	105·2	37·3	17·2	234·9	37·0	9·4	63·7	33·4	4·4	24·8	27·9	1·1	32·0	1954	1954	Chandigarh
1961	1956	1959	1958	1955	1955	1960	1955	1955	1958	1957	1961	1958	1955	1960			
43·9	20·0	228·9	40·6	15·6	244·8	39·4	8·3	38·4	35·6	2·8	135·1	29·4	—0·6	47·5	1896	1896	Ambala
1918	1935	1896	1951	1912	1945	1941	1898	1916	1947	1926	1951	1914	1913	1924			
36·1	21·6	147·5	36·2	19·6	92·2	35·1	9·2	14·3	30·7	3·8	15·9	27·4	0·9	27·1	1959	1959	Ambala (Aero trome)
1960	1961	1960	1961	1960	1961	1961	1960	1961	1959	1960	1959	1960	1960	1960			
40·0	21·6	168·7	40·6	18·3	82·0	38·9	10·0	81·0	33·3	4·4	52·1	28·3	0·4	21·3	1948	1948	Patiala
1954	1957	1955	1951	1950	1957	1951	1948	1955	1952	1952	1951	1959	1961	1957			
40.7	20·6	114·5	39·6	20·6	53·2	38·7	11·2	18·3	31·8	3·9	0	25 4	0·2	19·2	1960	1960	Bhatinda
1960	1961	1961	1960	1960	1961	1961	1960	1961	1960	1960	..	1960	1960	1960			
40·6	18·4	167·6	38·3	6·7	117·6	39·3	11·1	130·3	34·4	5·6	23·0	27·8	0·5	23·6	1949	1949	Karnal
1952	1960	1952	1951	1949	1950	1957	1957	1956	1953	1953	1959	1959	1961	1958			
43·3	21·7	346·7	42·2	15·6	259·1	41·7	8·3	122·7	36·7	2·8	48·0	33·6	—1·1	38·1	1916	1916	Hissar
1918	1918	1926	1938	1923	1917	1951	1949	1917	1943	1926	1959	1960	1945	1924			
40·0	21·7	184·0	40·6	17·8	176·5	39·4	9·4	172·7	35·0	3·9	20·8	28·9	—1·1	53·3	1881	1881	New Delhi (Safadarjung)
1945	1961	1961	1938	1944	1904	1951	1937	1954	1943	1938	1925	1959	1945	1894			
36·8	21·8	136·8	36·8	19·3	29·0	39·6	12·2	34·7	33·4	2·8	35·0	28·3	1·7	4·3	1959	1959	Palam
1960	1961	1961	1960	1960	1961	1961	1960	1961	1959	1960	1959	1959	1961	1961			
																	Himachal Pradesh
34·2	16·6	271·1	33·9	13·8	98·6	32·3	6·7	74·7	29·5	2·5	26·4	25·6	—2·2	35·3	1945	1945	Mandi
1957	1957	1960	1956	1960	1960	1961	1954	1955	1958	1961	1957	1959	1954	1958			
35·4	19·6	92·4	35·4	16·1	103·4	34·3	8·6	62·4	30·3	3·0	34·8	26·5	0	40·2	1957	1957	Bilaspur
1957	1961	1961	1957	1957	1957	1960	1960	1961	1958	1960	1957	1959	1960	1960			
																	Jammu and Kashmir
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Misgar
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Gilgit
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Skarelu
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			
31·7	—2·2	40·0	29·4	—5·6	58·4	25·0	—20·0	88·9	15·0	—29·4	61·7	9·4	—45·0	81·5	1901	1901	Dras
1907	1913	1958	1906	1906	1928	1916	1937	1917	1902	1911	1946	1904	1910	1921			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T. .. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Jammu and Kashmir —(*contd.*)																					
Sonamarg	..	..	88·9	..	..	77·2	..	..	78·0	..	..	55·9	..	..	53·3	..	..	50·0	..	..	42·2
	..	..	1950	..	..	1951	..	..	1951	..	..	1953	..	..	1955	..	..	1960	..	..	1960
Leh	8.3	−28·5	24·4	12·8	−25·6	16·8	19·4	−19·4	16·0	23·9	−12·8	22·1	28·9	−4·4	22·3	33·9	−1·1	11·7	33·3	0·6	23·6
	1916	1899	1893	1953	1943	1903	1908	1903	1930	1941	1903	1896	1893	1886	1951	1882	1886	1892	1883	1929	1882
Srinagar	17·2	−14·4	147·8	20·6	−20·0	66·3	25·6	−5·6	70·1	31·1	0	65·3	35·6	2·8	52·8	37·2	7·2	65·8	38·3	10·6	79·0
	1902	1893	1930	1940	1895	1906	1931	1895	1920	1946	1920	1957	1936	1920	1931	1946	1935	1907	1946	1919	1959
Srinagar (Aerodrome)	11·2	−11·8	40·1	17·8	−9·9	36·4	20·8	−2.8	46·8	24·9	−0·8	48·2	28·8	5·1	23·6	32·7	9·7	21·1	34·6	12·8	58·4
	1961	1960	1961	1960	1959	1959	1959	1959	1960	1959	1960	1961	1960	1960	1959	1960	1959	1961	1961	1960	1959
Gulmarg	..	..	..	..	..	..	..	..	..	..	..	..	..	−1·7	..	29·4	−3·9	83·3	29·4	−2·8	236.2
	..	..	..	..	..	..	..	..	..	..	..	..	..	1955	..	1922	1935	1921	1918	1907	1959
Banihal†	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Jammu	26·7	0·6	94·7	31·7	1·1	110·7	37·2	4·4	88·9	43·9	10 0	66·0	46·1	15·0	33.0	47.2	18·3	1.4·8	45·0	16·1	279·2
	1926	1945	1932	1947	1929	1914	1945	1945	1915	1941	1918	1914	954	1914	1930	1953	1936	1953	1951	1951	1961
Jammu (Aerodrome)	23·7	3.6	56.4	26·9	2.2	35.6	32·0	6.8	15.8	38·9	12.1	14·5	41·9	17.4	5.1	42·9	20.0	17.5	39.4	21.8	335.3
	1961	1961	1959	1961	1961	1959	1961	1961	1959	1961	1959	1961	1961	1959	1961	1961	1961	1961	1961	1959	1961
Rajasthan (West)																					
Ganganagar	36·1	−2·2	35·1	35·0	−2·8	28·2	41·1	0·6	47·0	46·6	8·3	2·3	6·1	11·7	48·0	50·0	18·3	99·1	46·7	21·7	86·1
	1948	1945	1948	1953	1950	1948	1942	1945	1957	1958	1940	1944	1959	1945	1951	1934	1952	1938	1948	1952	1956
Anupgarh*																					
Mahajan*																					
Churu	29·2	−0·7	15·0	33·8	2·0	8·2	39·0	6·2	13·8	45·9	11·5	2·4	5·7	15·6	14·8	45·4	21·1	65·0	44·8	22·5	76·0
	1958	1960	1957	1960	1961	1961	1959	1960	1957	1958	1957	1960	1959	1960	1960	1961	1957	1961	1957	1958	1957
Bikaner	31·1	−2·2	25·4	37·2	−2·2	46·7	42·8	−0·6	43·9	47·2	8·3	31·0	49·4	13·7	48·3	48·9	17·8	10·7	47·2	20·6	134·1
	1952	1954	1958	1953	1950	1906	1924	1898	1911	1925	1953	1944	1914	1969	1883	1897	1888	1894	1901	1931	1920
Nagaur	28·2	1·1	2·3	34·6	2·8	11·0	40·1	9·4	1·1	41·9	15·2	5·5	45·8	16·6	16·0	44·6	19·7	14·4	41·7	22·7	46·8
	1961	1960	1961	1960	1961	1961	1959	1960	1960	1961	1960	1959	1959	1960	1959	1961	1960	1960	1960	1959	1961
Phalodi	31·1	−3·3	41·1	37·8	0·6	23·4	42·8	1·7	12·9	47·0	12·2	5·1	47·2	19·4	33·8	46·7	20·6	84·8	45·6	22·2	105·2
	1946	1942	1944	1953	1951	1948	1961	1945	1948	1958	1953	1944	1956	1944	1953	1944	1945	1945	1947	1950	1948
Jaisalmer	30·7	−4·4	7.6	37 8	−2·2	8·4	41·6	6·0	8·9	43·9	10·6	20·8	47·8	17·0	16·0	45·8	20·5	135·4	45 0	21·7	98·0
	1961	1949	1957	1953	1951	1961	1958	1960	1955	1949	1953	1961	1956	1960	1951	1959	1957	1961	1951	1955	1954
Jodhpur	32·8	−2·2	40·1	38·3	−0·6	22·6	41·8	5·0	20·6	48·0	9·4	26·7	48·9	17·2	38·1	47·8	19·4	152·9	45·6	19·4	194·1
	1932	1905	1948	1953	1920	1939	1959	1908	1926	1958	1918	1919	1932	1909	1916	1901	1914	1917	1901	1926	1943
Barmer	33·3	−1·7	59·9	39·4	4·0	23·6	43·3	8·9	24·6	48·3	12·2	23·1	48·9	16·7	36·6	46·7	18·9	99·4	44·4	19·4	124·5
	1949	1935	1945	1943	1957	1939	1946	1945	1940	1958	1945	1933	1932	1931	1945	1946	1931	1961	1939	1936	1944
Munabau	..	..	0	35·5	..	10·4	40·0	..	0	46·0	..	27·8	45·0	..	0	..	..	..	..	..	..
	..	..	..	1961	..	1961	1961	..	..	1961	..	1961	1961	..	..	..	..	..	..	..	..

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.
*Data not available. †Observatory started from 1-8-1961.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Jammu and Kashmir—(*contd.*)
..	..	74·8	..	..	251·2	..	..	31·7	..	..	29·2	..	..	54·4	..	1948	Sonamarg
..	..	1960	..	..	1954	..	..	1949	..	..	1949	..	..	1950			
32·2	2·8	51·3	30·6	−4·4	25·9	25·6	−7·8	39·1	20·0	−13·9	16·2	12·8	−25·6	15·2	1881	1881	Leh
1946	1941	1933	1883	1940	1893	1916	1923	1955	1929	1934	1959	1891	1937	1944			
36·7	10·0	67·3	35·0	4·4	102·4	33·9	−1·7	59·9	23·9	−3·6	64·3	18·3	−11·7	64·5	1891	1891	Srinagar
1946	1932	1929	1934	1940	1928	1931	1934	1917	1946	1960	1959	1901	1902	1904			
33·4	13·9	33·8	32·7	8·1	19·8	28·3	1·9	11·7	19·4	−2·9	67·2	14·6	−5·8	29·7	1959	1959	Srinagar (Aerodrome)
1959	1961	1961	1960	1960	1959	1959	1960	1961	1960	1960	1959	1959	1960	1960			
26·7	2·8	115·3	25·0	−2·8	90·9	..	−5·6	..	..	..	..	..	..	..	1901	1901	Gulmarg
1922	1951	1929	1934	1940	1905	..	1957	..	..	..	..	..	..	..			
30·9	14·2	14·0	29·4	12·1	14·7	28·4	2·1	22·3	20·6	0·1	57·7	14·6	−6·2	48·3	1961	1961	Banihal†
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
41·7	17·8	228·6	38·3	15·0	184·1	37·2	12·2	160·0	32·5	6·4	40·1	27·2	3·3	66·8	1911	1911	Jammu
1918	1912	1926	1954	1950	1950	1951	1914	1955	1958	1960	1928	1944	1914	1924			
36·2	22·2	84·5	35·2	20·6	70·6	34·4	13·3	27·7	28·3	7·0	33·2	25·9	2·0	45·7	1959	1959	Jammu (Aerodrome)
1959	1961	1959	1961	1959	1961	1959	1961	1959	1959	1961	1959	1959	1959	1961			
																	Rajasthan (West)
42·8	21·7	146·1	42·8	15·6	135·8	41·1	6·7	8·2	37·2	1·7	20·6	31·1	−1·7	29·6	1934	1937	Ganganagar.
1946	1950	1948	1939	1944	1958	1952	1949	1961	1943	1938	1959	1959	1950	1958			
																	Anupgrah*
																	Mahajan*
41·4	23·6	57·4	39·4	18·9	54·2	38·7	10·6	15·0	35·1	3·6	13.0	31·2	−0·8	8·2	1957	1957	Churu
1957	1960	1960	1960	1957	1958	1960	1957	1961	1957	1960	1959	1959	1960	1960			
43·3	21·1	142·0	43·9	19·4	165·6	42·2	7·8	95·8	37·2	0·6	41·9	32·2	−2·8	30·0	1881	1881	Bikaner
1899	1889	1909	1915	1924	1945	1951	1949	1917	1943	1937	1951	1954	1950	1892			
39·6	23·3	27·2	41·6	21·7	17·2	39·9	12·4	6·3	34·1	5·0	2·1	31·4	1·6	14·0	1959	1959	Nagaur
1960	1961	1959	1960	1959	1959	1960	1961	1959	1960	1960	1961	1959	1959	1960			
43·1	21·7	72·4	41·5	20·1	63·5	42·2	8·9	24·1	36·7	5·0	13·5	32·2	0·6	12·6	1941	1941	Phalodi
1957	1956	1953	1960	1957	1954	1941	1949	1956	1943	1946	1957	1953	1945	1961			
43·3	21·7	104·4	43·3	21·0	36·0	42·2	8·3	9·4	37·8	4·3	22·1	32·8	1·1	6·3	1948	1948	Jaisalmer
1958	1955	1955	1949	1957	1958	1951	1949	1958	1950	1961	1957	1953	1955	1957			
42·9	20·6	184·4	42·8	17·8	215·9	42·2	10·0	142·0	37·2	5·6	26·9	33·3	−0·6	22·9	1891	1891	Jodhpur
1957	1927	1927	1915	1908	1924	1920	1949	1917	1957	1938	1893	1953	1945	1937			
43·3	20·0	255·5	42·8	16·7	62·6	42·8	13·9	18·0	38·2	6·7	27·6	34·4	2·3	14·0	1931	1931	Barmer
1957	1941	1944	1951	1935	1961	1951	1933	1956	1957	1946	1958	1944	1959	1942			
..	..	..	..	..	..	..	..	..	..	..	..	31·0	0	0	1961	1961	Munabau
..	..	..	..	..	..	..	..	..	..	..	..	1961	1961	..			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

*Data not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Rajasthan (East)																					
Pilani . . .	29·7	0·5	6·2	34·2	1·8	7·7	39·2	6·3	15·2	43·3	11·9	4·6	46·1	16·6	33·0	46·1	21·6	21·7	2·5	18·3	101·7
	1959	1961	1961	1960	1961	1961	1959	1960	1960	1959	1960	1960	1959	1960	1959	1960	1960	1960	1960	1959	1960
Sikar . . .	30·6	—2·2	19·1	36·1	—2·8	16·5	39·4	4·4	13·2	44·4	8·3	5·3	47·8	15·6	51·3	43·9	20·6	53·3	44·4	21·1	83·1
	1949	1955	1957	1953	1951	1954	1949	1956	1960	1958	1955	1953	1956	1955	1959	1948	1954	1955	1947	1960	1960
Alwar . .	28.3	1·2	30·4	34·4	4·4	6·4	38·4	10·0	29·0	46·4	14·7	3·6	50·6	19 3	23·0	48·8	23·3	38·6	42·8	22·3	80·8
	1956	1961	1957	1956	1959	1961	1959	1956	1960	1958	1960	1959	1956	1958	1959	1957	1961	1957	1957	1958	1961
Jaipur (Sanganer) .	28.9	0	45·2	36 1	3·3	12·5	38·9	7·8	14 0	44 9	12·8	6 3	46·1	16 6	67·6	45·6	20·1	50·6	43·1	21·7	96·8
	1952	1954	1957	1953	1956	1952	1953	1958	1957	1958	1955	1952	1956	1961	1959	1954	1957	1961	1957	1958	1957
Dholpur . .	30·2	1·8	17·0	34·7	3·9	19·3	43·3	8·9	34·6	45·8	14·0	8·1	46·7	20·3	35·3	47·1	23·2	76·2	42·2	23·3	102·6
	1958	1959	1961	1960	1960	1958	1955	1957	1960	1958	1960	1959	1960	1960	1959	1960	1958	1955	1957	1956	1957
Ajmer . . .	31·7	—2·2	46·6	35·6	—1·1	33·0	41·7	2·2	42·4	44·6	9·4	38·1	45·6	15·6	43·2	45·0	17·2	119·4	44·4	20·0	148·1
	1902	1935	1948	1953	1905	1907	1892	1898	1932	1958	1886	1909	1912	1881	1925	1901	1944	1917	1901	1931	1943
Tonk . .	29·1	1·1	4·6	34·4	1·8	1·2	37·6	8·8	5·0	43·3	13·1	3·6	45·4	10·8	1·2	44·7	22·6	36·2	41·6	22·8	150·6
	1961	1960	1961	1960	1961	1961	1961	1960	1960	1961	1960	1960	1961	1960	1961	1961	1960	1960	1960	1961	1961
Kota . . .	33·9	1·7	35·8	38·3	2·2	50·8	42·8	7·2	17·8	47·5	14·4	25·9	47·8	18·9	53·3	47·8	21·1	132·1	47·2	20·4	249·2
	1912	1929	1915	1943	1929	1915	1945	1945	1944	1958	1905	1933	1944	1930	1917	1945	1941	1917	1923	1960	1945
Erinpura (Jawai Dam).	31·6	2·8	36·8	36·1	2·3	6·1	40·0	9·4	16·8	45·6	14·4	6·1	44·7	20·8	20·5	43·6	20·5	33·4	39·9	22·3	72·1
	1961	1960	1957	1955	1961	1961	1959	1956	1957	1958	1955	1959	1958	1961	1961	1958	1961	1961	1960	1959	1961
Chambal (Rawat Bhatta Dam) .	30·3	0	15·6	35·0	0·5	5·1	40·1	5·6	29·7	46·0	14·4	5·6	46·1	15·6	22·9	44·4	16·3	50·0	41·7	20·6	191·5
	1961	1956	1961	1960	1957	1956	1959	1956	1957	1958	1956	1959	1956	1957	1959	1958	1957	1959	1957	1956	1956
Udaipur . .	30·6	1.7	49·5	36·7	1·0	14·0	38·9	7·4	20·1	44·4	10·6	26·9	43·9	16·3	9·9	41·7	18·8	64·8	37·8	21·1	105·9
	1958	1954	1953	1953	1961	1948	1959	1957	1954	1958	1955	1953	1956	1960	1949	1958	1958	1945	1948	1954	1950
Jhalawar . .	32·8	—0·6	47·7	36·7	1·7	11·4	41·7	5·0	14·2	46·3	14·4	34·8	46·7	18·9	27·2	46·1	21·1	252·0	42·2	19·7	246·6
	1932	1935	1941	1953	1934	1942	1945	1943	1957	1958	1955	1933	1932	1956	1936	1945	1950	1945	1931	1958	1947
Madhya Pradesh (West)																					
Gwalior . .	31·7	—1.1	40·1	36·7	0·6	20·6	41·7	7·2	17·2	49·5	12·8	15·2	48·3	20·3	41·9	47·2	21·1	162·6	43·9	22·8	149·9
	1943	1954	1957	1949	1950	1954	1945	1945	1960	1960	1953	1943	1947	1960	1953	1945	1944	1952	1948	1942	1947
Sheopur .	31·7	0·6	27·8	37·2	1·9	20·8	41·3	7·2	29·7	45·9	13·9	7·6	47·8	18·8	41·0	46·7	22·2	89·1	42·2	22·2	187·2
	1952	1954	1960	1953	1957	1954	1958	1956	1956	1958	1955	1952	1954	1960	1959	1954	1955	1955	1951	1953	1957
Shivpuri . .	29·0	2·7	19·8	30·6	1·7	0·5	36·9	8·5	0	42·6	..	2·0	42·0	..	3·3	42·5	..	8·4	..	..	36·2
	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	..	1961	1961	..	1961	1961	..	1961	..	..	1961
Nowgong .	32·2	—1·7	46·5	36·7	—0·6	48·0	41·7	5·0	25·9	45·0	11·7	40·6	47·2	13·9	31·0	47·2	18·4	462·8	45·6	20·8	232·7
	1946	1935	1921	1934	1905	1946	1931	1945	1913	1948	1905	1909	1947	1932	1913	1923	1957	1897	1931	1958	1902
Guna . .	31·7	—2·2	33·2	36·1	—1·1	40·6	41·1	5·0	59·9	43·4	11·1	17·7	46·1	16·7	55·2	46·1	20·0	191·5	41·7	19·1	293·4
	1946	1934	1959	1953	1950	1942	1945	1945	1950	1958	1940	1959	1954	1960	1959	1945	1944	1945	1931	1960	1958
Nimach . .	32·8	—1·1	68·3	36·7	—0·6	47·7	41·7	4·4	50·0	44·6	8·9	31·5	46·7	13·9	49·3	46·1	15·6	172·7	42·2	14·4	152·4
	1898	1905	1891	1887	1886	1915	1892	1905	1923	1958	1905	1888	1912	1920	1883	1897	1885	1933	1901	1910	1943
Rajgarh . .	32·2	2·8	10·7	35·7	2·2	2·0	40·6	8·9	19·3	46·3	14·4	1·8	46·6	16·7	27·4	45·2	21·1	61·0	41·2	19·7	153·7
	1961	1956	1956	1959	1957	1956	1959	1957	1957	1958	1956	1961	1958	1960	1956	1958	1960	1958	1957	1958	1956
Sagar . . .	31·7	1·7	84·1	35·0	1·1	43·2	41·1	7·2	60·9	43·9	10·6	23·9	45·6	16·9	58·2	45·6	18·3	235·5	41·1	16·1	284·5
	1912	1934	1887	1953	1929	1951	1892	1898	1957	1896	1926	1937	1914	1959	1903	1897	1922	1890	1931	1904	1904
Ratlam . .	33·0	5·0	18·0	37·8	5·4	8·1	41·1	9·4	19·8	45·2	15·0	10·2	43·9	20·1	21·6	42·2	19·4	98·8	37·6	20·0	132·8
	1961	1952	1953	1953	1961	1956	1952	1957	1954	1958	1955	1957	1957	1960	1956	1953	1961	1951	1958	1951	1954

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-83 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Tempe-rature	Rainfall	
																	Rajasthan (East)
40·3	23·6	76·4	38·5	21·3	26·2	38·3	11·9	19·2	33·3	4·1	17·4	31·1	0·1	8·6	1959	1959	Pilani
1960	1961	1959	1960	1960	1959	1961	1960	1959	1959	1961	1959	1959	1961	1960			
40·0	21·1	89·7	39·4	16·1	66·1	40·6	4·3	49·5	34·2	1·1	22·1	30·6	—1·7	20·3	1946	1946	Sikar
1957	1955	1947	1954	1961	1955	1951	1958	1955	1957	1960	1951	1959	1954	1946			
39·4	21·7	81·2	37·8	20·4	78·0	40·6	12·0	91·7	35·0	6·8	24.4	29·5	1·4	8·1	1956	1956	Alwar
1957	1957	1960	1957	1960	1957	1957	1960	1956	1957	1958	1959	1959	1961	1956			
38·3	18·9	188·4	38 0	17·1	77·2	37·8	11·7	59·4	34 0	5·8	17·4	30·1	1·7	6 4	1952	1952	Jaipur (Sanganer)
1955	1953	1959	1960	1957	1956	1952	1955	1956	1957	1960	1958	1959	1955	1960			
39·0	17·7	93·2	37·4	20·9	57·4	38·2	11·1	105·4	35·0	0·1	7·5	31·3	0·7	8·6	1955	1955	Dholpur
1957	1960	1958	1960	1957	1959	1957	1957	1955	1957	1961	1961	1957	1961	1960			
40·0	20·6	164·6	40·6	16·1	156·2	38·9	7·8	119·4	35·0	2·8	42·4	31·1	0·6	56·6	1881	1881	Ajmer
1883	1935	1928	1915	1950	1924	1951	1889	1956	1901	1926	1958	1890	1936	1913			
36·6	23·1	63·2	38·9	21·2	87·2	38·5	11·1	4·2	33·9	3·4	0	30.5	1·7	2·8	1960	1960	Tonk
1960	1961	1961	1960	1960	1961	1960	1960	1961	1960	1960	..	1960	1961	1960			
41·1	18·9	172·2	40·6	20·0	185·4	41·1	13·4	98·0	37·2	7·8	54·1	33·9	3·9	30·0	1901	1901	Kota
1911	1947	1955	1951	1931	1926	1930	1957	1930	1901	1926	1927	1941	1926	1927			
38·3	22·3	180·9	38·9	19·9	152·9	39·9	12·5	22·1	34·7	4·7	6·2	33·4	3·6	6·2	1955	1955	Erinpura (Jawai Dam)
1957	1957	1957	1960	1960	1955	1960	1961	1957	1957	1960	1959	1959	1961	1958			
37·2	15·6	109·7	40·6	14·4	207·4	37·2	8·3	45·5	37·2	3·3	2·7	31·5	—1.1	2·0	1955	1955	Chambal (Rawat Bhatta Dam)
1955	1957	1956	1956	1957	1961	1960	1955	1955	1957	1958	1961	1958	1955	1961			
35·5	18·9	105·7	37·8	15·6	183·9	37·2	9·9	41·9	35·0	4·3	38·1	31·7	0·6	5·3	1947	1947	Udaipur
1957	1950	1957	1951	1950	1950	1951	1957	1956	1951	1960	1948	1954	1950	1956			
41·7	18·3	184·7	38·9	17·0	147·0	40·0	10·6	76·2	35·6	5·6	66·0	33·3	2·2	44·2	1931	1931	Jhalawar
1960	1955	1942	1951	1957	1961	1951	1934	1956	1941	1956	1933	1941	1945	1947			
																	Madhya Pradesh (West)
38·3	21·1	108·5	37·2	18·3	159·0	39·4	8·9	150·6	35·6	3·9	11·7	31·1	—0·4	31·7	1941	1941	Gwalior
1954	1955	1954	1951	1942	1945	1951	1952	1955	1941	1946	1946	1959	1961	1952			
38·9	21·1	121·4	38·3	17·4	69·1	40·6	10·2	100·8	37·3	5·1	19·1	31·8	0	10·2	1951	1951	Sheopur
1955	1953	1961	1951	1957	1954	1951	1957	1956	1957	1960	1951	1960	1961	1956			
32·6	21·1	146·2	32·6	21·9	65·6	33·0	12·1	34·0	28·6	6·4	6·1	25·5	—0·3	5·8	1961	1961	Shivpuri
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
38·3	20·6	255·4	39·4	17·2	169·2	39·4	8·4	127·0	35·6	3·9	75·2	32·8	—1·7	84·6	1881	1881	Nowgong
1945	1957	1961	1929	1944	1906	1930	1957	1926	1929	1941	1910	1929	1961	1886			
36·7	19·4	181·6	38·1	16·7	298·5	38·3	8·3	63·5	34·7	2·8	64·5	31·7	—0·6	35·6	1931	1931	Guna
1955	1952	1934	1960	1942	1947	1951	1957	1956	1959	1940	1946	1953	1950	1946			
37·8	18·3	136·0	38·9	17·2	177·5	39·4	10·6	102·1	35·6	5·0	51·6	31·7	0·6	22·3	1881	1881	Nimach
1899	1913	1957	1951	1902	1947	1919	1890	1955	1901	1938	1934	1953	1929	1892			
34·9	20·6	300·2	35·6	15·0	116·8	37·0	9·4	52·8	34·6	4·4	14·0	32·8	0	57·1	1955	1955	Rajgarh
1957	1956	1960	1955	1956	1955	1957	1955	1961	1957	1956	1961	1959	1957	1956			
35·6	19·4	274·3	38·3	16·7	159·3	37·8	11·7	198·2	34·4	6·1	105·2	31·7	2·1	73·9	1881	1881	Sagar
1899	1956	1908	1881	1926	1947	1899	1890	1958	1909	1926	1902	1896	1961	1886			
38·7	20·0	153·4	37·8	16·1	255·3	38·3	12·8	162·3	34·4	9·4	15·7	32·8	6·1	4·3	1948	1948	Ratlam
1959	1956	1957	1951	1954	1950	1951	1952	1955	1951	1956	1951	1960	1955	1950			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Pradesh (West)—(*contd.*)																					
Bhopal (Bairagarh)	32·2	0·6	34·3	36·1	1·7	15·5	40·0	7·8	35·1	44·2	12·2	13·5	45·6	19·4	72·6	43·9	19·5	120·9	40·6	19·0	218·2
	1934	1935	1948	1953	1950	1944	1945	1945	1936	1958	1935	1937	1947	1933	1956	1945	1957	1945	1931	1958	1939
Ujjain . . .	32·2	4·0	5·2	33·0	5·0	0	39·0	11·0	0	42·8	14·6	0	43·0	22·0	0·8	39·8	21·0	26·8	34·0	23·0	41·2
	1961	1961	1961	1961	1961	..	1961	1961	..	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961
Hoshangabad .	32·5	3·3	40.1	37·8	6·1	36·6	41·1	10·6	41·9	45·2	16·1	48·3	46·1	20·0	35·8	45·6	21·1	178·8	41·4	18·9	238·8
	1961	1935	1919	1953	1950	1917	1953	1935	1957	1958	1951	1890	1954	1947	1893	1953	1946	1895	1960	1951	1898
Indore . . .	32·2	—1·1	80·5	36·7	—2·8	32·0	41·1	5·0	19·3	44·6	7·8	51·1	45·6	16·7	99·1	45·0	18·9	127·0	38·3	18·9	293·4
	1938	1935	1920	1953	19.9	1888	1892	1898	1944	1958	1905	1895	1916	1881	1886	1897	1958	1895	1931	1910	1913
Rajpur (Jhabua) .	32·8	5·4	2·3	37·2	3·7	18·0	40·9	9·0	1·8	44·0	16·0	13·1	44·8	18·8	26·7	41·6	21·0	73·0	36·5	21·4	186·8
	1961	1961	1956	1956	1957	1961	1958	1960	1960	1958	1960	1958	1950	1960	1956	1958	1960	1960	1960	1961	1958
Chhindwara . .	30·0	3·2	75·4	35·6	2·8	37·9	38·3	8·9	14·7	42·5	15·4	15·2	43·8	19·8	47·7	43·0	18·3	73·9	34·4	20·0	91·4
	1950	1960	1960	1953	1950	1950	1953	1957	1958	1958	1960	1957	1958	1959	1956	1958	1949	1956	1952	1959	1954
Seoni . . .	32·8	2·8	49·5	37·2	3·3	70·1	40·6	6·1	42·2	43·9	11·7	41·9	44·4	15·0	74·2	45·0	17·8	279·4	37·8	17·8	276·1
	1882	1937	1943	1896	1911	1898	1899	1910	1936	1942	1905	1937	1954	1917	1918	1942	1928	1884	1931	1941	1929
Betul . . .	31·3	2·8	10·9	37·2	1·1	3·6	38·9	8·2	34·5	42·6	15·0	23·1	43·3	19·2	23·1	42·2	15·0	73·7	35·6	19·3	145·2
	1961	1953	1957	1953	1950	1950	1953	1960	1957	1958	1955	1957	1954	1957	1957	1953	1949	1951	1959	1959	1960
Khandwa . .	35·6	1·7	49·5	38·9	0·6	48·3	43·3	6·1	27·4	46·7	11·1	26·2	47·2	17·2	71·1	46·1	18·7	153·2	40·0	18·9	240·5
	1932	1946	1920	1953	1929	1928	1892	1908	1881	1958	1905	1891	1947	1881	1956	1923	1957	1940	1900	1959	1927
Madhya Pradesh (East)																					
Satna . . .	32·2	0·6	81·3	35·0	1·1	49·3	41·1	4·4	43·9	45·0	12·2	52·8	46·7	18·3	33·5	47·8	19·4	562·6	45·0	17·8	209·5
	1946	1933	1955	1956	1905	1936	1945	1949	1893	1896	1918	1946	1947	1933	1914	1954	1929	1882	1931	1929	1894
Sidhi . . .	32·8	1·8	47·3	33·4	4·4	5·4	39·7	6·1	24·0	48·8	13·1	0	46·6	17·0	5·6	44.7	24·0	41.0	40.2	21·1	106·0
	1959	1959	1961	1960	1959	1961	1959	1960	1960	1959	1959	..	1959	1960	1959	1960	1961	1959	1959	1959	1961
Umaria . .	34·4	0	61·2	36·7	0·6	55·6	40·0	5·0	43·4	44·4	12·8	31·5	45·6	17·5	27·7	45·6	20·0	209·8	39·6	20·4	179·8
	1943	1933	1939	1954	1950	1950	1955	1945	1941	1942	1951	1937	1954	1960	1957	1945	1948	1946	1958	1961	1959
Jabalpur . .	32·8	1·1	63·7	37·2	0	55·6	41·1	3·3	39·6	45·0	10·6	50·3	46·7	17·2	73·7	46·1	19·4	185·2	41·7	20·6	342·9
	1946	1946	1919	1953	1905	1898	1892	1898	1927	1942	1905	1935	1954	1937	1885	1889	1922	1883	1902	1930	1915
Ambikapur . .	29·3	1·1	20·1	33·3	3·9	62·4	38·3	8·2	21·8	41·9	12·8	21·3	43·3	18·8	51·1	43·3	20·7	113·8	37·1	20·6	109·2
	1958	1954	1954	1954	1956	1961	1955	1957	1952	1961	1955	1951	1956	1960	1956	1955	1961	1961	1958	1951	1954
Pendra . .	30·1	3·3	45·0	34·4	1·7	42·9	39·4	8·9	70·9	42·8	12·4	67·8	43·9	17·8	55·9	43·9	16·7	242·1	37·2	18·3	166·6
	1958	1937	1933	1953	1929	1917	1955	1906	1956	1942	1961	1926	1928	1933	1925	1942	1915	1946	1954	1942	1953
Mandla . .	30·6	0·6	38·3	35·6	2·7	42·2	39·4	7·8	29·7	43·2	11·1	19·3	45·0	16·8	20·1	44·4	21·1	112.0	38·9	20·8	210·4
	1954	1954	1953	1953	1957	1961	1955	1957	1951	1958	1956	1951	1954	1957	1956	1958	1956	1961	1958	1959	1959
Champa . .	32·2	7·8	64·0	36·7	8·3	43·6	41·7	13·2	88·1	45·0	18·1	13·2	47·2	20·5	37·6	47·2	21·5	13[illegible].8	39·4	21·7	142·0
	1950	1954	1945	1953	1950	1961	1955	1957	1951	1952	1961	1955	1948	1957	1956	1953	1961	1961	1954	1946	1952
Raigarh . .	32·8	7·0	39·4	37·2	9·4	26·6	42·2	13·0	61·0	45·0	18·5	29·2	46·7	22·8	40·0	47·2	21·5	19[illegible]·8	38·4	22·2	261·0
	1955	1960	1953	1955	1956	1958	1955	1960	1951	1961	1961	1951	1956	1956	1956	1953	1961	1961	1958	1955	1958
Raipur . .	35·0	5·0	55·4	37·8	5·0	57·4	43·3	8·3	55·9	46·1	15·0	38·3	47·2	14·4	80·3	47·2	16·1	202·7	38·9	20·0	213·1
	1955	1908	1921	1899	1893	1917	1892	1898	1906	1942	1905	1909	1935	1904	1904	1931	1884	1919	1931	1884	1884
Kanker . .	32·8	3·9	53·3	35·0	3·9	52·8	40·0	10·0	48·3	43·3	15·6	44·2	44·4	17·8	45·7	46·1	17·8	245·9	35·0	18·9	289·1
	1931	1946	1943	1953	1934	1950	1942	1948	1957	1942	1944	1951	1953	1945	1932	1931	1936	1940	1954	1940	1951

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Madhya Pradesh (West)—(*contd.*)
35·0	19·4	188·5	36·1	17·2	233·2	37·8	11·7	123·7	33·3	6·1	68·3	32·8	3·3	31.7	1931	1931	Bhopal (Bairagarh)
1932	1956	1944	1951	1951	1947	1951	1943	1955	1951	1941	1936	1941	1936	1935			
34·0	22·4	41·8	30·4	20·6	239·0	32·0	13·0	30·2	30·6	9·0	8·8	28·4	5·6	0·5	1961	1961	Ujjain
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
35·6	19·4	294·1	40·4	17·8	207·0	37·2	12·2	98·3	35·0	3·9	36·4	32·3	4·4	109·7	1931	1881	Hoshangabad
1950	1943	1919	1959	1942	1950	1951	1952	1943	1951	1952	1912	1959	1938	1928			
35·0	18·9	209·8	37·2	16·7	136·7	37·8	8·9	78·5	35·0	5·6	69·0	32·8	1·1	45·0	1881	1881	Indore
1899	1952	1956	1899	1902	1933	1899	1890	1938	1925	1938	1958	1896	1936	1928			
33·7	20·6	140·7	36·0	20·0	142·7	37·3	12·0	142·7	35·4	7·2	15·0	34·4	6·0	50·8	1955	1955	Rajpur (Jhabua)
1958	1956	1957	1960	1956	1959	1957	1960	1955	1957	1956	1958	1960	1961	1956			
33·3	18·2	101·8	34·9	16·3	151·1	34·1	9·7	75·2	31·1	5·6	120.7	30·7	3·3	10·9	1949	1949	Chhindwara
1950	1957	1961	1957	1957	1955	1957	1960	1955	1957	1956	1956	1959	1955	1956			
35·6	17·2	281·9	35·0	16·1	208·0	36·1	10·6	124·5	33·9	5·0	116·8	31·7	3·3	68·3	1881	1881	Seoni
1899	1917	1913	1944	1942	1947	1899	1910	1916	1899	1912	1946	1899	1936	1909			
32·2	18·9	127·8	32·8	16·9	265·0	33·9	8·3	92·7	32·2	5·6	90·7	31·7	3·3	21·6	1948	1948	Betul
1950	1951	1953	1960	1960	1961	1952	1952	1951	1948	1956	1956	1960	1955	1950			
39·4	17·4	203·2	40·6	17·8	218·6	40·6	9·4	146·6	37·2	6·1	84·8	34·5	2·8	95·8	1881	1881	Khandwa
1951	1960	1957	1899	1942	1959	1899	1890	1924	1951	1949	1936	1960	1929	1886			
																	Madhya Pradesh (East)
36·7	21·1	299·7	37·2	16·7	178·1	38·3	10·0	152·4	35·5	5·0	84·6	32·2	0·4	47·7	1881	1881	Satna
1911	1954	1919	1932	1912	1951	1896	1890	1882	1957	1941	1956	1948	1961	1929			
34·3	18·9	131·0	37·2	21·0	65·4	34·9	12·2	32·4	32·6	5·0	0	31·2	2·5	18·5	1959	1959	Sidhi
1961	1959	1961	1959	1960	1961	1960	1960	1959	1959	1960	..	1960	1959	1961			
35·0	20·0	302·0	35·6	17·8	126·5	35·2	9·4	85·5	32·9	3·9	79·5	31·7	0·5	41·1	1932	1932	Umaria
1945	1951	1953	1958	1944	1933	1957	1933	1961	1957	1937	1946	1941	1961	1940			
35·0	18·3	320·5	35·6	16·7	251·7	36·7	7·8	121·9	33·9	3·9	93·5	32·8	0·6	68·1	1881	1881	Jabalpur
1954	1929	1923	1913	1899	1926	1941	1881	1916	1956	1889	1956	1941	1902	1885			
34·2	20·7	137·6	33·9	19·4	90·0	33·3	9·4	206·0	29·6	4·4	6·6	28·8	1·7	9·4	1950	1950	Ambikapur
1958	1958	1960	1959	1960	1961	1957	1954	1961	1957	1952	1956	1960	1955	1956			
32·8	18·3	262·1	32·8	16·7	150·4	33·9	11·7	91·4	31·7	6·1	58·4	30·0	3·9	37·1	1906	1906	Pendra
1925	1910	1953	1938	1912	1926	1920	1933	1915	1909	1926	1924	1941	1936	1906			
33·6	19·9	157·8	33·9	17·4	148·1	35·0	7·8	121·4	33·2	3·3	65·8	31·2	1·1	28·8	1950	1959	Mandla
1958	1957	1957	1951	1957	1955	1951	1952	1951	1957	1950	1956	1960	1955	1961			
35·1	22·2	171·5	35·0	20·9	103·0	36·2	15·4	63·5	33·3	9·6	41·1	31·2	7·2	17·5	1945	1945	Champa
1957	1957	1953	1954	1960	1961	1957	1960	1955	1946	1960	1946	1960	1961	1954			
35·1	22·2	193·0	35·7	21·1	212·0	36·2	14·6	74·2	33·3	10·0	6·0	31·8	6·4	6·1	1950	1950	Raigarh
1956	1953	1960	1957	1959	1961	1957	1960	1959	1951	1959	1961	1957	1959	1954			
36·7	20·0	370·3	37·2	18·3	148·6	37·8	13·9	148·6	35·6	8·3	70·4	32·2	3·9	52·1	1881	1881	Raipur
1883	1939	1910	1899	1902	1905	1899	1933	1900	1935	1883	1930	1941	1902	1909			
33·9	20·0	195·3	33·5	18·9	257·3	34·5	11·7	112·8	32·8	7·2	58·4	31·1	3·9	17·8	1931	1931	Kanker
1947	1939	1937	1959	1950	1936	1957	1954	1938	1946	1939	1950	1943	1934	1940			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

..=Information not available.

TABLE III (A). EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Pradesh (East)—(*contd*). Jagdalpur	33·1	4·4	40.6	36·7	5·0	120.4	40·6	9·4	45·7	43·3	13·9	54.4	46·1	17·2	64·3	44·4	17·2	133·1	35·6	18·3	180·9
	1957	1913	1926	1953	1943	1919	1953	1948	1927	1941	1943	1939	1912	1917	1925	1953	1913	1940	1920	1958	1934
Gujarat Region Deesa	35·6	—2.2	28.2	40.6	—0·6	31.5	46·1	5·6	24.1	46·3	10·0	24·1	50·0	17·8	68·6	48·3	20·1	102·4	43·9	19·4	252·2
	1932	1935	1940	1953	1929	1941	1892	1905	1911	1958	1905	1923	1912	1920	1920	1897	1961	1956	1902	1887	1908
Radhanpur	33·6	5·6	0·3	36·4	5·6	0·7	42·3	6·3	0	43·5	15·6	0	45·3	19·2	0	42·8	19·5	40·2	39·5	19·5	152·0
	1961	1960	1961	1960	1961	1961	1959	1960	..	1961	1960	..	1959	1960	..	1959	1960	1961	1960	1959	1961
Idar	33·0	7·8	5·8	36·2	9·5	2·0	41·9	9·4	0	46·6	15·7	21·1	44·3	20·7	3·0	43·3	20·6	48·0	37·6	20·4	307.0
	1961	1957	1957	1960	1960	1961	1959	1960	..	1958	1958	1959	1958	1957	1960	1958	1958	1957	1958	1958	1958
Ahmadabad . .	36·1	3·3	30·7	40·6	2·2	26·4	43·9	9·4	12·2	46·2	12·8	21·6	47·8	19·4	46·2	47·2	19·4	130·8	42·2	21·1	414·8
	1912	1954	1948	1953	1920	1917	1908	1908	1940	1958	1955	1947	1916	1920	1917	1897	1920	1937	1902	1908	1927
Dohad . .	33·9	0	11·9	39·4	2·2	20·6	41·7	9·4	22·3	45·4	15·0	15·2	45·0	20·0	122·7	44·4	19·6	90·4	38·3	20·6	230·3
	1949	1935	1953	1953	1950	1942	1945	1945	1944	1958	1935	1946	1932	1933	1938	1945	1961	1940	1939	1947	1958
Baroda (Aerodrome)	35·6	5·0	14·0	40·6	3·9	6·0	42·4	10·9	2·8	45·2	14·4	0·6	46·1	19·9	40·9	43·3	21·2	92·3	38·7	22·2	111·5
	1952	1954	1953	1953	1950	1961	1959	1957	1954	1958	1955	1959	1955	1960	1956	1953	1957	1961	1960	1952	1956
Baroda . .	36·2	—1·1	15·2	41·7	1·7	31·7	43·3	6·7	10·4	45·9	11·7	1·3	46·7	18·9	71·4	45·6	21·5	129·8	40·0	21·1	183·4
	1961	1935	1953	1953	1950	1933	1959	1936	1954	1958	1955	1959	1955	1939	1947	1945	1957	1958	1939	1943	1941
Broach . . .	36·9	5·6	7·9	42·8	5·8	11·3	44·2	11·5	14·0	45·6	16·1	0·3	47·8	21·2	80·5	44·4	22·3	109·2	38·9	22·7	195·1
	1961	1954	1953	1953	1961	1961	1959	1957	1954	1956	1955	1954	1955	1957	1956	1953	1957	1954	1960	1959	1954
Surat . . .	38·3	4·4	43·7	41·7	5·6	38·1	43·9	10·6	8·1	45·6	15·0	97·8	45·6	19·4	48·8	45·6	21·7	260·1	38·9	20·6	459·2
Saurashtra and Kutch Bhutakia Bhimasar	1952	1929	1920	1953	1929	1898	1945	1898	1954	1952	1903	1947	1956	1888	1917	1901	1916	1922	1902	1889	1941
	33·6	6·0	0	33·5	9·0	6·5	39·6	10·5	0	43·3	18·6	0	44·6	21·8	8·0	43·9	22·0	31·0	37·9	23·0	67·5
Naliya . .	1961	1960	..	1961	1961	1961	1961	1960	..	1961	1960	..	1961	1960	1961	1961	1961	1960	1961	1961	1960
	32.8	3·0	5·5	35·7	4·4	21·4	42·2	8·0	0	42·0	13·5	0	44·6	16·4	0	38·2	23·3	65·8	37·0	22·1	262·9
Bhuj (Rudramata).	1961	1961	1961	1960	1961	1961	1959	1960	..	1961	1961	..	1959	1960	..	1959	1961	1961	1961	1959	1959
	32·4	3·5	2·7	37·2	4·3	16·4	41·3	9·3	4·3	44·8	13·9	0	45·6	18·1	29·2	42·0	22·6	49·6	39·6	20·6	467·9
	1958	1960	1959	1955	1957	1961	1959	1960	1958	1958	1955	..	1955	1960	1955	1958	1961	1961	1958	1954	1959
Kandla (Aerodrome)	..	..	..	32·9	..	..	39·5	14·6	0	42·7	18·5	0	43·7	21·6	1·1	39·2	21·7	50·3	38·5	23·2	35·0
	..	..	..	1961	..	..	1961	1961	..	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961
New Kandla. .	31·7	9·8	5·1	33·9	7·7	16·2	40·4	13·7	3·8	42·2	18·3	0	43·3	22·1	3·1	38·3	22·8	105·9	37·2	22·4	147·4
	1958	1957	1958	1956	1957	1961	1959	1960	1955	1956	1955	..	1956	1957	1957	1959	1961	1956	1958	1957	1956
Mandvi . .	30·7	7·8	4·1	35·6	8·9	0	38·1	11·3	3·0	41·1	15·0	0	42·6	21·1	0	35·0	22·8	55·0	37·6	21·1	168·0
	1961	1956	1959	1955	1957	..	1959	1961	1960	1958	1956	..	1959	1957	..	1955	1961	1961	1961	1956	1959
Surendranagar .	33·7	7·2	2·0	38·3	7·4	8·9	42·8	12·9	0	45·1	13·9	24·3	46·7	22·8	11·9	44·9	22·8	61·2	39·4	22·8	82·6
	1958	1954	1957	1955	1957	1961	1959	1957	..	1958	1955	1959	1955	1956	1957	1958	1955	1955	1954	1956	1959
Jamnagar (Aerodrome)	33·9	1·7	19·8	37·2	2·2	29·5	40·0	8·3	38·6	42·8	12·8	19·3	44·4	16·7	92·7	43·9	17·2	337·8	39·9	19·4	335·0
	1933	1935	1929	1926	1929	1906	1946	1905	1904	1901	1903	1915	1903	1918	1933	1927	1917	1920	1958	1950	1929
Dwarka . .	34·0	6·1	20·3	35·6	8·3	64·0	38·3	7·8	42·4	41·1	17·2	24·4	42·7	20·0	7·6	37·8	22·0	230·9	36·4	18·3	273·8
	1957	1929	1919	1920	1901	1906	1958	1905	1911	1932	1903	1915	1959	1909	1933	1951	1961	1956	1958	1952	1933
R ot	36·1	—0·6	13·2	40·0	1·1	21·3	43·9	6·1	21·6	44·4	10·0	29·2	47·8	16·1	117·3	45·0	20·0	218·9	40·6	19·4	375·2
	1932	1935	1935	1953	1893	1888	1892	1905	1911	1949	1903	1947	1919	1907	1917	1897	1913	1893	1900	1941	1950
Bhaunagar (Aerodrome)	33·9	6·1	7·6	37·8	6·7	30·0	41·8	13·1	9·9	43·3	14·4	0	45·0	22·2	6·2	43·3	20·0	61·7	38·3	21·0	195·5
	1952	1954	1953	1953	1957	1961	1961	1957	1954	1958	1955	..	1955	1957	1960	1953	1954	1957	1952	1961	1957

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
33·9	16·7	203·2	35·0	17·8	163·8	34·4	11·1	136·9	33·0	5·6	102·9	32·2	3·9	38·3	1911	1911	**Madhya Pradesh (East)—(*contd.*)** Jagdalpur.
1922	1920	1931	1913	1950	1911	1913	1941	1938	1946	1912	1924	1946	1945	1952			
																	Gujarat Region
41·1	21·1	306·1	42·2	17·2	349·5	42·8	10·6	92·7	37·6	5·0	28·7	36·1	1·7	14·0	1881	1881	Decsa.
1902	1948	1907	1951	1912	1893	1925	1889	1917	1957	1938	1896	1935	1903	1927			
35·8	20·5	66·2	40·5	23·4	207·0	39·8	12·8	31·1	36·0	10·1	0	32·7	5·5	1·5	1959	1959	Radhanpur.
1961	1959	1960	1960	1961	1959	1960	1961	1959	1960	1960	..	1960	1959	1960			
34·7	21·3	91·2	39·0	18·6	132.2	38·9	11·0	39·2	36·7	13·3	1·3	33·1	9·1	2·0	1957	1957	Idar.
1957	1958	1957	1960	1957	1959	1960	1961	1959	1957	1961	1957	1960	1960	1957			
38·9	21·7	150·6	41·7	21·6	257·8	42·8	14·0	52·8	38·9	9·7	53·3	35·6	6·1	14·0	1896	1896	Ahmadabad.
1911	1929	1906	1951	1958	1950	1920	1961	1917	1901	1960	1947	1899	1954	1927			
36·1	21·1	295·4	38·9	17·8	265·4	40·0	11·7	177·0	36·4	8·9	65·4	34·4	5·0	7·4	1931	1931	Dohad
1932	1956	1933	1951	1950	1945	1951	1935	1954	1960	1938	1958	1953	1936	1931			
35·6	21·7	277·1	41·1	21·1	148·9	41·1	12·8	71·1	37·8	10·6	16·8	35·0	6·7	0	1949	1949	Baroda Aerodrome.
1949	1956	1956	1951	1957	1958	1951	1960	1954	1951	1956	1957	1952	1954	..			
37·2	22·8	238·0	41·1	18·9	372·1	41·7	11·7	138·4	38·3	7·2	48·3	36·1	3·3	3·6	1933	1933	Baroda.
1947	1953	1956	1951	1938	1945	1951	1955	1940	1951	1938	1934	1941	1937	1933			
35·6	22·8	217·0	41·7	21·1	304·8	41·7	14·4	85·0	38·9	10·9	10·4	37·2	8·0	0·5	1951	1951	Broach.
1954	1952	1961	1951	1957	1954	1952	1954	1959	1957	1960	1958	1952	1959	1954			
37·2	21·1	288·9	41·1	20·6	389·4	41·1	14·4	257·1	39·4	10·6	148·3	38·9	6·7	42·2	1881	1881	Surat.
1932	1887	1933	1951	1884	1945	1952	1893	1894	1951	1881	1946	1953	1903	1933			
																	Saurashtra and Kutch
35·1	23·7	42·0	40·4	22·3	0·2	49·4	17·8	0	36·0	12·5	0	31·9	10·0	0	1960	1960	Bhutakia Bhimasar
1960	1960	1960	1960	1960	1960	1960	1961	..	1960	1960	..	1960	1961	..			
32·4	23·0	68·0	37·2	20·3	240·1	35·7	11·2	3·2	36·6	6·5	6·4	32·7	3·3	0	1959	1959	Naliya
1961	1961	1961	1960	1959	1959	1959	1961	1961	1960	1960	1959	1959	1959	..			
37·8	22·7	83·8	39·7	19·4	78·0	41·1	12·9	95·4	37·2	8·7	2·4	33·9	4·4	3·6	1954	1954	Bhuj (Rudramata)
1954	1956	1961	1960	1954	1958	1960	1961	1959	1957	1960	1959	1954	1961	1956			
34·5	23·9	57·4	33·9	22·4	22·1	37·2	13·7	0·6	32·9	12.1	5·2	30·8	9·0	0	1961	1961	Kandla Aerodrome.
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	..			
35·8	23·3	185·9	38·3	22·6	64·8	37·8	17·3	24·0	37·2	14·5	3·8	32·8	9·4	0·8	1955	1951	New Kandla.
1958	1956	1956	1957	1957	1953	1955	1961	1961	1957	1960	1957	1958	1955	1957			
34·4	22·8	175·3	36·4	20·6	61·0	38·4	17·3	32·8	34·4	13·5	3·0	31·7	8·2	15·0	1954	1954	Mandvi.
1957	1956	1956	1960	1960	1961	1960	1957	1956	1957	1960	1959	1958	1959	1958			
36·9	21·7	198·1	39·4	21·9	112·0	39·2	16·1	40·8	37·2	11·1	7·6	34·4	5·0	1·3	1953	1953	Surendranagar.
1958	1956	1953	1960	1957	1958	1960	1954	1958	1953	1956	1957	1953	1955	1957			
37·8	20·6	248·9	41·7	16·1	133·3	40·6	14·4	37·3	37·2	8·9	48·5	34·4	3·9	42·7	1901	1901	Jamnagar (Aerodrome).
1954	1924	1954	1951	1923	1947	1952	1954	1915	1901	1938	1948	1955	1930	1929			
32·8	21·7	302·3	39·4	22·2	135·9	40·0	16·7	138·4	37·2	12·2	355·1	33·9	8·3	28·5	1901	1901	Dwarka.
1954	1908	1933	1929	1909	1921	1951	1949	1917	1901	1938	1951	1932	1903	1937			
37·8	20·6	233·2	40·6	16·7	184·7	41·7	12·2	105·6	38·3	7·2	99·8	36·1	—2·8	22·9	1881	1881	Rajkot
1947	1913	1900	1911	1912	1945	1925	1949	1939	1929	1917	1888	1886	1903	1929			
36·8	22·2	117·0	40·6	21·1	102·9	41·7	17·2	141·0	36·7	12·2	4·8	34·6	9·4	2·5	1951	1951	Bhaunagar (Aerodrome).
1958	1958	1959	1951	1952	1954	1951	1954	1959	1951	1956	1959	1957	1955	1957			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Saurashtra and Kutch—(*contd.*)																					
Bhaunagar*	35·0	0·6	43·7	39·4	2·8	40·0	43·3	8·3	35·8	45·0	12·8	3[illegible]6·6	46·7	19·4	87·4	45·0	20·6	219·7	40·0	21·6	195·6
	1926	1929	1920	1953	1929	1961	1910	1905	1951	1900	1903	1947	1912	1917	1933	1901	1903	1913	1949	1960	1957
Porbander Aerodrome	35·0	10·5	7·2	34·7	8·7	12·0	40·6	14·1	0	41·8	18·6	0	35·2	20·5	0	33·5	23·6	66·6	35·2	24·0	120·7
	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	..	1961	1961	..	1961	1961	1961	1961	1961	1961
Porbander	35·0	9·4	8·1	38·9	8·7	11·1	40·2	13·2	0	42·8	18·9	2·0	45·6	22·7	0·5	35·0	23·4	129·8	33·9	22·0	231·6
	1961	1953	1954	1955	1957	1961	1958	1957	..	1956	1955	1957	1959	1957	1956	1959	1961	1957	1958	1959	1958
Keshod	35·6	6·9	0	38·0	5·2	10·0	42·1	11·5	0	44·0	15·8	0·2	45·1	19·9	0·8	37·7	22·3	50·0	36·4	22·9	312·5
	1961	1960	..	1960	1961	1961	1959	1960	..	1961	1960	1959	1959	1960	1959	1959	1959	1961	1961	1961	1961
Mahuva	34·3	7·8	2·5	41·1	8·3	2·5	42·8	12·5	11·4	45·[illegible]	13·9	1·5	43·9	2[illegible]·0	0·5	40·6	22·8	179·6	35·6	22·2	167·9
	1961	1954	1953	1953	1961	1961	1956	1957	1954	1954	1955	1956	1956	1957	1956	1953	1955	1959	1955	1961	1957
Veraval	36·0	4·4	12·9	38·3	4·4	18·1	42·8	9·4	19·1	42·8	13·9	124·7	44·2	18·9	123·2	37·2	2[illegible]·0	121·9	33·9	2[illegible]·4	28[illegible]·6
	1961	1905	1926	1953	1893	1961	1945	1892	1911	1954	1903	1947	195[illegible]	19[illegible]9	1917	1954	1951	1960	1952	1961	1945
Konkan																					
Dahanu	34·4	8·3	8·9	37·8	8·8	3·6	38·9	12·8	1·3	40·6	19·3	59·9	38·3	2[illegible]·6	27·0	38·3	15·0	3[illegible]8·0	35·0	18·4	431·6
	1957	1945	1948	1949	1961	1954	1946	1945	1958	1955	1957	194[illegible]	1944	194[illegible]	196[illegible]	1951	1948	196[illegible]	1947	196[illegible]	1956
Bombay (Santa Cruz)	36·2	10·6	0·8	39·4	1[illegible]·[illegible]	18·0	41·7	14·1	0·8	42·2	18·3	1·5	38·8	2[illegible]·6	54·4	36·7	22·2	305·6	34·8	2[illegible]·8	31[illegible]·6
	1961	1953	1958	1953	1950	1961	1956	1957	1951	1952	1951	1951	1959	1951	1951	1951	1954	1953	1960	1957	1953
Bombay	35·0	11·7	49·3	38·3	1[illegible]·7	41·7	39·7	16·7	34·3	4[illegible]·6	2[illegible]·[illegible]	37·3	36·2	22·8	126·2	37·2	21·1	4[illegible]8·9	35·6	21·7	304·8
	1961	1935	1926	1949	1929	1917	1958	1905	1918	1955	19[illegible]5	194[illegible]	1959	1951	1893	1901	1936	1886	19[illegible]2	1945	1923
Alibag	35·3	9·4	9·7	37·8	11·4	34·5	39·4	15·6	2·8	4[illegible]	18·9	8·4	37·5	21·7	103·1	34·4	18·3	225·0	32·3	2[illegible]·0	2[illegible]5·9
	1958	1934	1948	1943	1961	1961	1945	1945	194[illegible]	1955	193[illegible]	1947	196[illegible]	1943	1938	1932	1945	1940	1960	1959	1953
Harnai	33·4	15·6	8·6	34·2	13·9	1·0	37·2	16·1	0	36·1	17·8	31·5	3[illegible]·2	20·0	157·0	34·4	16·1	281·8	32·2	17·8	242·6
	1958	1945	1945	1960	1950	1948	1946	1945	..	1949	195[illegible]	1955	1955	1950	1956	1953	1945	1960	1948	1959	1948
Ratnagiri	36·7	12·2	23·4	38·3	13·3	32·0	38·9	16·1	31·7	36·1	16·1	25·9	3[illegible]·8	21·7	91·7	35·0	19·4	3[illegible]9·9	32·8	2[illegible]·5	304·3
	1912	1935	1888	1920	19[illegible]1	1917	1922	1910	19[illegible]0	1938	1905	1937	1883	1913	1893	1913	1939	1953	19[illegible]0	1919	1900
Devgarh	34·4	15·6	12·2	35·9	16·7	1·5	37·2	18·7	12·2	3[illegible]·2	2[illegible]·6	23·6	35·0	20·0	181·2	37·2	13·3	2[illegible]6·0	31·7	18·2	216·3
	1952	1945	1947	1961	1961	1958	1948	1957	1947	1956	1953	1947	1954	1961	1961	1948	1945	1958	1957	1961	1948
Vengunla	35·6	12·0	0·3	38·9	12·8	2·8	3[illegible]·4	15·0	0·3	4[illegible]	2[illegible]·5	17·0	36·1	22·2	299·0	33·9	20·0	333·3	32·4	21·7	237·7
	1955	1960	1959	1952	1950	1958	1958	1950	1954	1956	1961	1954	194[illegible]	1958	1961	1958	1956	1958	1960	1956	1951
Madhya Maharashtra																					
Nandurbar	35·9	8·9	43·9	40·6	13·2	0	43·3	14·2	2·5	45·6	18·9	41·2	46·1	21·7	[illegible]6·2	42·8	22·2	80·0	38·2	21·1	167·5
	1958	1954	1955	1855	1959	..	1956	1960	1954	1958	1955	1958	1955	1956	1956	1953	1956	1953	1960	1952	1958
Jalgaon	35·6	1·7	29·6	40·6	3·9	21·8	43·9	8·7	23·9	47·2	15·6	15·7	47·8	21·2	35·1	46·1	21·7	115·1	39·4	21·1	116·7
	1939	1945	1958	1953	1943	1941	1953	1960	1938	1958	1944	1951	1947	1960	1956	1953	1961	1956	1951	1938	1941
Malegaon	35·0	0·6	38·1	39·4	—0·6	43·4	45·6	5·6	14·7	44·6	9·4	27·0	46·7	16·7	104·4	44·4	17·8	111·0	38·9	18·3	158·5
	1932	1935	1888	1953	1929	1936	1889	1898	1915	1958	1905	1958	1916	1881	1903	1915	1932	1914	1960	1953	19[illegible]6
Deolali (Aerodrome)	32·9	5·0	1·8	37·8	—0·6	1·5	40·0	7·2	7·4	42·8	11·1	24·6	42·2	17·8	57·7	40·0	20·0	49·5	33·9	20·0	157·0
	1961	1954	1958	1953	1950	1954	1953	1957	1955	1958	1955	1958	1955	1955	1951	1955	1952	1957	1960	1951	1952
Ahmadnagar	36·1	2·2	51·6	38·9	2·8	42·9	40·6	7·8	88·4	43·1	10·6	71·9	43·7	16·1	119·8	43·3	18·3	177·3	37·2	17·8	174·3
	1897	1945	1941	1897	1911	1894	1934	1892	1938	1958	1926	1937	1960	1917	1915	1920	1907	1931	1955	1944	1911
Khandala	..	..	19·1	..	..	15·2	..	..	1·3	..	..	58·0	..	..	62·4	..	..	312·8	..	..	516·4
	..	..	1940	..	..	1937	..	..	1951	..	..	1959	..	..	1960	...	..	1961	..	..	1958

*Observatory closed from 1-7-1961.

X=Highest Maximum Temperature

N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Saurashtra and Kutch—(*contd.*)
38·9	21·7	125·0	41·1	20·6	242·3	41·1	13·3	233·9	38·3	6·1	105·7	35·0	5·0	25·9	1891	1891	Bhaunagar.*
1902	1903	1946	1951	1935	1947	1951	1916	1931	1948	1933	1936	1941	1908	1909			
31·1	23·8	46·6	36·7	21·6	53·0	38·7	15·3	21·7	37·7	14·1	0	33·3	10·4	0	1960	1960	Porbander Aerodrome.
1961	1961	1961	1960	1960	1961	1960	1961	1961	1960	1961	..	1960	1960	..			
32·9	22·8	125·9	36·1	22·8	94·7	39·4	17·2	213·6	38·2	13·3	82·2	36·7	10·0	4·6	1952	1952	Porbander.
1958	1956	1961	1955	1954	1956	1953	1952	1959	1957	1952	1958	1953	1954	1954			
31·6	23·1	34·1	37·6	20·2	85·2	33·5	14·7	39·0	37·0	11·7	0	34·4	8·6	0·2	1959	1959	Keshod.
1961	1960	1961	1960	1960	1961	1960	1960	1959	1960	1960	..	1960	1961	1959			
34·1	21·1	77·2	37·0	19·9	80·0	38·9	15·6	76·0	36·2	13·3	12·2	35·0	9·4	17·3	1952	1952	Mahuva.
1954	1952	1957	1960	1957	1954	1952	1954	1959	1957	1953	1958	1952	1961	1954			
33·3	22·7	270·0	36·7	20·6	277·4	40·0	13·3	73·7	37·8	10·0	89·9	35·6	7·2	25·7	1891	1891	Veraval.
1932	1960	1933	1955	1946	1926	1952	1949	1917	1951	1950	1896	1953	1950	1902			
																	Konkan.
31·7	20·6	335·0	33·9	21·1	481·0	36·1	17·2	173·4	36·7	15·6	256·5	35·6	11·1	0·5	1944	1944	Dahanu.
1947	1951	1945	1944	1954	1958	1953	1954	1959	1947	1955	1948	1952	1945	1954			
31·1	19·4	256·0	35·6	21·7	132·8	37·0	16·7	117·1	36·3	13·3	23·1	35·2	10·6	9·1	1949	1949	Bombay. (Santa Cruz).
1954	1950	1954	1951	1953	1954	1957	1952	1955	1957	1950	1957	1958	1949	1954			
32·2	21·7	287·0	35·0	20·0	548·1	36·6	20·6	148·6	36·2	17·8	122·7	35·1	12·8	24·4	1881	1881	Bombay.
1948	1943	1881	1929	1947	1930	1957	1954	1917	1957	1881	1927	1959	1929	1884			
32·8	21·1	204·0	32·8	21·1	396·2	37·2	18·3	115·8	36·7	15·6	106·7	34·8	13·9	12·5	1931	1931	Alibag.
1932	1949	1954	1951	1947	1949	1936	1954	1938	1941	1950	1948	1960	1949	1933			
32·2	20·6	176·0	31·7	21·1	308·6	35·0	19·4	176·5	35·6	18·3	72·6	33·9	18·9	15·2	1944	1944	Harnai.
1947	1950	1947	1951	1947	1949	1950	1946	1947	1951	1946	1946	1944	1949	1954			
31·1	21·1	204·2	34·4	20·6	236·7	37·2	17·8	221·0	37·2	15·6	243·8	36·1	14·4	33·8	1881	1881	Ratnagiri.
1939	1931	1885	1896	1898	1938	1888	1903	1938	1918	1955	1912	1896	1954	1931			
31·7	19·4	130·8	32·2	21·1	235·2	35·0	19·4	141·0	36·1	17·2	67·1	34·4	16·1	16·5	1945	1945	Devgarh.
1948	1945	1948	1953	1945	1948	1946	1952	1951	1951	1952	1946	1953	1949	1954			
30·6	21·7	177·6	32·8	21·3	128·6	35·8	17·6	122·4	35·6	14·4	37·0	35·4	10·6	1·5	1949	1949	Vengurla.
1950	1956	1958	1952	1957	1961	1960	1960	1951	1951	1950	1959	1961	1954	1958			
																	Madhya Maharashtra.
38·9	21·1	82·0	36·1	20·6	124·5	38·9	16·2	163·0	37·2	11·7	20·0	35·0	10·6	4·1	1952	1952	Nandurbar.
1954	1956	1959	1955	1952	1954	1952	1958	1959	1957	1956	1959	1953	1954	1956			
37·2	20·0	119·1	38·9	15·6	111·8	38·3	10·0	98·8	36·5	5·6	59·9	35·0	1·7	22·3	1937	1937	Jalgaon.
1947	1942	1942	1951	1942	1937	1951	1952	1943	1957	1950	1946	1953	1937	1947			
37·2	16·1	115·3	38·3	16·1	132·1	40·0	10·6	109·7	36·7	5·6	105·2	35·0	2·8	39·4	1881	1881	Malegaon.
1899	1899	1897	1899	1942	1894	1899	1933	1935	1908	1910	1912	1896	1926	1884			
33·3	19·4	143·3	33·9	17·8	86·9	35·7	9·4	54·6	33·0	6·7	62·5	33·1	5·0	40·0	1950	1950	Deolali. (Aerodrome).
1950	1956	1956	1960	1954	1954	1957	1954	1956	1961	1955	1958	1960	1954	1954			
36·7	16·1	147·3	36·7	14·4	148·8	37·6	10·6	89·1	35·6	5·6	124·7	33·3	3·3	69·1	1891	1891	Ahmadnagar.
1899	1913	1957	1912	1896	1902	1960	1914	1943	1898	1892	1960	1953	1926	1942			
..	..	475·0	..	..	308·4	..	..	263·7	..	..	188·7	..	..	16·0	..	1933	Khandala.
..	..	1956	..	..	1942	..	..	1938	..	..	1948	..	..	1942			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madhya Maharashtra —*contd*																					
Poona(Aerodrome).	32·8	8·3	0	37·8	6·6	0	40·0	10·6	42·9	42.2	12·2	26·2	41·7	15·0	74·4	39·5	18·9	123·6	34·8	20·0	103·6
	1952	1954	..	1953	1961	..	1953	1961	1954	1961	1955	1959	1952	1955	1960	1958	1953	1961	1960	1959	1958
Poona . . .	35·0	1·7	22·3	38·9	3·9	16·3	42·8	7·2	35·1	43·3	10·6	51·1	43·3	13·9	82·5	41·7	17·2	131.9	35·6	18·9	130·4
	1938	1935	1948	1953	1934	1892	1892	1908	1954	1897	1903	1896	1889	1888	1927	1897	1920	1961	1915	1920	1958
Jeur . .	33·9	5·7	0·5	38·3	5·0	18.5	41·1	10·4	4·8	43·7	14·4	23·6	43·6	20·1	81·4	43·3	18.9	81·5	39·9	17·9	88·1
	1950	1957	1955	1953	1950	1952	1953	1957	1957	1958	1960	1957	1958	1960	1961	1953	1951	1953	1959	1959	1956
Baramati . .	33·3	8·1	0	37·4	7·7	0	40·5	11·2	6·3	43·2	13·3	22·6	42·8	19·4	35·6	41·9	20·0	74·4	36·2	20.2	37·1
	1955	1958	..	1959	1961	..	1959	1957	1958	1958	1955	1955	1958	1956	1959	1958	1956	1960	1960	1956	1956
Sholapur . .	36·7	4·4	48·8	39·4	6·1	34·3	43·9	12·2	39·6	44·4	13·0	48·0	45·6	16·1	56·1	45·6	17·2	143·8	38·9	18·3	160·3
	1897	1945	1943	1886	1911	1928	1892	1886	1893	1889	1905	1907	1939	1885	1952	1923	1922	1882	1912	1914	1907
Miraj . .	33·9	5·0	46·5	37·4	6·7	8·6	40.6	11·2	21·6	42·2	15·0	115·1	42·2	18·9	108·2	42·2	19·4	83·2	35·0	17·2	61·0
	1950	1945	1941	1961	1944	1941	1949	1957	1958	1942	1944	1937	1940	1937	1938	1934	1956	1959	1932	1945	1943
Kolhapur . .	33·6	8·9	14·7	37·4	9·3	4·3	40·4	12·8	48·5	41·7	15·6	34·5	41·2	18·3	163·6	39·4	18·9	101·1	32·6	18·9	151·6
	1959	1946	1947	1961	1961	1952	1959	1957	1948	1956	1955	1946	1959	1946	1961	1953	1956	1959	1960	1955	1953
Marathwada																					
Aurangabad .	37.2	3·9	51·6	37·8	2·2	36·3	42·2	8·9	23·4	45·0	10·0	24·6	45·6	17·2	75.5	43·9	17.2	182.1	37·8	18·3	139·7
	1924	1945	1920	1953	1911	1894	1892	1898	1915	1896	1908	1937	1905	1924	1961	1923	1901	1953	1897	1904	1916
Aurangabad (Chikalthan). .	32·2	3·9	3·8	37·2	3·9	5·2	40·0	7·1	20.3	43·6	14·9	7·9	43·1	20·0	53·8	42·2	20·0	94·2	35·0	20·0	84·1
	1955	1954	1959	1954	1961	1961	1955	1957	1954	1958	1960	1954	1960	1952	1961	1953	1954	1955	1952	1956	1953
Parbhani . .	33·3	4.4	43·4	38·3	6·1	34·8	41·7	11·6	46·5	45·0	17·2	36.8	45·6	21·1	56·6	45·6	20·0	87·9	37·8	20·4	171·5
	1955	1945	1926	1953	1949	1928	1953	1957	1927	1958	1955	1939	1954	1956	1916	1953	1951	1940	1950	1957	1923
Nander . .	33·0	..	0	38·0	..	0	..	..	25·5	45·0	..	5·8	44·0	..	12·2	40·8	18·1	40·4	37·4	18·3	136·0
	1961	..	..	1961	..	..	..	..	1961	1961	..	1961	1961	..	1961	1961	1961	1961	1961	1961	1961
Bir . .	32·9	8·5	0	36·9	4·6	0	..	..	..	43·6	18·6	3·6	..	..	..	..	..	..	33·5	21·6	61·6
	1961	1961	..	1961	1961	..	..	..	..	1961	1961	1961	..	..	..	..	..	..	1961	1961	1961
Vidarbha																					
Gondia . .	32·0	6·7	42·4	37·2	6·7	48·3	41·7	11·7	34·3	44·6	18·3	25·9	46·1	22·2	13.2	45·6	20·6	216·7	37·2	21·3	164·2
	1961	1951	1948	1951	1950	1947	1953	1952	1951	1961	1957	1953	1954	1951	1956	1953	1959	1955	1958	1958	1959
Nagpur (Sonegaon) . .	35·0	3·9	60·3	38·9	5·0	51·6	45·0	8·3	45·0	46·1	13·9	59·4	47·8	19·4	58·4	47·2	20·0	315·0	40·6	19·4	219·2
	1900	1937	1960	1887	1950	1942	1892	1898	1881	1942	1905	1937	1954	1917	1909	1931	1919	1911	1897	1942	1898
Amraoti .	35·0	6·1	59·2	38·9	5·0	51·6	43·9	8·9	51·6	46·1	12·8	66·3	46·7	18·3	47·2	46·7	19·4	155·2	39·4	18·9	230·1
	1889	1934	1911	1953	1887	1928	1892	1898	1957	1898	1905	1937	1954	1917	1887	1923	1916	1927	1931	1890	1888
Akola . .	36·2	3·9	49·0	40·0	2·2	42·2	44·4	5·6	38·6	46·1	11·1	58·7	47·8	11·9	44·7	47·2	20·0	188·0	40·6	20·6	188·5
	1958	1937	1922	1953	1887	1907	1892	1908	1957	1942	1905	1937	1947	1960	1943	1923	1916	1955	1900	1941	1894
Brahmhapuri .	31·8	7·5	30·6	36·2	7·8	27·6	40·5	13·5	47·5	44·7	17·6	17·0	46·6	19·7	43·7	46·2	20·5	85.6	36·2	18·7	214.0
	1958	1958	1959	1958	1957	1961	1959	1957	1957	1961	1960	1957	1960	1957	1957	1958	1957	1960	1958	1957	1960
Buldana . .	32·8	10·0	30·7	36·7	4·4	25.4	38·9	14·8	36·2	42·2	17·4	31·0	42·2	20·0	44·2	41·7	19·4	89·0	34.4	18·9	122.9
	1956	1953	1955	1953	1950	1961	1953	1957	1955	1958	1961	1959	1954	1956	1961	1953	1955	1959	1952	1949	1953
Yeotmal . .	33·3	9·4	36·0	37·8	7·2	31·2	41·7	14·4	29·7	44·7	17·8	146·7	46·1	20·0	50·0	45·6	17·1	104·4	38·3	20·0	123·0
	1950	1954	1960	1953	1950	1950	1953	1957	1957	1958	1955	1952	1954	1955	1961	1953	1961	1953	1950	1953	1959

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Madhya Maharashtra—*contd.*
32·2	17·2	103·6	37·2	15·6	55·1	36·1	12·8	106·9	33·3	9·4	76·2	33·3	7·8	8·1	1950	1950	Poona (Aerodrome)
1958	1956	1956	1951	1952	1955	1951	1959	1951	1953	1955	1951	1954	1954	1954			
35·0	17·2	108·7	36·1	16·1	132·3	37·8	11·1	149·1	36·1	7·2	96·8	35·0	4·4	41·1	1881	1881	Poona
1950	1920	1956	1951	1901	1938	1899	1910	1892	1896	1939	1934	1936	1940	1942			
37·2	17·4	94·2	36·1	15·3	85·5	36·3	12·2	58·1	35·0	8·9	63·6	33·1	5·3	43·2	1950	1950	Jeur
1950	1957	1958	1951	1959	1959	1957	1952	1959	1959	1955	1959	1958	1959	1954			
34·5	17·8	106·2	35·6	17·8	105·4	36·2	12·8	75·4	33·4	9·4	46·2	32·2	7·8	14·0	1954	1954	Baramati
1958	1956	1956	1955	1957	1957	1957	1954	1957	1961	1955	1956	1954	1959	1954			
37·8	15·0	191·0	37·2	17·5	169·9	38·3	12·8	125·5	36·1	7·8	127·8	34·4	6·7	97·5	1881	1881	Sholapur
1899	1956	1940	1899	1959	1895	1896	1882	1957	1915	1881	1896	1896	1945	1886			
34·4	17·8	150·9	35·6	15·6	93·7	36·1	12·2	101·3	34·4	8·3	114·1	34·4	7·2	19·8	1831	1831	Miraj
1941	1949	1932	1951	1935	1946	1942	1937	1956	1958	1950	1955	1941	1954	1933			
32·2	18·9	116·3	35·0	17·6	81·8	35·7	13·9	67·6	33·3	11·1	89·1	33·4	8·9	17·5	1946	1946	Kolhapur
1950	1956	1956	1951	1960	1960	1960	1952	1953	1951	1955	1955	1960	1956	1947			
																	Marathwada
36·1	17·2	134·6	36·6	16·1	245·1	37·8	12·2	124·6	35·6	7·2	157·5	34·4	5·0	92·7	1896	1891	Aurangabad
1950	1935	1903	1896	1901	1891	1911	1903	1961	1896	1910	1946	1896	1902	1942			
33·3	18·3	69·3	34·1	17·8	78·8	35·2	8·3	94·5	33·6	5·6	44·4	32·8	3·9	9·1	1952	1952	Aurangabad (Chikalthan)
1954	1956	1956	1960	1952	1958	1957	1952	1961	1957	1956	1958	1953	1954	1954			
36·7	20·0	139·7	35·6	18·5	217·2	36·7	10·0	168·9	33·9	8·3	79·0	32·8	6·7	32·3	1944	1916	Parbhani
1950	1953	1934	1951	1959	1923	1946	1954	1955	1953	1956	1936	1953	1945	1937			
33·2	19·1	105·8	33·6	21·0	46·3	33·3	14·2	..	32·0	11·6	0	31·8	10·0	0	1961	1961	Nander
1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	..	1961	1961	..			
32·6	21·1	59·0	..	..	..	33·0	13·0	85·3	31·5	9·4	6·0	32·1	8·0	1·0	1961	1961	Bir
1961	1961	1961	..	..	..	1961	1961	1961	1961	1961	1961	1961	1961	1961			
																	Vidarbha
34·4	18·3	179·6	34·4	20·6	281·4	35·3	13·3	106·7	33·9	8·9	54·6	32·7	7·2	13·2	1946	1946	Gondia
1947	1953	1961	1951	1952	1961	1957	1952	1949	1957	1950	1948	1960	1955	1956			
37·8	18·3	200·7	38·9	18·3	182·6	38·3	11·6	164·6	35·6	6·7	81·5	33·9	5·6	45·7	1881	1881	Nagpur (Sonegaon)
1899	1939	1875	1899	1904	1883	1899	1960	1936	1899	1912	1946	1941	1936	1884			
36·7	15·6	168·1	38·3	17·2	234·9	39·4	12·8	90·2	35·6	8·9	78·0	33·9	8·3	55·6	1881	1881	Amraoti
1902	1944	1944	1899	1893	1933	1899	1889	1940	1899	1884	1931	1913	1937	1885			
37·8	18·3	224·5	40·0	17·2	365·4	40·0	10·0	110·5	36·1	5·6	112·3	36·7	3·9	65·0	1881	1881	Akola
1950	1944	1900	1899	1904	1959	1899	1889	1887	1899	1912	1936	1896	1883	1885			
33·5	19·6	117·0	34·6	19·4	175·4	35·6	16·2	65·2	33·1	11·3	54·0	37·2	8·6	3·3	1957	1957	Bramhapuri
1958	1957	1960	1960	1957	1959	1960	1960	1960	1957	1960	1958	1957	1959	1961			
35·0	16·6	129·8	32·8	17·9	170·4	33·9	14·4	161·5	32·2	11·7	38·1	31·8	10·4	19·6	1948	1948	Buldana
1950	1959	1959	1951	1959	1958	1951	1957	1961	1960	1949	1948	1960	1961	1950			
35·6	19·4	165·6	35·1	20·0	210·6	35·4	13·9	85·9	32·8	10·0	8·1	34·0	10·0	13·7	1949	1949	Yeotmal
1950	1955	1952	1960	1957	1959	1957	1952	1952	1957	1950	1956	1960	1959	1950			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) A

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Vidarbha—(*contd.*)																					
Chanda . .	35·6	2·8	39·4	39·4	3·9	94·2	44·2	7·2	68·8	46·1	11·7	65·3	48·4	18·9	44·5	47·8	20·0	182·1	40·6	17·8	191·
	1900	1899	1924	1951	1905	1898	1892	1898	1893	1942	1905	1914	1912	1919	1903	1929	1919	1887	1897	1934	188
Pusad . . .	33·0	9·1	0	36·2	10·1	0	..	11·5	8·4	46·0	18·2	0	46·0	21·0	16·4	41·4	22·1	39·0	34·4	21·6	47·
	1961	1961	1961	1961	1961	..	..	1961	1961	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	196
Sironcha . .	33·3	7·8	7·1	37·8	10·6	16·6	41·7	13·9	95·0	44·2	21·1	32·4	46·7	21·1	26·4	46·7	20·1	119·0	38·9	20·1	167·
	1955	1951	1959	1953	1957	1961	1959	1952	1951	1959	1958	1958	1954	1955	1955	1953	1960	1959	1951	1960	196
Coastal Andhra Pradesh																					
Kalingapatam .	33·9	12·2	25·4	37·8	12·8	83·1	38·9	16·1	84·3	41·7	18·3	63·5	45·0	20·6	307·3	43·9	19·8	188·2	38·9	21·7	205·
	1911	1937	1908	1922	1918	1923	1946	1952	1940	1947	1930	1956	1923	1951	1914	1923	1960	1935	1911	1919	195
Vishakhapatam .	33·1	12·8	132·1	36·7	13·3	64·5	38·3	14·4	64·5	39·6	18·3	73·9	43·3	20·0	145·3	44·4	21·1	166·1	38·3	21·3	145·
	1958	1956	1908	1922	1956	1901	1956	1952	1926	1961	1930	1925	1953	1904	1955	1923	1953	1929	1899	1960	1951
Kakinada . .	32·8	14·4	78·2	37·8	15·6	45·0	38·9	17·2	71·6	42·8	18·9	61·0	46·7	21·1	109·7	47·2	21·7	501·4	41·7	21·1	12·
	1950	1946	1921	1896	1918	1893	1934	1906	1905	1947	1942	1937	1934	1917	1914	1923	1940	1941	1897	1938	1947
Nidadavole . .	33·2	14·1	4·0	36·6	15·0	28·0	37·2	19·7	35·7	42·8	22·7	21·8	46·7	21·6	57·7	46·2	22·3	59·9	34·8	21·9	119·0
	1958	1960	1959	1959	1956	1961	1959	1959	1960	1956	1961	1956	1956	1959	1957	1958	1959	1956	1959	1959	1961
Rentachintala .	35·0	10·6	3·8	39·4	12·8	21·3	44·4	15·6	28·5	46·1	18·3	69·1	47·2	18·3	6·3	47·2	21·7	101·6	40·6	21·7	87·6
	1958	1946	1948	1959	1949	1956	1953	1952	1950	1941	1937	1948	1948	1955	1940	1953	1947	194,	1952	1956	1953
Ganavaram .	34·4	15·6	8·4	37·8	15·5	13·8	43·3	17·2	46·7	44·4	21·6	77·5	46·7	21·1	43·4	46·7	20·6	150·4	39·4	21·5	99·6
	1952	1955	1956	1954	1960	1961	1953	1952	1957	1956	1960	1953	1956	1955	1955	1953	1951	1960	1952	1957	1956
Nagarjuna Konda .	34·1	16·8	2·6	38·1	17·6	25·3	42·6	21·8	0	44·1	25·6	1·4	42·9	22·6	23·6	40·3	23·1	48·6	35·8	23·3	60·6
	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
Masulipatam. .	33·3	13·9	76·2	37·2	14·4	96·5	42·2	16·7	150·4	44·4	18·3	101·3	47·8	19·4	82·5	46·1	20·0	133·3	41·7	19·4	115·6
	1946	1945	1908	1927	1889	1901	1892	1906	1926	1892	1926	1942	1906	1893	1904	1924	1961	1915	1897	1893	1835
Ongole. . .	33·9	14·4	27·9	38·3	14·4	47·8	43·3	18·3	52·3	44·4	20·6	16·8	46·1	16·1	102·6	46·1	22·4	81·4	40·0	21·2	80·3
	1946	1946	1953	1954	1945	1959	1953	1945	1951	1956	1950	1956	1956	1949	1949	1953	1961	1961	1952	1957	1956
Nellore . .	35·6	15·0	94·2	39·4	16·1	196·8	43·9	17·2	59·2	45·6	20·6	73·7	46·7	21·7	185·9	46·7	21·1	83·8	45·6	22·2	95·3
	1936	1946	1906	1927	1891	1928	1892	1910	1944	1895	1934	1900	1892	1947	1952	1894	1912	1903	1951	1943	1950
Telangana																					
Ramgundam .	33·9	9·4	10·9	38·9	9·4	14·0	42·8	14·4	21·1	44·7	20·0	62·0	47·2	21·1	65·5	47·2	21·7	140·7	40·0	21·1	119·9
	1957	1953	1953	1951	1949	1961	1953	1952	1951	1961	1956	1961	1948	1949	1957	1953	1959	1953	195	1950	1956
Nizamabad . .	35·6	5·0	59·7	38·3	6·1	72·4	43·3	11·1	43·9	44·4	12·8	76·2	47·2	18·3	71·1	46·1	16·7	246·4	40·0	14·4	298·0
	1928	1899	1943	1954	1911	1928	1928	1892	1950	1942	1905	1937	1923	1917	1922	1931	1902	1914	1904	1931	1958
Hanamkonda .	35·0	8·9	58·4	37·8	10·6	45·7	42·2	15·0	71·1	44·7	17·8	83·6	46·7	17·2	75·7	46·1	20·6	197·6	38·9	17·8	227.8
	1921	1945	1924	1954	1911	1936	1953	1906	1928	1961	1957	1937	1928	1917	1940	1953	1927	1914	1920	1911	1903
Hakimpet (Aerodrome.)	30.7	12·2	0	35·3	13·5	13·2	38·3	16·1	31·2	40·6	18·4	25·9	43·3	18·9	32·5	42·2	18·9	106·9	34·1	19·4	84·3
	1960	1955	..	1959	1961	1958	1959	1958	1958	1956	1957	1956	1956	1957	1955	1953	1954	1955	1960	1959	1957
Bhadrachallam .	34·5	11·1	32·0	38·3	11·7	2·0	42·8	15·6	25·4	43·9	18·3	30·0	46·7	21·7	35·6	46·8	20·6	78·7	39.4	21·7	73·9
	1958	1957	1961	1954	1956	1952	1953	1952	1954	1956	1956	1956	1956	1955	1956	1958	1954	1956	1952	1954	1956
Hyderabad (Begumpet) . . .	35·0	6·1	93·2	37·2	8·9	42·9	42·2	13·2	103·1	43·3	16·1	60·7	44·4	19·4	65·0	43·9	17·8	122·7	37·2	19·4	109·2
	1929	1946	1922	1951	1911	1912	1892	1957	1928	1941	1917	1937	1935	1917	1905	1931	1922	1914	1918	1931	1916
Khammam . .	35·0	9·4	11·4	38·9	11·7	39·6	43·3	16·1	47·0	45·0	18·9	63·0	47·2	21·1	46·5	46·7	21·6	92·7	39·4	20·5	299·7
	1950	1946	1941	1954	1943	1946	1953	1952	1944	1941	1945	1945	1947	1948	1948	1953	1961	1953	1952	1959	1954
Mahbubnagar .	32·6	12·7	0·3	37·0	11·7	7·9	40·0	15·6	43·4	42·2	19·2	65·5	43·3	21·1	79·3	43·3	20·6	82·5	36·8	19·4	104·4
	1960	1957	1958	1961	1956	1958	1953	1952	1958	1956	1958	1957	1956	1955	1952	1953	1955	1961	1957	1952	1956

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
37·2	18·3	179·6	37·2	18·3	249·4	37·8	11·7	164·1	36·1	7·2	70·9	33·9	3·9	54·6	1881	1881	**Vidarbha**—(*contd.*) Chanda
1954	1954	1951	1899	1904	1959	1899	1882	1936	1950	1950	1881	1933	1883	1884			
..	21·6	27·8	..	..	61·6	..	..	95·4	34·0	10·6	0	..	8·4	0	1961	1961	Pusad
..	1961	1961	..	..	1961	..	..	1961	1961	1961	..	..	1961	..			
36·1	18·9	247·4	35·2	21·7	100·9	36·9	14·4	115·8	33·9	10·6	41·0	33·0	9·7	2·6	1950	1950	Sironcha
1950	1954	1953	1957	1951	1959	1957	1954	1957	1957	1950	1961	1960	1961	1959			
																	Costal Andhra Pradesh
36·7	22·2	192·5	36·7	20·9	310·6	35·6	16·7	155·5	33·9	13·3	280·4	31·7	12·2	221·7	1911	1906	Kalingapatam.
1923	1912	1912	1920	1961	1911	1961	1952	1921	1914	1926	1923	1951	1937	1909			
38·2	21·1	121·4	37·8	22·2	148·6	36·8	17·8	293·3	33·9	15·0	270·5	32·8	12·8	191·3	1896	1901	Vishakhapatnam.
1960	1907	1957	1939	1953	1914	1957	1952	1958	1942	1929	1923	1951	1959	1909			
37·8	21·7	146·1	37·2	21·7	285·7	37·2	17·2	281·9	33·9	15·6	276·3	32·2	13·9	130·3	1896	1881	Kakinada.
1902	1955	1937	1920	1958	1956	1907	1949	1936	1951	1910	1923	1899	1902	1882			
34·5	22·4	66·5	34·9	22·1	64·0	36·5	20·8	146·3	33·2	15·5	47·5	33·1	12·9	17·2	1955	1955	Nidadavole.
1960	1957	1957	1957	1960	1961	1957	1960	1960	1958	1959	1967	1960	1959	1960			
39·4	21·7	103·0	38·3	21·3	154·9	38·1	16·7	153·2	36·1	12·2	71·6	34·4	10·0	53·3	1936	1936	Rentachintala.
1950	1958	1958	1946	1958	1954	1957	1950	1945	1951	1950	1956	1951	1936	1952			
36·7	22·0	83·8	36·7	18·2	143·3	36·1	18·3	134·1	35·0	16·2	46·0	33·9	15·0	10·7	1951	1950	Gannavaram.
1952	1959	1955	1957	1957	1954	1951	1952	1956	1951	1960	1956	1951	1961	1952			
36·1	22·6	42·6	35·9	23·6	15·4	35·9	20·6	135·0	32·1	14·3	41·2	32·2	10·6	0	1961	1961	Nagarjuna konda.
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	..			
38·3	21·7	1 5·6	37·8	20·6	116·6	37·2	18·9	502·4	34·4	13·9	335·6	32·2	14·4	159·3	1881	1881	Masulipatam.
1920	1952	1886	1888	1895	1954	1888	1895	1949	1891	1934	1938	1951	1937	1947			
38·5	21·7	66·0	38·9	21·7	232·7	37·8	18·3	184·9	35·2	16·7	258·3	33·9	15·1	87·4	1945	1945	Ongole.
1960	1956	1949	1952	1949	1949	1951	1947	1953	1959	1955	1946	1951	1959	1952			
40·6	21·7	75·2	41·7	21·7	133·6	39·4	18·9	444·0	36·7	16·7	356·9	35·0	14·4	189·2	1891	1891	Nellore.
1899	1912	1923	1899	1945	1909	1900	1895	1950	1915	1939	1936	1909	1895	1902			
																	Telangana
36·7	21·7	89·4	37·3	21·4	106·0	38·4	15·6	84·6	35·2	11·1	70·2	33·9	8·5	3·1	1947	1947	Ramgundam.
1949	1959	1953	1958	1959	1959	1957	1954	1947	1959	1952	1961	1956	1959	1952			
37·8	17·2	157·7	37·2	17·2	251·5	38·9	11·7	196·9	35·6	7·2	80·0	35·0	4·4	49·8	1891	1891	Nizamabad.
1899	1901	1944	1920	1903	1929	1951	1921	1939	1926	1929	1936	1920	1897	1918			
37·2	19·4	199·5	38·3	19·4	304·8	37·8	15·0	136·4	34·4	9·4	92·7	33·9	8·3	42·4	1901	1901	Hanamkonda.
1920	1905	1924	1920	1904	1908	1920	1952	1957	1920	1904	1916	1920	1902	1929			
33.2	19·4	141·2	35·6	17·8	121·7	31 9	15·0	67 3	30.4	12.8	28·7	31·2	12·7	8·4	1952	1952	Hakimpet (Aerodrome.)
1960	1958	1955	1956	1954	1954	1960	1954	1957	1959	1955	1956	1957	1961	1954			
36.0	21·1	119·0	36·6	21·2	58·7	37·6	15.6	68.6	34·1	12·2	44·5	32.8	9·8	40·4	1952	1952	Bhadrachalam.
1960	1952	1959	1959	1961	1952	1957	1952	1953	1957	1953	1956	1958	1961	1952			
36·1	19·4	190·5	36·1	17·8	153·2	36·7	13.3	117·1	33·9	7·8	95·5	33·3	7·2	44·5	1891	1896	Hyderabad (Begampet).
1950	1955	1954	1927	1942	19.8	1896	1954	1903	1909	1939	1927	1930	1945	1918			
36·3	20·2	107·2	37·2	20·6	152·4	37·4	16·7	130·8	33·9	11·7	86·4	33·4	10·0	17·8	1941	1941	Khammam.
1960	1961	1950	1957	1942	1947	1957	1952	1941	1951	1941	1946	1960	1945	1947			
34·4	20·0	78·4	34·4	19·4	79·0	35·1	16·1	68·6	32·7	12·8	82·5	32·5	12·2	1·3	1952	1952	Mahbubnagar.
1953	1956	1961	1952	1954	1955	1957	1952	1952	1957	1955	1958	1960	1956	1956			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Rayalaseema																					
Kurnool . .	36·1	8·3	41·1	38·9	11·1	66·8	41·7	12·8	50·0	44·4	16·1	42·2	45·6	19·4	165·6	44·4	20·0	81·3	38·3	20·6	132·1
	1897	1891	1915	1899	1943	1928	1925	1921	1893	1896	1905	1957	1921	1955	1952	1898	1935	1901	1915	1903	1893
Anantapur . .	34·1	12·2	5·1	37·9	13·3	10·9	40·6	15·0	25·9	42·2	18·3	67·1	42·2	18·9	79·6	41·7	20·6	59·9	36·7	21·1	84·4
	1958	1958	1947	1959	1947	1947	1953	1951	1951	1956	1950	1956	1953	1951	1961	1953	1953	1957	1952	1956	1960
Cuddapah .	37·8	11·7	84·8	40·6	14·4	51·6	43·3	17·2	131·3	45·0	17·8	116·6	46·1	19·4	115·1	45·0	17·8	152·4	40·6	17·2	103·9
	1897	1912	1896	1897	1948	1901	1903	1923	1915	1906	1907	1898	1906	1826	1940	1923	1944	1957	1897	1943	1894
Arogyavaram .	31·6	11·7	19·3	35·0	11·6	22·6	37·2	10·5	18·0	38·4	18·2	50·0	38·9	15·6	80·5	37·2	18·9	69·6	34·4	16·7	10[illegible]·1
	1958	1956	1947	1959	1960	1950	1953	1960	1957	1961	1960	1956	1947	1946	1951	1953	1957	1958	1946	1952	1954
Madras State																					
Madras . .	32·8	13·9	212·9	36·7	15·0	123·2	40·6	16·7	64·5	42·8	20·0	96·3	45·0	21·1	214·9	43·3	20·6	59·2	41·1	21·5	116·3
	1894	1905	1915	1927	1934	1929	1953	1908	1925	1908	1939	1945	1910	1886	1943	1948	1909	1931	1915	1959	1910
Madras (Minambakkam).	30·8	16·1	62·7	35·0	16·2	27·9	40·0	18·3	2·8	41·1	21·1	100·3	42·2	21·1	244·3	42·2	21·0	52·5	39.4	22·0	68·3
	1958	1950	1955	1950	1960	1955	1953	1954	1950	1956	1950	1951	1953	1952	1952	1953	1961	1961	1951	1961	1954
Vellore . .	33·9	11·7	69·1	37·8	12·8	67·3	40·6	14·4	49·8	43·9	17·8	83·1	44·4	19·4	214·4	42·8	20·6	94·2	40·6	20·6	125·2
	1936	1946	1922	1945	1922	1906	1953	1934	1915	1908	1950	1951	1906	1902	1943	1935	1922	1938	1902	1910	1910
Tambaram (Aerodrome)	32·3	18·6	23·3	33·5	16·6	42·2	37·2	20·0	0	40.0	23·2	7·2	43.6	22·8	22·1	41·0	21·9	78·7	36·6	22·9	37·1
	1961	1961	1960	1961	1960	1961	1961	1959	..	1961	1959	1959	1961	1961	1959	1960	1961	1961	1961	1959	1961
Tiruppattur . .	33·3	13·1	8·4	37·2	11·5	20·3	38·8	14·5	47·0	40·2	20·0	13·2	40·5	21·1	20·6	39·1	20·1	26·0	36·9	20·5	89·0
	1959	1960	1961	1959	1960	1960	1961	1960	1960	1960	1961	1961	1959	1959	1961	1959	1961	1959	1960	1961	1960
Cuddalore . .	31·7	13·3	131·4	36·1	14·4	119·4	38·9	16·1	183·1	42·2	19·4	120·4	43·3	21·1	572·0	42·8	21·1	82·5	40·6	18·9	100·8
	1951	1894	1961	1898	1918	1930	1953	1898	1933	1908	1939	1939	1953	1950	1943	1905	1898	1921	1895	1911	1949
Kallakkurichchi .	34·3	15·0	29·7	37·7	15·6	52·8	41·7	17·2	51·3	41·7	20.3	38·4	42·8	20·6	165·9	41·4	21·7	66·3	40·0	21·7	108·7
	1959	1950	1956	1959	1950	1950	1953	1951	1950	1956	1959	1959	1956	1955	1957	1958	1956	1956	1952	1951	1555
Salem . .	37·2	12·8	65·8	39·4	11·1	65·8	41·7	14·4	80·8	42·8	18·3	95·5	42·8	18·3	103·6	42·8	20·0	115·6	40·6	18·9	125·5
	1925	1907	1943	1926	1907	1893	1892	1934	1884	1908	1887	1929	1931	1893	1930	1921	1885	1902	1923	1887	1952
Coimbatore (Pilamedu)	35·9	12·2	21·3	37·3	13·0	49·0	38·7	15·6	17·0	39·7	18·3	111·0	39·4	15·6	69·3	35·7	18·3	23·7	33·5	16·1	39·1
	1957	1949	1961	1959	1960	1950	1959	1949	1951	1961	1949	1958	1952	1949	1957	1959	1949	1959	1958	1949	1949
Coimbatore . .	35·0	11·7	141.5	36·7	12·8	64.8	39·3	15·6	83·8	40·0	17·8	54·9	39·4	18·3	85·6	38·3	18·3	132·6	35·6	16·7	103·6
	1887	1912	1900	1899	1910	1922	1959	1930	1915	1906	1899	1954	1952	1893	1930	1895	1893	1941	1898	1911	1924
Nagapattinam .	31·7	16·1	245·1	35·6	15·6	125·0	40·0	16·7	126·5	41·7	20·0	151·6	42·8	20·6	164·1	41·7	20·6	79·3	41·7	21·7	113·0
	1899	1912	1923	1998	1884	1938	1953	1894	1923	1908	1894	1931	1898	1901	1930	1884	1882	1935	1898	1936	1916
Tiruchchirappalli .	35·6	14·4	114·8	40·0	13·9	137·9	42·2	15·6	80·8	42·8	18·3	160·5	43·3	19·4	183·1	43·9	20·0	73·4	41·1	21·1	91·7
	1925	1884	1909	1906	1884	1891	1892	1896	1906	1896	1937	1889	1896	1955	1930	1888	1911	1894	1921	1926	1916
Vedaranniyam .	30·6	21·0	65·0	31·8	..	0	34·7	..	0	36·5	22·8	0	37·8	22·5	5·2	35·6	20·9	24·4	34·7	24·2	33·2
	1961	1961	1961	1961	..	..	1961	..	..	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961
Atirampatinam	31·4	19·2	83·2	32·5	19·8	2·2	34·4	20·0	0	35·6	24·3	26·4	38·5	24·5	5·8	36·4	24·0	20·6	35·6	23·0	18·2
	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
Madurai	34·4	15·6	152·4	38·3	16·1	188·0	41·7	17·2	100·3	41·7	19·4	166·4	41·7	17·8	102·4	42·2	17·8	105·4	40·6	19·4	124·5
	1936	1907	1921	1906	1884	1929	1882	1909	1947	1935	1909	1891	1956	1920	1961	1935	1897	1927	1884	1891	1893
Madurai Aerodrome	33·3	18·5	15·2	36·1	16·5	6·8	38·0	18·6	3·2	39·5	22·6	51·4	39·9	21·2	66·4	39·1	22·8	12·2	38·4	21·7	53·0
	1959	1960	1961	1959	1960	1959	1959	1959	1960	1961	1959	1960	1959	1961	1961	1960	1960	1961	1960	1960	1960

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Rayalseema
37·8	20·6	121·9	37·8	19·4	200·1	38·3	13·9	146·3	36·1	10·0	80·5	34·4	6·7	71·1	1891	1886	Karnool
1899	1929	1955	1899	1892	1888	1898	1950	1916	1896	1959	1903	1929	1902	1906			
36·7	21·2	77·5	36·1	19·4	108·0	35·2	15·6	78·5	35·0	12·8	99·3	32·2	12·2	22·6	1946	1946	Anantapur
1949	1957	1949	1957	1954	1959	1961	1950	1946	1959	1950	1948	1959	1951	1952			
40·0	19·4	176·0	39·4	19·4	173·5	38·9	16.7	270·4	36·1	13·9	104·7	35·6	10·7	85·1	1891	1881	Cuddapah
1899	1921	1910	1907	1920	1906	1922	1943	1958	1927	1939	1943	1930	1914	1883			
33·9	18·1	61·4	33·9	16·1	88·7	32·8	15·0	157·7	31·1	12·2	53·8	29·4	10·6	72·4	1945	1945	Arogyavaram
1951	1955	1958	1952	1949	1956	1948	1947	1954	1947	1950	1960	1951	1960	1946			
																	Madras State
40·0	20·6	91·7	38·9	20·6	100·3	39·4	16·7	233·7	34·4	15·0	236·2	32·8	13·9	261·6	1881	1881	Madras.
1918	1935	1950	1883	1884	1881	1920	1889	1888	1952	1901	1922	1909	1895	1901			
38·9	21·7	92·2	37·8	22·2	104·9	36·7	20·6	126·3	35·0	16·7	209·6	31·7	16·1	113·8	1949	1949	Madras (Minambakkam).
1953	1957	1955	1952	1956	1956	1951	1952	1958	1951	1954	1960	1951	1949	1952			
39·4	21·1	106·2	38·3	20·0	122·9	37·9	15·6	170·9	35·0	13·9	299·0	33·9	12·2	152·9	1901	1901	Vellore.
1901	1952	1909	1908	1936	1921	1954	1911	1943	1952	1921	1930	1909	1950	1901			
35·4	22·3	46·7	36·8	21·9	79·0	36·5	21·1	112·6	33·0	19·4	170·7	32·2	19·2	72·4	1959	1959	Tambaram (Aerodrome).
1961	1960	1959	1960	1960	1960	1960	1959	1959	1960	1960	1959	1960	1959	1960			
37·6	21·0	38·2	36·6	19·5	120·0	35·4	18·5	56·2	31·1	14·3	76·0	31·8	13·2	5·4	1959	1959	Tiruppattur.
1960	1961	1959	1961	1961	1960	1960	1960	1959	1959	1960	1959	1960	1961	1959			
39·4	20·6	134·6	38·3	20·0	135·6	38·9	18·9	208·3	35·0	16·7	309·9	35·0	11·1	426·5	1891	1891	Cuddalore.
1923	1899	1892	1891	1899	1911	1899	1899	1895	1915	1901	1913	1895	1933	1931			
38·4	21·1	73·9	38·4	20·0	118·0	37·2	18·9	113·0	36·7	16·1	260·9	33·3	16·1	83·3	1948	1948	Kallakurichchi.
1959	1956	1951	1957	1956	1961	1951	1950	1956	1948	1954	1959	1950	1954	1952			
38·9	19·4	176·3	38·9	18·9	250·2	37·8	15·6	165·6	35·6	12·8	121·9	35·6	12·8	131·3	1881	1881	Salem.
1885	1909	1939	1891	1887	1885	1918	1911	1916	1948	1901	1862	1926	1945	1884			
33·3	16·1	52·1	35·6	16·7	116·8	35·0	16·1	65·2	32·8	14·4	85·5	32·2	12·8	37·6	1948	1948	Coimbatore (Peelamedu).
1958	1949	1950	1955	1948	1950	1949	1948	1960	1952	1954	1960	1950	1951	1954			
35·6	17·2	59·4	35·8	17·8	75·7	36·1	15·0	107·4	34·4	13·9	104·7	35·0	12·2	109·7	1881	1881	Coimbatore.
1889	1921	1916	1959	1954	1912	1918	1911	1891	1892	1901	1957	1899	1883	1930			
40·6	20·6	125·7	37·8	20·6	78·7	37·2	20·6	396·2	35·0	16·7	365.5	33·9	16·7	366·8	1881	1881	Nagapattinam
1898	1913	1960	1907	1897	1921	1908	1891	1930	1948	1951	1918	1909	1886	1931			
40·6	20·6	110·0	40·6	20·6	84·3	38·9	18·9	319·0	36·7	16·7	298·2	35·6	14·4	135·6	1881	1881	Tiruchchirappalli
1888	1935	1944	1929	1908	1897	1906	1891	1930	1923	1884	1939	1926	1883	1931			
35·4	..	6·6	35.8	20·2	33·4	34·0	20·7	64·2	32·8	..	45·5	30·5	..	82·4	1961	1961	Vedaranniyam
1961	..	1961	1961	1961	1961	1961	1961	1961	1961	..	1961	1961	..	1961			
36·1	23·2	31·8	36·2	23·0	33·4	35·4	21·8	39·4	31·3	19·5	25·8	30·8	19·0	24·2	1961	1961	Atirampattinam
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
40·0	20·6	112·3	39·4	20·0	154·2	38·3	18·9	128·8	36·1	17·2	169·7	35·0	16·7	165·6	1881	1881	Madurai
1891	1912	1910	1928	1908	1946	1934	1911	1909	1948	1909	1921	1951	1920	1955			
38·7	22·7	44·6	37·2	22·5	51·6	37·3	21·0	50·4	32·0	20·0	76·3	31·8	18·3	21·6	1959	1959	Madurai Aerdrome
1959	1959	1960	1959	1961	1959	1959	1961	1959	1960	1961	1959	1960	1961	1961		..	

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. = Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Madras State— (*contd.*)																					
Pondi . .	31·8	20·1	81·0	32·5	18·6	16·0	32·8	22·1	0·2	33·6	22·5	28·6	39·2	23·6	44·0	38·6	23·2	57·0	37·5	22·1	2[illegible]·5
	1960	1960	1961	1961	1960	1960	1961	1961	1961	1961	1961	1960	1961	1961	1961	1960	1960	1961	1960	1960	1960
Pamban . .	33·3	20·0	127·5	33·3	19·4	88·9	35·0	20·6	63·0	37·2	20·6	81·3	36·7	21·1	102·6	37·2	20·6	55·6	35·0	21·7	130·8
	1902	1956	1902	1906	1939	1902	1953	1959	1938	1930	1949	1954	1923	1891	1930	19[illegible]0	1897	1940	1921	1957	1916
Tuticorin . .	33·3	18·9	90·0	31·1	18·3	41·2	34·8	21·1	62·2	38·3	22·2	126·0	41·1	21·7	41·3	38·9	21·7	11·4	37·9	23·1	21·1
	1955	1956	1961	1958	1956	1959	1961	1956	1957	1956	1961	1961	1956	1955	1958	1958	1960	1956	1958	1960	1954
Pallayankottai .	33·9	18·5	125·6	36·2	19·2	53·1	41·7	21·1	83·3	41·7	22·2	74·9	42·2	22·8	83·6	42·2	21·7	11·0	38·3	22·5	34·3
	1960	1957	1961	1957	1961	1950	1953	1959	1954	1956	1955	1947	1953	1956	1959	1953	1955	1961	1954	1959	1919
Kanniyakumari .	31·6	22·4	53·7	33·4	22·4	27·0	33·0	23·1	55·0	34·6	21·6	42·0	35·6	22·2	40·1	31·7	21·9	31·0	30·6	21·7	41·8
	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961
Coastal Mysore																					
Karwar . .	36·1	14·1	0·8	36·6	14·0	0	36·1	17·7	16·8	38·9	21·0	28·7	34·4	22·4	173·7	34·0	20·6	214·1	31·4	21·1	223·6
	1954	1957	1958	1957	1961	..	1954	1957	1954	1956	1957	1954	1958	1958	1955	1960	1958	1960	1960	1953	1961
Honavar . .	36·5	15·6	18·5	37·2	14·2	1·5	37·8	18·8	19·8	35·0	20·6	6[illegible]·0	35·0	21·1	238·5	33·9	21·1	292·6	32·2	21·0	270·0
	1961	1946	1943	1943	1960	1947	1948	1958	1954	1956	1951	1956	1941	1950	1955	1948	1954	1946	1949	1961	1959
Mangalore (Bajpe).	36·6	17·3	0	36·4	17·9	0	37·7	20·1	0	35·0	21·6	43·2	36·1	20·6	155·7	33·9	20·8	251·2	30·5	21·0	231·2
	1957	1958	..	1959	1960	..	1958	1957	..	1961	1961	1959	1960	1959	1961	1958	1958	1959	1960	1961	1959
Mangalore . .	36·3	16·7	40·6	37·8	16·7	36·1	37·3	18·3	82·8	36·1	20·0	117·1	36·7	18·9	160·9	34·4	20·0	252·0	35·6	20·6	268·2
	1961	1911	1943	1920	1911	1917	1958	1911	1946	1916	1954	1939	1921	1911	1909	1923	1920	1897	1959	1931	1900
Interior Mysore North																					
Bidar . . .	33·9	3·9	51·3	37·2	9·4	29·2	41·7	12·8	36·3	42·2	12·2	110·5	43·3	6·7	86·9	42·8	10·0	184·9	36·1	11·1	245·9
	1925	1901	1906	1926	1950	1928	1910	1925	1938	1946	1918	1907	1931	1918	1943	1953	1918	1943	1924	1900	1955
Gulbarga . .	36·1	6·7	42·4	38·3	11·1	57·1	42·8	12·8	76·0	43·9	13·3	79·3	45·0	18·3	124·7	45·0	12·8	144·8	38·3	17·2	108·5
	1897	1937	1922	1903	1911	1929	1892	1910	1960	1923	1902	1907	1912	1892	1952	1923	1910	1928	1918	1920	1897
Bijapur . .	39·4	7·2	89·1	41·1	8·9	23·6	41·1	13·3	39·9	42·2	16·1	66·0	43·3	17·8	90·2	42·2	17·2	69·0	36·1	16·1	102·1
	1948	1915	1922	1943	1930	1928	1910	1910	1938	1931	1905	19[illegible]3	1912	1910	1956	1923	1903	1961	1901	1902	1953
Raichur . .	35·6	10·0	49·8	38·3	12·8	49·3	42·8	16·7	23·9	43·3	16·1	95·8	45·6	18·3	87·9	43·3	16·1	118·1	38·3	17·8	137·2
	1897	1899	1926	1897	1929	1923	1892	1936	1955	1927	1936	1901	1928	1927	1952	1898	1896	1901	1915	1899	1959
Belgaum . .	32·6	9·9	0	36·3	9·3	40·9	38·2	10·4	38·2	39·4	12·8	69·1	38·6	17·7	129·5	33·0	17·7	132·3	27·2	17·8	162·6
	1959	1957	..	1961	1961	1956	1959	1957	1960	1956	1955	1956	1959	1960	1955	1959	1958	1955	1955	1955	1958
Belgaum (Samra) .	32·8	10·6	0	36·0	10·3	15·5	38·3	9·4	32·8	40·0	14·4	32·5	39·4	17·2	63·7	38·3	18·3	94·2	31·9	18·3	112·0
	1956	1956	..	1957	1961	1956	1953	1957	1960	1956	1955	1960	1953	1955	1955	1953	1956	1955	1960	1956	1958
Gadag . .	34·5	11·1	21·1	37·7	11·1	16·8	40·0	15·0	61·7	41·1	17·2	53·3	41·7	18·9	81·8	40·6	19·4	68·8	34·9	18·9	54·4
	1960	1951	1935	1961	1950	1937	1953	1940	1948	1941	1935	1957	1939	1952	1943	1953	1956	1944	1960	1934	1932
Interior Mysore South																					
Bellary . . .	36·7	10·6	46·2	39·4	12·2	59·9	42·8	14·4	26·7	43·9	16·1	77·0	43·9	18·3	162·3	42·2	18·9	85·3	38·3	19·4	102·9
	1897	1891	1884	1897	1891	1917	1892	1885	1930	1909	1905	1956	1897	1890	1940	1915	1956	1915	1915	1930	1953
Chitradurga . .	33·9	11·1	104·1	36·1	13·3	88·9	38·9	16·1	17·8	39·4	17·2	105·7	41·7	16·7	181·6	37·8	17·2	118·4	34·4	19·9	114·8
	1900	1918	1918	1931	1947	1944	1925	1955	1915	1941	1904	1956	1931	1951	1955	1935	1906	1897	1932	1961	1910
Shimoga . .	33·3	9·5	1·0	37·2	10·4	2·3	38·9	11·7	29·2	38·4	16·4	114·5	39·2	18·3	89·4	36·1	18·3	114·4	32·4	19·3	111·0
	1952	1957	1953	1953	1960	1956	1953	1951	1955	1959	1960	1956	1959	1954	1957	1953	1956	1959	1960	1961	1953
Agumbe* . .	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

X=Highest Maximum Temperature. *Data not available. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Madras State—(*contd.*)
36·5	25·0	7·4	38·2	22·6	31·0	37·0	22·0	99·4	31·9	20·6	63·0	31·9	20·1	15·0	1960	1960	Tondi
1960	1961	1961	1960	1960	1960	1960	1961	1961	1960	1961	1961	1960	1961	1960			
34·4	22·2	73·9	35·0	20·6	108·5	35·0	21·1	133·6	33·3	21·6	137·7	33·9	18·9	218·7	1891	1891	Pamban
1945	1954	1937	1940	1930	1901	1940	1891	1932	1944	1957	1896	1906	1953	1955			
37·8	21·2	14·7	37·9	23·9	12·2	37·6	21·6	167·4	34·4	19·7	134·6	31·7	19·4	188·2	1954	1954	Tuticorin
1957	1959	1956	1958	1955	1955	1959	1961	1957	1955	1959	1956	1955	1955	1955			
38·9	22·4	57·0	40·0	22·8	40·6	38·3	21·2	79·4	36·4	21·0	95·7	35·6	20·0	20·9	1950	1945	Palayankottai
1953	1959	1958	1952	1954	1946	1955	1961	1961	1959	1961	1960	1952	1956	1946			
31·3	22·2	13·6	32·3	22·0	13·2	31·9	23·1	16·6	31·5	21·7	99·8	31·1	21·4	11·6	1961	1961	Kanniyakumari
1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961	1961			
																	Castal Mysore
30·2	21·7	136·7	30·6	21·1	128·4	35·9	18·3	175·3	35·0	15·6	71·6	36·0	14·4	15·0	1952	1952	Karwar.
1961	1955	1955	1955	1954	1960	1960	1952	1954	1953	1952	1955	1960	1956	1959			
31·8	19·4	152·9	32·2	20·6	127·5	37·2	18·3	132·1	36·7	15·6	65·8	37·2	16·1	25·1	1939	1939	Honavar.
1957	1955	1940	1951	1950	1954	1950	1950	1914	1941	1950	1957	1949	1945	1947			
30·0	20·9	142·5	30·5	20·9	95·9	34·0	20·9	70·4	34·3	19·0	72·2	34·6	16·3	68·4	1957	1957	Mangalore. (Bajpe)
1960	1957	1959	1959	1961	1959	1960	1960	1958	1959	1957	1960	1957	1960	1959			
32·2	20·6	232·4	31·7	21·1	184·7	34·4	19·6	181·6	35·6	17·2	112·1	35·6	16·7	153·2	1911	1881	Mangalore.
1932	1911	1931	1955	1950	1900	1941	1961	1913	1941	1909	1958	1909	1950	1933			
																	Interior Mysore North
36·1	9·4	144·3	36·7	8·9	203·2	36·7	8·3	128·3	36·1	6·1	138·4	32·8	2·8	81·8	1896	1896	Bidar.
1924	1900	1947	1924	1918	1949	1901	1900	1903	1918	1900	1896	1923	1918	1906			
37·8	18·3	100·3	37·2	17·8	147·3	37·8	10·0	147·3	35·6	7·8	61·3	34·4	5·6	66·5	1891	1891	Gulbarga.
1899	1920	1910	1926	1954	1928	1899	1905	1893	1940	1915	1948	1920	1945	1906			
35·6	16·7	121·2	36·7	16·1	143·8	37·2	12·2	102·4	35·0	8·3	113·0	33·3	6·7	34·5	1896	1896	Bijapur.
1902	1906	1954	1896	1901	1949	1896	1897	1958	1896	1904	1922	1936	1897	1942			
37·8	17·2	107·7	38·3	17·2	130·8	37·2	15·6	158·7	35·0	11·7	87·6	36·1	10·0	52·1	1891	1896	Raichur.
1915	1908	1914	1897	1924	1949	1920	1943	1916	1920	1924	1919	1899	1945	1903			
29·9	17·8	110·0	31·7	16·3	74·3	33·6	15·3	82·5	33·0	9·4	44·2	34·6	8·9	0	1955	1955	Belgaum
1958	1956	1956	1959	1957	1959	1960	1961	1955	1958	1955	1957	1960	1956	..			
28·9	15·6	86·4	30·6	16·0	59·8	32·0	13·9	91·4	30·6	10·6	59·6	31·9	7·8	2·0	1952	1952	Belgaum (Samra).
1954	1956	1956	1955	1957	1959	1960	1954	1957	1960	1955	1958	1960	1954	1958			
34·4	18·7	80·0	37·8	17·2	136·4	34·7	15·6	171·5	37·2	12·2	82·0	34·1	11·7	56·4	1931	1931	Gadag.
1948	1957	1957	1951	1952	1960	1959	1950	1947	1947	1939	1956	1959	1948	1933			
																	Interior Mysore South
37·8	19·4	105·7	37·8	19·4	127·5	38·9	15·0	111·3	37·6	11·7	162·1	35·6	10·6	33·5	1881	1881	Bellary.
1883	1933	1950	1913	1919	1956	1896	1889	1904	1957	1910	1903	1913	1926	1925			
32·8	18·4	109·2	35·0	15·0	95·5	33·9	15·6	132·1	32·8	8·3	87·4	32·8	8·3	109·2	1896	1896	Chitradurga.
1932	1957	1939	1905	1910	1933	1905	1943	1930	1931	1945	1925	1930	1945	1933			
30·4	16·1	49·8	33·3	16·1	45·7	32·4	11·7	105·6	33·3	8·3	55·1	32·2	8·9	43·4	1950	1950	Shimoga.
1958	1954	1953	1951	1952	1950	1960	1952	1960	1953	1950	1956	1958	1951	1952			
..	..	..	...	..	..	..	..	..	..	..	..	..	..	..	..	..	Augumbe.*
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..			

=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T. *Data not available ..=Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Interior Mysore South—(*contd.*)																					
Balehonnur . .	32·8	10·0	8·4	33·1	11·1	32·3	35·0	12·2	58·7	35·0	13·9	102·6	35·6	15·6	218·4	32·8	15·6	172·7	28·9	13·9	219·2
	1953	1946	1947	1961	1940	1952	1949	1940	1936	1950	1952	1956	1959	1952	1955	1953	1943	1941	1945	1955	1953
Hassan . . .	32·2	7·8	59·7	35·0	8·3	50·3	36·7	9·4	57·9	37·2	14·4	72·9	37·8	14·4	143·8	34·4	16·1	94·5	31·1	15·0	82·5
	1955	1899	1921	1906	1898	1941	1934	1898	1954	1942	1905	1899	1906	1923	1903	1953	1936	1941	1905	1918	1929
Bangalore . .	32·2	7·8	65·8	34·4	9·4	67·3	37·2	11·1	50·8	38·3	14·4	90·7	38·9	16·7	153·9	37·8	16·7	101·6	33·3	19·1	105·4
	1925	1884	1908	1926	1884	1901	1925	1884	1911	1931	1894	1939	1931	1945	1909	1926	1890	1891	1914	1882	1949
Bangalore Aerodrome	31·2	11·7	13·0	34·4	12·2	28·5	36·6	11·7	18·5	38·3	17·2	58·9	37·1	13·7	68·6	35·6	16·7	70·6	32·3	16·1	66·3
	1959	1956	1958	1959	1950	1950	1959	1950	1954	1960	1950	1953	1960	1949	1952	1953	1950	1949	1960	1953	1952
Mysore . .	32·8	11·1	26·4	36·1	12·2	59·4	37·8	13·3	47·5	39·4	16·1	133·3	37·8	15·6	184·4	37·2	15·0	68·6	33·3	15·8	71·6
	1936	1953	1926	1931	1946	1917	1931	1933	1923	1917	1918	1921	1936	1904	1957	1926	1936	1915	1899	1961	1918
Kerala																					
Calicut . . .	35·6	17·2	104·4	35·6	16·1	150·1	35·0	19·4	83·3	37·2	21·1	143·3	37·2	20·0	268·5	33·9	20·6	250·2	32·1	21·1	264·2
	1952	1913	1909	1952	1925	1945	1954	1896	1936	1926	1938	1899	1920	1937	1932	1948	1956	1941	1931	1956	1922
Palghat . .	36·4	15·6	31·5	38·9	18·8	29·7	41·4	20.4	78·7	41·7	20·4	90·4	40·8	20·6	236·2	35·6	20·6	108·8	32·6	20·6	107·7
	1958	1946	1948	1959	1960	1952	1959	1959	1948	1950	1959	1954	1959	1955	1957	1948	1956	1961	1969	1956	1949
Fort Cochin . .	33·3	17·8	133·3	34·9	19·4	105·4	33·9	21·1	125·8	34·1	21·7	160·5	34·6	21·1	253·2	32·7	20·6	185·4	32·7	21·1	213·9
	1955	1929	1921	1960	1932	1899	1949	1954	1960	1959	1943	1956	1959	1939	1933	1958	1935	1900	1961	1943	1910
Cochin Naval (Air Station).	34·3	19·1	28·8	33·4	21·1	73·7	34·8	21·6	19·1	34·7	21·7	177·0	34·6	22·2	189·3	32·8	21·7	170·5	31·4	20·6	110·7
	1959	1957	1957	1959	1956	1956	1961	1959	1958	1961	1956	1956	1959	1958	1961	1958	1956	1958	1958	1956	1957
Alleppey . .	35·0	18·3	38·1	35·8	19·9	65·2	36·7	21·1	69·9	36·0	21·1	274·3	35·6	20·6	146·8	34·4	21·1	227·3	31·7	20·6	150·6
	1959	1957	1951	1960	1960	1959	1949	1955	1947	1961	1948	1950	1959	1955	1960	1948	1956	1948	1953	1950	1949
Punalur . . .	36·6	15·7	44·5	37·8	15·8	32·6	39·3	17·9	39·9	37·9	20·2	61·2	37·1	21·3	120.2	33·8	21·3	165·0	32·9	21·0	88·6
	1959	1957	1958	1959	1959	1961	1959	1957	1958	1959	1957	1959	1957	1959	1961	1958	1958	1961	1958	1957	1957
Trivandrum . .	35·5	18·9	52·1	35·0	18·9	88·1	36·2	20·6	78·7	35·3	21·7	129·8	35·2	21·2	277·9	34·4	20·0	154·7	31·7	21·1	151·6
	1959	1950	1918	1955	1946	1927	1959	1956	1954	1960	1956	1937	1957	1960	1926	1953	1956	1944	1956	1959	1910
Trivandrum. (Aerodrome) . .	33·9	18·3	60·8	33·4	18·3	83·2	35·0	20·0	43·2	34·4	21·1	82·3	34·5	22·2	100·8	32·9	21.1	140·4	32·2	20·2	135·2
	1953	1956	1961	1959	1956	1959	1956	1961	1958	1956	1956	1956	1959	1956	1960	1959	1956	1961	1956	1959	1959
Arabian Sea Islands																					
Amini . . .	36·7	18·9	74·2	35·7	19·4	18·0	37·2	20·6	32·0	37·7	20·0	121·9	37·5	21·7	161·0	35·9	21·1	211·1	33·3	21·7	180·3
	1950	1912	1918	1959	1923	1902	1950	1950	1923	1960	1923	1901	1959	1941	1933	1958	1930	1909	1945	1910	1907
Minicoy . .	32·8	17·8	126·2	32·2	17·2	83·0	32·8	19·4	54·6	35·6	21·7	121·2	36·7	21·7	238·5	33·9	22·2	148·6	31·7	21·1	154·9
	1948	1953	1926	1948	1946	1961	1941	1955	1936	1942	1959	1950	1932	1956	1949	1935	1945	1926	1953	1938	1929
Hill Stations excluding Kashmir																					
Dalhousie . .	21·7	—5·0	134.6	29·4	—2·8	134·6	30·7	—0·6	149·6	29·8	1·1	112·3	33·3	6·7	53·9	35·5	8·9	99·5	32·8	8·4	232·6
	1952	1953	1950	1953	1957	1949	1959	1958	1959	1959	1955	1951	1952	1959	1955	1960	1952	1960	1953	1959	1957
Dharmsala .	21·1	—0·5	76·4	25·0	—1·6	65·0	28·3	3·4	72·4	33·8	7·3	52·8	36·7	11·1	74·9	38·3	14·5	88·2	35·3	16·7	262·8
	1961	1960	1959	1953	1961	1954	1959	1960	1956	1958	1960	1957	1952	1951	1956	1958	1957	1959	1957	1955	1959
Simla . . .	18·9	—10·6	78·7	20·6	—8·3	63·5	23·9	—5·6	63·0	28·3	—1·4	39·6	30·0	4·4	97·8	30·6	7·8	122·2	28·9	10·0	167·1
	1949	1945	1888	1953	1950	1908	1945	1933	1901	1941	1960	1890	1944	1924	1883	1932	1922	1906	1901	1932	1922
Dharmpur .	..	..	105·2	..	..	111·0	..	..	104·1	..	..	78·7	..	..	56·9	..	..	91·4	..	..	147·3
	..	..	1961	..	..	1961	..	..	1955	..	..	1957	..	..	1957	..	..	1953	..	..	1952
Lokpal . .	14·0	—16·1	77·5	0	—13·9	75·0	—1·9	—11·3	50.0	3·4	—11·1	34·3	10·0	—7·8	38·6	11·7	—3·3	37·0	11.7	1·7	77·4
	1957	1955	1955	1956	1957	1959	1961	1961	1960	1961	1957	1957	1956	1955	1957	1960	1955	1960	1961	1956	1958

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Interior Mysore South— (*contd.*)
29·4	16·1	179·8	30·6	13·3	83·3	29·4	12·8	111·8	29·4	10·0	55·9	30·3	8·3	56·9	1931	1931	Belchonnur
1947	1951	1949	1936	1935	1955	1959	1952	1960	1951	1934	1932	1945	1937	1937			
31·1	15·6	79·8	32·2	13·9	104·0	32·2	11·7	163·2	31·1	8·3	115·8	31·1	6·7	80·8	1896	1896	Hassan
1932	1925	1897	1905	1906	1959	1905	1960	1958	1927	1904	1925	1926	1907	1906			
33·3	14·4	162.1	33·3	15·0	124·7	32·2	13·3	116·8	31·1	10·6	114·5	31·1	8·9	67·3	1881	1881	Bangalore
1889	1882	1890	1951	1883	1912	1934	1889	1935	1923	1889	1916	1926	1883	1941			
31·1	15·0	79·6	32·8	15·6	95·8	32·1	14·4	169·2	31·7	11·7	83·6	30·1	10·4	20·8	1948	1948	Bangalore Aerodrome
1958	1948	1960	1951	1954	1958	1958	1959	1953	1953	1950	1950	1957	1960	1952			
33·9	16·7	95·3	33·3	15·0	129·3	32·8	13·9	111·5	32·2	11·1	105·2	31·7	10·6	78·5	1896	1896	Mysore
1899	1928	1910	1936	1906	1940	1905	1917	1902	1918	1901	1915	1923	1945	1952			
																	Kerala
32·2	20·6	204·5	33·9	21·1	179·1	34·4	20·0	189·2	34·4	16·1	192·3	34·8	16·1	115·1	1891	1881	Calicut
1953	1950	1924	1952	1954	1955	1897	1917	1940	1929	1901	1925	1957	1895	1942			
31·7	20·6	109·5	35·6	20·6	86·9	35·0	20·6	95·4	35·6	17·2	65·8	34·5	16·7	89·7	1943	1943	Palghat
1947	1946	1956	1955	1954	1944	1945	1951	1959	1952	1954	1948	1958	1945	1946			
32·2	21·1	155·7	31·1	21·1	111·8	32·2	21·1	236·2	32·8	19·4	121·4	34·4	19·4	154·7	1926	1881	Fort Cochin
1929	1946	1947	1955	1950	1936	1930	1943	1984	1953	1944	1920	1961	1945	1946			
30·6	21·6	95·5	30·9	21·6	90·0	34·1	22·2	138·2	32·9	21·2	69·9	34·2	18·8	50·6	1956	1956	Cochin (Naval Air Station)
1959	1958	1958	1961	1961	1961	1957	1956	1957	1961	1959	1957	1957	1959	1959			
31·7	21·1	139·2	32·2	21·7	134·1	32·8	21·1	163·1	34·4	20·6	132·3	35·0	17·8	82.5	1944	1944	Allgppey
1949	1948	1947	1951	1961	1955	1946	1950	1945	1949	1954	1945	1951	1944	1947			
32·7	21·2	84·0	34·3	19·4	69·6	34·9	18·3	164·6	34·5	17·4	129·2	34·4	16·6	49·1	1957	1957	Punalur
1959	1961	1960	1957	1957	1959	1959	1960	1960	1961	1957	1960	1958	1960	1957			
32·8	20·6	102·4	33·3	21·1	125·5	33·3	21·1	215·9	34·3	18·9	162·8	34·4	18·9	148·8	1931	1889	Trivandrum
1953	1946	1932	1946	1950	1907	1940	1950	1908	1961	1944	1948	1955	1945	1919			
32·4	21·1	55·6	32·8	21·7	116·8	31·7	21·7	82·8	33·3	20·6	114·8	32·8	18·3	41·7	1954	1954	Trivandrum Aerodrome
1960	1955	1958	1955	1956	1955	1957	1955	1955	1961	1954	1955	1957	1955	1955			
																	Arabian Sea Island
33·3	22·2	241·8	33·9	21·7	217·7	35·9	20·6	135·4	35·0	18.3	88·9	35·1	18·9	119·4	1896	1896	Amini
1960	1925	1909	1940	1950	1915	1958	1928	1961	1949	1910	1932	1960	1908	1925			
31·7	21·1	200·7	32·2	21·7	107·7	33·3	19·4	128·3	32·5	17·2	132·1	32·2	18·3	187·5	1896	1896	Minicoy
1934	1934	1930	1937	1954	1916	1931	1945	1910	1961	1942	1907	1957	1955	1898			
																	Hill Stations excluding Kashmir
26·2	11·7	243·2	26·2	10·6	274·0	27·9	−2·2	287·0	25·7	0·1	97·8	23·9	−3·3	174·2	1947	1947	Dalhousie.
1957	1957	1959	1959	1953	1959	1961	1959	1955	1958	1960	1957	1952	1954	1960			
29·5	16·2	316·9	29·4	14·4	257·2	28·3	8·9	196·9	24·7	7·2	38·1	22·2	1·7	60·5	1951	1951	Dharmsala.
1957	1957	1958	1951	1953	1959	1953	1961	1955	1958	1951	1957	1953	1961	1958			
27·8	10·6	227·1	25·0	5·0	135·9	23·9	0·2	113·0	21·1	−1·1	68·8	20·4	−6·1	76·5	1896	1881	Simla.
1951	1957	1901	1946	1940	1892	1938	1961	1884	1952	1911	1894	1960	1937	1923			
..	..	165·1	..	..	213·4	..	..	199·4	..	..	130·8	..	..	31·0	..	1947	Dharmpur.
..	..	1954	..	..	1955	..	..	1956	..	..	1951	..	..	1958			
11·7	2·2	50·6	10·9	−2·2	55·4	8·9	−7·8	66·0	8·9	−12·1	38·9	2·2	−16·7	100·0	1951	1951	Lokpal
1961	1956	1960	1959	1951	1951	1960	1954	1956	1952	1957	1954	1953	1952	1961			

R—Heaviest Rainfall in 24 hours ending at 08 0 hrs. I. S. T.

..—Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hill Stations excluding Kashmir —(*contd.*)																					
Badrinath	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22·0	6.1	8.2	20·0	10·0	121·4
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1960	1960	1958	1958	1958	1958
Joshimath	18·2	—4·4	57·0	20·4	—3·9	54·8	24·9	—3·5	42·4	27·8	3·7	7·5	31·1	9·6	21·5	32·5	12·1	55·8	28·8	15·3	61·5
	1961	1960	1961	1961	1961	1959	1959	1960	1960	1961	1959	1960	1960	1961	1961	1961	1960	1960	1959	1959	1969
Mussoorie	21·1	—5·0	90·9	23·3	6·7	82·0	26·1	—2·5	62·0	28·9	—0·6	43·2	34·3	5·6	50·0	31·7	5·3	139·9	29·4	12·2	196·9
	1949	1935	1943	1953	1959	1919	1945	1960	1944	1956	1944	1942	1919	1947	1943	1935	1957	1936	1949	1939	1942
Mukteswar Kumaun	19·4	—6·1	81·3	23·9	—7·8	76·5	25·0	—3·3	67·8	27·8	—1·7	49·9	29·4	3·3	71·4	30.2	6·7	220·7	30·6	9·4	159·5
	1910	1953	1945	1953	1905	1905	1908	1907	1914	1956	1937	1919	1956	1920	1916	1961	1903	1921	1901	1930	1907
Nainital	18·4	—5·6	77·5	21·7	—3·9	72·9	21·7	—1·7	60·2	26·4	3.9	35·6	27·8	10·0	208·3	28·3	11·1	141·2	26·1	14·4	223·5
	1958	1953	1953	1953	1961	1961	1958	1960	1954	1960	1957	1963	1956	1958	1956	1953	1957	1956	1954	1955	1957
Walong*																					
Kalimpong	26·2	0·6	40·6	26·2	3·3	45·0	27·8	4·6	50·8	30·6	8·3	69·6	30·5	10·0	122.4	31·1	13·3	302·0	30·0	14·5	195·8
	1961	1945	1957	1961	1915	1940	1923	1957	1959	1939	1914	1948	1960	1955	1938	1960	1954	1950	1961	1960	1939
Darjeeling	18·9	—3·9	134.6	17·2	—5·0	42·9	23·3	—0·6	72·9	26·7	1·1	135·1	23·9	5·6	232.9	26·7	8·3	454·1	25·0	3·9	200·9
	1952	1953	1957	1955	1905	1940	1935	1908	1951	1910	1933	1916	1916	1939	1887	1902	1938	1950	1919	1944	1959
Kohima	19·6	5·0	21·6	22·2	3·8	14·7	29·1	7·1	36·1	32·2	9·4	33·6	33·9	12·8	74.9	29·5	15.0	105·9	28·9	15·4	74·9
	1959	1956	1957	1954	1959	1954	1959	1957	1953	1956	1957	1955	1959	1952	1956	1959	1953	1957	1961	1961	1954
Shillong	21.1	—2·8	52·3	24·4	—2·8	41·1	28·9	—0·6	189·5	30·0	6·7	117·9	30·7	5·7	169.7	29·1	11·7	415·3	28·3	15·0	205·7
	1944	1937	1957	1952	1950	1914	1924	1906	1929	1954	1946	1932	1960	1941	1914	1958	1930	1934	1932	1956	1952
Cherrapunji	26·7	0	85·3	28·9	0·6	91·9	30·6	0·6	306·1	28·3	3·9	462·3	28·9	3·3	812.0	27·8	11·7	973·8	28·3	11·7	838·2
	1913	1913	1929	1913	1950	1907	1913	1912	1910	1938	1911	1922	1958	1917	1916	1942	1910	1956	1937	1910	1910
Abu	26·3	—1·1	37·9	28·9	0	40·6	33·3	3·9	27·2	36·9	10·0	27·4	38·3	11·1	92.7	38·3	13·9	343·1	32·8	16·1	460·5
	1961	1929	1888	1960	1950	1906	1892	1945	1927	1958	1926	1959	1881	1892	1917	1897	1940	1945	1939	1910	1943
Aijal	25·0	3·9	42·4	27·8	3·9	37·6	31·6	5·6	102·9	33·3	10·6	76·2	33·1	10·0	131·8	31·1	9·4	85·1	30·6	14·4	148·6
	1954	1945	1945	1960	1950	1959	1960	1947	1959	1938	1933	1951	1960	1961	1958	1938	1944	1944	1945	1941	1946
Pachmarhi	27·8	—1·1	94·2	31·7	—0·6	52·1	36·1	3·3	55·1	40·0	8·9	38·6	40·6	15·0	35·3	40·6	15.6	201·9	37·4	16·1	338·3
	1946	1935	1957	1953	1929	1928	1892	1906	1936	1942	1905	1935	1954	1933	1933	1889	1931	1916	1960	1941	1882
Mahabaleshwar	28·9	6·1	22·1	31·4	3·9	29·0	33·9	9·4	33·0	36·1	11·1	95·0	35·3	13·9	57·9	32·2	12·8	362·7	23·9	13·8	381·2
	1938	1945	1943	1961	1942	1938	1953	1940	1955	1934	1955	1937	1961	1955	1956	1953	1943	1961	1951	1957	1958
Mercara	31·7	9·4	30·0	31·7	8·9	31·7	33·3	10·6	55·4	33·9	10·6	87·6	35·0	9·4	174·0	30·0	10·0	266·4	28·9	11·2	364·5
	1954	1946	1906	1911	1936	1950	1921	1955	1928	1896	1955	1915	1902	1955	1909	1939	1955	1961	1955	1958	1924
Ootacamand	23·9	—1·7	114·8	26·7	0	51·6	25.6	3·9	96·2	27·2	5·0	84·1	26·7	4·4	184·4	25·0	5·0	133·1	21·1	6·7	102·4
	1959	1921	1909	1945	1953	1917	1949	1959	1958	1942	1959	1947	1941	1917	1955	1944	1958	1941	1949	1908	1902

X=Highest Maximum Temperature. *Observatory closed from 16-8-1961. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hill Stations including Kashmir—(*Contd.*)
21·7	—7·8	27·0	18·3	6·1	22·7	16·1	1·1	25·0	13·9	..	0	..	..	..	1958	1958	Badrinath
1959	1958	1959	1958	1958	1958	1959	1959	1960	1958	..	..	..	..	..			
28·0	15·0	50·4	26·9	13·7	43·0	25·6	1·8	40·4	19·5	1·2	22·5	20·0	—2·4	70·0	1959	1959	Joshinath
1959	1959	1960	1961	1959	1959	1960	1961	1961	1960	1960	1959	1960	1961	1961			
25·6	12·2	302·3	27·2	6·1	199·6	25·6	2·6	198·1	25·0	—2·1	30·5	31·7	—3·9	111·0	1926	1926	Mussoorie
1957	1937	1931	1946	1940	1947	1951	1961	1956	1952	1960	1928	1953	1954	1957			
26·1	11·1	203·7	25·6	6·7	254·5	25·0	1·7	182·4	21·7	—1·1	45·2	21·7	—5·0	90·7	1901	1901	Mukteswar (Kumaon)
1928	1919	1948	1946	1940	1914	1909	1913	1910	1953	1918	1927	1944	1954	1957			
25·1	12·8	180·7	23·9	10·6	313·7	22·6	4·4	300·7	21·1	1·1	15·2	21·2	—3·3	153·7	1953	1953	Nainital
1957	1956	1954	1959	1953	1957	1960	1961	1956	1953	1960	1957	1957	1961	1957			
																	Walong*
30·9	10·0	141·7	30·2	13·9	206·0	31·1	8·9	206·3	26·8	3·9	50·8	26·7	—0·6	29·0	1921	1926	Kalimpong.
1957	1955	1950	1961	1924	1929	1960	1944	1929	1960	1944	1948	1953	1922	1934			
26·7	8·3	237·5	26·7	10·0	492·8	23·3	4·4	334·5	22·2	—0·6	219·7	20·0	—1·7	31·2	1891	1881	Darjeeling.
1957	1946	1915	1900	1940	1899	1914	1913	1929	1943	1951	1912	1947	1905	1885			
30·6	17·1	102·1	27·8	15·9	95·3	27·2	12·1	83·8	24·5	7·7	68·8	19·5	4·3	7·6	1952	1952	Kohima.
1957	1959	1954	1961	1957	1953	1956	1961	1954	1957	1961	1955	1958	1961	1961			
29·2	14·4	118·1	27·8	11·7	256·2	27·2	5·6	296·2	25·6	1·1	96·0	22·8	—1·7	41·1	1906	1906	Shillong.
1957	1932	1916	1946	1940	1960	1938	1921	1946	1943	1937	1950	1918	1929	1926			
29·2	12·8	682·7	28·9	12·8	632·2	29·4	10·0	590·5	26·7	6·7	332·2	23·3	3·3	189·7	1906	1906	Cheerrapunji.
1957	1943	1932	1906	1925	1951	1938	1947	1919	1915	1946	1917	1951	1913	1926			
31·1	15·0	484·9	31·2	15·0	469·1	31·7	10·6	148·1	28·9	6·1	43·7	27·8	—0·6	25·4	1881	1881	Abu
1883	1913	1941	1960	1909	1950	1941	1947	1917	1929	1938	1896	1941	1929	1898			
29·4	12·8	137·4	29·4	15·6	136·1	29·3	8·9	236·0	28·3	7·8	86·3	26·7	5·6	57·9	1938	1938	Aijal.
1944	1946	1943	1949	1941	1938	1958	1947	1959	1943	1960	1960	1947	1947	1945			
30·0	15·0	458·7	35·6	12·8	376·2	31·7	6·7	164·1	28·3	2·2	99·1	27·8	—1·1	63·0	1881	1881	Pachmarhi
1899	1939	1913	1931	1940	1961	1920	1933	1955	1957	1912	1912	1941	1926	1885			
26·7	13·9	339·9	27·8	12·2	327·1	30·6	10·7	277·5	28·9	10·0	148·6	28·3	8·3	39·6	1931	1929	Mahabaleshwar.
1950	1957	1956	1951	1935	1930	1957	1961	1961	1950	1955	1948	1953	1940	1933			
26·7	12·2	194·6	27·2	12·2	103·4	28·3	10·6	151·6	27·8	10·6	86·4	28·9	9·4	85·9	1891	1881	Mercara.
1951	1920	1884	1951	1935	1938	1899	1948	1887	1918	1947	1925	1903	1937	1902			
21·7	6·7	60·5	22·8	4·4	65·3	21·8	0	102·4	24·4	—1·1	209·8	24·5	—1·1	152·9	1901	1901	Ootacamund.
1948	1957	1909	1951	1958	1951	1960	1943	1916	1961	1949	1939	1960	1947	1941			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T.

.. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AN

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Hill station excluding Kashmir—*contd.*																					
Coonoor	25·6	1·7	196·6	26·7	2·8	207·5	26·7	5·0	157·5	27·8	8·9	179·4	29·4	11.0	193·0	27·8	9·4	97·3	25·0	11·1	46·0
	1942	1946	1943	1945	1939	1936	1943	1949	1951	1956	1944	1960	1931	1959	1957	1953	1936	1939	1952	1955	1960
Kodaikanal	24·4	2·8	194·8	24·4	4·4	158·7	26·7	4·4	106·7	26·1	8·2	123·7	27·8	7·8	131·1	25·0	5·0	69·5	22·2	8·9	79·3
	1916	1950	1943	1914	1955	1925	1926	1955	1947	1925	1958	1955	1923	1955	1955	1915	1912	1947	1918	1910	1924
Nepal																					
Kathmandu	25 0	—2·8	36·6	28·3	—1·1	30·7	33·3	1·1	47·2	37·2	4·4	43·4	37·5	6·7	55·6	37·8	13·2	108·5	32·8	16 1	167·4
	1946	1955	1942	1922	1931	1961	1938	1948	1943	1954	1945	1949	1957	1960	1956	1958	1958	1950	1937	1928	1954
Sikkim																					
Lachen	18·9	—9·7	66·0	18·9	—8·3	30·5	18·9	—6·7	43·2	20·0	—5·6	30·5	20·0	0·6	33·0	22·2	5·6	45·7	21·7	6·1	82·0
	1958	1961	1957	1958	1961	1959	1960	1958	1956	1960	1958	1955	1960	1958	1956	1961	1958	1952	1959	1958	1959
Hydrometeorological Observatories																					
Damodar Catchment																					
Tilaiya	30·4	4·9	55·4	31·8	6·9	27·0	38·0	10·1	34·0	41·2	17·0	17·8	43·4	20·0	28·4	43·7	20·3	69·6	38·2	20·0	105·4
	1958	1959	1957	1958	1960	1961	1958	1957	1960	1961	1959	1958	1957	1960	1961	1958	1961	1957	1958	1958	1959
Hazaribagh	26·9	4·1	39·1	30·4	4·1	26·6	35·9	10·7	6·5	40·2	15·0	4·5	40·9	18·9	31·2	41·2	18·9	169·6	33·3	21·6	60·6
	1961	1961	1959	1960	1961	1961	1959	1960	1960	1961	1959	1959	1960	1961	1961	1960	1961	1961	1960	1960	1959
Konar	..	..	2·4	..	..	38·6	..	..	0	..	..	0	..	..	43·4	..	..	41·0	..	..	34·6
	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961
Bokaro	31·8	2·8	49·5	35·0	2·2	47·0	41·1	8·2	30·5	43·4	14·3	46·2	45·0	17·2	45·7	45·6	21·1	70·9	37·4	21·1	216·1
	1958	1956	1953	1952	1950	1961	1955	1957	1957	1961	1957	1951	1956	1951	1958	1958	1959	1950	1951	1958	1953
Maithon	29·4	7·8	27·2	34·7	8·1	64·3	39·1	12·2	11·4	44·7	18·3	8·6	45·8	20·0	31·2	45·5	20·6	87·9	36·6	22·8	53·
	1960	1960	1961	1960	1960	1961	1960	1961	1957	1960	1960	1958	1960	1961	1958	1961	1960	1957	1961	1961	1961
Ramgarh	33·0	2·2	25·7	35·6	4·8	54·0	41·1	7·8	20·1	43·9	13·9	41·0	46·1	19·4	76·4	46·1	20·6	140·0	46·5	22·2	88·1
	1958	1955	1953	1952	1957	1961	1955	1957	1958	1956	1953	1959	1956	1951	1959	1955	1960	1961	1961	1959	1957
Panchet Hills	32·2	6·7	41·7	34·9	8·9	53·4	41·1	12·2	24·4	48·8	16·4	11·9	46·9	20·6	43·2	46·1	22·2	90·9	38·3	21·7	129·0
	1958	1955	1954	1958	1956	1961	1955	1954	1958	1961	1957	1956	1961	1956	1958	1958	1953	1957	1961	1957	1953
Durgapur	31·7	7·9	14·7	35·2	8·4	63·5	40·0	13·9	22·0	45·0	18·9	14·5	45·8	21·1	60·5	46·4	16·1	132·1	37·2	1·1	84·9
	1958	1959	1957	1960	1961	1959	1958	1961	1960	1961	1961	1959	1958	1961	1960	1958	1961	1957	1958	1961	1959
Mahanadi Catchment																					
Ginabahar	31·7	3·6	18·0	35·0	2·2	20·0	40·6	8·9	16·5	43·5	14·4	20·3	45·6	20·0	34·3	45·0	17·7	210·4	37·2	18·1	93·5
	1958	1959	1960	1956	1959	1961	1955	1957	1957	1961	1957	1961	1956	1958	1956	1955	1959	1961	1958	1958	1956
Hirakud	32·2	9·3	32·2	36·1	10·0	39·8	42·2	14·9	57·1	45·0	18·7	11·6	46·7	22·2	24·1	46·7	22·7	151·4	38·2	22·2	178·8
	1955	1960	1960	1956	1956	1961	1955	1957	1958	1956	1957	1961	1956	1955	1956	1955	1960	1961	1958	1955	1958
Bhimkund	31·3	4·7	13·5	35·3	8·5	40·0	40·1	13·5	23·3	43·9	15·8	44·7	43·8	15·8	45·0	44·9	21·3	73·0	33·4	21·3	100·3
	1958	1959	1961	1960	1960	1961	1959	1961	1960	1959	1960	1958	1958	1958	1959	1958	1959	1959	1960	1960	1959
Sonepur	32·2	8·3	7·4	38·3	9·4	38·4	42·2	9·4	22·0	44·7	11·7	19·3	46·1	18·3	49·8	46·7	21·8	142·2	37·1	16·1	166·4
	1955	1960	1959	1955	1956	1961	1955	1960	1960	1961	1960	1959	1956	1960	1961	1955	1959	1959	1958	1957	1958
Khijrawan	32·2	6·3	13·4	34·3	5·3	14·7	38·9	11·8	40·9	42·8	17·3	34·3	44·4	21·1	31·7	47·6	21·2	104·0	44·9	21·3	153·8
	1958	1961	1960	1957	1958	1957	1961	1957	1957	1961	1961	1957	1960	1958	1957	1957	1960	1959	1957	1960	1960
Narmada Catchment																					
Bagra Tawa	33·3	2·8	31·2	37·8	4·2	15·5	41.7	9·1	25·4	45·3	13·9	14·6	47·2	20·6	29·0	46·1	20·6	88·1	37·8	17·2	281·2
	1961	1954	1951	1953	1957	1955	1953	1957	1957	1958	1955	1960	1954	1955	1956	1953	1955	1951	1958	1956	1959

X=Highest Maximum Temperature. N=Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UP TO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hill Stations excluding Kashmir —(contd.)
24·4	8·9	70·6	24·4	8·9	73·1	25·6	6·1	139·9	24·4	3·3	163·1	25·6	2·2	228·6	1931	1931	Coonoor.
1944	1953	1933	1934	1935	1955	1941	1933	1938	1938	1942	1948	1941	1956	1952			
21·1	8·3	118·9	21·7	8·9	104·1	21·1	6·1	147·1	21·7	3·9	197·1	22·8	2·8	133·1	1901	1901	Kodaikanal.
1905	1913	1935	1928	1907	1914	1914	1935	1930	1927	1901	1948	1910	1922	1903			
																	Nepal
33·3	16·1	101·6	33·3	13·3	71·4	33·3	5·6	74·9	29·4	0·6	28·5	28·3	—2·8	15·2	1914	1935	Kathmandu.
1939	1954	1945	1938	1940	1936	1938	1934	1961	1931	1938	1948	1917	1954	1937			
																	Sikkim
21·4	6·1	57·9	22·2	—0·6	91·8	19·4	1·1	58·0	15·6	—2·5	22·1	14·4	—6·4	30·5	1958	1951	Lachen.
1961	1958	1952	1960	1958	1960	1959	1960	1959	1959	1961	1951	1960	1961	1954			
																	Hydrometeorological Observatories
																	Damodar Catchment
34·7	22·4	156·2	36·9	21·3	115·6	33·6	14·0	190·6	30·7	9·4	0	28·8	4·4	4.8	1957	1957	Tilaiya.
1957	1957	1957	1960	1960	1958	1960	1957	1961	1958	1960	..	1957	1961	1961			
31·1	21·6	69·0	31·7	20·8	67·6	30·4	12·8	107·2	26·9	7·8	0	26·6	0·3	11.0	1959	1959	Hazaribagh.
1961	1961	1961	1960	1961	1960	1961	1961	1959	1959	1960	..	1960	1961	1961			
..	..	64·0	..	..	35·6	..	..	77·2	..	..	0·5	..	..	3·8	..	1961	Konar.
..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961			
35·2	22·2	106·9	35·2	18·9	148·3	35·2	11·7	122·0	33·9	5·0	23.4	31·7	2·6	9·9	1950	1950	Bokaro.
1957	1953	1953	1958	1950	1958	1957	1954	1959	1950	1952	1953	1950	1961	1954			
36.3	21.7	86.6	35.5	23.3	131.3	36·8	18·3	41.7	32.2	11.3	4.8	26.0	6.4	0	1960	1957	Maithon.
1961	1960	1961	1960	1960	1958	1961	1961	1958	1961	1961	1960	1961	1961	..			
38·4	18·2	169·9	37·2	18·3	174·2	37·8	10·8	108·0	34·2	4·4	17·3	31·6	0·6	56·4	1950	1950	Ramgarh.
1958	1960	1953	1960	1950	1954	1956	1957	1959	1957	1952	1953	1957	1961	1950			
36·1	21·1	82·8	36·4	19·3	195·1	35·8	15·0	181·6	33·3	9·9	43·2	31·7	5·1	12·5	1950	1950	Panchet Hills.
1957	1958	1953	1958	1958	1956	1953	1954	1959	1957	1957	1955	1953	1961	1954			
36·7	21·7	95·0	35·6	22·0	89·0	35·3	17·2	139·0	33·3	11·6	0·8	29·6	6·1	9·2	1957	1957	Durgapur.
1957	1961	1961	1961	1958	1959	1957	1961	1959	1957	1961	1961	1960	1961	1959			
																	Mahanadi Catchment
35.0	21.6	198.1	34.5	20.8	131.8	35.6	11.4	178.3	32.6	5.0	9.1	32.2	3.2	5.1	1955	1955	Ginabahar.
1957	1961	1956	1957	1957	1960	1957	1957	1958	1957	1961	1956	1959	1959	1956			
35.0	22.8	239.9	34.9	22.8	281.9	36.4	16.8	91.4	32.3	12.4	18.4	31.4	7.2	4·4	1955	1955	Hirakud.
1957	1956	1960	1960	1955	1955	1957	1960	1956	1959	1960	1961	1957	1955	1961			
36·1	22·8	229·5	34·4	22·4	126·0	33·3	15·9	57·0	31·2	9·3	11·3	30·8	6·1	0·2	1958	1958	Bhimkund.
1961	1961	1960	1958	1959	1961	1960	1960	1960	1959	1959	1958	1960	1961	1959			
37.1	20.5	200.0	35.6	14.7	287.8	35.8	15.1	109.0	33.3	7.7	2.0	32.2	6.9	10·1	1955	1955	Sonepur.
1961	1957	1960	1956	1957	1955	1957	1958	1960	1959	1959	1958	1957	1959	1959			
32.5	22.2	102.2	32.4	20.6	100.0	34.4	14.3	114.2	30.8	5.2	16.5	31.4	5.1	14·0	1957	1957	Khijrawan.
1958	1961	1960	1957	1961	1961	1957	1960	1960	1957	1960	1958	1960	1960	1961			
																	Narmada Catchment
34·4	21·7	141·0	35·1	19·3	259·0	36·3	8·9	48·3	34·4	5·6	42·2	33·4	2·2	9·7	1951	1951	Bagra Tawa.
1954	1956	1952	1960	1960	1961	1957	1952	1955	1953	1952	1956	1960	1955	1956			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T. .. =Information not available.

10—572 D. D. G. Obs. Poona/65

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C)

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	
Hydrometeorological Observatories—*contd* **Narmada Catchment**—*contd.*																					
Punasa	40.0	5.1	19.3	40.0	5.9	18.8	43.1	10.7	18.1	47.5	15·0	9.7	48.1	19.4	56.6	47.8	20.6	103·9	38.3	20.1	18
	1961	1960	1955	1953	1961	1952	1959	1957	1960	1958	1954	1957	1959	1954	1956	1961	1960	1956	1960	1959	19
Thikri	35.1	5.6	20.3	39.4	2.2	8.4	42.8	10.6	3.5	47.4	16.1	9.0	47.8	22.2	46.0	45·6	20.0	93.5	39.4	21.1	10
	1961	1953	1953	1953	1950	1949	1953	1957	1960	1958	1955	1959	1951	1952	1960	1953	1952	1953	1950	1955	19
Sabarmati Catchment																					
Daroi	32.7	4.1	6.9	37.2	4.4	0	41.9	9.6	0	46.9	14.4	14.0	45.0	22.5	0	41.9	22.5	104.7	38.8	22.8	29
	1961	1957	1958	1956	1961	..	1959	1957	..	1958	1956	1959	1956	1960	..	1959	1959	1956	1961	1958	19
Ganga Catchment																					
Mukhim	18.8	−3.4	66.0	21.7	−3.9	45·4	24.4	−1.6	33.2	28.9	4.2	39·4	31.7	8.8	39.6	32.2	10.5	100.0	28.1	15.4	10
	1957	1960	1960	1956	1961	1961	1958	1960	1958	1958	1959	1957	1956	1957	1957	1958	1957	1960	1957	1960	19
Tehri	25.6	0.2	50.3	30.0	1.3	38·9	34.2	5.6	29.7	39.3	9.0	24.6	41.[illegible]	15·4	39.9	42.3	12.1	49.5	38.9	13.2	7
	1961	1960	1957	1956	1961	1961	1958	1960	1956	1958	1959	1957	196	1961	1956	1958	1957	1958	1960	1957	19
Gandak Catchment																					
Jomosom	19.9	−7.6	45.7	20.0	−8.9	71.1	23.7	−1.1	22.6	25.4	1.4	18·5	26.9	3.2	15.4	27.3	6.5	12.2	27.7	12.3	17
	1958	1958	1961	1958	1961	1961	1959	1958	1960	1959	1961	1960	1961	1958	1959	1961	1958	1960	1961	1961	19
Khudi Bazar	..	..	4.2	..	..	31.8	..	..	48.0	..	..	13.0	..	..	89.0	..	..	125.2	..	..	89
	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	19
Timure	20.1	−0.2	21.6	21.2	1.1	38.1	27.3	3.4	21.3	30.2	5.2	14.0	30.7	10.9	26.7	31.7	13.9	37.3	28.3	15.8	35
	1961	1960	1959	1960	1959	1961	1960	1960	1961	1961	1959	1960	1958	1958	1959	196[illegible]	1959	1961	1961	1960	19
Pokhara	23.4	3·9	54.9	25.7	4·3	29.5	30.9	7.5	29.7	36.2	10·3	122.2	37.6	13·0	74.2	35.9	15.9	73.7	31.9	20.4	157
	1961	1959	1957	1960	1957	1961	1960	1960	1960	1961	1960	1958	1960	1961	1959	1958	1958	1959	1960	1961	19
Gorkha	22·1	5.3	46·2	27·1	4.5	0·6	29·5	8.3	50·0	35·1	7.3	49·5	35.6	13.9	75.4	35.3	17.8	139·7	30.7	19.8	95
	1957	1959	1957	1960	1959	1960	1958	1960	1960	1960	1959	1959	1957	1958	1950	1958	1957	1959	1957	1958	19
Nawakot	23·2	5·3	33·0	2[illegible]·0	5·[illegible]	90·8	32·4	7·7	20·9	36·4	11·4	24·4	38·3	13·8	36·1	38·8	14·3	61·0	32·5	15·6	81
	1961	1961	1957	1960	1961	1960	1960	1960	1960	1961	1960	1958	1957	1958	1957	196	1957	1960	1960	1958	19
Ghaghra Catchment (Trans-Himalayan Region)																					
Dailekh	21·1	2·0	36·8	22·7	3·4	13·4	27·3	5·4	52·6	34·3	9·2	25·4	34·3	15·7	27·[illegible]	35·1	16·2	43·2	28·5	18·9	113
	1958	1960	1959	1960	1959	1959	1958	1960	1957	1960	1959	1958	1957	1959	1958	1958	1958	1959	1957	1959	19
Mansiari	18.7	−1·9	18·3	17·4	−0·3	9·7	.0·7	1·7	25·2	25·5	1·7	52·1	30·8	8.1	32·3	30·2	11·6	80·5	23·4	14·0	139
	1957	1957	1958	1957	195[illegible]	1958	1957	1957	1957	1957	1960	1957	1957	195[illegible]	195[illegible]	1957	1957	1960	1960	1960	19
Dadeldhura	18·9	−1·5	50·3	19·8	−3.4	63·0	24·4	−0·2	49·3	28·8	5·8	18·0	31·6	8·9	33·4	32·5	11·8	59·9	26·6	13·7	107
	1959	1957	1958	1961	1961	1961	1959	1957	1958	1959	1959	195[illegible]	1958	1961	1959	1961	195[illegible]	1957	1959	1958	19
Sallyana	19·7	3·5	99·1	23·9	3·6	9·2	25·5	10·8	10·2	32·5	13·1	19·8	34·4	14·3	1·5	33·2	16·2	32·0	28·9	19·2	61
	1957	1961	1961	1961	1961	1961	1957	1961	1957	1961	1961	1958	1961	1961	1961	1961	1961	1957	1961	1961	19
Butwal	27·4	4·6	24·1	30·2	−0·1	33·5	38·1	10·4	11·0	42·4	16·2	17·8	44·7	10·1	72·4	44·4	18·4	171·0	36·7	21·7	245
	1961	1958	1959	1960	1957	1961	1960	1959	1959	1961	1959	1958	1960	1957	1959	1958	1958	1961	1958	1957	19
Baghmati Catchment																					
Kathmandu*	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Kosi Catchment																					
Chautra	22·2	2·8	46·5	24·0	1·6	28·4	30·3	5·8	24·1	33·6	8·3	67·0	35·1	12·2	53·2	34·4	14·4	100·0	29·4	15·4	99
	1956	1957	1957	1960	1961	1961	1960	1957	1953	1961	1957	1959	1958	1961	1960	1958	1955	1961	1959	1958	19
Chepua	..	..	23·4	..	..	31·0	..	..	26·8	..	..	41·0	..	..	40·0	..	..	43·4	..	..	25
	..	..	1961	..	..	1961	..	..	1961	..	..	1961	.	..	1961		..	1961	..	..	19

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

EAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Hydrometeorological Observatories—*contd.*
																	Narmada Catchment—*contd.*
5·6	20·6	207·0	37·2	14·4	168·4	38·9	10·6	46·2	38·8	6·1	15·0	34·5	3·9	4·3	1951	1951	Punasa.
956	1952	1960	1951	1953	1961	1951	1952	1961	1958	1956	1958	1959	1955	1956			
6·1	20·6	209·8	38·9	18·9	206·0	40·6	11·1	83·0	37·8	6·7	11·5	34·8	5·0	7·9	1949	1949	Thikri.
953	1950	1957	1951	1952	1959	1949	1955	1961	1951	1956	1958	1960	1952	1956			
																	Sabarmati Catchment.
6·1	21·1	105·9	39·3	20·8	83·0	39·1	12·2	64·0	37·2	10·6	0	32·5	8·1	0	1956	1956	Daroi.
957	1956	1957	1960	1959	1959	1957	1961	1958	1957	1956	..	1959	1959	..			
																	Ganga Catchment.
6·7	14·5	89·5	26·1	12·8	101·1	25·1	2·7	113·3	21·9	2·2	33·5	21·2	0·2	77·7	1956	1956	Mukhim.
957	1957	1960	1958	1960	1959	1961	1961	1956	1958	1961	1959	1960	1961	1957			
6·7	20·0	62·5	35·6	17·4	76·6	34·8	8·6	172·5	31·1	4·1	25·2	26·0	—1·5	39·8	1956	1956	Tehri.
960	1956	1958	1956	1957	1957	1960	1960	1956	1956	1961	1959	1958	1961	1958			
																	Gandak Catchment.
27·7	11·1	21·2	26·8	5·6	35·0	24·7	0·6	41·4	18·8	—3·4	2·0	19·8	—6·4	2·6	1958	1958	Jomosom.
1961	1960	1960	1959	1958	1960	1961	1960	1961	1960	1961	1961	1960	1961	1961			
..	..	99·0	..	..	58·0	..	..	38·6	..	..	3·8	..	..	18·6	..	1961	Khudi Bazar.
..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961			
18·4	15·4	33·7	30·0	13·2	28·5	27·3	5·2	30·2	23·8	2·4	2·0	22·3	—0·6	16·3	1958	1958	Timure.
1959	1959	1961	1959	1959	1959	1961	1961	1958	1958	1961	1958	1960	1961	1961			
33·4	19·4	284·0	31·7	18·1	165·9	30·4	11·6	108·5	27·7	7·8	5·1	27·5	4·0	19·1	1957	1957	Pokhara.
1957	1959	1957	1958	1960	1961	1958	1960	1960	1958	1961	1960	1960	1961	1957			
30·2	19·5	109·5	29·2	18·4	61·7	27·9	13·9	71·4	25·9	11·2	0·8	22·2	7·8	9·9	1957	1957	Gorkha.
1957	1957	1957	1958	1958	1958	1957	1958	1958	1958	1958	1957	1958	1957	1957			
33·1	19·2	95·3	31·9	16·8	111·8	30·6	12·0	51·8	28·1	7·3	0	23·9	3·3	8·2	1957	1957	Nuwakot.
1957	1958	1957	1960	1957	1959	1961	1960	1961	1958	1961	..	1958	1961	1961			
																	Ghaghara Catchment (Trans-Himalayan Region).
27·3	17·4	88·9	30·7	17·3	41·1	26·1	11·9	43·4	23·2	7·2	2·3	20·5	4·0	50·0	1957	1957	Dailekh.
1959	1958	1959	1957	1959	1957	1959	1959	1958	1958	1959	1957	1957	1959	1957			
23·4	14·9	75·5	..	1·0	45·7	..	..	35·0	16·1	5·4	14·5	..	..	82·0	1957	1957	Mansiari.
1960	1960	1960	..	1960	1957	..	..	1958	1960	1960	1957	..	..	1957			
26·8	13·5	130·4	25·8	11·9	85·3	25·8	5·1	162·1	22·4	3·7	18·9	21·3	—0·8	86·6	1957	1957	Dadeldhura.
1957	1957	1961	1959	1957	1960	1960	1961	1961	1958	1960	1959	1957	1961	1957			
29·4	17·5	45·7	28·5	..	48·8	27·0	..	41·0	24·4	6·0	0	20·6	3·0	25·5	1957	1957	Sallyana.
1957	1961	1957	1961	..	1957	1961	..	1961	1957	1961	..	1957	1960	1961			
36·8	22·9	157·5	37·8	22·1	130·0	33·9	17·2	112·0	30·7	11·1	0	28·5	6·2	12·0	1957	1957	Butwal.
1957	1959	1957	1957	1959	1958	1959	1959	1958	1958	1961	..	1960	1958	1961			
																	Baghmati Catchment.
																	Katmandu.*
																	Kosi Catchment.
29·0	16·1	78·7	28·3	15·3	66·0	27·6	11·1	74·3	26·7	6·2	23·4	23·6	3·1	15·5	1955	1953	Chautara.
1959	1956	1954	1956	1959	1954	1959	1960	1959	1958	1958	1956	1960	1961	1955			
..	..	24·7	..	..	57·4	..	..	32·0	..	..	14·0	..	..	46·6	..	1961	Chepua.
..	..	1961	..	..	1961	..	..	1961	..	..	1961	..	..	1961			

R=Heaviest Rainfall in 24 hours ending at 0830 hrs. I. S. T. *Data included under Nepal. .. =Information not available.

TABLE III (A) EXTREMES OF MAXIMUM AND MINIMUM TEMPERATURES (°C) AND

Sub-division and station	January			February			March			April			May			June			July		
	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	X	N	R
Kosi Catchment —(*contd.*)																					
Walungchung Gola	13·3	—7·8	30·5	12·2	—9·6	17·5	16·4	—8·6	30·5	18·6	—2·9	25·3	18·4	1·1	28·5	20·6	1·1	34·4	20·6	4·4	44·5
	1961	1957	1956	1954	1961	1959	1959	1961	1960	1961	1960	1960	1961	1955	1955	1958	1956	1961	1953	1956	1954
Taplethok .	28·3	0·6	44·7	28·3	3·3	22·9	31·0	5·0	38·3	32·3	8·3	37·6	32·4	11·7	56·4	32·1	15·2	82·0	32·8	15·6	78·2
	1954	1957	1957	1954	1956	1957	1958	1956	1953	1961	1956	1958	1958	1956	1956	1958	1957	1959	1953	1956	1953
Bhojpur .	18·2	1·4	35·0	21·1	3·9	11·4	27·8	5·9	39·9	29·6	8·7	27·2	29·7	11·2	61·2	28·9	14·8	83·8	27·0	16·1	56·6
	1961	1957	1957	1956	1959	1961	1960	1957	1956	1961	1957	1959	1958	1959	1955	1958	1957	1960	1961	1956	1956
Taplejung .	19·2	0	34·8	20·6	1·1	11·2	25·6	3·3	37·6	28·9	6·1	56·6	28·3	10·6	55·9	27·7	12·8	67·3	27·4	15·0	117·7
	1957	1955	1957	1956	1953	1953	1953	1957	1953	1961	1957	1954	1957	1958	1954	1961	1953	1960	1961	1956	1959
Okhaldhunga .	23·9	—0·6	34·3	22·2	—0·8	21·8	25·0	4·2	25·4	28·9	5·8	29·0	29·2	5·6	113·8	29·2	8·9	115·6	27·9	5·6	143·5
	1953	1953	1957	1956	1959	1954	1955	1957	1953	1954	1957	1955	1957	1953	1954	1958	1953	1960	1961	1953	1954
Chainpur .	22·8	3·1	36·8	26·7	5·0	9·2	30·4	8·4	43·2	33·8	9·3	34·3	34·5	13·3	57·1	32·4	15·6	65·1	30·6	16·7	71·0
	1954	1957	1957	1954	1953	1960	1960	1953	1953	1960	1957	1953	1960	1955	1953	1960	1957	1960	1953	1954	1957
Angbung .	22·2	1·7	58·0	24·4	3·9	10·9	30·3	5·7	54·0	33·6	8·2	43·2	34·3	8·9	75·7	33·2	7·2	103·1	31·9	16·1	82·5
	1957	1953	1959	1955	1953	1957	1961	1960	1959	1961	1960	1953	1960	1954	1953	1960	1954	1957	1959	1953	1957
Barahakshetra .	27·3	7·2	48·4	31·6	6·6	39·4	37·1	11·7	126·2	42·2	16·1	42·0	41·9	19·2	72·4	38·9	21·7	155·2	34·7	22·7	179·8
	1961	1955	1959	1954	1961	1961	1960	1957	1953	1954	1960	1959	1957	1958	1958	1958	1955	1959	1960	1961	1957
Tista Catchment																					
Gangtok . .	19·3	—2·2	63·6	20·6	—1·1	24·1	25·8	3·7	61·0	25·6	6·1	178·1	26·5	11·3	109·7	26·8	12·7	125·5	26·7	14·4	100·8
	1957	1956	1958	1956	1956	1959	1960	1960	1957	1961	1960	1956	1960	1961	1958	1960	1957	1960	1960	1956	1961
Gezing . .	21·9	1·1	50·8	21·1	2·1	11·2	28·1	2·1	42·6	30·9	7·3	92·5	30·2	12·7	64·3	30·8	13·6	89·0	29·8	14·9	164·3
	1961	1957	1957	1957	1961	1958	1961	1957	1959	1961	1957	1958	1961	1961	1960	1961	1957	1958	1958	1958	1957

X = Highest Maximum Temperature. N = Lowest Minimum Temperature.

HEAVIEST RAINFALL (MILLIMETRES) IN 24 HOURS BASED ON DATA UPTO 1961 (1882-1883 SAKA)

August			September			October			November			December			Based on data from		Sub-division and station
X	N	R	X	N	R	X	N	R	X	N	R	X	N	R	Temperature	Rainfall	
																	Kosi Catchment—(*contd.*)
19·9	4·4	55·1	20·0	3·9	92·0	19·4	—0·6	36·8	15·6	—6·0	15·7	15·9	—8·8	5·3	1953	1953	Wallungchung Gola.
1960	1953	1954	1960	1960	1960	1961	1953	1959	1955	1961	1956	1960	1961	1956			
32·4	15·6	96·4	31·7	15·6	59·6	32·8	9·0	64·8	29·4	4.8	25·4	28·3	3·3	12·5	1953	1953	Tapletbok.
1958	1954	1961	1956	1959	1960	1956	1958	1960	1956	1961	1956	1956	1961	1957			
29·6	15·9	78·0	27·7	15·0	65·3	26·1	10·6	113·0	23·1	7·2	22·9	19·9	3·5	12·0	1955	1955	Bhojpur.
1957	1957	1955	1960	1956	1961	1956	1957	1960	1958	1957	1956	1958	1961	1961			
28·6	15·5	104·2	28·5	13·2	99·8	26·0	8·3	68·3	22·2	2·4	20·1	19·4	0·6	12·7	1953	1953	Taplejung.
1957	1961	1960	1958	1960	1954	1959	1955	1956	1958	1961	1956	1957	1954	1955			
29·4	15·0	107·2	28·3	10·6	95·2	27·2	4·7	35·1	22·8	4·1	19·8	21·7	1·1	6·1	1953	1953	Okhaldhunga.
1953	1955	1954	1954	1953	1960	1956	1960	1956	1954	1961	1956	1953	1961	1957			
31·7	17·2	69·9	31·1	15·0	45·7	28·9	11·7	67·2	26·8	8·3	0·6	25·6	5·8	8·9	1953	1953	Chainpur.
1953	1955	1955	1953	1953	1953	1955	1955	1955	1959	1953	1961	1953	1961	1957			
32·6	15·0	68·0	31·3	16·2	80·0	30·4	12·1	63·3	25·6	7·1	6·0	24·4	5·1	7·1	1953	1953	Angbung.
1957	1954	1959	1959	1961	1960	1957	1959	1957	1954	1961	1961	1953	1961	1957			
36·7	22·2	149·1	35·0	20·7	177·4	35·9	14·9	136·1	30·6	9·1	29·5	28·3	7·5	3·3	1953	1953	Barahakshetra.
1957	1956	1958	1961	1960	1960	1960	1957	1953	1953	1961	1956	1955	1961	1957			
																	Tista Catchment.
27·6	15·1	69·6	27·3	11·7	108·8	25·6	8·1	73·0	21·8	4·3	21·5	20·2	1·0	12·5	1956	1956	Gangtok.
1957	1958	1961	1960	1956	1960	1961	1957	1959	1958	1961	1958	1958	1961	1957			
32·2	16·3	97·8	30·7	13·9	123·2	28·4	9·2	41·0	25·0	4·9	18·2	22·2	2·2	9·5	1957	1957	Gezing.
1957	1959	1961	1961	1960	1960	1960	1960	1960	1960	1961	1959	1960	1961	1961			

R = Heaviest Rainfall in 24 hours ending at 0830 hrs. I.S.T.

.. = Information not available.

MONTHLY MEANS OF UPPER WINDS

December 1961 (Agrahayana 10— Pausa 10, 1883 Saka)

During the month, observations of velocity and direction of upper winds were made at 53 stations in India. Out of these, at 40 stations all the observations were taken by means of pilot balloons and at 12 stations some observations were made by means of pilot balloons while the other observations by the radiowind method. In the case of Bangalore, the observations were taken by following radiosonde balloon by means of an optical theodolite. Particulars of the stations, their co-ordinates and the approximate times of the regular pilot balloon and rawin ascents at each station are given in the table overleaf. All radiowind ascents have been indicated by means of an asterisk (*) against the scheduled hours.

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

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

In Tables IV and V :

n—represents the number of observations,

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

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

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

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

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

Particulars of Pilot Balloon and Rawin Stations in India

Station	Lat. N	Long. E	Height of Anemometer head a. m. s. l. in metres	Date of opening	Approximate times of flights (I.S.T.)			
Agartala	23°53′	91°15′	17	28th November 1951	0530	1730	2330	
Ahmedabad	23°04′	72°38′	61	19th May 1928	0530*	1130	1730*	2330
Amausi	26°45′	80°53′	133	20th November 1950	0530	1730	2330	
Ambala	30°23′	76°46′	279	1st April 1941	0530	1130	1730	2330
Anantapur	14°41′	77°37′	365	12th February 1946	0530	1730	2330	
Asansol	23°41′	86°59′	135	29th May 1942	0530	1730	2330	
Baghdogra	26°38′	88°19′	140	7th June 1953	0530	1730	2330	
Bahraich	27°34′	81°36′	134	1st October 1961	0530	1730		
Bairagarh	23°17′	77°21′	532	26th February 1943	0530	1730	2330	
Bajpe	12°55′	74°53′	104	25th May 1959	0530	1730	2330	
Bamrauli	25°27′	81°44′	103	28th February 1930	0530*	1130	1730*	2330
Bangalore	12°58′	77°35′	936	19th May 1915	0530@	1130	1730@	2330
Bareilly	28°22′	79°24′	181	12th January 1943	0530	1730		
Begumpet	17°27′	78°28′	543	1st September 1929	0530	1730	2330	
Bhagalpur	25°14′	86°57′	61	19th May 1950	0530	1730		
Bhubaneshwar	20°15′	85°50′	54	5th December 1942	0530	1730	2330	
Bhuj	23°15′	69°48′	90	14th September 1937	0530	1730	2330	
Bikaner	28°00′	73°18′	229	18th October 1946	0530	1730	2330	
Chikalthana	19°51′	75°24′	583	7th October 1951	0530	1730	2330	
Cochin†	09°56′	76°14′	13	16th March 1942	0530	1730	2330	
Darjeeling	27°03′	88°16′	2115	21st May 1956	0830	1730		
Dehra Dun	30°19′	78°03′	692	1st October 1958	0530	1730		
Dum Dum	22°39′	88°27′	13	14th May 1921	0530*	1130	1730*	2330
Gadag	15°25′	75°38′	650	3rd May 1943	0530	1730	2330	
Gannavaram	16°32′	80°48′	32	8th April 1942	0530	1730	2330	
Gauhati	26°05′	91°43′	55	12th March 1955	0530*	1130	1730*	2330
Gaya	24°45′	84°57′	119	19th March 1937	0530	1730	2330	
Gopalpur	19°16′	84°53′	24	15th February 1946	0530	1730	2330	
Gorakhpur	26°45′	83°22′	83	5th January 1943	0530	1730		
Gwalior	26°14′	78°15′	208	7th May 1938	0530	1130	1730	2330
Imphal	24°51′	93°58′	805	8th March 1952	0530	1130	1730	2330
Jabalpur	23°10′	79°57′	402	30th July 1928	0530	1730	2330	
Jagdalpur	19°05′	82°02′	562	25th March 1948	0530	1730	2330	
Jaipur	26°49′	75°48′	403	6th June 1953	0530	1730	2330	
Jamshedpur	22°49′	96°11′	144	23rd July 1942	0530	1730		
Jharsuguda	21°55′	84°05′	240	1st May 1944	0530	1730	2330	
Jodhpur	26°18′	73°01′	229	15th October 1934	0530*	1130	1730*	2330
Madras	13°00′	80°11′	29	8th April 1926	0530*	1130	1730*	2330
Minicoy	08°18′	73°00′	15	14th April 1941	0530	1730	2330	
Mohanbari	27°29′	95°01′	112	1st June 1948	0530	1130	1730	2330
Nagpur	21°06′	79°03′	316	23rd April 1943	0530*	1130	1730*	2330
New Delhi	28°35′	77°12′	227	20th October 1936	0530*	1130	1730*	2330
Poona	18°32′	73°51′	593	5th January 1925	0530	1730	2330	
Port Blair	11°40′	92°43′	93	29th October 1945	0530*	1130	1730*	2330
Raipur	21°14′	81°39′	308	15th July 1944	0530	1730	2330	
Raxaul	26°59′	84°51′	83	28th October 1957	0530	1730		
Santa Cruz	19°07′	72°51′	27	14th May 1933	0530*	1130	1730*	2330
Tiruchirapalli	10°46′	78°43′	96	22nd June 1936	0530	1730	2330	
Trivandrum	08°29′	76°57′	73	8th December 1928	0530*	1130	1730*	233
Udaipur	24°35′	73°42′	587	24th June 1947	0530	1730	2330	
Vengurla	15°52′	73°38′	8	22nd November 1941	0530	1730	2330	
Veraval	20°54′	70°22′	17	13th October 1941	0530	1730	2330	
Visakhapatnam	17°43′	83°14′	10	24th September 1928	0530*	1130	1730*	2330

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

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	AGARTALA												AHMEDABAD											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·2	0·1	022	31	0·9	0·7	314	31	0·7	0·3	354	31	3·8	3·2	060	31	5·1	4·3	072	31	3·7	2·8	050
0·15 a. g. .	25	2·8	2·1	358	31	2·7	2·3	316	31	4·2	3·7	330	31	9·8	8·6	076	31	4·0	3·5	074	31	6·1	4·6	044
0·3 a. m. s. l. .	25	2·9	2·5	356	31	2·7	2.3	318	31	4·0	3·5	338	31	9·1	7·7	079	31	4·1	3·4	079	31	5·3	4·1	047
0·6 „ .	25	2·7	2·2	353	31	2·2	1·6	327	31	2·8	2·1	341	31	6·8	5·3	087	31	4·5	3·4	076	31	4·3	3·3	055
0·9 „ .	24	2·3	1·2	348	31	1·9	0·6	325	31	2·2	0·8	332	31	5·2	3·1	078	30	4·2	2·9	074	31	4·3	3·1	051
1·5 „ .	24	3·5	2·2	285	31	2·5	1·3	250	31	3·2	2·0	252	31	3·9	1·4	288	30	3·5	0·3	026	31	4·3	1·2	047
2·1 „ .	24	6·1	5·4	270	30	5·4	4·6	266	31	5·9	5·0	257	31	5·0	3·4	275	30	4·1	2·4	256	31	5·0	3·2	273
3·0 „ .	22	10·2	9·0	269	30	10·1	9·4	269	30	9·5	8·6	258	31	8·0	6·7	283	30	7·0	6·0	268	31	8·9	7·6	279
3·6 „ .	20	13·5	12·8	264	30	13·0	12·6	267	15	11·8	11·6	262	31	10·9	10·5	283	30	10·0	8·7	274	31	11·0	10·2	282
4·5 „ .	19	15·9	15·5	265	30	16·3	16·0	267	5	14·6	14·3	254	31	14·5	13·8	283	29	14·8	13·7	277	31	15·0	14·0	285
5·4 „ .	8	20·6	20·2	279	24	21·9	21·0	267					31	18·9	17·7	283	29	19·8	18·6	281	31	19·2	18·1	283
6·0 „ .	2	21·3	21·1	258	18	24·9	23·8	268					31	24·3	22·6	283	26	23·3	21·9	277	31	22·2	21·2	281
7·2 „ .					12	29·5	28·3	263					31	30·3	28·3	281	23	30·1	28·7	277	31	29·4	28·1	279
9·0 „ .					1	52·0	52·0	285					26	38·3	36·6	283	5	34·7	33·2	266	27	36·6	34·8	270

Station	AHMEDABAD				AMAUSI												AMBALA							
Time in I. S. T.	2330				0530				1730				2330				0530				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·0	2·5	032	31	2·3	1·1	280	31	2·7	1·5	286	31	2·1	0·8	282	31	0·7	0·4	331	31	1·4	0·6	307
0·15 a. g. .	31	8·1	6·8	043	27	5·3	3·3	327	29	3·8	2·2	298	26	5·0	4.0	306	25	6·4	4·4	335	29	4·1	1·5	326
0·3 a. m. s. l. .	31	7·8	6·6	044	27	5·2	3·2	328	29	4·0	2·3	297	26	5·0	4·0	306	25	2·9	1·5	346	29	2·6	0·9	320
0·6 „ .	31	6·5	5·4	049	25	4·8	2·8	320	29	4·5	2.4	303	26	4·5	3·4	313	25	7·0	4·6	328	29	5·1	2·5	330
0·9 „ .	31	5·3	3·8	059	25	5·2	3·0	312	29	4·9	3·0	305	26	4·7	3·1	311	25	6·5	4·2	329	29	6·1	2·8	335
1·5 „ .	31	4·5	1·2	111	25	6·1	5·0	305	29	6·0	4·4	303	26	4·7	4·4	305	25	5·7	3·0	318	28	6·1	2·0	318
2·1 „ .	31	4·5	2·2	244	23	6·7	6·0	303	26	6·2	5·9	299	23	5·3	4·8	291	23	5·3	3·5	312	25	5·5	2·7	308
3·0 „ .	31	7·3	6·1	271	17	8·5	8·2	292	25	8·1	7·5	295	22	8·0	7·7	289	22	5·3	3·6	304	25	5·6	3·2	283
3·6 „ .	7	12·6	7·9	283	12	10·5	10·2	279	24	10·4	5·9	293	14	10·5	10·0	280	22	7·7	5·9	326	24	7·3	4·5	281
4·5 „ .					6	12·4	11·9	273	22	15.5	14·1	286	5	17·7	17·2	292	18	9·9	8·0	289	23	10·2	7·4	271
5·4 „ .					1	21·0	21·0	280	19	21·0	20·5	283					10	14·5	13·3	272	20	14·7	12·5	281
6·0 „ .					1	18·0	18·0	290	16	24·3	23·8	280					7	13·4	11·9	269	18	18·1	16·6	281
7·2 „									10	27·7	27·2	280					2	19·3	18·1	288	11	22·7	21·1	272
9·0 „ .									3	31·2	31·2	261									7	46·1	43·2	273

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	AMBALA								ANANTAPUR												ASANSOL			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	0·9	317	31	1·2	0·8	331	31	2·0	2·0	092	31	3·9	3·6	088	31	4·5	4·4	091	31	1·1	1·0	309
0·15 a. g.	31	5·0	3·2	312	28	7·0	6.6	329	31	4·6	4·4	097	31	5·8	5·5	084	31	7·6	7·5	097	28	6·2	4·9	324
0·3 a. m. s. l.	31	2·8	2·2	309	28	3·2	2·6	336													28	6·3	5·0	335
0·6 ,,	31	5·4	3·6	314	28	6·8	6·2	330	31	5·3	5·0	107	31	5·0	4·8	085	31	8·3	8·1	098	28	6.1	4·6	337
0·9 ,,	31	5·8	3·5	319	28	5·5	4·7	329	31	7·0	6·5	107	31	4·6	4·3	087	31	7·7	7·6	097	28	6·0	4·3	323
1·5 ,,	29	5·1	3·7	324	28	5·0	2·4	325	31	6·2	5·2	095	31	4·5	4·1	087	31	4·7	4·0	075	28	6·4	5·4	304
2·1 ,,	28	5·3	3·2	320	26	4·2	1·3	295	31	4·6	1·5	084	31	3·8	2·5	083	31	4·0	0·9	085	28	7·3	6·5	297
3·0 ,,	28	5·0	2·8	310	25	5·1	2·8	293	30	4·4	0·8	212	28	3·8	1·0	272	31	4·7	1·4	273	23	9·1	8·6	279
3·6 ,,	27	6·3	3·8	285	8	6·9	5·3	277	29	4·9	1·7	269	26	4·7	2·2	261	30	5·1	2·7	252	13	11·8	10·8	278
4·5 ,,	24	9·9	8.4	288	4	7·5	7·1	251	26	5·5	3·0	273	25	6·3	4·4	272	26	5·1	1·6	268	5	17·0	16·3	269
5·4 ,,	22	14.3	13.0	281	1	13·5	13·5	270	26	6·9	4·1	286	24	6·4	4·8	271	21	5·6	3·8	277	3	19·3	18·6	267
6·0 ,,	20	16.6	15.3	277					25	8·7	7·0	281	23	7.8	5·2	282	17	8·4	5·7	305	1	22·5	22·5	255
7·2 ,,	8	21.6	20.1	277					24	11·2	7·6	295	20	9·6	7·3	290	6	10·0	9·7	305	1	28·0	28·0	255
9·0 ,,	4	45.4	44.7	273					16	12·1	10·3	278	17	12·0	10·2	285								

Station	ASANSOL								BAGHDOGRA												BAHRAICH			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·5	1·2	322	31	0·7	0·7	321	31	1·0	0·6	336	31	1·3	0·9	262	31	1·1	0·9	351	31	0·5	0·2	273
0·15 a. g.	31	4·2	3·6	332	31	6·7	5·7	347	28	2·4	1·1	055	31	2·8	2·0	248	29	2·8	1·2	353	22	4·9	2·6	315
0·3 a. m. s. l.	31	4·3	3·5	332	31	6·7	5·7	346	28	2·4	1·5	071	31	2·8	1·9	252	29	2·8	0·8	359	22	5·0	2·7	320
0·6 ,,	31	4·5	3·5	335	31	5·5	4·2	329	28	2·4	1·8	079	31	2·5	1·4	248	29	2·2	0·5	344	22	4·9	1·6	328
0·9 ,,	31	4·5	3·2	332	31	5·4	4·3	304	28	2·5	1·9	082	30	2·3	0·8	210	28	2·4	0·9	089	22	4·8	1·0	337
1·5 ,,	31	5·4	4·5	316	31	6·1	5·3	300	28	3·5	3·0	094	29	3·3	2·0	119	28	3·0	2·0	093	22	5·3	1·3	311
2·1 ,,	31	8·5	7·5	294	30	7·1	6·5	295	26	4·3	3·5	103	28	3·5	1·8	107	28	3·1	1.3	106	22	5·8	3·2	290
3·0 ,,	30	11·3	10·8	279	27	10·3	9·9	280	25	5·4	3·4	283	26	6·0	5·0	293	23	5·4	2·4	283	21	7·7	6·4	288
3·6 ,,	27	12·9	12·6	274	14	13·7	13·0	278	23	10·1	9·1	281	24	10·5	10·3	283	13	10.1	8·0	275	19	9·7	8·7	286
4·5 ,,	22	17·0	16·2	276	5	15·7	15·5	259	19	14·4	13·8	280	20	15·9	15·7	278	6	12.0	5·5	275	16	12·8	12·3	285
5·4 ,,	14	23·7	23·3	268					13	18·0	17·5	281	16	18·7	18·3	273	3	16.5	8.9	087	13	19·4	18·9	276
6·0 ,,	8	30·6	29·6	266					9	20·5	18·4	289	11	23·2	22·9	273	3	34.8	17.9	074	10	22·0	21·6	273
7·2 ,,	3	46·8	46·5	268					4	26·5	26·3	272	5	30·1	29·3	273	1	8.5	8.5	090	4	28·3	27·8	273
9·0 ,,	1	52·5	52·5	255					1	48·5	48·5	285	2	50·5	50·0	287	1	10.5	10·5	100				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 SAKA)

Station	BAHRAICH				BAIRAGARH												BAJPE							
Time in I. S. T.	1730				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·9	0·5	275	31	2·1	1·3	058	31	1·7	1·0	009	31	2·4	1·9	139	31	2·7	2·5	093	31	3·2	2·9	300
0·15 a. g. .	28	3·3	1·6	285	31	6·3	5·1	098	31	3·4	1·3	016	31	7·4	6·0	070	31	7·2	6·4	093	31	4·3	3·9	291
0·3 a. m. s. l. .	28	3·4	1·7	282													31	7·8	6·5	095	31	4·3	3·8	293
0·6 „ .	28	4·0	1·5	275	31	5·5	4·6	090	31	3·1	1·1	021	31	7·6	5·9	066	31	6·8	2.6	096	31	3·0	0·9	346
0·9 „ .	27	4·1	1·6	275	31	5·4	2·1	097	31	3·4	1·3	002	31	5·7	4·2	073	31	5·6	4·3	097	31	3·5	2·3	070
1·5 „ .	27	5·4	1·5	312	31	4·5	2·3	064	31	3·4	1·6	292	31	3·8	1·7	250	31	4·3	3·1	106	31	6·0	5·5	079
2·1 „ .	27	6·1	3·3	313	28	7·1	6·2	275	30	5·9	5·3	275	29	6·5	5·8	263	29	4·7	3·0	109	31	5·5	4·3	080
3·0 „ .	27	7·5	5·5	297	24	9·3	8·7	274	26	9·1	8·7	280	22	9·2	8·6	277	29	5·0	0·9	235	31	4·5	0·3	349
3·6 „ .	26	8·6	8·0	292	20	11·0	10·4	272	24	11·1	10·7	280	1	9·0	9·0	290	28	5·3	0·9	190	30	4·7	0·5	274
4.5 „ .	26	12·3	11·7	284	15	14·1	13·6	275	20	13·1	12.5	281					24	4·9	0·5	265	30	5·1	1·1	280
5·4 „ .	26	18·2	17·7	285	12	18·4	16·5	264	17	19·6	19·1	280					23	5·8	1·1	302	30	6·0	1·5	295
6·0 „ .	23	22·0	21·3	282	8	20·6	20·1	276	12	20·7	20·1	277					22	6·5	1·2	308	29	7·0	1·5	289
7·2 „ .	20	32·0	29·7	280	4	26·0	25·9	264	5	21·4	21·0	262					17	7·7	4·3	322	26	8·9	4·1	314
9·0 „ .	14	42·1	41·3	273	2	23·0	22·9	260	1	24·0	24·0	255					12	6·5	3·4	319	23	10·1	6·2	308

Station	BAJPE				BAMRAULI																BANGALORE			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530@			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·5	0·9	013	31	0·8	0·5	256	31	1·3	0·7	296	31	0·9	0·5	345	31	4·0	0·1	007	31	2·7	2·6	082
0·15 a. g. .	31	4·3	3·1	343	31	4·1	1·6	300	26	2·5	1·2	317	31	3·7	2·3	322	26	4·8	2·1	325	25	7·9	7·5	086
0·3 a. m. s. l. .	31	4·3	3·1	346	31	4·1	1·6	300	25	2·7	1·3	305	31	3·7	2·3	322	26	4·6	1·9	320				
0·6 „ .	31	4·4	2·7	355	31	4·0	2·2	317	23	3·5	2·6	307	31	3·8	2·2	310	26	4·6	2·6	313				
0·9 „ .	31	3·8	2·0	055	31	4·5	3·2	307	21	4·8	3·9	302	31	4·2	3·0	300	25	5·5	4·1	290				
1·5 „ .	31	5·2	4·6	091	31	5·9	5·2	299	21	6·9	6·1	301	31	5·6	4·7	295	26	6·1	4·8	293	25	7·0	6·2	088
2·1 „ .	31	6·3	5·7	098	31	6·3	5·9	291	21	7·3	6·9	296	31	6·3	5·6	288	24	6·5	5·7	289	24	5·0	3·1	091
3·0 „ .	30	4·5	1·6	106	31	9·1	8·8	285	21	9·7	9·2	286	31	8·8	8·2	278	15	9·0	8·9	284	23	4·7	1·1	171
3.6 „ .	29	4·7	0.8	274	31	11·8	11·2	278	19	12·7	12·1	284	31	11·2	10·7	277	2	7·3	7·1	271	23	5·1	1·4	183
4·5 „ .	23	5·2	0·7	217	30	15·5	14·8	274	19	16·3	15·7	276	31	15·2	14·5	275					20	5·7	2·0	271
5·4 „ .	11	5·3	0·5	317	29	20·2	19·6	273	15	24·1	23·8	279	30	20·5	19·7	274					19	6·1	2·8	312
6·0 „ .	7	4·7	0·9	005	29	23·8	23·1	272	13	25·6	25·2	274	30	24·3	23·4	271					19	7·2	3·6	309
7·2 „ .					29	31·3	30·3	270	8	34·0	33·6	275	29	32·4	31·2	270					19	10·3	6·2	323
9·0 „ .					18	38·1	36·4	265	3	42·8	42·2	266	25	42·1	40·8	267					17	9·0	6·8	307

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

December, 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	BANGALORE												BAREILLY								BEGUMPET			
Time in I.S.T.	1130				1730@				2330				0530				1730				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·3	2·9	086	31	2·7	2·3	083	31	3·7	3·5	089	31	1·0	0·5	324	31	0·9	0·6	321	31	1·0	0·8	112
0·15 a. g. .	30	5·6	5·1	086	31	5·1	4·5	092	29	8·9	7·9	098	26	4·9	2·9	324	31	3·4	2·0	305	28	5·3	4·5	112
0·3 a. m. s. l. .													26	4·6	2.7	324	31	3·2	2·0	304				
0·6 ,, .													23	6·8	4·0	313	27	4·7	2·5	315	28	3·9	3·2	104
0·9 ,, .													22	6·6	4·3	314	26	5·6	2·8	318	28	6·7	5·7	109
1·5 ,, .	30	5·3	4·4	085	30	5·3	4·8	088	29	7·4	6·6	097	22	5·6	3·8	306	25	5·8	4·5	324	28	4·7	3.2	073
2·1 ,, .	28	5·4	2·5	090	30	4·4	3·7	083	27	4·5	1·9	081	22	5·7	4·2	300	25	5·4	4·7	309	28	4·5	1·8	022
3·0 ,, .	26	4·5	1·3	181	28	4·4	0·4	332	24	4·5	0·5	317	19	7·2	6·6	297	25	6·7	5·9	295	27	4·4	1·6	310
3·6 ,, .	24	5·1	1·3	199	28	4·9	1·0	254	21	4·9	1·0	189	19	7·7	7·5	291	24	8·1	7·3	291	26	5·9	4·5	290
4·5 ,, .	19	5·0	0·3	278	26	5·3	2·0	270	14	4·0	0·9	242	17	13·6	13·1	283	24	12·1	11·1	289	24	8·5	6·9	277
5·4 ,, .	19	5·4	2·1	307	25	5·3	1·5	272	11	5·2	2·4	351	11	16·7	16·0	272	23	17·0	16·3	281	22	11·1	8·4	274
6·0 ,, .	18	6·3	2·3	304	25	6·1	2·0	301	8	6·7	4·7	340	5	16·4	16·3	276	21	21·5	20·6	280	22	12·4	9·8	280
7·2 ,, .	17	8·1	4·5	305	24	8·2	4·0	313	4	6·1	5·3	317					14	27·4	26·1	275	19	14·6	11·8	285
9·0 ,, .	14	7·9	5·9	301	21	8·0	3·7	305									2	31·0	29·2	283	16	15·1	13·9	275

Station	BEGUMPET								BHAGALPUR								BHUBANESHWAR							
Time in I.S.T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	1·6	1·3	084	31	0.9	0·8	102	31	1·4	1·2	258	31	2·4	2·1	281	31	2·0	1·7	360	31	1·3	0·6	031
0·15 a. g. .	31	4·4	3·3	095	31	6·8	6·3	107	30	4·7	3·9	280	30	4·7	4·3	288	31	4·8	3·8	019	31	2·8	1·1	026
0·3 a. m. s. l. .									30	5·2	4·2	299	30	4·9	4·4	292	31	4·8	3·3	036	31	2·6	1·2	010
0·6 ,, .	31	4·3	3·5	095	31	4·6	4·3	104	25	4·1	2·8	312	30	4·3	3·3	299	31	4·0	2·5	028	31	2·5	1·5	359
0·9 ,, .	31	4·3	3·4	087	31	6·9	6·3	106	25	3·4	1·6	319	30	3·9	2·7	299	31	3·8	2·8	004	31	2·7	2·0	344
1·5 ,, .	31	3·7	2·9	070	31	5·1	3·7	080	25	3·9	2·0	291	30	4·1	1·6	293	31	4·0	3·2	316	31	5·3	5·0	321
2·1 ,, .	30	3·5	1·9	019	31	4·4	2·0	011	23	6·3	5·2	290	30	6·3	5·3	298	31	5·4	4·5	297	31	7·4	6·9	290
3·0 ,, .	29	3·9	2·4	282	29	5·4	2·7	310	20	9·4	9·1	284	30	10·1	9·2	285	30	7·1	6·5	277	31	8·5	8·0	288
3·6 ,, .	29	5·7	4·1	269	18	5·1	4·0	294	19	12·3	12·1	283	30	12·7	12·5	282	29	8·5	8·0	272	30	10·7	10·1	274
4·5 ,, .	27	8·9	7·4	268	5	5·5	4·2	282	18	17·5	17·1	278	28	17·3	16·9	278	28	13·7	13·0	270	28	14·8	14·2	267
5·4 ,, .	25	11·1	8·3	273	3	5·2	3·4	310	12	20·7	20·3	273	27	21·3	20·9	274	21	16·1	15·4	268	27	18·9	18·2	268
6·0 ,, .	23	13·0	10·8	277	2	8·0	8·0	306	4	20·3	20·1	259	27	24·1	23·9	273	13	18·2	17·7	260	25	20·6	20·4	268
7·2 ,, .	17	14·0	11·5	290					2	19·3	19·3	265	9	32·6	32·2	272	2	9·0	8·8	270	17	25·7	25·0	263
9·0 ,, .	12	15·9	13·7	282																	3	30·7	28·6	264

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	BHUBANESHWAR				BHUJ												BIKANER							
Time in I.S.T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1.0	0.5	048	31	0·9	0·4	245	31	3·8	3·4	037	31	0·8	0·4	328	31	0·6	0·6	315	31	0·5	0·4	022
0·15 a. g.	31	4·6	2.5	159	31	6·3	4·7	032	31	5·7	4·9	025	31	6·3	4·9	021	29	5·4	3·6	112	31	3·0	1·5	018
0.3 a.m.s.l.	31	4.2	1.4	165	31	6·9	5·9	039	31	5·8	5·2	027	31	6·8	5·4	025	29	4.7	3.5	120	31	2·8	1·5	024
0·6 „	31	3·7	1·0	357	31	7·6	6·4	042	31	6·1	5·5	029	31	7·8	6·8	033	29	4.7	2·6	060	31	3·4	1·8	026
0·9 „	30	4·2	3·0	347	31	6·0	4·7	038	31	5·8	5·0	032	31	7·1	6·1	040	29	4·4	2·0	032	31	3·6	2·1	027
1·5 „	31	4·7	4·5	297	31	4·8	2·6	019	31	5·9	4·4	032	31	5·7	3·3	057	29	4·3	2·8	350	31	3·6	1·3	358
2·1 „	30	6·5	5·4	308	31	4·4	2·9	327	31	6·0	2·7	347	30	4·4	1·5	330	29	4·6	2·9	324	31	4·3	1·8	303
3·0 „	29	7.7	6·9	282	31	5·8	5·2	290	30	7·0	5·1	296	29	6·5	5·5	290	28	6·7	2·6	340	31	7·6	6·2	292
3·6 „	14	9·5	9·2	272	2	7·5	6·8	278	29	9·4	8·2	297	6	10·8	10·2	280	22	8·8	7·1	280	31	10·1	8·9	285
4·5 „	1	12·0	12·0	275	1	11·0	11·0	260	28	12·4	11·6	288	2	12·3	11·9	294	15	11·7	10·6	280	28	14·5	13·5	283
5.4 „									27	16·6	15·2	283					7	12·6	12·0	265	24	18·0	17·0	283
6·0 „									27	18·9	17.2	282					3	15·0	14·7	255	20	20·2	19·6	280
7·2 „									8	24·7	23·3	275									3	2·9	2·9	2 7 2
9·0 „									1	3·5	3·5	205												

Station	BIKANER				CHIKALTHANA												COCHIN							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·4	0·4	030	31	0·6	0·3	090	31	1·2	0·3	175	31	0·8	0·3	049	31	1·2	1·1	057	31	2·7	2·7	270
0·15 a. g.	31	6·0	4·7	066	31	5·9	4·8	096	31	2·4	0·4	192	31	6·9	5·0	073	31	3·8	2·9	081	31	3·5	3·0	272
0·3 a.m.s.l.	31	5·6	4·7	059													31	3·3	2·3	083	31	2·8	2·2	288
0·6 „	31	4·8	3·5	056													31	3·1	2·1	091	31	2·5	1·8	014
0·9 „	31	4·1	2·1	059	31	7·6	5·7	120	31	2·6	0·4	170	31	7·1	4·9	084	31	2·9	2·1	086	31	3·1	2·7	051
1·5 „	31	3·6	0·5	302	31	4·9	3·0	159	31	2·5	0·6	215	31	4·3	2·5	139	31	3·3	2·2	061	31	4·0	3·2	071
2·1 „	31	4·5	2·9	300	30	4·5	3·5	237	31	2·9	1·4	237	31	4·8	3·4	207	30	4·8	2·9	083	31	4·6	2·9	069
3·0 „	30	6·9	5·6	290	27	6·7	4·7	279	29	4·8	3·6	276	31	6·3	4·4	263	27	4·9	0·9	120	30	4·6	1·0	143
3·6 „	12	7·7	6·9	280	9	8·1	7·5	299	26	7·3	6·2	284	19	9·1	6·3	285	25	4·8	0·8	130	23	4·2	1·0	103
4·5 „	1	9·5	9·5	270					20	9·6	8·5	282					12	5·4	1·9	080	15	4·4	1·3	058
5·4 „									16	12·7	11·3	277					2	2·0	2·0	165	8	3·8	2·1	321
6·0 „									15	14·5	12·9	274					1	2·0	2·0	115	4	6·7	4·7	010
7·2 „									1	25·5	25·5	285									2	5·3	3·0	323
9·0 „																					1	5·0	5·0	320

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

Winds upto 9·0 Km. above mean sea level

December 1961 (Agrahayana 10— Pausa 10, 1883 Saka)

Station	COCHIN				DARJEELING								DEHRA DUN								DUM DUM			
Time in I. S. T.	2330				0830				1730				0530				1730				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·4	082	31	0·2	0·1	085	31	7·9	7·6	226	31	0·7	0·6	018	31	0·9	0·7	256	31	0·3	0·3	358
0·15 a. g.	30	2·8	1·5	116	27	1·4	0·9	124	24	2·3	1·9	233	29	1·6	1.2	041	30	2·0	1·5	257	31	5·3	0·5	348
0·3 a. m. s. l.	30	2·6	1·2	120																	31	5·3	4·6	353
0·6 ,,	30	3·1	1·9	115																	31	5·1	4·9	352
0·9 ,,	30	3·7	3·0	107									29	1·5	0·9	082	30	2·0	1·4	252	31	5.0	4·4	343
1·5 ,,	30	3·6	3·2	093									29	1·4	0·1	147	30	1·8	0·1	213	31	5·7	5·1	314
2·1 ,,	30	4·1	2·9	085									29	2·2	0·2	354	30	2·5	0·2	084	31	7·0	6·2	287
3·0 ,,	23	4·4	0·9	113	27	2·7	0·5	301	23	2·9	1·7	316	27	4·2	0·6	274	28	4·1	0·9	239	31	10·2	9·4	275
3·6 ,,	16	4·1	0·5	300	24	6·6	5·2	284	16	5·6	4·4	280	27	5·4	2·9	287	27	5·2	1·2	280	31	12·2	11·2	274
4·5 ,,	6	4·2	0·8	173	21	13·1	12·6	271	15	11.4	10·9	288	25	7·5	5·4	271	27	7·8	5·1	282	31	15·7	15·2	274
5·4 ,,	3	7·5	7·2	058	15	19·0	18·7	275	12	19·0	18·9	273	22	12·7	11·8	272	24	11·3	9·8	280	30	19·8	19·1	272
6·0 ,,	3	7·3	6·9	058	9	24·6	23·9	275	10	26·2	25·9	272	16	17·2	16.2	272	23	14·9	13·5	281	30	23·3	22·5	270
7·2 ,,					4	37·7	37·7	268	5	40·3	40·1	274	4	17·7	15·9	274	14	19·4	18·0	278	28	28·3	27·7	265
9·0 ,,									1	41·5	41·5	260					1	29·5	29·5	295	21	37·8	36·4	265

Station	DUM DUM												GADAG											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·4	1·2	337	31	0·4	0·4	342	31	0·4	0·3	357	31	3·2	2·9	119	31	1·7	1·6	087	31	3·3	3·1	095
0·15 a. g.	31	3·2	3·2	334	31	3.9	3·7	340	31	5·3	4·6	359	31	8·0	7·3	115	31	4·1	3·6	084	31	10·1	8·9	089
0·3 a. m. s. l.	31	3·3	3·1	340	31	3·9	3.7	342	31	4·9	4·4	353												
0·6 ,,	31	3·7	3·4	343	31	4·0	3·7	346	31	4.1	3·7	342												
0·9 ,,	31	4·5	4·0	341	31	4·3	3·9	340	31	4·2	3·6	330	31	9·9	9·2	113	31	4·3	3·7	085	31	9·9	8·8	091
1·5 ,,	31	5·8	5·2	312	31	5·4	4·7	322	31	5·0	4·6	312	31	6·1	4·7	094	31	4·0	3·3	087	31	6·9	6·3	094
2·1 ,,	30	7·1	6·4	287	31	6·9	6·7	293	31	6·9	6·6	295	30	4·1	0·8	080	31	3·6	2·3	084	31	4·4	2·8	099
3·0 ,,	30	10·8	10·3	274	31	10.1	9·9	280	24	9·4	9·0	275	29	4·5	0·5	320	29	4·5	1·5	278	31	4·3	0·8	293
3·6 ,,	30	12·8	12·1	272	31	12·2	11·8	275	6	11·9	11·8	277	29	4·9	2·7	289	28	5·2	2·8	277	28	5·1	1·7	266
4·5 ,,	28	16·5	15.7	269	30	15·0	14.7	271					29	6·2	3·2	282	26	6·5	4·0	266	24	5·9	3·6	271
5·4 ,,	25	20·9	20·4	266	30	20·4	19.5	271					28	7·7	4·3	277	26	7.9	4·9	277	21	6·5	3·1	283
6·0 ,,	23	24·5	24·0	266	30	22·6	22·0	270					28	9·6	5·8	285	26	9·0	6·5	276	15	8·1	4·4	282
7·2 ,,	15	30·7	30·0	265	30	30.1	29.5	269					26	12·0	8.1	290	22	12·1	8·5	283	10	10·5	7.5	277
9·0 ,,	12	47·3	45·7	257	24	36·9	35·3	269					22	10.2	8·5	277	20	14·4	12·6	288	2	6·5	5.7	334

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	GANNAVARAM												GAUHATI											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	2·1	2·1	045	31	2·0	1·7	100	31	2·0	2·0	081	31	CALM			31	2·2	1·7	039	31	0·2	0·1	077
0·15 a. g. .	31	6·2	6·1	072	31	3·1	2·7	103	31	6·6	6·3	104	30	1·7	1·0	079	31	2·6	2·2	046	31	3·1	2·4	067
0·3 a. m. s. l. .	31	5·6	5·3	091	31	3·3	2·9	097	31	6·6	6·3	104	30	1·9	1·1	080	31	2·7	2·4	061	31	3·2	2·5	069
0·6 ,, .	31	4·8	4·4	096	31	3·2	2·6	080	31	5·5	5·1	091	30	3·4	2·6	089	31	3·7	3·4	085	31	3·3	2·8	084
0·9 ,, .	30	4·2	3·3	072	31	3·3	2·7	056	31	4·3	3·5	068	30	4·1	3·6	086	31	4·9	4·6	093	31	3·4	2·5	099
1·5 ,, .	29	3·6	2·4	074	31	3·8	2·3	023	31	4·6	3·3	033	30	4·7	4·0	093	30	5·0	3·9	101	31	2·7	1·1	143
2·1 ,, .	29	3·1	0·4	122	29	3·9	2·1	342	31	3·4	1·1	019	30	4·5	2·9	105	30	4·3	1·5	124	31	3·3	1·8	218
3·0 ,, .	29	4·5	2·5	282	29	5·1	3·2	279	31	4·8	2·9	268	30	5·5	3·6	265	29	6·6	4·9	255	31	5·7	4·9	264
3·6 ,, .	27	5·5	4·0	275	29	6·5	5·1	261	26	6·4	4·8	265	30	9·7	9·0	271	29	11·5	11·0	264	29	11·4	11·2	270
4·5 ,, .	27	8·5	6·4	270	29	9·3	7·7	269	21	9·0	6·4	263	30	16·5	16·0	269	28	18·6	17·7	263	29	17·9	17·5	270
5·4 ,, .	27	10·3	7·9	271	28	10·9	8·5	268	16	10·2	6·6	277	30	21·6	21·1	271	25	22·2	21·8	265	29	22·9	22·4	270
6·0 ,, .	26	11·7	8·9	275	28	11·8	9·0	273	10	12·4	8·3	284	30	24·9	24·3	269	23	25·1	24·6	264	29	26·1	25·7	272
7·2 ,, .	14	11.9	9·8	286	23	15·5	12·6	277	3	9·0	7·4	165	30	33.2	32.1	271	20	33.9	33.1	263	29	33·5	32·7	270
9·0 ,, .	3	8.0	7·6	263	16	17·4	16·1	271					22	45.0	43·6	269	6	48·5	47·7	262	17	46·3	45·8	265

Station	GAUHATI				GAYA												GOPALPUR							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface .	31	0·4	0·1	150	31	1·5	1·1	192	31	2·2	1·8	333	31	1·3	0·7	192	31	3·1	3·1	331	31	4·1	3·7	103
0·15 a. g. .	31	1·9	0·9	098	24	4·1	2·5	260	31	3·8	2·9	323	30	4·4	2·8	310	31	5·0	4·2	353	31	4·1	3·7	176
0·3 a. m. s. l .	31	2·2	1·5	089	24	4·3	2·5	271	31	3·9	3·0	321	30	4·4	3·3	317	31	3·6	2·7	029	31	4·1	3·5	081
0·6 ,, .	31	3·3	2·5	084	24	4·5	3·1	300	31	3·9	3·2	305	30	4·7	3·8	308	31	3·6	2·2	040	31	3·5	2·5	016
0·9 ,, .	31	3·3	2·5	080	23	5·1	3·7	294	31	4·3	3·4	291	30	5·0	4·2	292	31	3·7	2·8	018	31	4·4	3·7	342
1·5 ,, .	27	3·7	1·4	078	22	6·0	5·2	291	31	6·0	4·8	287	30	6·1	5·7	288	31	4·1	3·1	335	31	5·9	5·2	327
2·1 ,, .	24	3·8	1·6	094	20	7·5	7·1	296	30	7·4	6·7	295	28	7·3	6·1	286	31	4·7	3·4	290	31	5·9	4·8	316
3·0 ,, .	18	4·5	1·1	221	19	10·2	9·4	281	30	10·5	9·8	290	18	9·1	8·6	280	28	6·0	5·4	274	31	8·1	7·3	285
3·6 ,, .	7	9·2	8·9	252	12	11·9	11·3	284	29	11·9	11·0	283	3	10·5	9·9	287	27	7·7	7·0	272	31	10·1	9·3	273
4·5 ,, .	4	17.0	15·6	258	6	15·2	15·0	272	24	16·4	16·0	280					23	12·1	11·5	263	31	13·6	13·7	268
5·4 ,, .	1	2·5	2·5	230	2	15·5	15·5	263	11	17·5	17·2	275					18	13·9	12·7	266	28	16·9	16·2	268
6·0 ,, .	1	3.0	3·0	250					4	16·9	16.7	243					15	14·2	13·2	262	27	18·6	17·8	269
7·2 ,, .									1	23·5	23·5	260					5	5·8	5·3	232	13	21·4	20·5	273
9·0 ,, .									1	41·0	41·0	305					1	3·5	3·5	270	4	13·0	12·6	266

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	GOPALPUR				GORAKHPUR								GWALIOR											
Time in I. S. T.	2330				0530				1730				0530				1130				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	2.0	1·7	328	31	0·6	0·1	270	31	1·0	0·7	263	31	0·8	0·1	083	27	1·0	0·3	345	31	2·4	0·6	348
0·15 a. g.	31	2·8	1·4	044	25	4·4	3·6	297	27	2·9	2.3	274	24	4·4	1·3	047	26	2·3	0·5	321	31	3·2	2·3	003
0·3 a. m. s. l.	31	2·9	1·9	061	25	4·5	3·7	301	27	3·1	2·6	277	24	3·1	0·2	342	26	2·2	0·9	333	31	2·8	2·1	002
0·6 ,,	31	3·4	2·3	057	24	3·9	2·3	297	27	3·5	2·5	282	24	5·2	1·9	027	24	2·6	0·5	274	31	3.6	2·3	347
0·9 ,,	31	4·0	3·5	018	24	3·7	1·3	296	25	3·8	2·3	281	24	5·2	2·1	357	24	3·1	1·0	283	31	3·6	3·0	325
1·5 ,,	31	4·6	3·9	347	24	4·7	2.1	313	25	4·4	2·0	311	24	5·6	3·7	315	24	3·9	2·3	292	31	4·5	3·1	307
2·1 ,,	31	5·3	4·2	308	24	5·7	4·5	302	25	5·9	4·3	302	23	6·5	5·7	308	24	5·4	4·1	283	31	5·6	4·9	299
3·0 ,,	30	7·2	5·8	280	24	7·8	7·4	292	25	8·5	7·6	292	23	9·0	8·2	289	23	7·4	6·8	290	31	8·9	8·2	282
3·6 ,,	10	11·1	10·3	274	21	10·6	10·1	286	25	11·0	10·4	289	23	11·3	10·1	285	22	10·6	9·5	275	30	11·7	11·0	283
4·5 ,,					17	14·7	14·3	282	25	14·3	13·9	283	21	15·9	15·5	285	21	14·6	13·7	277	28	15·9	15·0	279
5·4 ,,					15	17·2	16·9	275	24	18·1	17·6	283	19	20·0	19·0	281	21	19·0	17·9	279	28	20·1	18·0	278
6·0 ,,					7	18·4	18·1	277	21	21·3	20·7	279	18	23·3	22·5	279	21	2·8	21·9	280	26	23·2	22·4	282
7·2 ,,					2	30·5	30·0	282	15	29·4	28·5	276	15	30·0	29·0	277	19	30·1	29·3	278	21	29·1	28·7	277
9·0 ,,									8	39·4	38·6	274	4	35·6	35·3	278	7	38·0	37·0	273	8	43·4	41·7	274

Station	GWALIOR				IMPHAL																JABALPUR			
Time in I. S. T.	2330				0530				1130				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	C	A	L	M	31	0·3	0·2	056	31	0·3	0·1	196	31	0·8	0·6	236	31	0·7	0·6	044	31	0·3	0·1	095
0·15 a. g.	31	3·9	2·2	038	28	1·8	1·2	065	31	1·2	0·6	219	31	2·2	1·4	235	31	1·8	0·9	025	29	3·7	2·6	091
0·3 a. m. s. l.	31	3·3	1·8	037																				
0·6 ,,	31	3·8	1·8	009																	29	4·4	2·5	085
0·9 ,,	31	4·0	2·1	310	28	1·7	1·3	069	31	1·3	0·7	213	31	2·1	1·3	235	31	1·8	1·0	028	29	4·9	1·2	059
1·5 ,,	30	4·7	3·7	305	28	2·2	1·2	081	31	2·8	1·7	148	31	2·3	1·4	220	31	2·7	1·0	168	28	5·3	3·2	307
2·1 ,,	31	5·4	4·8	294	20	4·3	2·3	184	29	4·8	3·9	218	31	4·1	3·9	246	30	4·4	3·5	219	28	6·8	6·0	293
3·0 ,,	30	8·3	7·7	282	14	7·9	7·4	253	26	9·8	9·2	260	28	10·6	10·1	257	18	8·3	7·9	263	26	9·7	9·1	282
3·6 ,,	18	10·8	10·3	278	6	12·1	11·6	250	24	15·1	14·7	264	28	14·3	13·8	265	12	13·8	13·5	269	24	11·8	11·2	278
4·5 ,,					3	15·7	15·7	242	9	18·0	17·9	256	25	20·4	20·0	268	5	22·1	20·6	271	19	13·2	12·5	274
5.4 ,,									9	23·3	23·1	256	17	22·8	22·2	265	1	13·0	13·0	335	9	14·5	13·8	265
6·0 ,,									8	25·9	25·6	257	12	27·7	27·2	265					6	17·1	16·5	273
7·2 ,,									6	38·7	38·1	258	9	35·8	35·0	262					1	21·0	21·0	250
9·0 ,,									1	46·0	46·0	250	1	42·0	42·0	245								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	JABALPUR								JAGDALPUR												JAIPUR			
Time in I. S. T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·6	0·5	028	31	0·2	0·2	086	31	0·8	0·5	135	31	0·9	0·5	359	31	0·1	0·1	104	31	1·3	0·8	038
0·15 a. g.	31	3·0	1·7	008	31	4·6	3·6	055	22	3·1	1.9	074	31	3·5	2·1	013	31	4·9	4·1	062	31	4·3	2·3	051
0·3 a. m. s. l.																								
0·6 ,,	31	3·2	1·7	007	31	4·6	3·5	051	22	1·3	0·7	085	31	2·4	1·3	014	31	3·1	2·5	069	31	4·1	2·3	051
0·9 ,,	31	3·2	1·7	354	31	4·1	2·5	046	22	4·1	2·3	062	31	3·6	2·1	007	31	4·7	3·8	050	31	3·9	1·7	354
1·5 ,,	31	4·2	2·7	310	31	4·4	3·1	296	22	3·9	2·7	338	31	3·0	2·2	342	30	3·5	1·9	345	31	4·7	3·3	314
2·1 ,,	30	6·9	6·2	290	31	7·0	6·2	281	22	5·1	3·9	316	31	4·1	2·8	041	29	4·3	3·2	321	31	5·4	4·2	303
3·0 ,,	29	10·1	9·8	282	28	10·5	10·1	287	21	6.6	5·3	285	27	6·5	5·4	285	28	6·5	5·7	286	30	7·5	6·5	294
3·6 ,,	29	12·1	11·8	284	15	10·8	10·4	285	21	8·1	6·8	272	26	8·4	7·9	279	11	8·1	6·9	279	23	9·9	8·9	286
4·5 ,,	26	15·6	15·0	283	1	15·0	15·0	270	17	10·2	9·8	268	25	12·2	11·5	269	1	16·0	16·0	260	2	13·3	12·9	253
5·4 ,,	24	20·4	19·6	279					8	11.9	11·4	268	24	14·6	13·8	265								
6·0 ,,	23	24·2	23·4	277					6	12.0	11.2	272	21	16·5	15·2	274								
7·2 ,,	7	26·1	25·8	264									6	21·2	20·3	272								
9·0 ,,																								

Station	JAIPUR								JAMSHEDPUR								JHARSUGUDA							
Time in I. S. T.	1730				2330				0530				1730				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·9	0·5	039	31	1·4	1·2	066	31	0·9	0·7	318	31	0·9	0·5	334	31	1·4	1·3	009	31	0·8	0·3	314
0·15 a. g.	31	2·6	0·8	034	31	5·2	3·3	072	31	3·4	2·9	314	31	2·5	1·7	332	30	5·4	4·5	036	31	2·5	0·8	295
0·3 a. m. s. l.									31	3·4	2·8	323	31	2·6	1·8	337	30	4·9	4·3	035	31	2·3	0·8	297
0·6 ,,	31	2·5	0·7	025	31	5·2	3·7	074	31	3·9	2·5	341	31	2·7	2·1	333	30	4·5	2·1	023	31	2·3	1·5	310
0·9 ,,	31	2·9	1·1	340	31	4·1	2·1	058	31	4·7	2·9	319	31	3·3	2·5	329	30	3·7	2·1	349	31	3·0	2·3	312
1·5 ,,	31	3·6	2·3	328	31	3·6	1·3	301	31	4·9	3·5	291	31	6·2	5·2	320	30	4·9	3·4	321	30	5·6	4·6	328
2·1 ,,	31	4·8	3·3	295	31	4·8	3·0	287	31	6·2	5·5	290	31	8·2	7·5	298	30	6·5	5·7	303	29	7·7	6·7	308
3·0 ,,	31	8·4	4·3	289	31	7·7	6·1	285	30	9·8	9·2	278	30	11·5	11·1	284	29	9·0	7·2	271	29	9·5	8·9	289
3·6 ,,	30	11·6	10·5	280	26	10·0	8·7	286	24	11·4	11·3	277	28	13·3	13·0	276	20	10·4	9·9	289	28	11·2	10·7	280
4·5 ,,	28	16·4	15.2	276	9	13.1	12.6	279	15	15·3	14·7	271	27	16·4	16·0	272	14	13·8	13·3	280	26	15·2	15·0	276
5·4 ,,	27	21.9	21.9	278	1	12.0	12.0	260	7	23·5	22·9	271	18	23·0	22·3	271	2	21·7	21·5	267	19	19·5	18·7	276
6·0 ,,	26	25.6	24·4	279									11	26·5	25·9	266					11	22·0	21·2	277
7·2 ,,	10	32.4	30.8	270									1	28·5	28·5	265								
9·0 ,,																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

Winds upto 9·0 Km. above mean sea level

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	JHARSUGUDA				JODHPUR																MADRAS			
Time in I. S. T.	2330				0530*				1130				1730*				2330				0530*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·7	0·4	013	30	3·1	2·9	0.9	31	2·3	2·1	059	30	2·8	1·9	043	31	2·7	2·4	038	31	2·6	2·5	013
0·15 a. g.	31	3·0	0·2	314	30	6·5	6·0	055	31	3·7	3·1	075	30	4·6	4·3	022	31	7·6	5·5	059	31	7·4	7.0	038
0·3 a. m. s. l.	31	2·5	0·3	018	30	5·0	4·7	054	31	3·3	3·0	061	30	4·1	3·1	025	31	6·5	5·3	053	31	7·3	7·1	041
0·6 ,,	31	2·8	0·7	317	30	5·0	2·9	050	31	4·0	3·3	076	30	4·1	3·1	033	31	6·8	5.8	060	31	7·5	7·2	050
0·9 ,,	31	2·8	1·5	331	30	4·6	3·3	054	31	4·5	3·1	065	30	3·4	1·7	029	31	5·6	4·4	061	31	7·2	6·7	057
1·5 ,,	31	4·1	2·8	328	30	4·6	2·8	350	31	3·7	1·8	017	30	3·1	1·7	015	31	3·9	1·6	065	31	6·3	5·6	065
2·1 ,,	30	6·3	5·1	307	30	4·8	2·8	317	31	4·2	1·8	304	30	4·8	2·7	315	31	3·8	1·5	313	31	6·0	2·3	071
3·0 ,,	29	9·0	8·7	291	30	6·6	5·5	284	31	7·3	5·9	280	30	7·8	6·2	280	31	7·2	6·1	302	31	5·9	2·0	167
3·6 ,,	16	10·4	10·3	288	30	8·6	5·8	283	30	10·5	9·2	280	30	10·2	8·8	279	13	9·4	8·7	288	31	5·1	1·3	177
4·5 ,,					30	13·1	12·2	277	30	15·8	14·7	279	30	14·4	13·6	279	2	10·5	10·3	272	31	5·8	1·3	230
5·4 ,,					30	18·2	17·3	274	28	19·5	18·9	276	30	18·8	17·6	276	1	11·0	11·0	290	31	6·4	1·1	284
6·0 ,,					30	23·0	21·8	275	26	22·6	21·5	278	30	22·1	21·3	276	1	13·5	13·5	295	31	7·0	1·1	302
7·2 ,,					30	30·1	26·1	272	14	29·1	28·6	281	30	28·7	27·9	276					31	9·1	4·1	314
9·0 ,,					12	39·4	36·3	272					11	38·0	36·8	265					26	8·6	4·4	307

Station	MADRAS												MINICOY											
Time in I. S. T.	1130				1730*				2330				0530				1730				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	5·7	5·1	033	31	4·8	4·4	036	31	2·5	2.1	009	31	1·5	1·2	050	31	1·3	0·6	045	31	1·4	0·9	065
0·15 a. g.	31	6·1	5·7	039	31	7·4	7·2	043	31	6·5	6·1	041	29	3·8	3·1	053	30	3·8	2.2	047	29	3·6	2·8	061
0·3 a. m. s. l.	31	6·5	6·2	039	31	7·3	7·0	045	31	7·0	6·8	047	29	4·0	3·1	055	30	4.1	2·8	052	29	3·7	2·9	065
0·6 ,,	31	6·3	6·1	042	31	6·9	6·5	046	31	7·6	7·3	051	29	4·8	3·8	062	30	4·4	3·0	063	29	3·9	3·1	068
0·9 ,,	30	6·3	6·0	046	31	6·5	6·2	050	31	7·6	7·2	053	29	5·7	4·8	070	29	4·5	3·5	072	29	4·5	3·8	067
1·5 ,,	20	6·1	4·8	055	30	6·2	4·9	058	30	6·3	5·1	058	28	5·2	4·5	078	28	4·9	3·9	077	29	4·6	3·8	075
2·1 ,,	14	5·7	2·9	049	30	5·7	2·7	051	25	6·0	3·0	060	27	4·8	3·8	092	27	5·2	3·2	081	27	5·1	3·8	080
3·0 ,,	6	4·2	2·6	104	30	4·7	0·4	042	23	5·1	1·5	061	25	5·3	2·5	077	25	5·3	2·6	101	21	4·5	1·2	090
3·6 ,,	4	4.1	0·4	073	31	4·8	1·2	245	23	4·8	1·2	003	18	6·3	1·4	094	24	4·9	2·7	106	10	4·4	1·2	081
4·5 ,,	4	3·5	2·3	020	31	4·9	1·8	252	20	5·8	0·8	323	14	5·9	3·5	097	22	4·7	3·1	076	6	4·0	2·3	036
5·4 ,,	4	4·7	1·7	340	31	5·6	1·5	254	9	7·8	4·4	024	12	7·5	6·6	084	19	5·1	3·7	070	1	3·5	3·5	030
6·0 ,,	4	6.3	3.0	324	31	6·8	2·3	275	7	7·7	4·1	002	10	8·1	7·1	074	16	5·1	3·8	059				
7·2 ,,	3	6.3	3.7	352	30	8·1	3·7	308	1	6·0	6·0	335	5	10·6	8·9	085	13	7·8	5·3	058				
9·0 ,,	3	7·3	4.5	316	30	8.5	4·3	289					2	8·5	8·5	102	7	8·6	7·0	068				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	MOHANBARI																NAGPUR							
Time in I. S. T.	0530				1130				1730				2330				0530*				1130			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·2	0·2	045	31	0·5	0·4	038	31	0·2	0·1	035	31	0.3	0·3	040	31	1·3	0·7	006	31	1·0	0·4	076
0·15 a. g.	27	4·2	3·6	057	31	1·8	1·6	044	31	1·9	1·6	051	30	3·5	2·7	036	31	5·3	4·2	067	31	2·3	1·1	088
0·3 a. m. s. l.	27	3·8	3·4	050	31	1.8	1·6	049	31	1·9	1·6	049	30	3·1	2·5	041								
0·6 ,,	27	3·6	3·1	036	31	2·4	2·1	039	31	2·2	2·0	048	30	3·2	2·7	048	31	5·2	3·9	078	31	3·0	1·7	102
0·9 ,,	27	3·6	3.0	043	31	3·1	2·8	042	31	2·5	2·1	045	30	3·1	2·7	057	31	5·1	2·5	110	30	3·6	1·0	134
1·5 ,,	27	2·7	1·9	071	31	2·5	1·7	058	31	2·2	0·8	078	30	2·4	1·9	068	31	4·4	1·4	289	29	5·1	2·3	297
2·1 ,,	27	2·6	1·4	110	30	2·6	1·5	138	31	2·9	2·1	194	30	2·3	1·0	178	31	6·6	5·0	296	28	6·7	5·0	301
3·0 ,,	24	3·7	1·9	196	26	3·9	2·4	200	30	4·9	4·2	205	28	4·8	3·9	209	31	8·2	7·5	285	27	7·5	6·2	294
3·6 ,,	18	4·7	3·5	230	23	6·1	5·1	238	30	5·9	4·9	230	22	4·9	3·1	217	31	8·9	8·1	281	25	9·5	8·9	283
4·5 ,,	9	15·6	15·0	251	22	14·0	13.0	248	26	11·6	10·8	251	1	16·5	16·5	245	31	12·9	12·6	280	25	13·9	13·1	277
5·4 ,,	4	18·1	18·1	260	20	20·2	19·6	257	23	17·4	17·0	252					31	16·8	16·0	275	22	17·0	16·0	277
6·0 ,,	4	21·6	21·5	255	20	22·8	22·3	256	23	19 9	18.9	257					31	19·5	18·6	274	22	20·1	18·5	276
7·2 ,,					12	32.9	32·3	262	13	31·7	30·5	268					31	25·1	23·8	273	18	25·9	24·0	272
9·0 ,,					4	42·4	40·4	264									31	30·9	29·7	273	5	29·6	28·6	257

Station	NAGPUR								NEW DELHI															
Time in I. S. T.	1730*				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	0·8	0·4	062	31	1·0	0·8	045	31	1·2	1·0	313	31	2·8	1·8	290	31	1·3	0·5	315	31	2·1	0·4	322
0·15 a. g.	31	3·1	1·7	049	31	6·2	4·7	085	30	4·6	3·9	325	26	4·2	2·4	306	31	5·1	2·9	317	30	5·6	3·7	325
0·3 a. m. s. l.									30	4·2	3·6	324	26	3·9	1·9	318	31	3·2	2·3	317	30	5·2	3·3	310
0·6 ,,	31	2·9	1·7	056	31	5·9	4·1	092	30	5·0	4·3	330	26	5·2	2·9	310	31	5·1	3·0	323	30	5·7	4·0	326
0·9 ,,	31	2·7	1·3	070	31	4·5	2·3	085	30	5·6	4·6	325	26	6·2	4·0	312	31	5·2	3·0	330	30	5·6	3·9	329
1·5 ,,	31	3·6	1·3	318	31	3·9	2·1	309	30	5·6	5·1	314	25	6·9	4·9	311	31	5·6	3·5	322	29	5·8	4·6	298
2·1 ,,	31	6·1	4·1	302	31	5·8	4·9	294	30	6·4	5·5	308	24	6·2	4·8	311	31	5·9	4·4	309	27	6·6	5·7	295
3·0 ,,	31	8·0	7·0	283	31	8·5	7·5	274	30	7·4	6·2	301	24	7·1	5·9	293	31	7·4	5·6	291	20	8·5	7·8	294
3·6 ,,	31	9·4	8·8	286	10	12·0	10·8	279	30	8·0	7·0	288	24	9·1	7·8	283	31	8·5	6·5	280	6	7·4	7·2	267
4·5 ,,	31	13·2	12·5	277	1	12·5	12·5	280	30	11·3	10·7	280	24	12·6	11·2	281	31	11·6	10·1	282	2	10·0	10.0	275
5·4 ,,	31	17·2	16·4	276					29	16·4	15·8	279	21	17·0	15·3	282	31	15·2	13·9	279	1	9·0	9·0	280
6·0 ,,	31	19·4	16·8	274					29	18·8	18·0	279	20	19·3	18·3	281	31	19·4	18·5	280	1	11·0	11·0	280
7·2 ,,	31	25·3	23·8	276					29	25·0	24·2	277	10	28·9	28·5	280	31	27·7	26·1	280				
9·0 ,,	31	29·2	27·9	271					27	35·4	33·8	277	2	40·5	39·1	270	30	38·1	36·0	275				

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	POONA												PORT BLAIR											
Time in I. S. T.	0530				1730				2330				0530*				1130				1730*			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·1	0·1	135	31	0·3	0·2	275	31	0·1	0·0	270	31	2·1	2·0	050	31	4·0	3·7	051	31	3·5	3·4	050
0·15 a. g. .	31	2·6	1·5	107	31	2·5	0·5	245	31	3·2	0·7	317	31	6·5	6·4	045	31	7·5	7·1	050	31	6·8	6·5	049
0·3 a. m. s. l. .													31	6·3	6·0	047	31	7·9	7·6	050	31	6·8	6·4	050
0·6 ,, .	31	1·6	0·6	191	31	1·8	0·2	299	31	1·6	0·8	225	31	7·5	7·4	063	30	8·1	7·8	057	31	7·2	6·8	060
0·9 ,, .	31	4·0	2·7	099	31	2·6	0·6	257	31	4·3	1·5	013	31	7·8	7·5	081	28	7·9	7·7	072	28	7·2	6·6	076
1·5 ,, .	31	5·0	4·1	131	31	2·3	0·9	236	31	4·1	2·2	110	29	8·2	7·6	096	20	7·9	7·6	092	28	6·8	6·4	092
2·1 ,, .	30	3·9	3·2	180	30	2·1	1·0	182	30	4·2	3·5	129	24	8·1	6·2	098	17	6·5	6·2	090	25	6·0	5·6	095
3·0 ,, .	28	5·7	2·6	270	30	4·0	2·3	262	30	4·5	2·5	234	19	5·2	4·7	099	14	4·8	3·3	110	22	5·1	3·7	087
3·6 ,, .	22	6·4	4·8	297	26	6·4	4·8	276	23	6·8	5·2	270	15	5·7	3·8	092	11	6·1	2·3	090	16	5·1	3·2	093
4·5 ,, .	6	7·5	4·0	309	22	9·7	8·2	282	11	10·1	9·2	268	13	4·6	2·2	076	7	7·1	4·1	089	15	5·2	1·5	072
5·4 ,, .					22	12·5	10·4	277	3	6·5	5·1	271	11	6·3	1·8	085	7	7·6	4·9	078	13	5·7	3·3	110
6·0 ,, .					20	13·6	11·6	279	1	2·0	2·0	200	10	6.3	2·8	098	7	6·9	4·5	068	10	6·4	2·4	125
7·2 ,, .					10	18·3	17·1	274	1	3·5	3·5	245	7	7·3	2·6	090	5	6·5	3·7	079	8	5·9	0·6	162
9·0 ,, .					5	20·5	19·6	295					3	4·6	3·3	107	4	8·9	4·3	098	5	6·9	2·3	094

Station	PORT BLAIR				RAIPUR												RAXAUL							
Time in I. S. T.	2330				0530				1730				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	3·8	3·5	049	31	0·5	0·3	050	31	0·8	0·8	012	31	0·7	0·6	091	31	0·3	0·1	068	31	0·8	0·7	243
0·15 a. g. .	29	6·7	6·5	051	30	4·7	3·9	062	31	2·3	1·7	019	31	3·7	2·6	081	23	3·3	0·6	340	28	4·0	3·3	251
0·3 a.m. s. l. .	29	6·8	6·6	051													23	2·9	1·2	302	28	3·9	3·3	251
0·6 ,, .	29	7·3	7·1	062	30	5·1	3·5	064	31	2·4	1·7	018	31	3·3	1·8	073	22	2·4	0·7	242	28	3·1	2·5	258
0·9 ,, .	24	6·5	6·3	075	30	4·1	2·3	064	31	2·6	1·6	353	31	3·2	1·0	027	22	2·8	0·9	138	28	2·7	1·3	241
1·5 ,, .	16	4·8	4·2	081	26	4·7	2·7	338	31	5·1	3·7	314	31	4·5	2·6	330	21	3·4	1·4	115	28	3·3	1·3	095
2·1 ,, .	10	4·5	4·1	088	24	6·0	4·6	305	30	7·3	6·0	310	28	6·4	5·2	306	19	4·4	0·7	245	28	4·2	0·8	015
3·0 ,, .	7	4·2	1·7	093	18	6·9	5·6	292	28	7·8	7·0	287	26	8·3	7·6	285	17	7·0	6·3	281	28	7·5	5·9	290
3·6 ,, .					17	8·3	7·3	282	28	10·7	10·0	282	5	7·8	7·8	284	15	9·1	8·6	283	27	9·9	9·4	286
4·5 ,, .					11	11·9	11·2	275	25	14·5	14·0	277	1	5·0	5·0	260	13	13·9	13·4	281	24	13·9	13·7	281
5·4 ,, .					5	12·1	11·2	270	21	18·4	17·2	275					9	19·1	18·8	271	13	15·7	15·5	276
6·0 ,, .					3	13·2	13·1	250	14	20·5	18·7	267					5	21·6	21·5	273	7	18·5	18·2	275
7·2 ,, .									2	19·0	18·9	254												
9·0 ,, .																								

Table IV—Monthly Mean Directions and Velocities of Upper Winds

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Station	SANTA CRUZ																TIRUCHIRAPALLI							
Time in I.S.T.	0530*				1130				1730*				2330				0530				1730			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	1·8	1·5	054	31	1·5	0·9	076	31	3·8	3.0	312	31	1·2	1·1	021	31	3.0	2·7	013	31	3·6	3·2	059
0·15 a. g.	31	5·7	4·7	056	31	2·7	1·7	095	31	6·0	5·2	318	31	5·1	4·7	359	31	7·8	7·6	023	29	6·6	6·3	056
0·3 a. m. s. l.	31	5·0	3·3	057	31	3·3	2·4	105	31	4·6	3·3	316	31	5·5	4·8	357	31	8·9	8·8	028	29	6·7	6·4	056
0·6 „	31	4·6	2·8	086	31	4·0	2·5	133	31	2·8	0·6	300	31	4·0	2·8	352	31	9·5	9·2	045	29	7·3	7·1	053
0·9 „	31	4·2	1·7	118	31	3·9	1·9	152	31	2·7	0·7	197	31	2·9	0·9	351	31	8·8	8·5	054	28	7·2	7·0	050
1·5 „	31	4·4	2·9	183	30	4·5	3·4	194	31	3·4	1·7	172	31	3·6	2·3	149	27	6·4	5·7	057	25	6·9	6·3	049
2·1 „	31	5·5	4·7	198	30	5·2	3·9	203	31	4·0	1·9	199	31	5·5	4·6	143	26	6·0	3·6	061	23	5·7	3·5	045
3·0 „	31	5·6	3·4	273	30	5·8	3·2	283	31	5·0	2·3	283	31	5·3	2·0	236	22	5·4	1·1	143	20	6.4	0·7	312
3·6 „	30	7·4	5·6	291	29	7·4	4·9	287	31	6·0	3·6	282	26	6·6	5·1	272	20	5·1	1·3	215	18	5·5	1·5	259
4·5 „	30	10·0	8·3	283	28	8·9	6·7	281	31	8·8	7·9	280	21	10·1	9·1	274	19	4·7	0·3	193	16	3·7	0·1	237
5·4 „	29	13·3	11·3	286	28	12·4	9·7	280	31	11·5	10·1	276	16	15·6	13·9	278	16	4·0	0·5	019	16	5·1	1·0	061
6·0 „	29	15·7	14·0	297	27	14·6	11·1	276	31	13·5	12·4	277	16	18·6	16·5	278	15	5·3	3·2	008	16	5·8	2·3	009
7·2 „	26	19·4	16·4	297	22	16·8	13·3	270	29	19·1	17·5	278					9	7·1	5·1	005	12	8·1	2.6	029
9·0 „	22	24·6	22·3	296	15	20·3	17·0	284	24	24·2	22·7	278					2	5·7	5·5	282	7	6·1	3·4	322

Station	TIRUCHIRAPALLI				TRIVANDRUM																UDAIPUR			
Time in I.S.T.	2330				0530*				1130				1730*				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface	31	3·0	2·8	041	31	1·1	0·7	037	31	0·9	0·4	341	31	1·5	0·7	266	31	0·8	0·4	325	31	0·1	0·1	225
0·15 a. g.	31	8·7	8·5	047	31	2·7	1·6	025	31	1·7	0·7	335	31	2·9	1·4	267	31	2·4	1·7	257	31	2·4	1.5	003
0·3 a. m. s. l.	31	9·9	9·6	048	31	2·5	1.3	030	31	1·6	0·5	334	31	2·8	1·2	284	31	2·3	1·6	249				
0·6 „	31	11·0	10·7	051	31	2·3	1.3	072	30	1·7	1·2	042	31	2·4	0·8	030	31	2·0	0·4	004				
0·9 „	30	9·4	9·1	052	31	3·1	2·4	077	29	2·6	2·1	053	31	3·2	2·5	056	30	3·7	3·2	065	31	3·4	1·8	073
1·5 „	29	6·5	5·9	058	31	3·0	1·7	079	25	4·6	3·1	055	31	4·9	4·3	053	30	5·1	4·7	065	31	3·7	0·5	332
2·1 „	28	6·5	4·4	065	31	4·3	1·6	076	19	4.9	2·1	067	31	5·2	2·8	060	29	4·7	2·7	078	31	4·5	3·1	285
3·0 „	27	5·3	1·3	083	31	4·9	1·5	110	17	5·0	2·3	110	31	5·0	2·1	086	28	4·9	1·8	118	31	7·7	6·6	273
3·6 „	19	4·5	0·7	125	31	5·6	2·3	108	15	5·3	2·0	104	31	5·0	1·4	086	23	5·1	1·6	141	31	10·5	9·9	277
4·5 „	10	4·1	2·5	236	31	5·6	2·7	092	14	5·6	2·9	117	31	5·2	1·9	094	19	4·2	0·6	064	29	14·9	13·7	277
5·4 „	9	3·8	1·7	355	31	5·8	3·7	090	12	6·7	3·6	071	31	5·0	3·0	076	14	5·4	4·0	073	22	18·1	17·2	280
6·0 „	6	6·4	5·2	357	31	6·3	4·4	080	10	8·3	3·5	043	31	5·5	3·6	067	11	6·4	4·5	055	14	20·1	19·4	273
7·2 „					31	8·1	5·2	058	7	8·9	6·9	068	31	6·9	4·3	061	3	7·0	6·7	038	1	26·0	26·0	255
9·0 „					29	6·5	3·3	068	5	6·8	4·8	112	31	6·4	2·5	068								

TABLE IV—MONTHLY MEAN DIRECTIONS AND VELOCITIES OF UPPER WINDS

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

December 1961 (Agrahayana 10—Pausa 10, 1883 SAKA)

Station	UDAIPUR								VENGURLA												VERAVAL			
Time in I.S.T.	1730				2330				0530				1730				2330				0530			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	0·5	0·3	114	31	0·1	0·1	225	31	0·4	0·3	011	31	1·8	1·6	270	31	0·4	0·4	356	31	4·7	4·4	035
0·15 a. g. .	31	2·7	1·4	080	31	2·7	2·0	050	31	5·3	4·1	073	31	4·1	3·4	277	31	5·6	5·4	002	31	10·9	10·0	043
0·3 a. m. s. l. .									31	5·9	4·0	083	31	3·8	2·8	276	31	6·5	6·0	356	31	8·5	7·2	050
0·6 ,, .									31	6·0	3·7	099	31	2·6	1·0	319	31	5·6	4·8	354	31	5·2	3·3	059
0·9 ,, .	31	2·8	1·4	07[illegible]	31	3·5	2·5	062	31	6·0	4·2	113	31	2·7	1·4	050	31	4·1	2·8	008	31	3·7	1·4	042
1·5 ,, .	31	3·3	1·3	325	31	3·2	0·4	093	31	3·7	2·6	130	31	4·7	3·7	071	31	4·9	3·8	086	31	4·3	1·2	258
2·1 ,, .	31	4·7	3·1	279	31	4·7	3·2	272	30	3·5	1·8	150	31	5·8	4·2	078	31	6·1	5·3	097	31	4·1	1·6	299
3·0 ,, .	31	8·8	7·3	274	31	7·9	7·1	278	30	5·0	1·8	261	31	4·9	1·4	004	31	5·0	1·8	112	31	5·0	3·8	294
3·6 ,,	31	12·2	11·4	277	18	9·7	9·3	285	3	5·3	2·9	240	31	5·4	2·1	317	7	7·4	2·4	248	23	7·1	5·9	299
4·5 ,,	30	15·3	13·9	279	1	15·0	15·0	270					31	6·3	3·8	274					11	10·8	9·8	275
5·4 ,, .	30	19·2	17·9	281									31	8·3	5·0	276					6	14·5	12·8	275
6·0 ,, .	29	22·3	21·3	279									31	9·4	6·6	274					1	9·0	9·0	245
7·2 ,, .	13	26·6	25·4	277									16	12·9	9·6	280								
9·0 ,, .	1	33·0	33·0	285									1	34·0	34·0	310								

Station	VERAVAL								VISAKHAPATNAM															
Time in I.S.T.	1730				2330				0530*				1130				1730*				2330			
Ht. in Km.	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D	n	V	v	D
Surface . .	31	5·0	2·5	250	31	3·4	2·6	011	31	1·4	1·3	033	31	2·6	2·1	066	31	3·1	3·0	043	31	0·3	0·3	054
0·15 a.g. .	31	4·0	1·9	261	31	7·7	6·1	020	31	7·5	7·2	025	31	2·9	2·4	069	31	7·5	7·5	052	31	3·1	2·8	064
0·3 a. m. s. .	31	4·0	1·7	287	31	8·0	6·3	027	31	7·2	7·0	035	31	2·9	2·6	071	31	6·9	6·6	059	31	3·9	3·7	078
0·6 ,, .	31	3.9	2·1	010	31	7·4	5·9	038	31	4·7	4·3	056	31	3·0	2·7	048	31	4·7	3·8	069	31	4·4	4·0	074
0·9 ,, .	31	4·2	3·3	023	31	6·2	5·1	055	31	4·4	3·5	038	31	3·6	3·2	031	31	4·2	3·3	032	31	4·0	3·6	049
1·5 ,, .	31	4·0	2·5	031	31	4·7	2·9	070	31	3·8	2·9	348	29	4·2	2·8	346	31	5·4	5·0	342	30	4·5	4·0	007
2·1 ,, .	31	4·3	1·3	344	31	4·8	0·2	246	31	3·8	2·1	295	27	3·6	2·2	302	31	5·3	4·2	323	28	4·1	1·7	336
3·0 ,, .	31	6·4	5·3	295	31	5·8	3·6	310	31	5·1	3·7	288	26	4·8	3·6	274	31	5·4	4·3	277	28	5·4	3·4	281
3·6 ,, .	31	8·6	7·1	293	25	7·6	5·9	293	31	7·1	5·6	270	25	6·8	5·7	269	31	7·3	6·5	263	19	7·3	5·8	277
4·5 ,, .	31	12·2	11·1	284	14	12·6	10·9	276	30	10·4	8·8	270	25	10·2	8·6	262	30	10·1	9·2	265	13	8·8	6·7	263
5·4 ,, .	31	16·4	15·2	281	6	19·0	16·3	280	29	12·8	11·5	261	23	12·0	10·4	258	30	12·2	11·0	268	5	9·3	7·2	258
6·0 ,, .	31	19·3	17·9	278	3	20·3	20·3	253	29	14·8	13·3	265	23	12·7	11·2	263	30	13·8	12·7	275	2	7·7	7·7	249
7·2 ,, .	30	25·1	24·0	273					28	17·4	15·4	270	23	17·2	15·2	275	30	16·5	14·7	273	1	13·0	13·0	235
9·0 ,, .	27	30·4	28·4	280					26	21·3	20.0	273	14	19·2	18·3	269	30	19·7	18·3	272				

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Ht. in Km.	n	V	v	D
AHMEDABAD				
0530 hr.*				
10·5	25	40·6	38·5	281
12·0	17	44·3	41·8	278
14·1	7	32·3	31·0	268
16·2	4	32·1	29·5	261
18.0	3	19·8	18·7	285
21·0	1	11·5	11·5	275
24·0	1	5.5	5·5	315
1730 hr.*				
10·5	18	38·9	37·1	284
12·0	8	45·3	43·8	275
14·1	2	31·3	31·3	247
16·2	2	15·3	14·6	271
18·0	1	7·0	7·0	340
AMAUSI				
1730 hrs.				
10·5	1	48·5	48·5	270
12·0	1	55·0	55·0	270
AMBALA				
1130 hr.				
10·5	6	63·1	60·2	281
12·0	3	64·0	62·3	280
14·1	1	51·0	51·0	290
1730 hr.				
10·5	1	34·0	34·0	285
ANANTAPUR				
0530 hr.				
10·5	7	11·9	11·1	259
12·0	1	18·0	18·0	230
1730 hr.				
10·5	17	13·6	11·6	272
12·0	12	15·7	13·2	247
14·1	10	13·9	11·8	245
16·2	4	10·0	8·1	332
18.0	3	5·8	5·8	324
21·0	1	19·0	19·0	185
BAGHDOGRA				
2330 hr.				
10·5	1	13·5	13·5	090

Ht. in Km.	n	V	v	D
BAHRAICH				
1730 hrs.				
10·5	9	51·7	51·1	273
12·0	5	61·4	60·3	270
BAIRAGARH				
0530 hr.				
10·5	1	23·0	23·0	250
BAJPE				
0530 hrs				
10·5	10	7·9	3·9	252
12·0	3	7·8	4·6	260
14·1	1	8·5	8·5	265
1730 hr.				
10·5	18	9·0	6·5	262
12·0	14	10·1	8·1	237
14·1	6	7·7	5·4	240
16·2	3	7·7	2·6	223
18·0	2	9·7	9·6	323
BAMRAULI				
0530 hrs*				
10·5	10	46·0	44·6	272
12·0	4	54·6	53·8	263
14·1	1	34·0	34·0	260
1130 hr				
10·5	1	48·0	48·0	270
1730 hr.*				
10·5	18	49·3	47·1	269
12·0	6	56·8	55·8	256
14·1	1	22·5	22·5	265
16·2	1	26·0	26·0	265
18·0	1	13·0	13·0	270
BANGALORE				
0530 hr.@				
10·5	13	8·5	6·8	270
12·0	13	9·2	6·5	239
14·1	12	12·9	11·3	141
16·2	11	11·0	4·2	263
18·0	8	8·0	3·6	266
21·0	5	5·8	5·6	255
24.0	4	6·7	3·5	271
27·0	1	8·5	8·5	085

Ht. in Km.	n	V	v	D
1130 hr.				
10·5	13	9·4	7·2	264
12·0	11	10·8	8·5	236
14·1	9	11·2	9·8	232
16·2	6	9·1	4·3	248
18·0	3	6·5	5·6	327
1730 hr. @				
10·5	19	9·2	5·1	264
12·0	17	9·1	7·4	252
14·1	15	10·4	8·0	248
16·2	12	8·6	4·6	242
18·0	12	6·3	3·6	323
21.0	8	11·1	10·1	255
24.0	4	11·0	11·0	265
BEGUMPET				
0530 hr.				
10·5	14	16·5	15·7	269
12·0	12	16·4	14·9	267
14·1	10	15·1	12·7	256
16·2	4	10·0	8·4	274
18·0	3	8·3	6·3	289
21·0	2	7·5	7·5	243
1730 hr.				
10·5	7	18·9	17·2	271
12·0	3	23·3	23·1	255
14·1	1	11·5	11·5	250
16·2	1	4·0	4·0	245
18·0	1	6·5	6·5	300
DUM DUM				
0530 hr.*				
10·5	13	41·3	39·6	260
12·0	9	34·0	32·9	257
14·1	5	32·7	32·3	261
16·2	2	38·2	38·2	265
1730 hr.*				
10·5	17	36·6	35·3	261
12·0	11	36·5	35·3	259
14·1	3	32·5	32·0	257
GADAG				
0530 hr.				
10·5	21	12·7	11·2	259
12·0	16	13·5	12·1	240
14·1	15	8·8	6·6	255

Ht. in Km.	n	V	v	D
16·2	13	6·3	3·5	267
18·0	9	7·5	2·0	260
21·0	4	4·0	1·3	071
24·0	3	8·5	3·4	297
27·0	1	18·0	18·0	270
1730 hr.				
10·5	18	14·5	12·9	259
12·0	14	13·5	12·1	253
14·1	14	13·6	10·9	253
16·2	10	8·4	4·0	264
18·0	6	8·7	2·7	310
GANNAVARAM				
1730 hr.				
10·5	10	20·5	19·5	265
12·0	4	19·7	18·3	250
14·1	1	11·0	11·0	195
GAUHATI				
0530 hr .*				
10·5	8	54·3	53·5	269
12·0	6	57·6	56·5	271
1730 hr.*				
10·5	8	52·5	51·9	266
12·0	3	57·5	56·5	268
GOPALPUR				
0530 hr.				
10·5	1	5·5	5·5	185
12·0	1	9·0	9·0	215
1730 hr.				
10·5	2	14·0	14·0	231
GORAKHPUR				
1730 hr.				
10·5	1	51·5	51·5	270
GWALIOR				
1730 hr.				
10·5	3	46·0	44·8	274
JODHPUR				
0530 hr.*				
10·5	4	44·0	40·7	263
12·0	1	60·0	60·0	295
1730 hr.*				
10·5	6	39·3	38·8	261

Ht. in Km.	n	V	v	D
MADRAS				
0530 hr.*				
10·5	23	8·5	5·2	257
12·0	23	10·7	6·9	235
14·1	21	10·9	8·1	224
16·2	20	8·7	6·1	264
18·0	13	7·3	2·7	261
21·0	6	10·4	5·0	273
1130 hr.				
10·5	3	8·3	3·8	281
12·0	3	6·5	4·8	272
14·1	3	13·5	11·8	191
16·2	3	9·3	2·3	347
18·0	3	3·7	2·7	057
1730 hr.*				
10·5	28	9·7	6·7	266
12·0	27	10·5	8·4	249
14·1	23	10·6	8·2	223
16 2	22	8·5	3·0	237
18·0	19	8·1	3·8	263
21·0	8	8·3	7·9	261
24·0	2	10·7	10·7	277
MINICOY				
0530 hr.				
10 5	1	8·0	8·0	170
1730 hr.				
10·5	2	7·3	6·7	071
12·0	2	4·0	4·0	040
14·1	1	1·0	1·0	070
NAGPUR				
0530 hr.*				
10·5	30	31·7	30.0	272
12·0	28	31·9	30·5	268
14·1	25	32·7	31·4	264
16 2	21	25·8	25·0	266
18·0	12	16·2	14·7	285
21·0	4	20·7	19·7	284
1130 hr.				
10·5	4	28·3	27·7	271
12·0	1	16·5	16·5	275
1730 hr.*				
10·5	31	32·2	30·6	272
12·0	30	31·8	30·4	270

Table V—Monthly Mean Directions and Velocities of Upper Winds

Winds above 9·0 Km. above mean sea level

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Ht. in Km.	n	V	v	D
		NAGPUR		
		1730 hr.*		
14·1	29	32·0	30·7	262
16·2	25	23·4	22·3	266
18·0	16	20·6	18·8	271
21·0	7	14·8	12·4	278
24·0	1	7·0	7·0	270
		NEW DELHI		
		0530 hr.*		
10·5	23	40·0	38·9	276
12·0	15	44·7	44·0	278
14·1	11	40·8	40·0	275
16·2	5	30·9	30·9	273
18·0	3	20·0	16·7	285
		1730 hr.*		
10·5	26	50·4	48·5	278
12·0	24	47·8	46·0	275
14·1	18	43·0	42·0	275
16·2	16	28·9	28·0	278
18·0	10	17·5	15·5	265
21·0	4	10·7	9·1	263
24·0	2	11·5	10·5	275
		POONA		
		1730 hr.		
10·5	3	20·7	19·7	276
12·0	3	15·7	15·0	279
		PORT BLAIR		
		0530 hr.*		
10·5	2	6·0	6·0	166
12·0	2	10·0	7·5	166
14·1	1	7·0	7·0	235
		1130 hr.		
10·5	1	5·0	5·0	265
		1730 hr.*		
10·5	5	6·9	3·5	208
12·0	5	8·3	7·0	210
14·1	3	10·7	9·3	207
16·2	1	7·5	7·5	260
		SANTA CRUZ		
		0530 hr.*		
10·5	19	28·7	25·7	298
12·0	14	24·6	21·7	273
14·1	8	25·4	23·8	268
16·2	4	22·1	20·1	269
18·0	1	23·0	23·0	270

Ht. in Km.	n	V	v	D
		1130 hr.		
10·5	7	17·4	16·6	279
12·0	4	22·4	20·0	259
14·1	2	25·5	25·0	280
16·2	1	9·5	9·5	245
		1730 hr.*		
10·5	20	28 7	26·9	273
12·0	12	29·8	27·8	275
14·1	6	31·1	28·8	278
16·2	3	25·3	25·3	279
18·0	2	19·0	10·1	257
		TIRUCHIRAPALLI		
		0530 hr.		
10·5	1	7·5	7·5	275
		1730 hr.		
10·5	3	5·3	2·6	247
12·0	3	9·7	9·5	196
14·1	2	13·8	13·7	158
16·2	1	4·5	4·5	030
		TRIVANDRUM		
		0530 hr.*		
10·5	28	7·1	2·4	142
12·0	27	7·9	5·2	157
14·1	26	6·8	3·5	137
16·2	19	6·3	3·6	087
18·0	9	8·1	2·3	297
21·0	2	10·7	9·3	310
		1130 hr.		
10·5	3	4·8	2·7	127
12·0	2	8·5	5·0	096
14·1	1	10·5	10·5	110
16·2	1	17·0	17·0	130
18·0	1	14·0	14·0	090
		1730 hr.*		
10·5	30	6·7	2·3	144
12·0	29	8·3	6·3	148
14·1	27	9·9	8·0	144
16·2	24	8·2	3·3	111
18·0	19	6·5	1·1	135
21·0	9	10·1	5·6	162

Ht. in Km.	n	V	v	D
		VERAVAL		
		1730 hr.		
10·5	12	35·5	33·9	279
		1730 hr.*		
12·0	4	29·4	28·6	272
14·1	1	24·0	24·0	245
		VISAKHAPATNAM		
		0530 hr.*		
10·5	21	23·3	22·5	270
12·0	20	25·3	23·9	263
14·1	18	25·0	24·2	253
16·2	10	17·6	16·4	270
18·0	8	13·3	12·5	270
21·0	1	18·0	18·0	295
		1130 hr.		
10·5	11	18·9	17·8	262
12·0	4	15·0	13·2	257
14·1	4	14·5	14·5	238
16·2	3	9·0	7·0	242
18·0	1	6·5	6·5	180
21·0	1	6·0	6·0	325
		1730 hr.*		
10·5	30	22·0	20·8	267
12·0	28	22·6	21·4	259
14·1	24	23·3	22·4	253
16·2	16	16·4	15·7	263
18·0	8	11·3	10·0	256
21·0	2	15·5	15·5	251

RADIOSONDE DATA

During the month, observations of upper air temperature, pressure and humidity were made at 13 stations in India as given in the list below. For a detailed description of the instruments used, a reference may be made to the I. M. D. Scientific Notes Nos. 112 and 113 (Volume IX).

LIST OF RADIOSONDE STATIONS IN INDIA

S. No.	Name of station	Type of instrument used	Date of starting	Hours of routine observations in GMT during the month	Remarks
1	Ahmedabad	Fan type	20th July 1961	00 and 12	
2	Allahabad	Clock type	1st October 1944	00 and 12	
3	Bangalore	Fan type	10th March 1961	00 and 12	
4	Bombay	Clock type	7th September 1954	00 and 12	
5	Calcutta	Clock type	13th December 1946	00 and 12	Fan type used from 13th December, 1946 to 30th November, 1947.
6	Gauhati	Clock type	22nd July 1955	00 and 12	
7	Jodhpur	Clock type	17th April 1946	00 and 12	
8	Madras	Fan type	29th June 1946	00 and 12	
9	Nagpur	Fan type	1st October 1946	00 and 12	
10	New Delhi	Clock type	3rd December 1943	00 and 12	
11	Port Blair	Fan type	4th December 1946	00 and 12	
12	Trivandrum	Fan type	1st July 1947	00 and 12	
13	Visakhapatnam	Fan type	8th December 1946	00 and 12	

RADIOSONDE DATA

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

(A) From ascents at 00 hr. GMT.

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD Surf. Pr. 1007 mb.)						ALLAHABAD (1005 mb.)						BANGALORE (911 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Min.	Max.	Dew point
Surface	31	055	288·0	291	285	279·1	31	098	280·6	285	275	278·5	31	921	289·3	292	286	287·1
1000	31	118	..	..	..	..	31	137	..	..	..	..	31	123	..	..	..	..
900	31	1020	288·9	294	284	272·0	31	1020	285·2	292	281	269·9	31	1025	288·8	291	286	286·1
850	31	1503	285·7	292	281	267·0	31	1497	283·5	288	280	264·7	31	1510	288·0	291	283	281·5
800	31	2010	283·1	289	277	263·2	31	2000	281·2	286	277	263·5	31	2022	286·5	290	284	278·1
700	31	3107	276·8	282	269	257·2	31	3092	276·0	282	271	255·5	31	3137	282·0	286	277	266·7
600	31	4344	269·5	275	263	..	31	4325	269·7	277	265	..	31	4400	275·7	279	272	256·3
500	31	5765	261·7	267	252	..	30	5740	260·8	268	254	..	31	5854	268·9	271	264	..
400	31	7444	251·2	257	241	..	30	7412	250·6	260	243	..	31	7573	258·1	267	254	..
300	30	9501	236·1	243	229	..	27	9489	238·0	248	231	..	30	9687	243·0	249	238	..
250	30	10740	227·2	234	217	..	26	10715	230·0	237	225	..	27	10955	231·8	241	227	..
200	30	12196	216·5	225	210	..	22	12195	221·7	227	219	..	24	12443	220·3	228	213	..
175	28	13036	210·6	221	203	..	18	13032	216·5	221	212	..	24	13280	212·9	220	205	..
150	27	13972	204·5	218	198	..	17	13942	211·9	217	207	..	24	14236	206·4	214	199	..
125	25	15055	201·1	207	192	..	14	15120	207·5	213	200	..	24	15311	199·7	207	193	..
100	24	16351	199·8	213	193	..	11	16464	204·0	210	200	..	24	16615	196·2	204	187	..
80	19	17663	203·8	216	195	..	5	17791	205·2	210	202	..	23	17924	197·1	204	192	..
70	16	18457	207·4	214	203	..	..	..	..	..	..	..	..	..	..	..	..	..
60	12	19447	210·2	224	202	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY 1010 mb.)						CALCUTTA (1014 mb.)						GAUHATI (1010mb.)					
urface	31	013	299·1	296	287	287·9	30	006	284·1	288	281	283·0	31	049	284·4	290	280	283·7
1000	29	097	..	..	..	..	30	122	..	..	..	..	31	130	..	..	..	..
900	29	1014	293·2	297	289	278·3	30	1010	284·0	289	278	274·8	31	1017	284·8	290	279	279·8
850	29	1505	290·2	294	286	275·5	30	1483	282·4	287	276	268·5	31	1495	282·4	287	277	276·7
800	29	2019	286·4	292	282	272·2	30	1985	280·9	287	275	265·6	31	1996	279·2	286	273	272·3
700	29	3131	280·7	286	272	258·9	30	3079	276·7	283	271	258·2	31	3078	273·5	283	268	264·8
600	29	4388	274·3	280	267	249·0	30	4317	269·8	276	265	251·7	31	4301	267·6	278	261	..
500	29	5835	266·4	272	261	..	30	5739	261·8	267	257	.	31	5712	260·0	273	254	..
400	26	7555	257·3	261	253	..	28	7423	252·6	259	248	..	31	7380	250·4	262	241	..
300	23	9665	242·7	247	237	..	21	9495	239·5	244	235	..	25	9413	237·4	247	229	..
250	21	10939	234·0	239	227	..	16	10770	232·5	236	230	..	22	10682	231·4	238	225	..
200	20	12431	222·9	227	216	..	13	12285	219·2	226	219	..	19	12190	223·9	229	219	..
175	18	13299	216·9	221	213	..	10	13141	216·9	224	211	..	15	13024	219·0	227	213	..
150	16	14270	210·9	216	205	..	8	14138	211·7	219	204	..	12	14000	213·7	219	207	..
125	13	15386	204·2	208	199	..	6	15223	204·7	205	199	..	10	15121	208·2	215	203	..
100	12	16692	199·4	203	194	..	5	16508	200·0	208	194	..	7	16471	206·1	209	201	..
80	5	17994	199·2	203	195	..	..	..	..	..	..	..	..	..	..	..	..	..
70	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	.	..	..	..	..	..	.	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From Ascents at 00 Hour GMT.

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR (Surf. Pr. 990 mb.)						MADRAS (1011 mb.)						NAGPUR (979 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	218	284·4	289	281	273·4	31	015	294·3	299	291	292·5	31	311	285·3	291	281	281·6
1000	31	137	..	..	..	..	31	106	..	..	..	..	31	129	..	..	..	..
900	31	1024	287·4	292	281	287·4	31	1012	290·0	293	287	285·8	31	1023	289·7	292	286	277·6
850	31	1505	284·7	289	281	266·6	31	1499	287·8	291	284	280·0	31	1507	287·1	290	284	275·5
800	31	2009	281·6	289	278	262·8	31	2011	285·3	289	278	274·6	31	2017	284·0	289	280	272·2
700	31	3101	275·4	281	270	257·4	31	3125	282·0	286	278	265·4	31	3120	278·6	284	275	258·7
600	31	4333	269·2	275	265	254·3	31	4389	275·5	281	271	258·6	31	4368	272·8	279	268	249·4
500	31	5749	260·5	266	255	..	31	5843	267·9	271	263	..	31	5805	264·5	269	260	..
400	30	7421	250·5	255	244	..	31	7565	257·5	263	251	..	31	7506	254·7	259	250	..
300	19	9483	239·6	248	231	..	27	9672	242·6	249	235	..	31	9597	240·5	247	235	..
250	16	10745	231·3	237	224	..	24	10939	233·1	240	227	..	31	10857	231·0	239	221	..
200	9	12215	220·8	226	216	..	23	12420	220·0	229	209	..	31	12335	220·5	230	213	..
175	7	12971	216·7	222	212	..	21	13245	213·4	225	205	..	31	13173	213·7	222	205	..
150	7	13991	212·1	218	206	..	20	14199	205·5	211	197	..	31	14134	206·6	214	197	..
125	..	..	..	..	..	..	20	15268	200·3	206	193	..	29	15222	201·0	208	192	..
100	..	..	..	..	..	..	19	16583	195·7	199	193	..	28	16532	197·4	205	192	..
80	..	..	..	..	..	..	14	17873	196·6	202	191	..	23	17831	198·4	206	193	..
70	..	..	..	..	..	..	13	18634	198·0	207	192	..	21	18600	190·8	208	192	..
60	..	..	..	..	..	..	12	19499	198·5	205	191	..	21	19512	203·3	211	195	..
50	..	..	..	..	..	..	11	20588	202·0	211	191	..	21	20593	207·9	218	197	..
40	..	..	..	..	..	..	9	21839	205·4	216	195	..	11	21967	211·0	217	199	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Standard Pressure Surface mb.	NEW DELHI (991 mb.)						PORT BLAIR (1002 mb.)						TRIVANDRUM (1002 mb.)					
Surface	31	209	280·4	287	276	277·3	31	079	296·9	299	294	295·1	31	064	297·1	299	295	293·7
1000	31	138	..	..	..	..	31	093	..	..	..	..	31	080	..	..	..	..
900	31	1020	284·5	290	279	267·8	31	1009	292·2	296	290	289·0	31	996	291·6	295	289	285·6
850	31	1495	282·0	287	277	261·3	31	1499	290·0	292	286	284·8	31	1486	289·2	293	286	282·4
800	31	1996	279·6	284	275	258·1	31	2014	287·7	291	284	280·4	31	2000	286·5	291	282	279·4
700	31	3080	273·2	281	268	249·3	31	3134	282·5	287	279	271·3	31	3115	281·1	285	278	269·1
600	31	4302	265·9	274	260	..	30	4398	275·8	281	271	263·7	31	4372	274·0	279	268	261·7
500	30	5698	256·9	265	251	..	30	5854	268·2	273	263	..	31	5819	267·0	273	261	..
400	0	7342	246·0	256	239	..	29	7575	257·3	262	252	..	31	7529	256·5	262	248	..
300	28	9359	233·3	244	228	..	27	9689	243·2	249	237	..	28	9640	241·6	251	233	..
250	26	10583	226·4	236	221	..	25	10954	232·7	241	222	..	28	10904	231·0	241	221	..
200	22	12041	220·0	227	214	..	25	12398	221·5	229	209	..	28	12377	219·2	231	210	..
175	22	12905	216·8	224	212	..	20	13285	215·2	223	207	..	27	13219	212·7	225	205	..
150	22	13867	213·1	220	208	..	18	14251	209·0	216	202	..	27	14176	205·7	219	197	..
125	21	14983	210·0	215	205	..	12	15381	202·5	209	195	..	26	15248	200·4	213	193	..
100	17	16359	208·1	213	204	..	10	16721	198·3	202	193	..	25	16567	195·2	206	185	..
80	10	17745	210·1	220	205	..	5	18028	198·4	203	194	..	19	17867	195·7	205	188	..
70	5	18582	210·2	215	205	..	..	..	..	..	..	..	19	18646	197·6	208	189	..
60	..	..	..	..	..	..	..	..	..	..	..	..	16	19559	200·6	212	193	..
50	..	..	..	..	..	..	..	..	..	..	..	..	14	20656	204·0	216	193	..
40	..	..	..	..	..	..	..	..	..	..	..	..	10	21977	208·4	217	199	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

(A) From ascents at 00 hour GMT.

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM Surf. Pr. (1009 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	293·4	297	290	288·5
1000	31	121	..	..	..	..
900	31	1027	289·2	292	286	280·3
850	31	1513	287·6	293	282	275·1
800	31	2025	285·6	291	281	268·5
700	31	3135	280·7	285	275	260·9
600	31	4393	275·7	280	270	252·5
500	31	5845	267·0	272	263	..
400	31	7559	256·8	262	252	..
300	29	9671	243·0	248	234	..
250	26	10952	234·1	240	229	..
200	26	12398	221·8	229	217	..
175	26	13290	215·7	222	210	..
150	25	14263	208·8	214	202	..
125	25	15343	203·8	209	197	..
100	22	16689	198·4	207	189	..
80	18	18022	197·9	205	191	..
70	16	18810	199·0	211	194	..
60	15	19716	202·5	212	197	..
50	11	20808	206.7	214	197	..
40	7	22208	207.4	214	199	..
30	6	23828	210.2	219	200	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

RADIOSONDE DATA

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

(B) From ascents at 12 hour GMT.

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	AHMEDABAD (Surf. Pr. 1006 mb.)						ALLAHABAD (1004 mb.)						BANGALORE (909 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A				No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point			Mean	Max.	Min.	Dew point
Surface	31	055	300·4	304	297	281·7	31	098	290·3	295	280	282·5	31	921	297·5	300	293	286·0
1000	31	108	..	..	..	..	31	130	..	..	..	..	31	081	..	..	..	..
900	31	1022	290·9	296	284	275·6	31	1023	286·5	291	282	270·5	31	1008	296·2	298	293	284·7
850	31	1508	287·4	293	284	271·6	31	1503	284·7	290	281	264·6	31	1502	291·9	294	289	282·0
800	31	2017	284·5	292	280	267·9	31	2007	282·3	289	278	261·9	31	2018	287·5	290	282	279·3
700	31	3119	278·0	286	273	258·7	31	3102	276·7	284	271	256·4	31	3136	282·0	285	277	267·5
600	31	4362	270·7	278	263	254·4	31	4338	270·2	276	264	246·0	31	4400	276·7	282	272	255·4
500	31	5786	262·6	270	256	..	30	5759	261·9	268	255	..	31	5858	269·0	273	265	..
400	31	7471	252·1	258	245	..	29	7441	251·9	260	244	..	30	7583	258·6	262	254	..
300	30	9538	239·1	245	233	..	27	9504	239·6	246	233	..	29	9698	242·9	249	236	..
250	30	10797	229·5	237	223	..	25	10760	232·4	239	227	..	29	10968	232·1	241	224	..
200	29	12264	219·3	226	213	..	22	12256	224·1	229	220	..	28	12449	219·9	228	211	..
175	29	13112	213·5	221	207	..	21	13123	219·4	223	213	..	24	13291	212·4	218	203	..
150	29	14068	208·1	217	196	..	18	14107	214·6	220	210	..	24	14243	205·0	212	197	..
125	26	15170	203·5	212	194	..	14	15239	209·8	214	203	..	21	15302	199·1	205	191	..
100	21	16519	199·8	208	190	..	14	16596	207·1	214	203	..	21	16615	194·6	201	186	..
80	17	17808	202·1	211	197	..	10	17966	207·4	213	201	..	20	17917	196·4	204	189	..
70	8	18602	204·1	215	199	..	..	..	..	..	..	..	19	18694	198·2	206	188	..
60	6	19550	208·8	220	201	..	..	..	..	..	..	..	19	19591	201·5	209	191	..
50	5	20680	212·6	226	203	..	..	..	..	..	..	..	15	20647	204·9	212	194	..
40	..	..	..	..	..	..	..	..	..	..	..	..	8	21989	207·3	216	199	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

	BOMBAY (1009 mb.)						CALCUTTA (1012 mb.)						GAUHATI (1007mb.)					
Surface	30	013	301·3	304	299	290·9	29	006	294·5	297	291	285·3	31	049	291·3	295	287	287·7
1000	30	090	..	..	..	..	29	113	..	..	..	..	31	112	..	..	..	..
900	30	1048	294·8	299	291	279·5	29	1018	289·1	292	285	276·3	31	1011	287·2	289	284	280·2
850	30	1507	291·0	295	283	276·8	29	1502	286·7	291	283	268·1	31	1491	283·8	287	280	276·6
800	30	2023	287·0	291	284	272·5	29	2011	284·9	291	280	263·7	31	1997	280·0	284	275	272·7
700	30	3137	281·8	286	279	256·1	29	3117	279·7	286	272	258·0	31	3078	273·3	277	267	264·6
600	30	4398	275·3	279	272	250·0	29	4368	273·0	279	268	253·0	31	4302	267·8	273	263	..
500	30	5851	267·6	272	263	..	29	5807	264·7	270	258	..	31	5712	259·5	266	254	..
400	28	7572	257·4	262	252	..	29	7508	254·9	261	249	..	31	7376	249·3	258	241	..
300	25	9690	243·3	247	239	..	21	9595	241·9	246	237	..	27	9432	236·6	243	228	..
250	23	10966	234·4	239	229	..	18	10853	233·6	237	227	..	22	10681	229·9	236	225	..
200	21	12476	224·6	229	221	..	15	12373	223·6	228	217	..	21	12162	222·3	228	218	..
175	19	13347	218·9	224	213	..	9	13216	218·1	223	210	..	16	13089	218·1	223	213	..
150	17	14334	212·8	219	206	..	6	14213	210·0	212	209	..	11	13992	213·9	217	208	..
125	12	15421	206·5	212	199	..	..	..	..	..	..	..	5	15026	211·8	213	210	..
100	8	16782	202·1	207	195	..	..	..	..	..	..	..	..	..	..	..	..	..
80	7	18092	201·1	206	198	..	..	..	..	..	..	..	..	..	..	..	..	..
70	7	18863	202·7	208	199	..	..	..	..	..	..	..	..	..	..	..	..	..
60	6	19837	204·8	214	197	..	..	..	..	..	..	..	..	..	..	..	..	..
50	6	20943	209·7	218	203	..	..	..	..	..	..	..	..	..	..	..	..	..
40	6	22326	214·3	220	207	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..
10	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

RADIOSONDE DATA

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

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

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	JODHPUR (Surf. Pr. 989 mb.)						MADRAS (1010 mb.)						NAGPUR (977 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			Dew point	No. of obs.	Ht. gpm.	Temperature °A			Dew point	No. of obs.	Ht. gpm.	Temperature °A			Dew point
			Mean	Max.	Min.				Mean	Max.	Min.				Mean	Max.	Min.	
Surface	30	218	295·7	301	291	275·3	31	015	298·6	300	297	292·6	31	311	296·5	301	290	284·4
1000	30	118	..	..	..	..	31	100	..	..	..	..	31	107	..	..	..	..
900	30	1025	289·5	294	284	271·4	31	1013	290·6	293	288	285·6	31	1020	291·3	294	287	278·8
850	30	1503	285·2	290	280	267·6	31	1500	288·7	293	285	281·1	31	1507	287·3	290	284	276·2
800	30	2013	281·5	287	278	264·1	31	2014	286·7	290	283	277·1	31	2016	284·1	288	279	272·3
700	30	3107	276·3	282	271	259·0	31	3133	282·5	286	277	265·5	31	3121	278·3	284	273	257·2
600	30	4343	269·4	276	262	..	31	4401	276·4	283	271	258·4	31	4368	272·5	279	268	235·3
500	30	5761	261·1	269	256	..	31	5859	267·9	273	262	..	31	5806	264·7	269	261	
400	30	7436	250·6	257	242	..	31	7577	257·2	263	249	..	31	7504	254·2	258	249	
300	18	9480	237·7	248	228	..	30	9689	243·2	250	235	..	31	9591	239·9	247	236	
250	15	10730	231·2	238	228	..	28	10975	234·6	243	226	..	30	10852	230·4	236	225	
200	9	12247	222·0	226	219	..	28	12472	222·2	231	213	..	30	12326	218·9	225	213	
175	6	13085	218·5	222	215	..	24	13311	214·7	223	208	..	30	13162	212·3	219	205	
150							24	14277	207·5	213	201	..	30	14123	205·7	213	195	
125							24	15339	201·3	207	194	..	30	15200	200·4	208	193	
100							23	16682	197·6	211	191	..	30	16513	197·3	204	191	
80							21	18000	197·6	206	191	..	24	17815	199·9	209	192	
70							17	18750	198·8	211	192	..	23	18577	201·2	214	192	
60							14	19672	201·0	215	193	..	17	19526	203·5	212	197	
50							14	20734	205·3	219	194	..	14	20619	205·6	214	201	
40							7	22011	203·7	213	195	..	8	22006	208·6	213	203	
30																		
20																		
10																		

	NEW DELHI (991 mb.)						PORT BLAIR (1001 mb.)						TRIVANDRUM (1000 mb.)					
Surface	31	209	290·6	294	283	279·6	31	079	299·0	301	297	295·6	31	064	301·6	303	299	294·5
1000	31	129	..	..	..	..	31	084	..	..	..	..	31	067	..	..	..	..
900	31	1022	285·6	291	281	270·1	31	1002	292·2	296	289	289·4	31	994	294·2	297	292	286·9
850	31	1500	283·0	289	279	264·9	31	1492	289·7	293	288	284·7	31	1486	290·9	294	288	283·4
800	31	2002	280·5	287	277	260·2	31	2008	287·4	290	285	279·9	31	2003	288·0	291	284	278·8
700	31	3089	273·8	280	270	258·3	31	3128	282·0	285	277	274·2	31	3124	282·9	285	278	268·7
600	31	4310	266·4	272	259	..	31	4392	275·7	281	272	267·4	31	4391	276·7	283	273	263·7
500	31	5709	257·4	264	250	..	31	5846	267·2	271	261	..	31	5850	269·1	275	265	..
400	31	7359	247·0	255	241	..	30	7558	256·1	261	249	..	31	7578	258·8	264	255	..
300	30	9388	234·6	243	227	..	29	9658	241·1	248	236	..	31	9705	244·2	251	236	..
250	29	10620	227·8	236	219	..	29	10921	231·5	241	224	..	30	10981	233·7	243	225	..
200	25	12070	220·7	225	214	..	26	12395	218·7	228	211	..	30	12474	222·4	232	213	..
175	25	12930	217·1	222	205	..	22	13259	213·0	221	207	..	28	13318	216·2	223	207	..
150	24	13908	214·9	225	209	..	16	14199	205·8	212	197	..	28	14297	209·1	215	201	..
125	21	15039	211·9	216	205	..	11	15235	197·4	209	192	..	27	15405	203·0	209	193	..
100	17	16444	211·2	219	206	..	6	16445	192·0	195	188	..	25	16711	197·9	205	189	..
80	9	17800	211·1	215	205	..							21	18021	199·4	205	191	..
70	8	18649	213·6	219	208	..							19	18789	201·4	212	193	..
60	6	19573	214·8	219	209	..							11	19768	202·6	211	194	..
50	5	20701	219·0	222	210	..							10	20870	204·9	211	196	..
40													5	22083	205·6	214	198	..
30																		
20																		
10																		

RADIOSONDE DATA

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

(B) From Ascents at 12 Hour GMT

December 1961 (Agrahayana 10—Pausa 10, 1883 Saka)

Standard Pressure Surface mb.	VISAKHAPATNAM (Surf. Pr. 1008 mb.)					
	No. of obs.	Ht. gpm.	Temperature °A			
			Mean	Max.	Min.	Dew point
Surface	31	041	297·1	299	295	290·2
1000	31	111	..	..	..	..
900	31	1022	290·0	293	287	280·4
850	31	1506	288·2	292	285	276·4
800	31	2018	285·5	291	281	273·1
700	31	3129	280·6	285	274	264·1
600	31	4389	275·2	279	271	255·9
500	31	5842	267·4	273	264	..
400	31	7555	256·2	261	252	..
300	31	9659	241·9	247	235	..
250	30	10924	231·8	239	224	..
200	29	12396	219·4	225	213	..
175	28	13232	212·9	219	206	..
150	28	14185	205·8	213	198	..
125	28	15256	200·0	207	193	..
100	25	16582	196·0	202	190	..
80	17	17895	197·8	204	192	..
70	14	18715	200·5	207	194	..
60	9	19638	203.8	208	198	..
50	8	20734	208.0	215	201	..
40	..	..	..	..	..	..
30	..	..	..	..	..	..
20	..	..	..	..	..	..
10	..	..	..	..	..	..

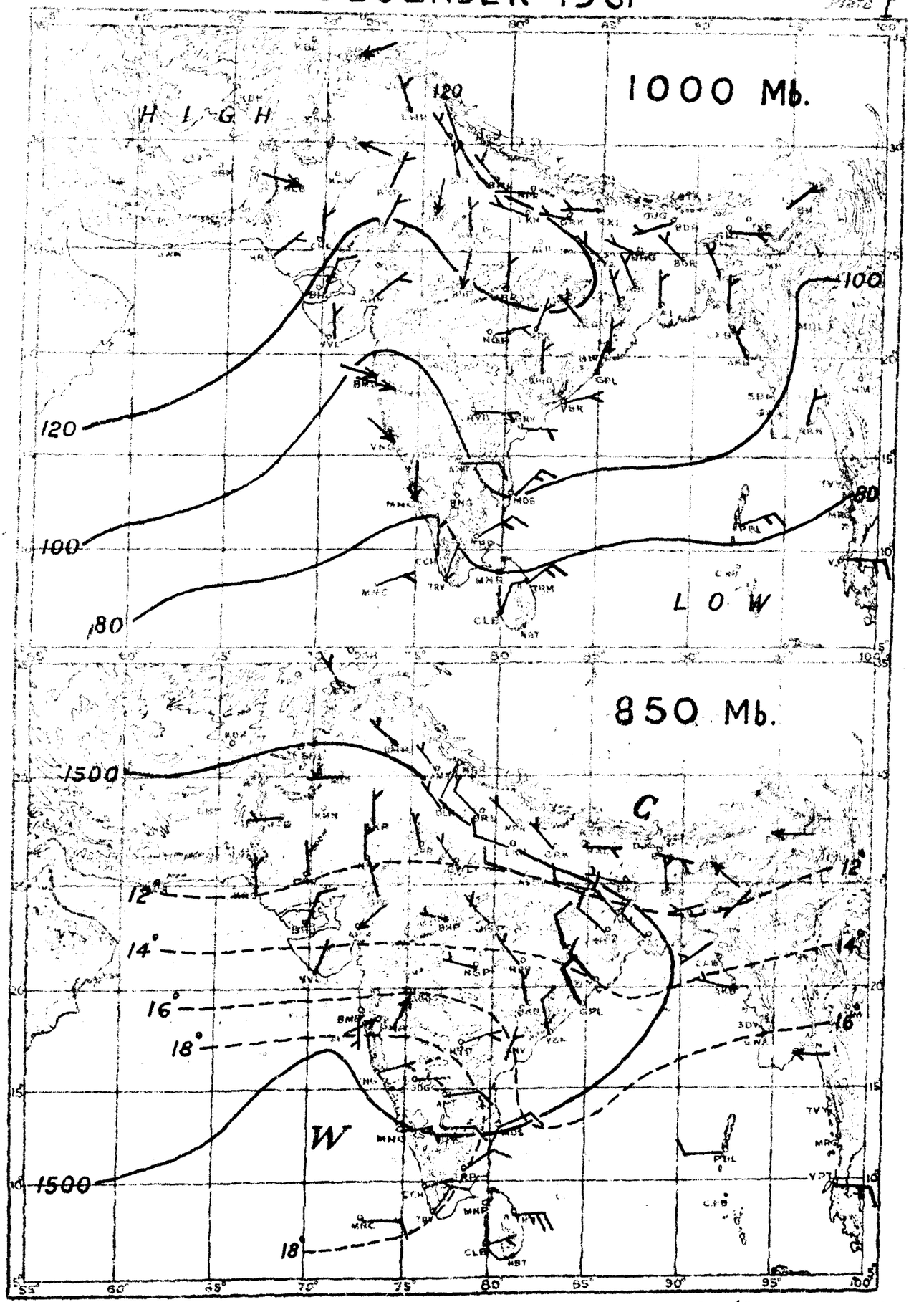
NOTE : Number of observations refer to those of dynamic height.
Means are not worked out for temperature and dew point for the 1000 mb surface and for standard pressure surfaces with temperatures less than 273°A.
Means are not worked out for less than five observations at standard pressure surfaces.

GIPN - -S6—572 D. D. G. Obs. Poona/65—21-9-66—260.

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER-1961

Plate I



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

DDGC/2394 (1):10:65

G.P.Z.P. POONA, 1965

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

G.P.Z. P. POONA, 186

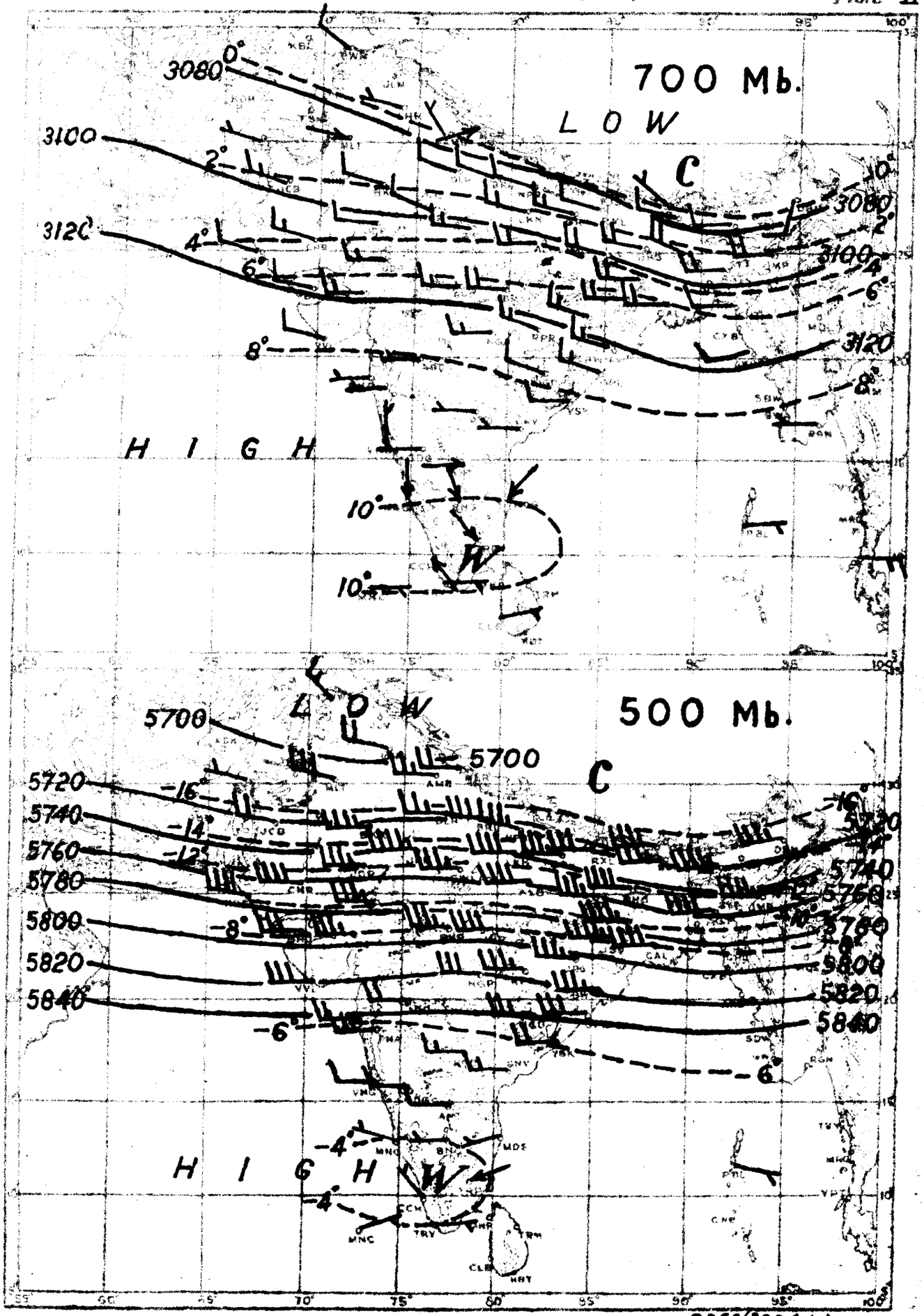
143 204

MONTHLY MEAN CONSTANT PRESSURE CHARTS

DECEMBER-1961

I.Met.D

Plate II



DDGC/2394 (11):10:65

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

G.P.Z.P. POONA, 1965

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

20501 M